



ExtremeCloud™ IQ Site Engine v26.06.10 Release Notes:

Features, Enhancements, and Issues

6/2026
26.06.10
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Abstract

The release notes for ExtremeCloud IQ Site Engine version 26.06.10 provide a comprehensive overview of features, enhancements, and resolved issues pertinent to the deployment and management of the software platform. The document details critical upgrade paths and considerations, and requirements for internet connectivity during OS upgrades. This document highlights the system requirements for server and client hardware, emphasizing optimal CPU and memory configurations to support various deployment scales, including ExtremeControl and ExtremeAnalytics features. Addressed vulnerabilities cover a wide range of CVEs, ensuring the system's robustness against potential exploits. Users are advised on specific configuration settings for various devices, including Fabric Engine and ERS devices, to maintain compatibility and performance standards.

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26.06.10 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 26.06.10 consumes licenses from Extreme Platform ONE or 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 26.06.10 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

The following sections describe licensing changes in ExtremeCloud IQ Site Engine software releases.

Version 25.05.10

Starting in ExtremeCloud IQ Site Engine version 25.05.10 the new Extreme Platform ONE subscriptions are compatible with ExtremeCloud IQ Site Engine in air gap deployments.

Version 25.02.10

Starting in ExtremeCloud IQ Site Engine version 25.02.10 the new Extreme Platform ONE subscriptions are recognized if ExtremeCloud IQ Site Engine is onboarded to ExtremeCloud IQ or Extreme Platform ONE.

Version 23.02.10

Starting in ExtremeCloud IQ Site Engine version 23.02.10 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 23.02.10 or later.

Version 21.09.10

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, Access Control licensing does not include end-system capabilities.

Version 21.04.10

Starting in ExtremeCloud IQ Site Engine version 21.04.10, your ExtremeAnalytics license is included as part of your ExtremeCloud IQ Pilot license. Separate licenses are no longer required.

End of Software Maintenance

In ExtremeCloud IQ Site Engine version 24.10.12 and after, the following components and features are deprecated and removed:

- Microsoft Azure Connect module (for multi-cloud integration)
- Ekahau map import

In ExtremeCloud IQ Site Engine version 24.07.10 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 23.07.11.6 (not compatible with ExtremeCloud IQ Site Engine version 24.07.10 and after)
- Fabric Manager - last version is 22.09.13.5
- Posture Assessment (both the agent-based and agent-less)

The mobile application "ExtremeManagement ZTP+" was removed from the Google Play store in August 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 connected mode onboarding to ExtremeCloud IQ with Server Trust Mode locked.

Added support for Extreme Platform ONE Tier 3rd Party licenses.

Added support for Windows Server 2025 for Microsoft Hyper-V deployments of ExtremeCloud IQ Site Engine.

Added support for Red Hat Enterprise Linux (RHEL) 9.8. If you are running a RHEL OS, the best practice is to upgrade to RHEL 9.8 before you upgrade to ExtremeCloud IQ Site Engine 26.06.x.

Added support for Okta SSO authentication integration.

ExtremeManagement Enhancements

Register Trap Receiver now creates the SNMP user in the switch if not created yet.

Removed the redundant "Start Show Support" button in the Diagnostics page.

Added support for AP5022 series devices.

Ping Device now uses the ICMP protocol even if the server is not running under the root account. Ping Device is now compatible with devices running Fabric Engine.

In connected mode, added support for the new license EP1-STD-T3RD (Extreme Platform ONE Standard Networking Right-to-use for one device of 3rd Party Tier). Extreme Platform ONE must be on version 25.09 or newer to support the EP1-STD-T3RD license.

In air gap mode, added support for the new license EP1-STD-T3RD (Extreme Platform ONE Standard Networking Right-to-use for one device of 3rd Party Tier).

Increased the maximum length of SNMPv3 passwords to 64 characters.

Added support to process SNMP Traps and SNMP Informs received over IPv6.

