



ExtremeCloud™ IQ Site Engine Release Notes

09/2024
24.07.11
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Table of Contents

ExtremeCloud™ IQ Site Engine Release Notes	1
Extreme Networks® Software License Agreement	3
Table of Contents	8
24.07.11 Release Notes	11
Licensing Changes	11
End of Software Maintenance	12
Onboarding ExtremeCloud IQ Site Engine to ExtremeCloud IQ in Connected Deployment Mode	12
Enhancements	13
ExtremeCloud IQ Site Engine	13
ExtremeManagement	13
Customer Found Defects and Known Issues	13
Customer Found Defects Addressed 24.07.11	13
Customer Found Defects Addressed 24.07.10	14
Known Issues Addressed in 24.07.11	16
Known Issues Addressed in 24.07.10	16
Addressed Vulnerabilities	18
24.07.11 Application Analytics Traffic Sensor images:	18
24.07.11 ExtremeAnalytics images:	19
24.07.11 ExtremeControl images:	20
24.07.11 ExtremeCloud IQ Site Engine images:	22
24.07.10 Application Analytics Traffic Sensor images:	23
24.07.10 ExtremeAnalytics images:	25
24.07.10 ExtremeControl images:	26
24.07.10 ExtremeCloud IQ Site Engine images:	28
Installation, Upgrade, and Configuration Changes	29
Installation Information	29
Upgrading Without an Internet Connection	29
Custom FlexViews	30

Custom MIBs and Images	30
Important Upgrade Information	30
Important Upgrade Considerations	32
License Renewal	32
Free Space Consideration	33
Site Discover Consideration	33
ExtremeAnalytics Upgrade Information	33
ExtremeControl Version 8.0 and later	33
Other Upgrade Information	34
Upgrading ExtremeControl Engine to Version 24.07.11	34
General Upgrade Information	34
Agent Version for NAC Agent-Based Assessment - Legacy	34
LDAPS servers with FQDN	35
Upgrading to Policy Manager 24.07.11	35
Fabric Configuration Information	35
Certificate	35
Authentication Key	35
Service Configuration Change	36
CLIP Addresses	36
Gateway Address Configuration Change	36
Upgrading VSP-8600	36
Removing Fabric Connect Configuration	36
Password Configuration	36
VRF Configuration	37
Device Configuration Information	37
VDX Device Configuration	37
VOSS/Fabric Engine Device Configuration	37
ERS Device Configuration	38
SLX Device Configuration	38
ExtremeXOS Device Configuration	38

Firmware Upgrade Configuration Information	39
Wireless Manager Upgrade Information	39
Server and Client System Requirements	39
ExtremeCloud IQ Site Engine Server Requirements	40
ExtremeCloud IQ Site Engine Client Requirements	40
ExtremeCloud IQ Site Engine Server and Client Hardware Requirements	40
ExtremeCloud IQ Site Engine Server Requirements	40
ExtremeCloud IQ Site Engine Client Requirements	41
Virtual Engine Requirements	41
ExtremeCloud IQ Site Engine Virtual Engine Requirements	41
ExtremeControl Virtual Engine Requirements	42
ExtremeAnalytics Virtual Engine Requirements	43
Fabric Manager Requirements	43
ExtremeControl Agent OS Requirements	43
ExtremeControl Supported End-System Browsers	44
ExtremeControl Engine Version Requirements	45
ExtremeControl VPN Integration Requirements	45
ExtremeControl SMS Gateway Requirements	46
ExtremeControl SMS Text Messaging Requirements	46
ExtremeAnalytics Requirements	46
Ekahau Maps Requirements	46
Guest and IoT Manager Requirements	46
Guest and IoT Manager Server OS Requirements	46
Guest and IoT Manager Outlook Add-in Client Requirements	47
Guest and IoT Manager Virtual Engine Requirements	47
Guest and IoT Manager Supported Browsers	47

24.07.11 Release Notes

ExtremeCloud IQ Site Engine includes all the features and functionality of Extreme Management Center as well as issues that have been resolved and configuration changes for this release.

If you are an existing Extreme Management Center customer, contact your representative to have your Extreme Management Center license migrated to an ExtremeCloud IQ Site Engine license. The ExtremeCloud IQ Site Engine license also includes licensing for ExtremeAnalytics.

IMPORTANT:

- For upgrade and installation requirements, as well as configuration considerations, see [ExtremeCloud IQ Site Engine Configuration and Requirements](#).
- ExtremeCloud IQ Site Engine version 24.07.11 consumes licenses from ExtremeCloud IQ in a connected deployment mode or from a license file in air gap deployment mode. ExtremeCloud IQ Site Engine is a subscription-based -only licensing model. Existing NMS licenses do not provide access to ExtremeCloud IQ Site Engine. You can view the status of your license by accessing [Administration > Licenses](#) after the installation is complete.
- ExtremeCloud IQ Site Engine is not compatible with an ExtremeCloud IQ Connect level account. You must use a commercial or trial subscription.
- ExtremeCloud IQ Site Engine is not compatible with ExtremeCloud IQ HIQ. You must use a standard VIQ or MSP account.
- For the information shared between ExtremeCloud IQ Site Engine and ExtremeCloud IQ, see [ExtremeCloud IQ Connection](#).

For information regarding the features supported by specific devices, see the [Firmware Support Matrix](#). Version 24.07.11 of ExtremeCloud IQ Site Engine supports the devices listed in the matrix.

Devices that do not have serial numbers or MAC addresses in Extreme Management Center must be rediscovered after you upgrade to ExtremeCloud IQ Site Engine before they can be onboarded to ExtremeCloud IQ.

Connected mode only - If your number of devices exceeds your licenses available, ExtremeCloud IQ Site Engine transitions to a license violation state and your access to ExtremeCloud IQ Site Engine is locked. To resolve the license shortage you need to access the Extreme Networks portal or ExtremeCloud IQ to evaluate the quantities of available Pilot and Navigator licenses versus the number of licenses required by ExtremeCloud IQ Site Engine.

Licensing Changes

Starting in ExtremeCloud IQ Site Engine version 23.2.10 each stack member consumes a license in connected mode. In connected mode, ExtremeCloud IQ Site Engine now reports stack members to ExtremeCloud IQ. If you use stacks in connected mode, ensure that enough ExtremeCloud IQ Pilot licenses are in the license pool before upgrading to ExtremeCloud IQ Site Engine 23.2.10 or later.

Beginning with ExtremeCloud IQ Site Engine version 21.4.10, your ExtremeAnalytics license is included as part of your ExtremeCloud IQ Pilot license. Separate licenses are no longer required.

For users upgrading from Extreme Management Center to ExtremeCloud IQ Site Engine, note that the XIQ-NAC subscription must be used instead of IA-ES- license. For new users that complete an initial install of ExtremeCloud IQ Site Engine, ExtremeControl licensing does not include end-system capabilities.

End of Software Maintenance

In ExtremeCloud IQ Site Engine version 24.7.10 and after, the following components and features are deprecated and removed:

- ExtremeCompliance, also known as Information Governance Engine
- Public Cloud Dashboard

The following components and features reached end-of-software-maintenance on 30th September 2023:

- Guest and IoT Manager - last version is 23.7.11.6
- Fabric Manager - last version is 22.9.13.5
- Posture Assessment (both the agent-based and agent-less)

The mobile application "ExtremeManagement ZTP+" will be removed from the Google Play store by August 27, 2024.

Onboarding ExtremeCloud IQ Site Engine to ExtremeCloud IQ in Connected Deployment Mode

After installing or upgrading to ExtremeCloud IQ Site Engine, you need to [onboard](#) ExtremeCloud IQ Site Engine to ExtremeCloud IQ. When the onboarding is complete, you can then access ExtremeCloud IQ Site Engine.

Entering your ExtremeCloud IQ name and password are required during the first-time login to ExtremeCloud IQ Site Engine.

NOTE:

If Extreme Management Center is onboarded to ExtremeCloud IQ, when you upgrade to ExtremeCloud IQ Site Engine, you need to remove Extreme Management Center from ExtremeCloud IQ before onboarding ExtremeCloud IQ Site Engine.

Enhancements

The following enhancements were made to ExtremeCloud IQ Site Engine in this release. For additional information about each of the enhancements listed in the release notes, see [ExtremeCloud IQ Site Engine Documentation](#).

ExtremeCloud IQ Site Engine

ExtremeCloud IQ Site Engine Enhancements

Added support for installing ExtremeCloud IQ Site Engine on Red Hat Enterprise Linux 9.4.

Added option to onboard ExtremeCloud IQ Site Engine to ExtremeCloud IQ with two factor authentication enabled. Requires a compatible version of ExtremeCloud IQ.

For troubleshooting purposes, added an option to disable connection to ExtremeCloud IQ during backup restore through CLI.

Tomcat updated to address CVE-2024-34750.

ExtremeManagement

ExtremeManagement Enhancements

Upgraded the version of Java included with ExtremeCloud IQ Site Engine to Corretto- 8.422*** .

