

# Customer Release Notes

## Fabric Engine

Software Release 9.4.1.0

July 2026

### INTRODUCTION:

This document describes important information about this release for platforms that support Extreme Networks Fabric Engine™.

The purpose of this version is to address customer and internally found software issues.

Newly Purchased Switches Require Software Upgrade. You should promptly upgrade the Fabric Engine software to the latest version available by visiting the Extreme Portal.

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

**For the latest firmware versions, visit the download site at:**  
[www.extremenetworks.com/support/](http://www.extremenetworks.com/support/)

### NEW IN THIS RELEASE:

Third Party Virtual Machine (TPVM) has a new version, the image file is included for platform supporting VM, see File Names for this Release section.

### IMPORTANT NOTES BEFORE UPGRADING TO THIS RELEASE:

Please see “Fabric Engine Release Notes for version 9.4.0.0” available at <https://www.extremenetworks.com/support/release-notes>

### UPGRADE CONSIDERATIONS WHEN UPGRADING TO 9.4.1.0 FROM PREVIOUS RELEASES:

Please see “Fabric Engine Release Notes for version 9.4.0.0” available at <https://www.extremenetworks.com/support/release-notes>

This release contains a corrected OSPF HMAC-SHA (SHA-1 and SHA-256) hash calculation that fixes interoperability with other vendors but is not backward compatible with previous VOSS releases (VOSS-35194). Before upgrade, the OSPF authentication should be disabled on OSPF adjacencies to avoid extended OSPF routing interruption and re-enabled after both OSPF peers are upgraded to 9.4.1.0.

### PLATFORMS SUPPORTED:

Please see “Fabric Engine Release Notes for version 9.4.0.0” available at <https://www.extremenetworks.com/support/release-notes> for details regarding supported platforms.

**FILE NAMES FOR THIS RELEASE:**

## Extreme Switching 4220 Series

File Name	Module or File Type	File Size (bytes)
4220.9.4.1.0_edoc.tar	Logs Reference	40079360
4220.9.4.1.0.md5	MD5 Checksums	521
4220.9.4.1.0_mib_sup.txt	MIB - supported object names	1462842
4220.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
4220.9.4.1.0_mib.zip	Archive of all MIB files	1294010
4220.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
4220.9.4.1.0.sha512	SHA512 Checksums	1532
4220.9.4.1.0.voss	Software image	112193291
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
restconf_yang.tgz	YANG model	506020

## Extreme Switching 5320 Series

File Name	Module or File Type	File Size (bytes)
5320.9.4.1.0_edoc.tar	Logs Reference	40099840
5320.9.4.1.0.md5	MD5 Checksums	521
5320.9.4.1.0_mib_sup.txt	MIB - supported object names	1587149
5320.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
5320.9.4.1.0_mib.zip	Archive of all MIB files	1294010
5320.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
5320.9.4.1.0.sha512	SHA512 Checksums	1532
5320.9.4.1.0.voss	Software image	114541618
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
restconf_yang.tgz	YANG model	506020

## Extreme Switching 5420 Series

File Name	Module or File Type	File Size (bytes)
5420.9.4.1.0_edoc.tar	Logs Reference	40099840
5420.9.4.1.0.md5	MD5 Checksums	521
5420.9.4.1.0_mib_sup.txt	MIB - supported object names	1586915
5420.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
5420.9.4.1.0_mib.zip	Archive of all MIB files	1294010

File Name	Module or File Type	File Size (bytes)
5420.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
5420.9.4.1.0.sha512	SHA512 Checksums	1532
5420.9.4.1.0.voss	Software image	114301548
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
restconf_yang.tgz	YANG model	506020

## Extreme Switching 5520 Series

File Name	Module or File Type	File Size (bytes)
5520.9.4.1.0_edoc.tar	Logs Reference	40099840
5520.9.4.1.0.md5	MD5 Checksums	521
5520.9.4.1.0_mib_sup.txt	MIB - supported object names	1585750
5520.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
5520.9.4.1.0_mib.zip	Archive of all MIB files	1294010
5520.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
5520.9.4.1.0.sha512	SHA512 Checksums	1532
5520.9.4.1.0.voss	Software image	129554747
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
restconf_yang.tgz	YANG model	506020