Added recognition for the serial number, firmware, and bootprom revision of 8730 series.

ExtremeControl

ExtremeControl Enhancements

Documented the best practice for all Access Control Engines to run the same version as ExtremeCloud IQ Site Engine.

Added a new switch type for Layer 2 Out-Of-Band (No SNMP). For a Layer 2 Out-Of-Band configured switch, ExtremeControl will not use SNMP to communicate to the switch.

Enhanced the timestamp precision of End-System Events to include milliseconds, ensuring accurate event sequencing and SIEM integration in high-density environments.

NOTE: After an ExtremeControl upgrade to version 26.06.10, update the syslog event log configuration to the 8601 format. 8601 format is required for the high precision timestamps to be parsed when displaying syslog messages in the event log display.

Enhanced the persistence of the configured verbosity level for Access Control Engine restarts and ExtremeControl upgrades.

Added support for compression of Dynamic ACLs for Fabric Engine. The minimum version of Fabric Engine for Dynamic ACLs is now VOSS 8.9.

Added support for ExtremeControl exporting authentication, authorization, and enforcement logs to Microsoft Sentinel. Configure in ExtremeCloud IQ Site Engine from **Administration > Options > Access Control > Microsoft Sentinel**.

(BETA FEATURE) Added support for ExtremeControl native integration with VMware Workspace ONE UEM to allow device compliance, posture, and management state from Workspace ONE UEM to influence Access Control Engine policy decisions. Configure in ExtremeCloud IQ Site Engine from **Administration > Options > Access Control > Workspace ONE UEM Compliance Module**.

Added support for Compound Policies in ExtremeControl, allowing administrators to define multiple conditions within a single policy. Configuring Compound Policies allows for more precise and context-aware Access Control Engine policy decisions.

Added a configuration option to increase scaling and performance of Access Control Engines.

ExtremeConnect

ExtremeConnect Enhancements

Deprecated the Connect Module for Airwatch Integration, called "AirWatch MDM", to be replaced with a new native Airwatch integration in Access Control called "Workspace ONE UEM".

Customer Found Defects and Known Issues

Customer Found Defects Addressed 26.06.10

ExtremeCloud IQ Site Engine CFDs Addressed	ID
Addressed an issue with event storage in database filling the disk, despite previous upgrades and attempts to prune the database. The team confirmed that the disk space issue was related to the excessive growth of event cache partitions, with tables occupying around 650 MB each, and will now truncate tables not containing recent data from the last two weeks.	03231267 CFD-16238
Addressed an issue with the Enforce Preview temporarily displaying a different symbol when switching to Ports tab due to performance degradation.	03257116 CFD-16895
Addressed an issue where a database query for events could in certain circumstances, return a very large number of events and cause the ExtremeCloud IQ Site Engine server to stop responding due to java.lang.OutOfMemoryError.	03252325 CFD-16986
ExtremeAnalytics CFDs Addressed	ID
Addressed an issue with chrony system service being disabled if NTP is declined during install script and if NTP is declined during dateconfig. This scenario can cause a Site Engine managed NTP configuration for the appliance to not function.	03244044 CFD-16541
Added code to enable chrony if it was not enabled when starting the chrony service on an appliance if NTP is managed by Site Engine.	
ExtremeControl CFDs Addressed	ID
Addressed an issue with a Policy Enforce of DACL role not triggering with an over RADIUS packet size error. Now previewing the RADIUS attribute policy mapping correctly displays the estimated attribute value, and error messages are triggered when the size exceeds thresholds.	03181942 CFD-15959
Addressed an issue with the periodic status monitor feature when using location-based captive portals with Entra ID. Access Control now uses the correct portal configuration during Entra ID registration when advanced location is enabled.	03231464 CFD-16139
Addressed an issue with exporting end system events from a specific date with zero rows. Now the rows displayed in the GUI are more consistent with the rows displayed in the export file. Used common code to make the DB queries more aligned with each other.	03240802 CFD-16450