Customer Found Defects and Known Issues

Customer Found Defects Addressed 24.07.11

ExtremeControl CFDs Addressed	ID
Addressed an issue where Access Control Engines did not use other LDAP servers for failover. When an LDAP server is down, the socket error will no longer appear while authenticating and failing over to backup LDAP servers.	02875292
ExtremeManagement CFDs Addressed	ID
Addressed an issue with high swap memory usage. Modified error handling to be more robust so waiting threads can run to completion when errors occur during scripts.	02858159
Addressed an issue with CLIRules script timeouts when a command prompted for additional password. Adjusted scripting engine to recognize the prompt for "password:" after already successfully authenticating to the device.	02876953
Addressed an issue with AirGap systems reaching out for internet-based endpoints. Snapd has now been removed and ubuntu daily update checking has been turned off in order to remove internet-based callouts on AirGap systems.	02918560
Addressed an issue with missing some WiNG OID in vendor profiles. Updated the WiNG OIDs to resolve device types for WiNG APs and controllers.	02948082

ExtremeManagement CFDs Addressed	ID
Addressed an issue where NBI createsite did not honor SiteConfig/EndpointLocation data. The NBI network mutation "createSite" now creates both site and location data.	02958069
Improved the Configuration Validation check. When we remove the VLANs from the device's configuration, we also remove any references in the port's VLAN configuration.	02986658
Addressed an issue where EXOS Onie Stacks and mixed stacks were not correctly identified as stacks for licensing purposes. This issue is now fixed and EXOS Onie Stacks and mixed stacks consume licenses based on the number of units in the stack.	02994004

Customer Found Defects Addressed 24.07.10

ExtremeCloud IQ Site Engine CFDs Addressed	ID
Addressed an issue where no data was displaying for Network/Dashboard/Impact Analysis/Show Historical Report for any doughnut widget after system upgrade. Restored the startup logic to ensure impact statistics and targets are created.	02763371

ExtremeAnalytics CFDs Addressed	ID
Addressed an issue of SFLOW not being part of the refresh/rediscover operations for each device action. Removing a device will now allow you to choose to keep the database information for the ability to add the device back in without losing all the data.	02829358

ExtremeControl CFDs Addressed	ID
Updated so launching WebView is now using port 8444 directly (not 8080 anymore).	02780828
Addressed an issue when the certificate of the captive portal was renewed, the new certificate was not used after an enforce (even with reconfigure captive portal checked).	02783075
Addressed an issue where Access Control was not flagged for Qualys QID 13162 when Force HTTPS is enabled in the captive portal.	02794569
Addressed an issue where If a RADIUS server was created in AAA with the IP address of your NAC appliance, NAC was using the retry and timeout value for RADIUS Accounting configuration on the switch.	02807327
Corrected the Clean Up Data menu option to be no longer available if you login with the end-system zone configured.	02809147
Corrected consumed memory on all devices that support the Host Resource MIB by adding all available memory reported before calculation.	02839515 02824878
Addressed an issue where some policy services were not specifying the proper network resource IP addresses during enforcement.	02869997
The default assessment warning rule will now be created if missing in NAC configuration rules.	02817761
The Enforce Preview will now display a new message to ignore the switch configuration when load balancer is enabled in Access Control.	02833209
Addressed an issue of TEAP authentication not functioning with 'Attribute to EAP Group Mappings' configured.	02837298
Corrected consumed memory on all devices that support the Host Resource MIB by adding all available memory reported before calculation.	02839515 02824878

ExtremeControl CFDs Addressed	ID
Addressed an issue where the Administration page in Access Control captive portal could not show any result due to unexpected configuration in AAA.	02842564
Added two new system properties that can be added in NSJBoss.properties to increase the socket timeout while enforcing NAC appliances that have slow web services connection. An ExtremeCloud IQ Site Engine restart is required. extreme.nac.webservice.connection.timeout=<milliseconds> extreme.nac.webservice.socket.timeout=<milliseconds>	02854052 02927461
Access Control no longer preserves the User-Name and User-Password radius attributes in any case.	02886365
The IPMI support utility is now included on supported hardware appliances.	02896396
Addressed an issue of duplication being allowed during creation of mappings.	02897562
Corrected a rendering issue with NAC configuration grids.	02904336
Addressed an issue where a duplicate engine ID alert could appear after reassigning the IP address of the switch and adding to the NAC.	02926383
Addressed an issue where RADIUS Accounting configuration on the switch was not configured correctly when RADIUS server in AAA was created with IP address of NAC appliance.	02930156
The Manage Custom Fields has been updated to clarify the custom fields usage in the captive portal.	02933004
Using %Tunnel-Private-Group-Id% radius attribute as nested variable is now supported.	02951907
Addressed the continuous error logging in tag.log during the validation of the username.	02961759

ExtremeManagement CFDs Addressed	ID
Updated CLIRules.xml for better prompt matching for Switch Engine to avoid false detects from 'show tech' output.	02732042 02799563
Addressed an issue of losing 'untag-port-default vlan enable' command from under the MLT interface after Enforce.	02742308
Addressed an issue where nstftpd, nspingd, and nssnmptd were not restarting if they were stopped by an external event.	02752016
Updated Axis2 API connections to now require HTTPS.	02773611
Addressed an issue where a LDAP login with a password including a euro sign was not working.	02781341
Addressed an issue where if an End-System Zone was configured, if an end-system was no longer present in ExtremeCloud IQ Site Engine, all the end-systems would re-authenticate after clicking the force reauthentication button in the End-System Details view.	02818354
Addressed an issue where creating scheduled task from clients in different time zone than the server caused inconsistent behavior. Users can now schedule tasks in their local time zone without experiencing inconsistencies.	02886002
Addressed an issue where if an end system and AP share the same hostname the AP Port View could generate an NPE. Fixed exceptions and allowed the search to return valid results.	02904454

ExtremeManagement CFDs Addressed	ID
Addressed an issue with frequent SBI exceptions in the log due to SNMP timeout.	
Quieted down some of the logging output related to SNMP timeouts when communicating with a device. SNMP timeouts are to be expected from time to time. Showing every exception occurring can be concerning for a customer, thinking that there is a larger problem at play.	02922127
Addressed an issue where ping only devices could cause the Flexview field to be disabled. The Flexview option can now show in the device tree when selecting a group of devices even if the group contains a ping only device.	02893994
Addressed an issue where Connect > Distributed IPS > Services was not correctly displaying the End-system group type column.	02940315
Addressed an issue with configure device errors when no ISIS source address is used. The logic to validate Enforce error for invalid 0.0.0.0 ISIS source address was enhanced.	02951715
Addressed an issue with S5 related traps. Added S5-CHASSIS-TRAB-MIB.mib to resolve V1 formats missing in events.	02954968
Removed potentially vulnerable package: libgnutls-openssl27	02955115
Addressed an issue where the ExtremeCloud IQ Site Engine server was generating a lot of errors in the server.log while processing a lot of notification actions and causing a CPU utilization spike.	02956611
Addressed an issue where the Site Analytics tab could show for unauthorized users.	02987014

Known Issues Addressed in 24.07.11

ExtremeCloud IQ Site Engine Issues Addressed

Addressed an issue with migrateFromVersion24_2.sh where the TFTP files destination directory incorrectly repeated the images subdirectory.

Addressed an issue with migration from 24.2 where file ownership did not handle permissions properly if the server was running as a non-root user.

Addressed issue when stopping the server through OS tools (systemctl, stopserver.sh, dnetconfig) did not stop all components properly.

Addressed an issue with Installation from ISO/DVD failing if DHCP was enabled on the network. This issue is now fixed and installation from ISO/DVD on supported hardware appliances does not fail if DHCP is enabled.

ExtremeControl Issues Addressed

Addressed a HTTP 404 issue with exporting end-system data when the username contains special characters.

Addressed a missing Intune Compliance Module in diagnostics. Intune Compliance Module debugging is now available in official diagnostics.

Known Issues Addressed in 24.07.10

ExtremeControl Issues Addressed

Force Captive Portal HTTPS is now enabled by default. Existing portals are not changed.

Addressed an issue where the new Access Control rule was always added to the first page.

Added an option for "Per-User ACL VOSS" into RADIUS Attribute Configuration > Substitutions dropdown .

Search in Groups (Control > Access Control > Group Editor) is now case insensitive. The search now finds values regardless of upper or lowercase.

In the Policy rule definition, the port range with a single value is now reported as an invalid range. If the classification for a single port is needed, do not use range option.

ExtremeManagement Issues Addressed

Addressed an issue where the FlexView Editor/MibTools could not start due to an unsigned Java package.

Addressed an issue where the name "Root" was displayed in the archive tree for devices with failed archives.

Adjusted the width of the Network > Devices > Site > Actions > Map Name dropdown to accommodate longer names.

Addressed issue where the ISIS link was not displayed in the map if the interface was part of both Home and Remote area.

Both web certificate and trust store are now part of the backup and restore processes.

The Service Name column is now hidden when configuring Services on EXOS/Switch Engine devices to remove the confusion. Service Name is not supported by the EXOS/Switch Engine, Service Name is supported by VOSS/Fabric Engine devices only.

Changed the wording of the Administration > Backup/Restore fields from "File Name" to "Backup Name" to remove confusion.

Also changed the wording of the Administration > Options > Database Backup View fields from "Backup File Location" to "Backup Location" and from "Backup File Path" to "Backup Path".

This to clarify the backup location is a path to a sub-directory containing the backup, not a single file name.

Addressed an issue where the Interface Summary Flexview > filter option showed a duplicate column.