## Extreme Switching 5720 Series

File Name	Module or File Type	File Size (bytes)
5720.9.4.1.0_edoc.tar	Logs Reference	40099840
5720.9.4.1.0.md5	MD5 Checksums	655
5720.9.4.1.0_mib_sup.txt	MIB - supported object names	1592621
5720.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
5720.9.4.1.0_mib.zip	Archive of all MIB files	1294010
5720.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
5720.9.4.1.0.sha512	SHA512 Checksums	1858
5720.9.4.1.0.voss	Software image	328255383
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
FabricIPSecGW_VM_5.2.0.0.ova	Fabric IPSec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu24.04_04_03June2026.qcow2	Third Party Virtual Machine (TPVM)	3747785216

## Extreme Switching 7520 Series

File Name	Module or File Type	File Size (bytes)
7520.9.4.1.0_edoc.tar	Logs Reference	40099840
7520.9.4.1.0.md5	MD5 Checksums	655
7520.9.4.1.0_mib_sup.txt	MIB - supported object names	1588419
7520.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
7520.9.4.1.0_mib.zip	Archive of all MIB files	1294010
7520.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
7520.9.4.1.0.sha512	SHA512 Checksums	1858
7520.9.4.1.0.voss	Software image	328554941
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
FabricIPSecGW_VM_5.2.0.0.ova	Fabric IPSec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu24.04_04_03June2026.qcow2	Third Party Virtual Machine (TPVM)	3747785216

## Extreme Switching 7720 Series

File Name	Module or File Type	File Size (bytes)
7720.9.4.1.0_edoc.tar	Logs Reference	40099840
7720.9.4.1.0.md5	MD5 Checksums	655
7720.9.4.1.0_mib_sup.txt	MIB - supported object names	1586606
7720.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
7720.9.4.1.0_mib.zip	Archive of all MIB files	1294010
7720.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
7720.9.4.1.0.sha512	SHA512 Checksums	1858
7720.9.4.1.0.voss	Software image	328548451
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
FabricIPSecGW_VM_5.2.0.0.ova	Fabric IPSec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu24.04_04_03June2026.qcow2	Third Party Virtual Machine (TPVM)	3747785216

## Extreme Switching 7830 Series

File Name	Module or File Type	File Size (bytes)
7830.9.4.1.0_edoc.tar	Logs Reference	40079360
7830.9.4.1.0.md5	MD5 Checksums	521

File Name	Module or File Type	File Size (bytes)
7830.9.4.1.0_mib_sup.txt	MIB - supported object names	1579420
7830.9.4.1.0_mib.txt	MIB - objects in the OID compile order	8731915
7830.9.4.1.0_mib.zip	Archive of all MIB files	1294010
7830.9.4.1.0_oss-notice.html	Open-source software - Master copyright file	2597473
7830.9.4.1.0.sha512	SHA512 Checksums	1532
7830.9.4.1.0.voss	Software image	458234782
dictionary.fabricengine	RADIUS dictionary	3502
FabricEnginev9.4.0_HELP_EDM_gzip.zip	EDM Help file	5323371
restconf_yang.tgz	YANG model	506020

### Note about image download:

Ensure images are downloaded using the binary file transfer. Perform MD5 checksum check on downloaded files to ensure file integrity.

Check that the file type suffix is “.tgz” and the image names after download to device match those shown in the above table. Some download utilities have been observed to append “.tar” to the file name or change the filename extension from “.tgz” to “.tar”. If file type suffix is “.tar” or file name does not exactly match the names shown in above table, rename the downloaded file to the name shown in the table above so that the activation procedures will operate properly.