ExtremeControl CFDs Addressed	ID
Addressed an issue with GUI navigation of "Rules > Select a rule > Accept policy > Select policy role gear > select domain > Edit Role" did not go to the expected role editor. When selecting Edit Role in the Access Control views, the browser was redirecting to the top-level Roles view on the Policy tab.	03237681 CFD-16497
Now redirects to the specified role view for editing, which is a child of the top-level Roles view. In addition, the Edit Policy Mapping window now automatically closes if displayed, before redirection.	
Addressed an issue with Enforce Preview, the current ports selection get sorted but not into the desired ports section. Now updated the field renderer to sort the ports properly.	03212577 CFD-16505
Addressed an issue with configuring a Fabric Engine/VOSS switch to use multiple Control Engines as RADIUS servers, only the first two configure as RADIUS dynamic-server clients on the switch.	03241224 CFD-16512
Access Control now configures the dynamic-server client of up to four VOSS switches.	
Addressed an issue with the Filtering Source column not working as expected.	
Now converted the filter type to a List, displaying the available options. Also converted the Source column in the end systems table, and the Event Source column in the end system events table.	03244682 CFD-16536
Addressed an issue with nested LDAP group parent evaluation stopping before all parent groups are evaluated. Resolved nested group search to prevent premature termination.	03231104 CFD-16817
Addressed an issue with the MemberOf attribute using the default portal instead of extracted based on the advanced location portal. Access control now uses the correct portal configuration during registration.	CFD-16831
Addressed an issue with the GUI for editing Port Template VLANs. Now when editing a Port Template, the VLAN list sorts in ascending order, now allows scrolling if exceeding vertical space, and now displays the list pop-up further below when selecting the arrow to add more VLANs.	03256881 CFD-16842
Addressed an issue with the legacy NMS-ADV license not being included in license display. Legacy NAC licenses are now displayed in the totals in Admin-Licenses.	03256088 CFD-16848
Addressed an issue with missing fingerprint for iOS 26.x. Added a new fingerprint for iOS 26.x versions.	03257842 CFD-16859
Addressed an issue with Control Tools > End System Export exporting zero records using site column filter. Fixed with CFD-16450 common code changes.	03263477 CFD-17186
Addressed an issue with the NacRequest.sh tool not outputting log messages after an upgrade to 26.02.x. The NacRequest scripts now support log4j output.	03274600 CFD-17259

ExtremeManagement CFDs Addressed	ID
Addressed an issue with an open TCP port denial of service vulnerability. Added a tcp-keepalive and changed the system timeout values, now a non-responsive connection is deleted after 4 minutes.	03159449 CFD-15010
Addressed an issue with the Device View Tabs not displaying data in an IPv6 setup. Now the IPv6 addresses are converted from short to long form, allowing Device View Tabs to display the data correctly.	03191770 CFD-15550