Addressed an issue where the Site Summary > Edit tree did not fully load until it was expanded. The behavior of the edit button on the Site Summary tab has been corrected.

Addressed an issue where canceling the search on the Fabric Services Grid in the map with the selected service did not function as expected.

Addressed an issue where refreshing the map could lose or change the selected Services.

Addressed issue "DriverGetEntityException: Failed to collect time zone setting" when an ExtremeCloud IQ Controller is part of the managed devices

Added a Device Topology Change Trap Threshold to detect devices sending a high volume of traps. A high volume of traps can cause issues like high CPU, topology maps constantly reloading, etc.

Addressed an issue when ports with AutoSense enabled were not displayed as Fabric Attach ports on the map.

Addressed Vulnerabilities

This section presents the vulnerabilities reported by vulnerability scanners in previous versions. The following components received updates in 24.7 regardless of whether the vulnerability could have been exploited or not. If you need more information on vulnerability testing, see [Security and Vulnerability Testing](#).

24.07.11 Application Analytics Traffic Sensor images:

CVE-2015-20107, CVE-2018-1060, CVE-2018-1061, CVE-2018-14647, CVE-2018-20406, CVE-2018-20852, CVE-2019-10160, CVE-2019-16056, CVE-2019-16935, CVE-2019-17514, CVE-2019-18348, CVE-2019-20907, CVE-2019-5010, CVE-2019-9636, CVE-2019-9674, CVE-2019-9740, CVE-2019-9947, CVE-2019-9948, CVE-2020-14422, CVE-2020-26116, CVE-2020-27619, CVE-2020-8492, CVE-2021-29921, CVE-2021-3177, CVE-2021-3426, CVE-2021-3733, CVE-2021-3737, CVE-2021-4189, CVE-2022-0391, CVE-2022-38096, CVE-2022-42919, CVE-2022-45061, CVE-2022-48174, CVE-2022-48560, CVE-2022-48564, CVE-2022-48565, CVE-2022-48566, CVE-2023-24329, CVE-2023-40217, CVE-2023-41105, CVE-2023-42363, CVE-2023-42364, CVE-2023-42365, CVE-2023-42667, CVE-2023-49141, CVE-2023-52488, CVE-2023-52585, CVE-2023-52629, CVE-2023-52699, CVE-2023-52752, CVE-2023-52760, CVE-2023-52880, CVE-2023-52882, CVE-2023-6507, CVE-2023-6597, CVE-2024-0397, CVE-2024-0450, CVE-2024-0760, CVE-2024-1724, CVE-2024-1737, CVE-2024-1975, CVE-2024-23307, CVE-2024-24853, CVE-2024-24857, CVE-2024-24858, CVE-2024-24859, CVE-2024-24861, CVE-2024-24980, CVE-2024-2511, CVE-2024-25739, CVE-2024-25742, CVE-2024-25939, CVE-2024-26629, CVE-2024-26642, CVE-2024-26654, CVE-2024-26680, CVE-2024-26687, CVE-2024-26810, CVE-2024-26811, CVE-2024-26812, CVE-2024-26813, CVE-2024-26814, CVE-2024-26817, CVE-2024-26828, CVE-2024-26830, CVE-2024-26886, CVE-2024-26900, CVE-2024-26921, CVE-2024-26922, CVE-2024-26923, CVE-2024-26925, CVE-2024-26926, CVE-2024-26929, CVE-2024-26931, CVE-2024-26934, CVE-2024-26935, CVE-2024-26936, CVE-2024-26937, CVE-2024-26950, CVE-2024-26951, CVE-2024-26952, CVE-2024-26955, CVE-2024-26956, CVE-2024-26957, CVE-2024-26958, CVE-2024-26960, CVE-2024-26961, CVE-2024-26964, CVE-2024-26965, CVE-2024-26966, CVE-2024-26969, CVE-2024-26970, CVE-2024-26973, CVE-2024-26974, CVE-2024-26976, CVE-2024-26977, CVE-2024-26980, CVE-2024-26981, CVE-2024-26984, CVE-2024-26988, CVE-2024-26989, CVE-2024-26993, CVE-2024-26994, CVE-2024-26996, CVE-2024-26999, CVE-2024-27000, CVE-2024-27001, CVE-2024-27004, CVE-2024-27008, CVE-2024-27009, CVE-2024-27013, CVE-2024-27015, CVE-2024-27016, CVE-2024-27017, CVE-2024-27018, CVE-2024-27019, CVE-2024-27020, CVE-2024-27059, CVE-2024-27393, CVE-2024-27395, CVE-2024-27396, CVE-2024-27398, CVE-2024-27399, CVE-2024-27401, CVE-2024-27437, CVE-2024-29068, CVE-2024-29069, CVE-2024-35785, CVE-2024-35789, CVE-2024-35791, CVE-2024-35796, CVE-2024-35804, CVE-2024-35805, CVE-2024-35806, CVE-2024-35807, CVE-2024-35809, CVE-2024-35813, CVE-2024-35815, CVE-2024-35817, CVE-2024-35819, CVE-2024-35821, CVE-2024-35822, CVE-2024-35823, CVE-2024-35825, CVE-2024-35847, CVE-2024-35848, CVE-2024-35849, CVE-2024-35851, CVE-2024-

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24.07.11 ExtremeAnalytics images:

CVE-2015-20107, CVE-2018-1060, CVE-2018-1061, CVE-2018-14647, CVE-2018-20406, CVE-2018-20852, CVE-2019-10160, CVE-2019-16056, CVE-2019-16935, CVE-2019-17514, CVE-2019-18348, CVE-2019-20907, CVE-2019-5010, CVE-2019-9636, CVE-2019-9674, CVE-2019-9740, CVE-2019-9947, CVE-2019-9948, CVE-2020-14422, CVE-2020-26116, CVE-2020-27619, CVE-2020-8492, CVE-2021-29921, CVE-2021-3177, CVE-2021-3426, CVE-2021-3733, CVE-2021-3737, CVE-2021-4189, CVE-2022-0391, CVE-2022-38096, CVE-2022-42919, CVE-2022-45061, CVE-2022-48174, CVE-2022-48560, CVE-2022-48564, CVE-2022-48565, CVE-2022-48566, CVE-2023-24329, CVE-2023-40217, CVE-2023-41105, CVE-2023-42363, CVE-2023-42364, CVE-2023-42365, CVE-2023-42667, CVE-2023-49141, CVE-2023-52488, CVE-2023-52585, CVE-2023-52629, CVE-2023-52699, CVE-2023-52752, CVE-2023-52760, CVE-2023-52880, CVE-2023-52882, CVE-2023-6507, CVE-2023-6597, CVE-2024-0397, CVE-2024-0450, CVE-2024-0760, CVE-2024-1724, CVE-2024-1737, CVE-2024-1975, CVE-2024-23307, CVE-2024-24853, CVE-2024-24857, CVE-2024-24858, CVE-2024-24859, CVE-2024-24861, CVE-2024-24980, CVE-2024-2511, CVE-2024-25739, CVE-2024-25742, CVE-2024-25939, CVE-2024-26629, CVE-2024-26642, CVE-2024-26654, CVE-2024-26680, CVE-2024-26687, CVE-2024-26810, CVE-2024-26811, CVE-2024-26812, CVE-2024-26813, CVE-2024-26814, CVE-2024-26817, CVE-2024-26828, CVE-2024-26830, CVE-2024-26886, CVE-2024-26900, CVE-2024-26921, CVE-2024-26922, CVE-2024-26923, CVE-2024-26925, CVE-2024-26926, CVE-2024-26929, CVE-2024-26931, CVE-2024-26934, CVE-2024-26935, CVE-2024-26936, CVE-2024-26937, CVE-2024-

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24.07.11 ExtremeControl images:

CVE-2015-20107, CVE-2018-1060, CVE-2018-1061, CVE-2018-14647, CVE-2018-20406, CVE-2018-20852, CVE-2019-10160, CVE-2019-16056, CVE-2019-16935, CVE-2019-17514, CVE-2019-18348, CVE-2019-20907, CVE-2019-5010, CVE-2019-9636, CVE-2019-9674, CVE-2019-9740, CVE-2019-9947, CVE-2019-9948, CVE-2020-14422, CVE-2020-26116, CVE-2020-27619, CVE-2020-8492, CVE-2021-29921, CVE-2021-3177, CVE-2021-3426, CVE-2021-3733, CVE-2021-3737,

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24.07.11 ExtremeCloud IQ Site Engine images:

CVE-2015-20107, CVE-2018-1060, CVE-2018-1061, CVE-2018-14647, CVE-2018-20406, CVE-2018-20852, CVE-2019-10160, CVE-2019-16056, CVE-2019-16935, CVE-2019-17514, CVE-2019-18348, CVE-2019-20907, CVE-2019-5010, CVE-2019-9636, CVE-2019-9674, CVE-2019-9740, CVE-2019-9947, CVE-2019-9948, CVE-2020-14422, CVE-2020-26116, CVE-2020-27619, CVE-2020-8492, CVE-2021-29921, CVE-2021-3177, CVE-2021-3426, CVE-2021-3733, CVE-2021-3737, CVE-2021-4189, CVE-2022-0391, CVE-2022-38096, CVE-2022-42919, CVE-2022-45061, CVE-2022-48174, CVE-2022-48560, CVE-2022-48564, CVE-2022-48565, CVE-2022-48566, CVE-2023-24329, CVE-2023-40217, CVE-2023-41105, CVE-2023-42363, CVE-2023-42364, CVE-2023-42365, CVE-2023-42667, CVE-2023-49141, CVE-2023-52488, CVE-2023-52585, CVE-2023-52629, CVE-2023-52699, CVE-2023-52752, CVE-2023-52760, CVE-2023-52880, CVE-2023-52882, CVE-2023-6507, CVE-2023-6597, CVE-2024-0397, CVE-2024-0450, CVE-2024-0760, CVE-2024-1724, CVE-2024-1737, CVE-2024-1975, CVE-2024-23307, CVE-2024-24853, CVE-2024-24857, CVE-2024-24858, CVE-2024-24859, CVE-2024-24861, CVE-2024-24980, CVE-2024-2511, CVE-2024-25739, CVE-2024-25742, CVE-2024-25939, CVE-2024-26629, CVE-2024-26642, CVE-2024-26654, CVE-2024-26680, CVE-2024-26687, CVE-2024-26810, CVE-2024-26811, CVE-2024-26812, CVE-2024-26813, CVE-2024-26814, CVE-2024-26817, CVE-2024-26828, CVE-2024-26830, CVE-2024-26886, CVE-2024-26900, CVE-2024-26921, CVE-2024-26922, CVE-2024-26923, CVE-2024-26925, CVE-2024-26926, CVE-2024-26929, CVE-2024-26931, CVE-2024-26934, CVE-2024-26935, CVE-2024-26936, CVE-2024-26937, CVE-2024-26950, CVE-2024-26951, CVE-2024-26952, CVE-2024-26955, CVE-2024-26956, CVE-2024-26957, CVE-2024-26958, CVE-2024-26960, CVE-2024-26961, CVE-2024-26964, CVE-2024-26965, CVE-2024-26966, CVE-2024-26969, CVE-2024-26970, CVE-2024-26973, CVE-2024-26974, CVE-2024-26976, CVE-2024-26977, CVE-2024-26980, CVE-2024-26981, CVE-2024-26984, CVE-2024-26988, CVE-2024-26989, CVE-2024-26993, CVE-2024-26994, CVE-2024-26996, CVE-2024-26999, CVE-2024-27000, CVE-2024-27001, CVE-2024-27004, CVE-2024-27008, CVE-2024-27009, CVE-2024-27013, CVE-2024-27015, CVE-2024-27016, CVE-2024-27017, CVE-2024-27018, CVE-2024-27019, CVE-2024-27020, CVE-2024-27059, CVE-2024-27393, CVE-2024-27395, CVE-2024-27396, CVE-2024-27398, CVE-2024-27399, CVE-2024-27401, CVE-2024-27437, CVE-2024-29068, CVE-2024-29069, CVE-2024-35785, CVE-2024-35789, CVE-2024-35791, CVE-2024-35796, CVE-2024-35804, CVE-2024-35805, CVE-2024-35806, CVE-2024-35807, CVE-2024-35809, CVE-2024-35813, CVE-2024-35815, CVE-2024-35817, CVE-2024-35819, CVE-2024-35821, CVE-2024-35822, CVE-2024-35823, CVE-2024-35825, CVE-2024-35847, CVE-2024-35848, CVE-2024-35849, CVE-2024-35851, CVE-2024-35852, CVE-2024-35853, CVE-2024-35854, CVE-2024-35855, CVE-2024-35857, CVE-2024-35871, CVE-2024-35872, CVE-2024-35877, CVE-2024-35879, CVE-2024-35884, CVE-2024-35885, CVE-2024-35886, CVE-2024-35888, CVE-2024-35890, CVE-2024-35893, CVE-2024-35895, CVE-2024-35896, CVE-2024-35897, CVE-2024-35898, CVE-2024-35899, CVE-2024-

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24.07.10 Application Analytics Traffic Sensor images:

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24.07.10 ExtremeCloud IQ Site Engine images:

CVE-2016-9840, CVE-2016-9841, CVE-2018-25032, CVE-2019-8842, CVE-2019-9511, CVE-2019-9513, CVE-2020-10001, CVE-2021-4217, CVE-2022-0529, CVE-2022-0530, CVE-2022-26691, CVE-2022-3715, CVE-2022-37434, CVE-2022-40735, CVE-2022-40897, CVE-2022-48624, CVE-2022-4968, CVE-2023-1999, CVE-2023-22655, CVE-2023-22745, CVE-2023-24023, CVE-2023-28746, CVE-2023-3164, CVE-2023-32324, CVE-2023-32360, CVE-2023-34241, CVE-2023-38575, CVE-2023-39368, CVE-2023-43490, CVE-2023-4421, CVE-2023-44487, CVE-2023-4504, CVE-2023-45733, CVE-2023-45745, CVE-2023-46103, CVE-2023-47233, CVE-2023-47855, CVE-2023-4863, CVE-2023-50782, CVE-2023-52425, CVE-2023-52434, CVE-2023-52435, CVE-2023-52447, CVE-2023-52486, CVE-2023-52489, CVE-2023-52491, CVE-2023-52492, CVE-2023-52493, CVE-2023-52494, CVE-2023-52497, CVE-2023-52498, CVE-2023-52530, CVE-2023-52583, CVE-2023-52587, CVE-2023-52588, CVE-2023-52594, CVE-2023-52595, CVE-2023-52597, CVE-2023-52598, CVE-2023-52599, CVE-2023-52600, CVE-2023-52601, CVE-2023-52602, CVE-2023-52603, CVE-2023-52604, CVE-2023-52606, CVE-2023-52607, CVE-2023-52608, CVE-2023-52614, CVE-2023-52615, CVE-2023-52616, CVE-2023-52617, CVE-2023-52618, CVE-2023-52619, CVE-2023-52620, CVE-2023-52622, CVE-2023-52623, CVE-2023-52627, CVE-2023-52631, CVE-2023-52633, CVE-2023-52635, CVE-2023-52637, CVE-2023-52638, CVE-2023-52640, CVE-2023-52641, CVE-2023-52642, CVE-2023-52643, CVE-2023-52644, CVE-2023-52645, CVE-2023-52650, CVE-2023-52652, CVE-2023-52656, CVE-2023-52662, CVE-2023-5388, CVE-2023-6135, CVE-2023-6270, CVE-2023-7042, CVE-2024-0841, CVE-2024-1013, CVE-2024-1151, CVE-2024-20994, CVE-2024-20998, CVE-2024-21000, CVE-2024-21008, CVE-2024-21009, CVE-2024-21013, CVE-2024-21047, CVE-2024-21054, CVE-2024-21060, CVE-2024-21062, CVE-2024-21069, CVE-2024-21087, CVE-2024-21096, CVE-2024-21102, CVE-2024-21823, CVE-2024-2201, CVE-2024-22099, CVE-2024-23849, CVE-2024-24806, CVE-2024-25062, CVE-2024-26130, CVE-2024-26256, CVE-2024-26581, CVE-2024-26583, CVE-2024-26584, CVE-2024-26585, CVE-2024-26592, CVE-2024-26593, CVE-2024-26594, CVE-2024-26600, CVE-2024-26601, CVE-2024-26602, CVE-2024-26603, CVE-2024-26606, CVE-2024-26608, CVE-2024-26610, CVE-2024-26614, CVE-2024-26615, CVE-2024-26622, CVE-2024-26625, CVE-2024-26627, CVE-2024-26635, CVE-2024-26636, CVE-2024-26640, CVE-2024-26641, CVE-2024-26644, CVE-2024-26645, CVE-2024-26651, CVE-2024-26659, CVE-2024-26660, CVE-2024-26663, CVE-2024-26664, CVE-2024-26665, CVE-2024-26668, CVE-2024-26671, CVE-2024-26673, CVE-2024-26675, CVE-2024-26676, CVE-2024-26679, CVE-2024-26684, CVE-2024-26685, CVE-2024-26688, CVE-2024-26689, CVE-2024-26695, CVE-2024-26696, CVE-2024-26697, CVE-2024-26698, CVE-2024-26702, CVE-2024-26704, CVE-2024-26707, CVE-2024-26712, CVE-2024-26715, CVE-2024-26717, CVE-2024-26720, CVE-2024-26722, CVE-2024-26733, CVE-2024-26735, CVE-2024-26736, CVE-2024-26737, CVE-2024-26743, CVE-2024-26744, CVE-2024-26747, CVE-2024-26748, CVE-2024-26749, CVE-2024-26750, CVE-2024-26751, CVE-2024-26752, CVE-2024-26754, CVE-2024-26763, CVE-2024-26764, CVE-2024-26766, CVE-2024-26769, CVE-2024-26771, CVE-2024-26772, CVE-2024-26773, CVE-2024-26774, CVE-2024-26776, CVE-2024-26777, CVE-2024-26778, CVE-2024-26779, CVE-2024-26782, CVE-2024-26787, CVE-2024-26788, CVE-2024-26790, CVE-2024-26791, CVE-2024-26792, CVE-2024-26793, CVE-2024-26795, CVE-2024-26798, CVE-2024-26801, CVE-2024-26802, CVE-2024-26803, CVE-2024-26804, CVE-2024-26805, CVE-2024-26808, CVE-2024-26809, CVE-2024-26816, CVE-2024-26820, CVE-2024-26825, CVE-2024-26826, CVE-2024-26829, CVE-2024-26833, CVE-