### Load activation procedures:

```
software add 7720.9.4.1.0.voss
software activate 9.4.1.0.GA
```

**or**

```
software add 7520.9.4.1.0.voss
software activate 9.4.1.0.GA
```

**or**

```
software add 5720.9.4.1.0.voss
software activate 9.4.1.0.GA
```

**or**

```
software add 5520.9.4.1.0.voss
software activate 9.4.1.0.GA
```

**or**

```
software add 5420.9.4.1.0.voss
software activate 9.4.1.0.GA
```

**or**

```
software add 5320.9.4.1.0.voss
```

```
software activate 9.4.1.0.GA
```

**or**

```
software add 4220.9.4.1.0.voss
```

```
software activate 9.4.1.0.GA
```

**or**

```
software add 7830.9.4.1.0.voss
```

```
software activate 9.4.1.0.GA
```

## CHANGES IN THIS RELEASE:

### New Features in This Release

None

### Old Features Removed From This Release

None

### Problems Resolved in This Release

CFD-15157	IPv6 traffic traversing the fabric fails for some destinations while other destinations remain reachable, causing inconsistent connectivity.
CFD-15518	Ports do not learn the source MAC address from PROFINET traffic sent by Siemens PLC devices, which breaks forwarding for that endpoint.
CFD-15540	The routed management VLAN is not handled correctly on 5520, 5720, 7520, and 7720 clusters when associated with an MSTP instance other than 0.
CFD-16361	A memory leak may occur when processing NodeAlias IPv4 protocol info entries.
CFD-16680	CLI command " <i>show ip bgp advertised-routes</i> " reports a total route count of -1 even when advertised routes are present.
CFD-16720	On PoE capable switches, the PD detection type configuration change is not persistent after saving the configuration and rebooting.
CFD-17039	Deleting and recreating a VRF tied to anycast gateway VLANs causes an error when re-enabling anycast on the VLAN, as the switch incorrectly reports that the anycast interface already exists.
CFD-17147	An ACL entry with a /32 destination IP mask matches all IP addresses instead of a single host address.
CFD-17155	CLI command " <i>certificate generate-csr relaxed</i> " fails in 9.x releases, preventing CSR generation with the relaxed option.
CFD-17189	Command execution fails for existing CLI sessions when the SSH session-limit is configured for 7 or 8 and exceeded, with TACACS authorization enabled.
VOSS-35043	Only the first channel of a channelized auto-sense port inherits the auto-sense and link administrative states; the remaining channels keep default pre-auto-sense settings.

Problems Resolved in This Release															
VOSS-35101	<p><b>Enhancement</b> The following FA Client Element Types were added for the Fabric Attach Server:</p> <table border="1"> <tr> <td>19</td> <td>Building security/access</td> </tr> <tr> <td>20</td> <td>PDU/battery backup</td> </tr> <tr> <td>21</td> <td>PoE lighting</td> </tr> <tr> <td>22</td> <td>Nutanix server solution</td> </tr> <tr> <td>23</td> <td>Placeholder 1</td> </tr> <tr> <td>24</td> <td>Placeholder 2</td> </tr> <tr> <td>63</td> <td>FA Client Unknown</td> </tr> </table> <ul style="list-style-type: none"> <li>➤ The switch recognizes all newly added types when receiving FA packets.</li> <li>➤ The types are also provided via RADIUS access request.</li> <li>➤ The types can be displayed with “<i>show fa elements</i>” CLI command.</li> </ul>	19	Building security/access	20	PDU/battery backup	21	PoE lighting	22	Nutanix server solution	23	Placeholder 1	24	Placeholder 2	63	FA Client Unknown
19	Building security/access														
20	PDU/battery backup														
21	PoE lighting														
22	Nutanix server solution														
23	Placeholder 1														
24	Placeholder 2														
63	FA Client Unknown														
VOSS-35192	The DHCP server sends Option 43 with zero length even when no vendor option data is configured, which can cause clients to reject offers.														
VOSS-35239	<p><b>Enhancement</b> “<i>show license output</i>” CLI command was enhanced with "Subscription License Refresh Date: &lt;YYYY-MM-DD hh:mm:ss&gt;" to let the user know when the subscription license was refreshed by the cloud in case of an EP1 license. An output is displayed "License check failed, license assignment will expire in X days" when the switch fails to synchronize with the cloud and gives information of when the license will expire, unless the switch manages to synchronize with the cloud in the meantime.</p>														
CFD-17219	When NEAP authentication is rejected by RADIUS and the NEAP quiet timer is running, a subsequent successful EAP authentication on the same port is terminated when the quiet timer expires, causing an unexpected session teardown.														
CFD-17294	When BGP is configured with 4-byte AS numbers, the MED attribute is not applied correctly during route selection, resulting in different route preference behavior compared to 2-byte AS configuration.														
CFD-17302	When a BGP route with the shortest AS path is withdrawn by the originating router, iBGP peers do not properly propagate the update, leaving a stale route instead of switching to the available longer AS-path route received via eBGP.														
CFD-17468	On VSP5320-16P-2MXT-2X switches, hosts in different untrusted VLANs within a segmented VRF can route directly to each other when that traffic should be isolated.														