ExtremeManagement CFDs Addressed	ID
Addressed an issue with archive comparison showing no selectable source or destination for IPv6 clients. Now the Archive Tree can display IPv6 devices in the expanded view.	03191827 CFD-16282
Addressed an issue with Auto-Sense getting disabled on ports when enforcing service changes to other ports.	03222927 CFD-16317
Addressed an issue with Port Template deletion without a confirmation. Addressed an issue with editing Port Templates with non-editable LAG or LAG member.	03228451 CFD-16357
Now a Port Template delete requires a confirmation, and selecting a LAG or LAG member won't lock all other templated ports on the device. You can now edit the ports as expected.	
Addressed an issue where Switch Engine stacks would not complete the license update during the ztp+ process if the stack already appeared in the discovered view.	03238694 CFD-16506
Addressed an issue where device polling stops during automatic garbage cleanup. Now resolved by updating the garbage clean logic to G1GC in this release.	02868328 CFD-16511
Addressed an issue with displaying CLI passwords in Site > Discover for non-root user. Now for users with REPORTING_ADMIN_ACCESS and without NS_PROF_CONFIG the CLI password fields are displayed with asterisk symbols. For users without REPORTING_ADMIN_ACCESS and without NS_PROF_CONFIG the CLI password fields are removed and empty.	03252012 CFD-16698
Addressed an issue with ExtremeVLAN IP address display missing netmask, protocol filter, and IP forwarding.	03245256 CFD-16676
Addressed an issue where the custom report bookmark produced URLs that did not direct to the bookmarked Report > Custom Report.	03253554 CFD-16742
Addressed an issue with an invalid enforce validation check result for a valid Fabric Engine/VOSS configuration. Updated validation logic for Fabric Engine/VOSS configurations.	03241988 CFD-16753
Addressed an issue with not allowing a Top Level Domain (TLD) in email lists to exceed 6 characters. Now a user email with TLD of up to 24 characters (for example, username@host.homegoods) is allowed in email lists.	03269528 CFD-17126
Addressed an issue with email action in the alarm configuration not accepting < or & characters. Now < and & are accepted characters.	03269536 CFD-17157
Addressed an issue with an I-SID name change removing the I-SID on a production node causing an outage. Now changed the rename logic to update L2VSN or L3VSN services, instead of performing a delete and create.	03232830 CFD-16318
Addressed an issue where device synchronization could randomly unmanage devices in ExtremeCloud IQ Site Engine due to stack members missing sysinfo message and becoming unmanaged.	03231149 03232174 03240958 CFD-16283

Addressed Vulnerabilities

This section presents the vulnerabilities reported by vulnerability scanners in previous versions. The following components received updates in 26.06 regardless of whether the vulnerability

could have been exploited or not. If you need more information on vulnerability testing, see [Security and Vulnerability Testing](#).

26.06.10 ExtremeAnalytics, and Application Analytics Traffic Sensor images:

CVE-2026-43515, CVE-2026-43514, CVE-2026-43513, CVE-2026-43512, CVE-2026-42498, CVE-2026-41293, CVE-2023-2640, CVE-2023-32629, CVE-2024-35862, CVE-2024-50060, CVE-2025-10158, CVE-2026-2291, CVE-2026-23112, CVE-2026-23273, CVE-2026-23274, CVE-2026-23351, CVE-2026-24401, CVE-2026-27135, CVE-2026-29518, CVE-2026-3039, CVE-2026-31419, CVE-2026-31431, CVE-2026-31504, CVE-2026-31533, CVE-2026-33416, CVE-2026-33636, CVE-2026-33845, CVE-2026-33846, CVE-2026-34477, CVE-2026-34478, CVE-2026-34479, CVE-2026-34480, CVE-2026-34481, CVE-2026-34757, CVE-2026-34933, CVE-2026-35177, CVE-2026-3592, CVE-2026-3593, CVE-2026-3832, CVE-2026-3833, CVE-2026-39881, CVE-2026-41035, CVE-2026-41411, CVE-2026-41651, CVE-2026-42009, CVE-2026-42010, CVE-2026-42011, CVE-2026-42012, CVE-2026-42013, CVE-2026-42014, CVE-2026-42015, CVE-2026-43033, CVE-2026-43077, CVE-2026-43078, CVE-2026-43284, CVE-2026-43500, CVE-2026-43617, CVE-2026-43618, CVE-2026-43619, CVE-2026-43620, CVE-2026-43964, CVE-2026-4424, CVE-2026-4426, CVE-2026-45232, CVE-2026-46300, CVE-2026-4873, CVE-2026-4890, CVE-2026-4891, CVE-2026-4892, CVE-2026-4893, CVE-2026-5121, CVE-2026-5172, CVE-2026-5260, CVE-2026-5419, CVE-2026-5545, CVE-2026-5773, CVE-2026-5946, CVE-2026-5947, CVE-2026-5950, CVE-2026-5958, CVE-2026-6253, CVE-2026-6276, CVE-2026-6429, CVE-2026-7168