2024-26835, CVE-2024-26838, CVE-2024-26839, CVE-2024-26840, CVE-2024-26843, CVE-2024-26845, CVE-2024-26846, CVE-2024-26851, CVE-2024-26852, CVE-2024-26855, CVE-2024-26856, CVE-2024-26857, CVE-2024-26859, CVE-2024-26861, CVE-2024-26862, CVE-2024-26863, CVE-2024-26870, CVE-2024-26872, CVE-2024-26874, CVE-2024-26875, CVE-2024-26877, CVE-2024-26878, CVE-2024-26879, CVE-2024-26880, CVE-2024-26881, CVE-2024-26882, CVE-2024-26883, CVE-2024-26884, CVE-2024-26885, CVE-2024-26889, CVE-2024-26891, CVE-2024-26894, CVE-2024-26895, CVE-2024-26897, CVE-2024-26898, CVE-2024-26901, CVE-2024-26903, CVE-2024-26906, CVE-2024-26907, CVE-2024-26910, CVE-2024-26915, CVE-2024-26916, CVE-2024-26920, CVE-2024-27024, CVE-2024-27028, CVE-2024-27030, CVE-2024-27034, CVE-2024-27037, CVE-2024-27038, CVE-2024-27039, CVE-2024-27043, CVE-2024-27044, CVE-2024-27045, CVE-2024-27046, CVE-2024-27047, CVE-2024-27051, CVE-2024-27052, CVE-2024-27053, CVE-2024-27054, CVE-2024-27065, CVE-2024-27073, CVE-2024-27074, CVE-2024-27075, CVE-2024-27076, CVE-2024-27077, CVE-2024-27078, CVE-2024-27388, CVE-2024-27390, CVE-2024-27403, CVE-2024-27405, CVE-2024-27410, CVE-2024-27412, CVE-2024-27413, CVE-2024-27414, CVE-2024-27415, CVE-2024-27416, CVE-2024-27417, CVE-2024-27419, CVE-2024-27431, CVE-2024-27432, CVE-2024-27436, CVE-2024-28085, CVE-2024-28182, CVE-2024-28757, CVE-2024-28834, CVE-2024-28835, CVE-2024-29040, CVE-2024-2961, CVE-2024-32002, CVE-2024-32004, CVE-2024-32020, CVE-2024-32021, CVE-2024-32465, CVE-2024-32487, CVE-2024-33599, CVE-2024-33600, CVE-2024-33601, CVE-2024-33602, CVE-2024-34064, CVE-2024-34397, CVE-2024-35235, CVE-2024-35811, CVE-2024-35828, CVE-2024-35829, CVE-2024-35830, CVE-2024-35844, CVE-2024-35845, CVE-2024-3651, CVE-2024-38428, CVE-2024-6387

Installation, Upgrade, and Configuration Changes

Installation Information

There are three tiers of licenses for ExtremeCloud IQ Site Engine and devices:

- Pilot
- Navigator
- No License

As you begin to onboard ExtremeCloud IQ Site Engine and your devices, ExtremeCloud IQ will determine if you meet or exceed the license limits for each license type.

For complete installation instructions, see [ExtremeCloud IQ Site Engine Suite Installation](#).

Upgrading Without an Internet Connection

If your Linux system requires an operating system upgrade, you are prompted to upgrade using either an internet connection or locally (without an internet connection) if no additional Ubuntu packages need to be installed.

!!! ATTENTION !!!

We can attempt to upgrade the OS without using the internet if there were no

extra Ubuntu packages installed. If there were extraneous packages installed, the upgrade will fail with this method.

Do you want to attempt a local in-place upgrade of the OS and reboot when complete? (Y/n)

Custom FlexViews

When reinstalling ExtremeCloud IQ Site Engine Console, the installation program saves copies of any FlexViews you created or modified in the `<install directory>\.installer\backup\current\appdata\System\FlexViews` folder.

If you are deploying FlexViews via the ExtremeCloud IQ Site Engine server, save them in the `appdata\VendorProfiles\Stage\MyVendorProfile\FlexViews\My FlexViews` folder.

Custom MIBs and Images

If you are deploying MIBs via the ExtremeCloud IQ Site Engine server, they are saved in the `appdata\VendorProfiles\Stage\MyVendorProfile\MIBs\` folder.

If you are deploying device images (pictures) via the ExtremeCloud IQ Site Engine server, they are saved in the `appdata\VendorProfiles\Stage\MyVendorProfile\Images\` folder.

Important Upgrade Information

A special [Data Migration Procedure](#) is required to upgrade ExtremeCloud IQ Site Engine from versions older than 24.7. The minimum version to upgrade Analytics Engines and Access Control Engines is 24.2.13.

NOTE:

ExtremeCloud IQ Site Engine Version 24.07.11 contains an OS upgrade. Internet connectivity is required to download custom packages.

The installer prompts "Do you want to use the Internet to perform the OS upgrade?". The offline upgrade path is supported when no custom packages are installed (answer N). The online upgrade is required when custom packages are manually installed (answer Y). An online upgrade is recommended when an online upgrade was used previously, however there is a risk of session timeout due to 15 minutes of screen inactivity.

To upgrade Access Control Engines and Application Analytics Engines you can use the directive `--keepalive` to decrease the chance of a session expiry timeout from 15 minutes of no screen activity.

From Version (currently running)	To Version (next step in upgrade path)
ExtremeCloud IQ Site Engine 24.7	ExtremeCloud IQ Site Engine 24.7.11
ExtremeCloud IQ Site Engine 24.2.x	Fresh installation of ExtremeCloud IQ Site Engine 24.7 and follow the Data Migration Procedure
Application Analytics Engine, Access Control Engine 24.2.15	Application Analytics Engine, Access Control Engine 24.7
ExtremeCloud IQ Site Engine 23.4.12, 23.7.x, 23.11.x, 24.2.x	ExtremeCloud IQ Site Engine 24.2.15
ExtremeCloud IQ Site Engine 21.x, 22.x, 23.2.x 23.4.10, 23.4.11	ExtremeCloud IQ Site Engine 23.4.12
Extreme Management Center version 8.5.7	ExtremeCloud IQ Site Engine 24.2.15
Extreme Management Center version 8.2.x to 8.5.6	Extreme Management Center 8.5.7
Extreme Management Center version 8.0.x to 8.1.x	Extreme Management Center 8.3.3.11
NetSight version 7.1.4.1	Extreme Management Center 8.3.3.11
NetSight version 7.x	NetSight 7.1.4.1
NetSight version 6.3.0.186	NetSight 7.1.4.1
NetSight version 6.x	NetSight 6.3.0.186

IMPORTANT:

A backup (**Administration > [Backup/Restore](#)**) of the database must be performed prior to the upgrade and saved to a safe location.

If you use LDAPS with a Fully Qualified Domain Name (FQDN) in the URL to authorize a user to the OneView, then ExtremeCloud IQ Site Engine presents the Server Certificate (located in Administration > Certificates > Server Certificate Information) to the LDAPS server. If the LDAPS server presents a certificate that does not match the LDAPS URL, then the certificate is rejected with the error “Certificate Unknown”.

The best practice is to use a trusted certificate if the LDAPS URL is defined with FQDN, otherwise the LDAPS server might not accept the LDAPS connection. The alternative option is to use an IP address in the LDAPS URL instead of FQDN.

Important Upgrade Considerations

- If your network is using ExtremeAnalytics or ExtremeControl engines, or another add-on feature, you must first perform the ExtremeCloud IQ Site Engine upgrade to version 24.07.11 and then upgrade the feature.
- To upgrade Traffic Sensor from version 21.x, a fresh installation is recommended. If the fresh installation cannot be used, then please check [Knowledge Base](#) for a special procedure.
- If the online upgrade fails due to an Internet connectivity issue, fix the connectivity issue and rerun the upgrade.

IMPORTANT:

When performing an upgrade, be sure to back up the database prior to performing the upgrade, and save it to a safe location. Use the **Administration > Backup/Restore** tab to perform the backup.

- When upgrading the ExtremeCloud IQ Site Engine server, ExtremeAnalyticsengine, or ExtremeControlengine to version 24.07.11, ensure the DNS server IP address is correctly configured.
- When upgrading to ExtremeCloud IQ Site Engine version 24.07.11, if you adjusted the ExtremeCloud IQ Site Engine memory settings and want them to be saved on upgrade, a flag (`-DcustomMemory`) needs to be added to the `/usr/local/Extreme_Networks/NetSight/services/nserver.cfg` file.

For example:

```
-Xms12g -Xmx24g -XX:HeapDumpPath=../../nsdump.hprof -
XX:+HeapDumpOnOutOfMemoryError -XX:MetaspaceSize=128m -DcustomMemory
```

License Renewal

Upgrading to ExtremeCloud IQ Site Engine version 24.07.11 requires you to transition from perpetual to subscription-based license model. Existing NMS licenses do not provide access to ExtremeCloud IQ Site Engine. If your perpetual licenses were not transitioned to subscription-based licenses, contact your Extreme Networks Representative for assistance.