### Fixes from Previous Releases

Fabric Engine 9.4.1.0 incorporates all fixes and content from previous releases including Fabric Engine 8.10.9.0, Fabric Engine 9.0.5.1, Fabric Engine 9.1.3.0, Fabric Engine 9.2.3.0, Fabric Engine 9.3.3.0 and Fabric Engine 9.4.0.0.

### OUTSTANDING ISSUES:

Please see “Fabric Engine Release Notes for version 9.4.0.0” available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Issues.

CFD-13433	RESTCONF TACACS+ authentication fails intermittently after extended uptime, requiring the RESTCONF application to be restarted.
CFD-15355	Wireless clients on FA dynamic VLANs fail to get DHCP IP address when DHCP snooping is enabled. <b>Workaround:</b> Disable DHCP snooping globally. A fix for this issue is targeted for 9.5.0.0 release.
CFD-16890	NEAP-LLDP authenticated sessions are not cleared when the connected IP phone is physically disconnected from the port. The stale session persists until LLDP timeout, preventing new devices from authenticating with a "Maximum allowed MAC reached" error. A fix for this issue is targeted for 9.4.2.0 release.
CFD-17074	Fabric Extend tunnels flap multiple times per day, correlating with ARP TTL expiration for the tunnel peer IP address. When the ARP entry for the remote tunnel endpoint expires, the tunnel temporarily goes down. <b>Workaround:</b> configure a static ARP
CFD-17120	When a port enters auto-sense LOOP state due to detecting both a phone LLDP and the switch's own LLDP, MAC learning and packet bridging still occur on the voice VLAN for that port, allowing a Layer 2 loop to form.
CFD-17130	ECMP routing fails when the ECMP group includes both an extra VLAN on NNI path and an L2VSN path, resulting in packet loss for flows hashed onto one of the two paths.
CFD-17250	After upgrading from 8.8.1.0 to any higher release, 25 GbE fiber links with autonegotiation disabled on the VIM5-4YE module fail to come up if FEC is set to "auto". <b>Workaround:</b> disable FEC or manually set it to Clause 108.

### KNOWN LIMITATIONS:

Please see "Fabric Engine Release Notes for version 9.4.0.0" available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Limitations.

Regular cleanup of unneeded files on USB drives is recommended to minimize possibility of USB corruption when a system is reset, shut down, or power is lost.

### DOCUMENTATION CORRECTIONS:

For other known issues, please refer to the product release notes and technical documentation available at: <https://www.extremenetworks.com/support/documentation>.

### GLOBAL SUPPORT

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

For the toll-free support number in your country:  
[www.extremenetworks.com/support/](http://www.extremenetworks.com/support/)

By Email: [support@extremenetworks.com](mailto:support@extremenetworks.com)

By Web: [www.extremenetworks.com/support/](http://www.extremenetworks.com/support/)

By Mail: Extreme Networks, Inc.  
6480 Via Del Oro  
San Jose, CA 95119

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

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