26.06.10 Access Control images:

CVE-2026-43515, CVE-2026-43514, CVE-2026-43513, CVE-2026-43512, CVE-2026-42498, CVE-2026-41293, CVE-2023-2640, CVE-2023-32629, CVE-2024-35862, CVE-2024-50060, CVE-2025-10158, CVE-2026-2291, CVE-2026-23112, CVE-2026-23273, CVE-2026-23274, CVE-2026-23351, CVE-2026-24401, CVE-2026-27135, CVE-2026-29518, CVE-2026-3039, CVE-2026-31419, CVE-2026-31431, CVE-2026-31504, CVE-2026-31533, CVE-2026-33416, CVE-2026-33636, CVE-2026-33845, CVE-2026-33846, CVE-2026-34477, CVE-2026-34478, CVE-2026-34479, CVE-2026-34480, CVE-2026-34481, CVE-2026-34757, CVE-2026-34933, CVE-2026-35177, CVE-2026-3592, CVE-2026-3593, CVE-2026-3832, CVE-2026-3833, CVE-2026-39881, CVE-2026-41035, CVE-2026-41411, CVE-2026-41651, CVE-2026-42009, CVE-2026-42010, CVE-2026-42011, CVE-2026-42012, CVE-2026-42013, CVE-2026-42014, CVE-2026-42015, CVE-2026-43033, CVE-2026-43077, CVE-2026-43078, CVE-2026-43284, CVE-2026-43500, CVE-2026-43617, CVE-2026-43618, CVE-2026-43619, CVE-2026-43620, CVE-2026-43964, CVE-2026-4424, CVE-2026-4426, CVE-2026-45232, CVE-2026-46300, CVE-2026-4873, CVE-2026-4890, CVE-2026-4891, CVE-2026-4892, CVE-2026-4893, CVE-2026-5121, CVE-2026-5172, CVE-2026-5260, CVE-2026-5419, CVE-2026-5545, CVE-2026-5773, CVE-2026-5946, CVE-2026-5947, CVE-2026-5950, CVE-2026-5958, CVE-2026-6253, CVE-2026-6276, CVE-2026-6429, CVE-2026-7168

26.06.10 ExtremeCloud IQ Site Engine images:

CVE-2026-6638, CVE-2026-6637, CVE-2026-6575, CVE-2026-6479, CVE-2026-6478, CVE-2026-6477, CVE-2026-6476, CVE-2026-6475, CVE-2026-6474, CVE-2026-6473, CVE-2026-6472, CVE-2023-2640, CVE-2023-32629, CVE-2024-35862, CVE-2024-50060, CVE-2025-10158, CVE-2026-2291, CVE-2026-23112, CVE-2026-23273, CVE-2026-23274, CVE-2026-23351, CVE-2026-24401, CVE-2026-27135, CVE-2026-29518, CVE-2026-3039, CVE-2026-31419, CVE-

2026-31431, CVE-2026-31504, CVE-2026-31533, CVE-2026-33416, CVE-2026-33636, CVE-2026-33845, CVE-2026-33846, CVE-2026-34477, CVE-2026-34478, CVE-2026-34479, CVE-2026-34480, CVE-2026-34481, CVE-2026-34757, CVE-2026-34933, CVE-2026-35177, CVE-2026-3592, CVE-2026-3593, CVE-2026-3832, CVE-2026-3833, CVE-2026-39881, CVE-2026-41035, CVE-2026-41411, CVE-2026-41651, CVE-2026-42009, CVE-2026-42010, CVE-2026-42011, CVE-2026-42012, CVE-2026-42013, CVE-2026-42014, CVE-2026-42015, CVE-2026-43033, CVE-2026-43077, CVE-2026-43078, CVE-2026-43284, CVE-2026-43500, CVE-2026-43617, CVE-2026-43618, CVE-2026-43619, CVE-2026-43620, CVE-2026-43964, CVE-2026-4424, CVE-2026-4426, CVE-2026-45232, CVE-2026-46300, CVE-2026-4873, CVE-2026-4890, CVE-2026-4891, CVE-2026-4892, CVE-2026-4893, CVE-2026-5121, CVE-2026-5172, CVE-2026-5260, CVE-2026-5419, CVE-2026-5545, CVE-2026-5773, CVE-2026-5946, CVE-2026-5947, CVE-2026-5950, CVE-2026-5958, CVE-2026-6253, CVE-2026-6276, CVE-2026-6429, CVE-2026-7168