Free Space Consideration

When upgrading to ExtremeCloud IQ Site Engine version 24.07.11, a minimum of 15 GB of free disk space is required on the ExtremeCloud IQ Site Engine server

To increase the amount of free disk space on the ExtremeCloud IQ Site Engine server, perform the following:

- Decrease the number of ExtremeCloud IQ Site Engine backups (by default, saved in the `/usr/local/Extreme_Networks/NetSight/backup` directory).
- Decrease the Data Persistence settings (**Administration > Options > Access Control > Data Persistence**).
- Remove unnecessary archives (**Network > Archives**).
- Delete the files in the `<installation_directory>/NetSight/.installer` directory.

Site Discover Consideration

Discovering devices via the **Site** tab using a **Range**, **Subnet**, or **Seed** discover might not successfully add all expected devices. To correct the issue, increase the **Length of SNMP Timeout** value on the **Administration > Options > Site** tab in the Discover First SNMP Request section.

ExtremeAnalytics Upgrade Information

Enabling or disabling the disk flow export feature might cause enforce operations to time out. Enforcing again resolves the issue.

When you delete an ExtremeXOS/Switch Engine device that is configured as a flow source via the Flow Sources table of the **Analytics > Configuration > Engines > Configuration** tab from the Devices list on the **Network > Devices** tab, an error message is generated in the `server.log`. The message does not warn you that the device is in use as a flow source. Adding the device back in the Devices list on the **Network > Devices** tab or removing the device from the Flow Source table fixes the issue.

The Flow Sources table on the **Analytics > Configuration > engine > Configuration** tab may take a few minutes to load.

ExtremeControl Version 8.0 and later

Beginning in version 8.0, ExtremeControl may fail to join Active Directory when accessing as a **Standard Domain User with Descendant Computer Objects ("Reset password" permissions only)** group member.

To allow this functionality, add the following permissions:

- **Reset Password**
- **Validated write to DNS host name**
- **Validated write to service principal**

- Read and write account restrictions
- Read and write DNS host name attributes
- Write servicePrincipalName

Other Upgrade Information

Immediately after you install version 24.07.11 on the ExtremeControlengine, the date and time does not properly synchronize and the following error message displays:

```
WARNING: Unable to synchronize to a NTP server. The time might not be
correctly set on this device.
```

Ignore the error message and the date and time automatically synchronize after a short delay.

Additionally, the following message might display during the ExtremeControl upgrade to version 24.07.11:

No domain specified

To stop domain-specific winbindd process, run `/etc/init.d/winbindd stop {example-domain.com}`

Upgrading ExtremeControl Engine to Version 24.07.11

General Upgrade Information

The EAP-TLS Certificates with SHA1 are considered weak and are not accepted anymore. The radius server fails to start with the SHA1 certificate. You can use a more secure certificate, such as SHA256.

You are not required to upgrade your ExtremeControl engine version to 24.07.11 when upgrading to ExtremeCloud IQ Site Engine version 24.07.11. However, both ExtremeCloud IQ Site Engine and ExtremeControl engine must be at version 24.07.11 in order to take advantage of the new ExtremeControl version 24.07.11 features. ExtremeCloud IQ Site Engine version 24.07.11 supports managing ExtremeControl engine versions 8.5.7, 21.x, 22.x, 23.x and up to 24.07.11.

In addition, if your ExtremeControl solution utilizes a Nessus assessment server, you should also upgrade your assessment agent adapter to version 24.07.11 if you upgrade to ExtremeControl version 24.07.11.

You can download the latest ExtremeControl engine version at the [Extreme Portal](#).

Agent Version for NAC Agent-Based Assessment - Legacy

If you are using onboard agent-based assessment, be aware that the agent version is upgraded during the ExtremeControl engine software upgrade. If you would like end-systems to update their agent to the new version, you must configure your assessment test set to test for the new agent version. Refer to the [Important Upgrade Information](#) section in the [ExtremeCloud IQ Site Engine Release Notes](#) or the agent version included in the ExtremeControlengine software.

LDAPS servers with FQDN

If the LDAPS server URL uses a Fully Qualified Domain Name (FQDN), then the LDAPS client of Access Control Engine presents the internal Communication Certificate to the LDAPS server. If the LDAPS server URL uses a FQDN then the LDAPS client of ExtremeCloud IQ Site Engine presents the Server Certificate (located in Administration > Certificates > Server Certificate Information) to the LDAPS server. If the LDAPS server presents a certificate that does not match the LDAPS URL, then the certificate is rejected with the error "Certificate Unknown"

The best practice is to use trusted certificates if the LDAPS URL is defined with FQDN, otherwise the LDAPS server might not accept the LDAPS connection. If the LDAPS server URL uses an IP address then the LDAPS client (of both Access Control Engine and ExtremeCloud IQ Site Engine) does not present the Certificate to the LDAPS server.

Upgrading to Policy Manager 24.07.11

- Policy Manager 24.07.11 only supports ExtremeWireless Controller version 10.51. If you upgrade to ExtremeCloud IQ Site Engine 24.07.11 prior to upgrading your controllers, then Policy Manager does not allow you to open a domain where the controllers already exist or add them to a domain. A dialog is displayed indicating your controllers do not meet minimum version requirements and that they must be upgraded before they can be in a domain.
- Following an upgrade to Wireless Controller version 8.31 and higher, a Policy Manager enforce fails if it includes changes to the default access control or any rules that are set to contain. To allow Policy Manager to modify the default access control or set rules to contain, you must disable the **"Allow" action in policy rules contains to the VLAN assigned by the role** checkbox accessed from the Wireless Controller's web interface on the Roles > **Policy Rules** tab. This will allow the enforce operation to succeed.

Fabric Configuration Information

Certificate

Fabric Manager might be unavailable via ExtremeCloud IQ Site Engine after upgrading if the certificate is missing in ExtremeCloud IQ Site Engine Trust store.

To ensure Fabric Manager is available, enter the Fabric Manager certificate in the ExtremeCloud IQ Site Engine Trust store using **Generate Certificate** option. See [Add Fabric Manager Certificate](#) for the certificate procedure.

Authentication Key

When you provision authentication keys for Fabric Attach, the key cannot be read back for security reasons. When the key is read from the device, it always shows "*****". For this reason, it might seem that there is a configuration mismatch when one does not exist.

Service Configuration Change

If you change a configured service via the **Configure Device** window that references one of the following, and then enforce those changes to the device, the configuration on the device might change unexpectedly:

- MLT
- SMLT
- Port-specific settings to a port belonging to an MLT or SMLT

To prevent this merge, change rows in the **Enforce Preview** window where MLT or SMLT are in use from **Current** to **Desired**.

To correct the issue after enforcement, modify the service on the device via the CLI.

CLIP Addresses

Using the CLIP Addresses table in the Configure Device window, you can enter addresses in both IPv4 and IPv6 formats. However, ExtremeCloud IQ Site Engine version 24.07.11 only supports applying a single address (either IPv4 or IPv6) to a Loopback Interface.

Gateway Address Configuration Change

In versions of ExtremeCloud IQ Site Engine prior to 24.07.11, the Default Gateway IP Address is configured as part of the VLAN. In 24.07.11, the Default Gateway IP Address is configured as part of the VRF.

When enforcing VRFs to a device after upgrading to version 24.07.11, merge any **Default Gateway IP Addresses** from the device into the configuration of ExtremeCloud IQ Site Engine to prevent incorrect configuration of the device.

Upgrading VSP-8600

When upgrading from Extreme Management Center version 8.2 to version 8.3, manually reload previously discovered VSP-8600 devices to gain access to Fabric Connect features.

Removing Fabric Connect Configuration

Removing a device's Fabric Connect configuration by setting the **Topology Definition** to **<None>** may fail if the device has Logical Interfaces assigned to ISIS.

Password Configuration

Fabric Manager fails to onboard in ExtremeCloud IQ Site Engine if the root password includes an ampersand (&) character. Additionally, if the Administration > Inventory Manager > SCP tab contains a password that includes an ampersand (&) in ExtremeCloud IQ Site Engine, the Fabric Manager firmware does not download successfully.

Ensure you use a password without an ampersand (&) character.

VRF Configuration

VOSS/Fabric Engine SNMP performance is adversely affected as the number of VRF configurations increases. This issue can be resolved by upgrading to VOSS/Fabric Engine release 8.1.1 or later or VSP-8600 series version 6.3.3 or later.

Device Configuration Information

VDX Device Configuration

To properly discover interfaces and links for VDX devices in ExtremeCloud IQ Site Engine, enable `three-tuple-if` on the device.

To enable `three-tuple-if` on the device in ExtremeCloud IQ Site Engine:

NOTE:

1. Access the **Network > Devices** tab.
 2. Right-click on the device in the Devices table.
 3. Select **Tasks > Config > VDX Config Basic Support**.
-

Additionally, for ExtremeCloud IQ Site Engine to display VCS fabric , the NOS version must be 7.2.0a or later.

Rediscover VDX devices after upgrading to ExtremeCloud IQ Site Engine.