Installation, Upgrade, and Configuration Changes

Installation Information

For license requirements for ExtremeCloud IQ Site Engine and devices, see [Licensing](#).

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 24.07. The minimum version to upgrade Analytics Engines and Access Control Engines is 24.02.13.

ExtremeCloud IQ Site Engine Version 26.06.10 contains an OS upgrade. If upgrading from version 24.02.15 then internet connectivity is required to download custom packages.

NOTE:

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 24.07.x, 24.10.x, 25.02.x, 25.05.x, 25.08.x, 25.11.x, 26.02.x, 26.06.x	ExtremeCloud IQ Site Engine 26.06
Application Analytics Engine, Access Control Engine 24.02.15, 24.07.x, 24.10.x, 25.02.x, 25.05.x, 25.08.x, 25.11.x, 26.02.x, 26.06.x	Application Analytics Engine, Access Control Engine 26.06
ExtremeCloud IQ Site Engine 24.02.x	Fresh installation of ExtremeCloud IQ Site Engine 25.08 and follow the Data Migration Procedure
ExtremeCloud IQ Site Engine 23.04.12, 23.07.x, 23.11.x, 24.02.x	ExtremeCloud IQ Site Engine 24.02.15

From Version (currently running)	To Version (next step in upgrade path)
Application Analytics Engine, Access Control Engine 23.04.12, 23.07.x, 23.11.x, 24.02.x	Application Analytics Engine, Access Control Engine 24.02.15
ExtremeCloud IQ Site Engine 21.x, 22.x, 23.2.x 23.04.10, 23.04.11	ExtremeCloud IQ Site Engine 23.04.12
Application Analytics Engine, Access Control Engine 21.x, 22.x, 23.2.x, 23.04.10, 23.04.11	Application Analytics Engine, Access Control Engine 23.04.12
Extreme Management Center version 8.5.7	ExtremeCloud IQ Site Engine 24.02.15
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 26.06.10 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, ExtremeAnalytics engine, or Access Control engine to version 26.06.10, ensure the DNS server IP address is correctly configured.
- When upgrading to ExtremeCloud IQ Site Engine version 26.06.10, 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 26.06.10 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 26.06.10, 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.

The best practice is for all Application Analytics Engines to run the same version as ExtremeCloud IQ Site Engine.

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 26.06.10 on the Access Control engine, 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 26.06.10:

No domain specified

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

Upgrading Access Control Engine to Version 26.06.10

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 Access Control Engine version to 26.06.10 when upgrading to ExtremeCloud IQ Site Engine version 26.06.10. However, both ExtremeCloud IQ Site Engine and Access Control Engine must be at version 26.06.10 in order to take advantage of the new ExtremeControl version 26.06.10 features. The best practice is for all Access Control Engines to run the same version as ExtremeCloud IQ Site Engine.

In addition, if your ExtremeControl solution utilizes a Nessus assessment server, you should also upgrade your assessment agent adapter to version 26.06.10 if you upgrade to ExtremeControl version 26.06.10.

You can download the latest Access Control Engine version at the [Extreme Portal](#).

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 26.06.10

- Policy Manager 26.06.10 only supports ExtremeWireless Controller version 8.01.03 and higher. If you upgrade to ExtremeCloud IQ Site Engine 26.06.10 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 26.06.10 only supports applying a single address (either IPv4 or IPv6) to a Loopback Interface.

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

Fabric Engine SNMP performance is adversely affected as the number of VRF configurations increases. This issue can be resolved by upgrading to 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.

Fabric Engine Device Configuration

Topology links from Fabric Engine devices to other 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 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 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 26.06.10 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 26.06.10.

Operating System Requirements

ExtremeCloud IQ Site Engine Server Requirements

Manufacturer	Operating System
Linux	Red Hat Enterprise Linux 9.8
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 2022 Windows® Server 2025
Nutanix (ExtremeCloud IQ Site Engine Virtual Engine)	AHV: 20230302.101026 AOS: 6.8.1 Prism Central: 2024.2
Extreme Networks	Universal Compute Platform 2130C version 5.09.01

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 9.8
Mac OS X®	Monterey, Sonoma

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
Maximum XIQ Controllers	2	4	100	100
Maximum Managed Devices	100	1,000	10,000 air gap 8,000 connected	10,000 air gap 8,000 connected
Maximum Concurrent Management Sessions	5	15	50	50
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	Dual Core Processor
Memory	8 GB
Disk Size	300 MB (User's home directory requires 50 MB for file storage)
Java Runtime Environment (JRE) (Oracle Java only)	Version 8 (for FlexView Editor / MIB Tools)
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, Hyper-V server, Nutanix, or Extreme Networks Universal Compute Platform.

- ExtremeCloud IQ Site Engine and virtual engines are packaged in the .OVA file format for VMware deployment.
- ExtremeCloud IQ Site Engine and virtual engines are packaged in the .ZIP file format for Hyper-V deployment.
- ExtremeCloud IQ Site Engine and virtual engines are packaged in the .OVA file format for deployment to the Nutanix through Prism Central.
- ExtremeCloud IQ Site Engine and virtual engines are packaged in the .TAR file format for deployment to the Universal Compute Platform.

IMPORTANT:

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

ExtremeCloud IQ Site Engine Virtual Engine Requirements

Specifications	Small	Medium	Enterprise	UCP 2130C
Total CPU Cores	8	16	24	N/A
Memory	16 GB	32 GB	64 GB	N/A
Disk Size	240 GB	480 GB	960 GB	N/A
IOPS	200	200	10,000	N/A
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
Maximum XIQ Controllers	2	4	100	100
Maximum Managed Devices	100	1,000	10,000 air gap 8,000 connected	10,000 air gap 8,000 connected
Maximum Concurrent Management Sessions	5	15	50	50
Access Control End-Systems	N/A	50,000	200,000	200,000
Statistics Retention (Days)	90	180	180	180
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.

Access Control Virtual Engine Requirements

Specifications	Small	Medium	Enterprise	Large Enterprise	UCP 2130C
Total CPU Cores	8	16	16	20	N/A
Memory	12 GB	16 GB	32 GB	48 GB	N/A
Disk Size	40 GB	120 GB	120 GB	120 GB	N/A
IOPS	200	200	200	200	N/A

Recommended scale based on server configuration:

ExtremeControl End-Systems	3,000	6,000	9,000/12,000 ¹	12,000/24,000 ²	12,000/24,000 ²
Authentication	Yes	Yes	Yes	Yes	Yes
Captive Portal	No	Yes	Yes/No ¹	Yes/No ²	Yes/No ²
Assessment	No	Yes	No	No	No

¹ The Enterprise Access Control Engine 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 Access Control Engine 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	UCP 2130C
Total CPU Cores	8	16	16	N/A
Memory	12 GB	32 GB	64 GB	N/A
Disk Size	40 GB	480 GB	960 GB	N/A
IOPS	200	10,000	10,000	N/A

Recommended scale based on server configuration:

Flows Per Minute	250,000	500,000	750,000	750,000
End-Systems	10,000	20,000	30,000	30,000
Raw Flow Retention (Days)	3.5	3.5	7	7

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 Captive Portal 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
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:



Access Control Engine Version Requirements

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

ExtremeControl VPN Integration Requirements

VPN concentrators are supported for use in Access Control 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 Access Control 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.