VOSS/Fabric Engine Device Configuration

Topology links from VOSS/Fabric Engine devices to other VOSS/Fabric Engine or ERS devices might not display in a topology map (or might display inconsistently). To ensure topology map links display correctly, verify that the VOSS/Fabric Engine device is configured to publish its management IP address in the autotopology (SONMP) data.

Ensure that the output of `show sys setting` command shows:

```
autotopology : on
ForceTopologyIpFlag : true
clipId-topology-ip : 0
```

If the output values displayed are different, configure the VOSS/Fabric Engine device to publish management IP address in SONMP data by executing the following CLI commands:

```
(config)# autotopology
(config)# sys force-topology-ip-flag enable
(config)# default sys clipId-topology-ip
```

The **Status** of LAG links in maps will start working after the next polling following an upgrade to ExtremeCloud IQ Site Engine. You can initiate the polling of a device by performing a refresh/rediscovery of the device.

ERS Device Configuration

ERS devices might automatically change VLAN configurations you define in ExtremeCloud IQ Site Engine. To disable this, change the `vlan configcontrol` setting for ERS devices you add to ExtremeCloud IQ Site Engine by entering the following in the device command line:

```
CLI commands
enable
config term
vlan configcontrol flexible
```

Additionally, configure all VLANs on the port for an ERS device with the same tag status (tagged or untagged). If enforcing to an ERS device on which a port has at least one VLAN as tagged, ExtremeCloud IQ Site Engine adds all untagged VLANs to the tagged VLAN list and clears the untagged VLAN list.

Creating an archive for ERS devices using the **Network > Archives** tab does not complete successfully if Menu mode (cmd-interface menu) is used instead of CLI mode (cmd-interface cli). See [How To Set Default Management Interface To Either Menu or CLI Mode](#) to create the archive.

SLX Device Configuration

When creating a ZTP+ Configuration for an SLX 9240 on which firmware version 18s.01.01 or 18s.01.02 is installed, the ZTP+ process fails if the **Administration Profile** value uses SSH or Telnet CLI credentials. ExtremeCloud IQ Site Engine indicates that the SSH or CLI profile is not supported by the device.

To create a ZTP+ configuration for an SLX 9240:

1. Create a new Device Profile with the **CLI Credential** set to **< No Access >**.

NOTE: The SLX ZTP+ Connector does NOT support configuring CLI credentials on the device.

2. Create the ZTP+ Configuration and select the new **Device Profile** you created in Step 1 as the **Administration Profile**.
3. After the ZTP+ process successfully completes and the device is added to ExtremeCloud IQ Site Engine, select a **Device Profile** that uses the correct CLI credentials for the SLX device in the **Administration Profile**.

ExtremeXOS Device Configuration

ExtremeXOS/Switch Engine devices on which firmware version 30.3.1.6 is installed do not download and install new firmware versions successfully via the ZTP+ process. To correct the issue, access the **Network > Firmware** tab in ExtremeCloud IQ Site Engine, select the ExtremeXOS device you are updating via ZTP+, and change the **Version** field in the Details right-panel from **builds/xos_30.3/30.3.1.6** to **30.3.1.6**.

Firmware Upgrade Configuration Information

ExtremeCloud IQ Site Engine supports firmware downloads and uploads to devices using TFTP, FTP, SCP, and SFTP. However, before firmware images can be downloaded or uploaded from the server, ExtremeCloud IQ Site Engine needs the root path or directory for each of the protocols. The following default root paths for each protocol are configurable from the **Administration > Options > Inventory Manager** tab:

Protocol Root Path:

- TFTP: /tftpboot/firmware/images/
- FTP: /tftpboot/firmware/images/
- SCP: /root/firmware/images/
- SFTP: /root/firmware/images/

To upload firmware images that are 2 GB or less to the server, use the ExtremeCloud IQ Site Engine **Network > Firmware** tab. For files larger than 2 GB, use a third-party client (such as SCP, WinSCP, or FTP).

For example, to use SCP to upload a firmware image to the SCP root path on the server, enter the following:

- `scp <LOCAL_FIRMWARE_PATH> root@<ExtremeCloud IQ Site Engine_SERVER_IP>:/root/firmware/images`
- Where:
 - <ExtremeCloud IQ Site Engine_SERVER_IP>= IP Address to ExtremeCloud IQ Site Engine Server
 - <LOCAL_FIRMWARE_PATH>= fully qualified path to a firmware image on the client machine

Wireless Manager Upgrade Information

A High Availability pair cannot be added as a flow source if the WLAN(s) selected are not in common with both wireless controllers.

Server and Client System Requirements

IMPORTANT:

Wireless event collection is disabled by default in version 24.07.11 due to the increase in disk space usage required. To enable event collection, select **Enable Event Collection** **Event Analyze**. Then select **Administration > Options > [Event Analyzer](#)**.

Internet Explorer is not supported in ExtremeCloud IQ Site Engine version 24.07.11.

ExtremeCloud IQ Site Engine Server Requirements

Manufacturer	Operating System
Linux	Red Hat Enterprise Linux 9.4
VMware® (ExtremeCloud IQ Site Engine Virtual Engine)	VMware ESXi™ 6.0 server VMware ESXi™ 6.5 server VMware ESXi™ 6.7 server VMware ESXi™ 7.0 server VMware ESXi™ 8.0 server vSphere (client only)™
Microsoft® Hyper-V (ExtremeCloud IQ Site Engine Virtual Engine)	Windows® Server 2012 R2 Windows® Server 2016

These are the operating system requirements for the ExtremeCloud IQ Site Engine server.

ExtremeCloud IQ Site Engine Client Requirements

These are the operating system requirements for remote ExtremeCloud IQ Site Engine client machines.

Manufacturer	Operating System
Windows (qualified on the English version of the operating systems)	Windows® 10 and 11
Linux	Red Hat Enterprise Linux 9.4
Mac OS X®	Monterey

ExtremeCloud IQ Site Engine Server and Client Hardware Requirements

These are the hardware requirements for the ExtremeCloud IQ Site Engine server and ExtremeCloud IQ Site Engine client machines.

NOTES: ExtremeControl and ExtremeAnalytics are not supported on Small ExtremeCloud IQ Site Engine servers.

ExtremeCloud IQ Site Engine Server Requirements

	Small	Medium	Enterprise	Large Enterprise
Total CPUs	1	2	2	2
Total CPU Cores	8	16	24	24
Memory	16 GB	32 GB	64 GB	64 GB
Disk Size	240 GB	480 GB	960 GB	1.92 TB
IOPS	200	200	10,000	10,000
Recommended scale based on server configuration:				
Maximum APs	250	2,500	25,000	25,000
Maximum Wireless MUs	2,500	25,000	100,000	100,000

	Small	Medium	Enterprise	Large Enterprise
Maximum Managed Devices	100	1,000	10,000 air gap 8,000 connected	10,000 air gap 8,000 connected
ExtremeControl End-Systems	N/A	50,000	200,000	200,000
Statistics Retention (Days)	90	180	180	360
ExtremeAnalytics	No	Yes	Yes	Yes
MU Events	No	Yes	Yes	Yes

IMPORTANT: For optimal performance the CPU and Memory needs to reserved in the ESX Client and the virtual machine needs to be deployed using Thick Disk provisioning.

ExtremeCloud IQ Site Engine Client Requirements

	Requirements
CPU Speed	3.0 GHz Dual Core Processor
Memory	8 GB (4 GB for 32-bit OS)
Disk Size	300 MB (User's home directory requires 50 MB for file storage)
Java Runtime Environment (JRE) (Oracle Java only)	Version 8
Browser ¹ (Enable JavaScript and Cookies)	Microsoft Edge Mozilla Firefox Google Chrome

¹Browsers set to a zoom ratio of less than 100% might not display ExtremeCloud IQ Site Engine properly (for example, missing borders around windows). Setting your browser to a zoom ratio of 100% corrects this issue.

Virtual Engine Requirements

The ExtremeCloud IQ Site Engine, ExtremeControl, and ExtremeAnalytics virtual engines must be deployed on a VMWare or Hyper-V server with a disk format of VHDX.

- The VMWare ExtremeCloud IQ Site Engine virtual engines are packaged in the .OVA file format (defined by VMware).
- The Hyper-V ExtremeCloud IQ Site Engine virtual engines are packaged in the .ZIP file format.

IMPORTANT: For ESX and Hyper-V servers configured with AMD processors, the ExtremeExtremeAnalytics virtual engine requires AMD processors with at least Bulldozer based Opterons.

ExtremeCloud IQ Site Engine Virtual Engine Requirements

Specifications	Small	Medium	Enterprise
Total CPU Cores	8	16	24
Memory	16 GB	32 GB	64 GB

Specifications	Small	Medium	Enterprise
Disk Size	240 GB	480 GB	960 GB
IOPS	200	200	10,000
Recommended scale based on server configuration:			
Maximum APs	250	2,500	25,000
Maximum Wireless MUs	2,500	25,000	100,000
Maximum Managed Devices	100	1,000	10,000 air gap 8,000 connected
ExtremeControl End-Systems	N/A	50,000	200,000
Statistics Retention (Days)	90	180	180
ExtremeAnalytics	No	Yes	Yes
MU Events	No	Yes	Yes

IMPORTANT:

For optimal performance the CPU and Memory needs to reserved in the ESX Client and the virtual machine needs to be deployed using Thick Disk provisioning.

ExtremeControl Virtual Engine Requirements

Specifications	Small	Medium	Enterprise	Large Enterprise
Total CPU Cores	8	16	16	20
Memory	12 GB	16 GB	32 GB	48 GB
Disk Size	40 GB	120 GB	120 GB	120 GB
IOPS	200	200	200	200
Recommended scale based on server configuration:				
ExtremeControl End-Systems	3,000	6,000	9,000/12,000 ¹	12,000/24,000 ²
Authentication	Yes	Yes	Yes	Yes
Captive Portal	No	Yes	Yes/No ¹	Yes/No ²
Assessment	No	Yes	No	No

¹ The Enterprise ExtremeControlengine configuration supports two different scale options:

- Up to 9,000 end-systems if your network uses Captive Portal functionality.
- Up to 12,000 end-systems if your network does not use Captive Portal functionality.

² The Large Enterprise ExtremeControlengine configuration supports two different scale options:

- Up to 12,000 end-systems if your network uses Captive Portal functionality.
- Up to 24,000 end-systems if your network does not use Captive Portal functionality.

IMPORTANT:

For optimal performance the CPU and Memory needs to reserved in the ESX Client and the virtual machine needs to be deployed using Thick Disk provisioning.

ExtremeAnalytics Virtual Engine Requirements

Specifications	Small	Medium	Enterprise
Total CPU Cores	8	16	16
Memory	12 GB	32 GB	64 GB
Disk Size	40 GB	480 GB	960 GB
IOPS	200	10,000	10,000
Recommended scale based on server configuration:			
Flows Per Minute	250,000	500,000	750,000
End-Systems	10,000	20,000	30,000

IMPORTANT:

The ESXi free license supports a maximum of 8 CPU cores, and the medium and enterprise ExtremeAnalytics virtual engine installations require 16 CPU cores. Sixteen CPU cores are only available by purchasing a permanent license. To use the ExtremeAnalytics virtual engine with an ESXi free license, adjust the number of CPU cores to 8.

To reduce the possibility of impaired functionality, ensure at least 4 GB of swap space is available for flow storage on the ExtremeAnalytics virtual engine. To verify the amount of available RAM on your Linux system, use the `free` command

Fabric Manager Requirements

Specifications	Requirements
Total CPU Cores	4
Memory	9 GB
Memory allocated to Java:	
-Xms	4 GB
-Xmx	6 GB
Disk Size	60 GB

ExtremeControl Agent OS Requirements

The table below outlines the supported operating systems for end-systems connecting to the network through an ExtremeControl deployment that is implementing agent-based assessment. Additionally, the end-system must support the operating system disk space and memory requirements as provided by Microsoft® and Apple®.

Manufacturer	Operating System	Operating System Disk Space	Available/Real Memory
Windows ¹	Windows Vista	80 MB	40 MB (80 MB with Service Agent)
	Windows XP		
	Windows 2008		
	Windows 2003		
	Windows 7		
	Windows 8		
	Windows 8.1		
	Windows 10		
Mac OS X	Catalina	10 MB	120 MB
	Tiger		
	Snow Leopard		
	Lion		
	Mountain Lion		
	Mavericks		
	Yosemite		
	El Capitan		
	Sierra		

¹Certain assessment tests require the Windows Action Center (previously known as Windows Security Center), which is supported on Windows XP SP2+, Windows Vista, and Windows 7, Windows 8, and Windows 8.1 operating systems.

ExtremeControl Agent support for Antivirus or Firewall products includes, but is not limited to, the following families of products:

- McAfee
- Norton
- Kaspersky
- Trend Micro
- Sophos

ExtremeControl Agent operating system support for the above products includes the latest Windows or Mac OS X versions currently available at the time of product release. The ExtremeControl Agent running on MAC Operating Systems requires Java Runtime Environment (JRE) support. Some features of various products might not be supported. For additional information on specific issues, see [Known Restrictions and Limitations](#).

ExtremeControl Supported End-System Browsers

The following table outlines the supported desktop and mobile end-system browsers connecting to the network through the Mobile Captive Portal of Extreme NetworksExtremeControl.

Medium	Browser
Desktop	Microsoft Edge
	Microsoft Internet Explorer
	Mozilla Firefox
	Google Chrome

Medium	Browser
Mobile	Internet Explorer Mobile Microsoft Edge Microsoft Windows 10 Touch Screen Native (Surface Tablet) iOS Native Android Chrome Android Native Dolphin Opera

NOTES: A native browser indicates the default, system-installed browser. Although this might be Chrome (Android), this also includes the default, system-controlled browser used for a device's Captive Network Detection for a device. Typically, this is a non-configurable option for Wi-Fi Captive Network Detection, but default Android, Microsoft and iOS devices are tested for compatibility with the Mobile Captive Portal.

A mobile device can access the standard (non-mobile) version of the Captive Portal using any desktop-supported browsers available on a mobile device.

For other browsers, the Mobile Captive Portal requires the browser on the mobile device to be compatible with Webkit or Sencha Touch.

To confirm compatibility with Webkit or Sencha Touch, open `http://<ExtremeControlEngine IP>/mobile_screen_preview` using your mobile web browser.

- If the browser is compatible, the page displays properly.
- If the browser is not compatible with the Mobile Captive Portal, the following error displays:



ExtremeControl Engine Version Requirements

For complete information on ExtremeControl engine version requirements, see [Important Upgrade Information](#).

ExtremeControl VPN Integration Requirements

VPN concentrators are supported for use in ExtremeControl VPN deployment scenarios.

- Supported Functionality: Authentication and Authorization (policy enforcement)
 - Cisco ASA
 - Enterasys XSR

- Supported Functionality: Authentication
Juniper SA (requires an S-Series Stand Alone (SSA) system in order to provide access control)

NOTE: For all ExtremeControl VPN Deployment scenarios, an S-Series Stand Alone (SSA) system is required to change authorization levels beyond the initial authorization, such as when using assessment.

ExtremeControl SMS Gateway Requirements

The following SMS Gateways have been tested for interoperability with ExtremeControl:

- Clickatell
- Mobile Pronto

ExtremeControl SMS Text Messaging Requirements

The following mobile service providers are supported by default for SMS text messaging in an ExtremeControl deployment. Additional service providers can be added:

AT&T	Sprint PCS
Alltel	SunCom
Bell Mobility (Canada)	T-Mobile
Cingular	US Cellular
Metro PCS	Verizon
Rogers (Canada)	Virgin Mobile (US and Canada)

ExtremeAnalytics Requirements

To use an ExtremeSwitching X440-G2 switch as an Application Telemetry source for ExtremeAnalytics, install firmware version 22.4.1.4-patch2-5 or higher.

Ekahau Maps Requirements

ExtremeCloud IQ Site Engine supports importing Ekahau version 8.x maps in .ZIP format.

Guest and IoT Manager Requirements

Guest and IoT Manager Server OS Requirements

These are the operating system requirements for Guest and IoT Manager server:

Manufacturer	Operating System
VMware® (ExtremeCloud IQ Site Engine Virtual Engine)	VMware ESXi™ 5.5 server VMware ESXi™ 6.0 server VMware ESXi™ 6.5 server vSphere (client only)™

Guest and IoT Manager Outlook Add-in Client Requirements

These are the requirements for the Client Machines, which need to run Guest and IoT Manager Outlook Add-in.

Manufacturer	Operating System
Windows ¹	Windows 7 Windows 10
Mac OS X	Sierra High Sierra Mojave

¹Microsoft® Outlook® 2016 is needed on Windows/Mac clients for the add-in to operate.

Guest and IoT Manager Virtual Engine Requirements

The VMWare Guest and IoT Manager virtual engines are packaged in the .OVA file format (defined by VMware) and needs an x86, 64-bit capable environment

Specifications	Minimum	Recommended
Total CPU Cores	2	4
Memory	2 GB	4 GB
Disk Size	80 GB	80 GB
Interfaces	1 Physical NIC	3 Physical NICs

Guest and IoT Manager Supported Browsers

The following table outlines the supported desktop and mobile browsers that can be used to launch Guest and IoT Manager Admin and Provisioner Web Application:

Medium	Browser	Version
Desktop	Microsoft Internet Explorer	11 and later
	Mozilla Firefox	63 and later
	Google Chrome	65 and later
	Microsoft Edge	42 and later
	Safari	12 and later
Mobile ¹	iOS Native	9 and later
	Android Chrome	65 and later
	US Browser	11.5 and later
	Opera	40 and later
	Firefox	63 and later

¹Mobile Browsers are supported only for the Guest Self-Service Provisioning flow.

NOTES:

- A mobile device can access the Guest and IoT Manager Application by using any desktop-supported browsers available on a mobile device. Before login, make sure to select the **Desktop site** option in the browser options.
 - Browsers set to a zoom ratio of less than 100% might not display Guest and IoT Manager Application properly (for example, missing borders around windows). Setting your browser to a zoom ratio of 100% corrects this issue.
 - Guest and IoT Manager Application is best viewed in 1920 x 1080 resolution or higher. Lower resolutions might result in improper layouts in some cases.
 - If you are using self-signed certificates, they must be added in the Trusted Root Certificate store on the client machine or you might observe issues in the “print” use cases. This is only applicable for Microsoft Edge and Microsoft Internet Explorer browsers.
-