Extreme networks

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Customer Release Notes

Fabric Engine
Software Release 8.10.1.0
June 2023

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/

NEW IN THIS RELEASE:

Fabric Extend Integration with ExtremeCloud SD-WAN:
If you have remote branch sites with only Internet connectivity and you want to extend the capabilities of fabric to that site, or if you have a branch office with a private WAN connection and you want to have a backup link using the public Internet, you can extend the Fabric network over the Internet towards a remote branch by connecting Fabric switches through ExtremeCloud SD-WAN.

OSPFv3 Support for CLIP Interfaces:
You can configure the Open Shortest Path First Version 3 (OSPFv3) instance on circuitless IP (CLIP) interfaces for the Global Router or a specific Virtual Router Forwarding (VRF) instance.

Ability to view all cli users with a single cli command:
The "`show cli username`" cli command has been enhanced to display all cli user names available on the switch.

DvR-VRRP Coexistence (DvR-leaf – regular BEB interop) on Multi-area Boundary Nodes:
By using VRRP advertisements on the DvR VLAN and I-SID, DvR Controllers can now route traffic that enters on the network-to-network interface (NNI) if a Layer 2 Virtual Service Network (VSN) spans outside of the DvR domain. This feature was first introduced in release version 8.8 and the capability is now supported on Multi-area Boundary Nodes.

Please see "New Features in this release" section below for more information.

IMPORTANT NOTES BEFORE UPGRADING TO THIS RELEASE:

Please see "Fabric Engine Release Notes for version 8.10.0" available at
https://www.extremenetworks.com/support/release-notes for details about upgrading.

UPGRADE CONSIDERATIONS WHEN UPGRADING TO 8.10.1.0 FROM PREVIOUS RELEASES:

Please see "Fabric Engine Release Notes for version 8.10.0" available at
https://www.extremenetworks.com/support/release-notes for details about upgrading.

PLATFORMS SUPPORTED:

Please see "Fabric Engine Release Notes for version 8.10.0" available at
https://www.extremenetworks.com/support/release-notes for details regarding supported platforms.

FILE NAMES FOR THIS RELEASE:

Extreme Switching 5320 Series

File Name	Module or File Type	File Size (bytes)
5320.8.10.1.0_edoc.tar	Logs Reference	64583680
5320.8.10.1.0.md5	MD5 Checksums	470
5320.8.10.1.0_mib_sup.txt	MIB - supported object names	1542846
5320.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124
5320.8.10.1.0_mib.zip	Archive of all MIB files	1231958
5320.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
5320.8.10.1.0.sha512	SHA512 Checksums	1386
5320.8.10.1.0.voss	Software image	115242557
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198
restconf_yang.tgz	YANG model	506020

Extreme Switching 5420 Series

File Name	Module or File Type	File Size (bytes)
5420.8.10.1.0_edoc.tar	Logs Reference	64583680
5420.8.10.1.0.md5	MD5 Checksums	470
5420.8.10.1.0_mib_sup.txt	MIB - supported object names	1541922
5420.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124
5420.8.10.1.0_mib.zip	Archive of all MIB files	1231958
5420.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
5420.8.10.1.0.sha512	SHA512 Checksums	1386
5420.8.10.1.0.voss	Software image	114932535
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198

File Name	Module or File Type	File Size (bytes)
restconf_yang.tgz	YANG model	506020

Extreme Switching 5520 Series

File Name	Module or File Type	File Size (bytes)
5520.8.10.1.0_edoc.tar	Logs Reference	64583680
5520.8.10.1.0.md5	MD5 Checksums	470
5520.8.10.1.0_mib_sup.txt	MIB - supported object names	1540760
5520.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124
5520.8.10.1.0_mib.zip	Archive of all MIB files	1231958
5520.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
5520.8.10.1.0.sha512	SHA512 Checksums	1386
5520.8.10.1.0.voss	Software image	121186588
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198
restconf_yang.tgz	YANG model	506020

Extreme Switching 5720 Series

File Name	Module or File Type	File Size (bytes)
5720.8.10.1.0_edoc.tar	Logs Reference	64583680
5720.8.10.1.0.md5	MD5 Checksums	603
5720.8.10.1.0_mib_sup.txt	MIB - supported object names	1547631
5720.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124
5720.8.10.1.0_mib.zip	Archive of all MIB files	1231958
5720.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
5720.8.10.1.0.sha512	SHA512 Checksums	1711
5720.8.10.1.0.voss	Software image	322248972
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198
FabricIPSecGW_VM_5.2.0.0.ova	Fabric Ipsec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu20.04_04_14Apr2022.qcow2	Third Party Virtual Machine (TPVM)	4641982464

Extreme Switching 7520 Series

File Name	Module or File Type	File Size (bytes)
7520.8.10.1.0_edoc.tar	Logs Reference	64583680
7520.8.10.1.0.md5	MD5 Checksums	603
7520.8.10.1.0_mib_sup.txt	MIB - supported object names	1543706
7520.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124

File Name	Module or File Type	File Size (bytes)
7520.8.10.1.0_mib.zip	Archive of all MIB files	1231958
7520.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
7520.8.10.1.0.sha512	SHA512 Checksums	1711
7520.8.10.1.0.voss	Software image	322559562
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198
FabricIPSecGW_VM_5.2.0.0.ova	Fabric Ipsec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu20.04_04_14Apr2022.qcow2	Third Party Virtual Machine (TPVM)	4641982464

Extreme Switching 7720 Series

File Name	Module or File Type	File Size (bytes)
7720.8.10.1.0_edoc.tar	Logs Reference	64583680
7720.8.10.1.0.md5	MD5 Checksums	603
7720.8.10.1.0_mib_sup.txt	MIB - supported object names	1541893
7720.8.10.1.0_mib.txt	MIB - objects in the OID compile order	8242124
7720.8.10.1.0_mib.zip	Archive of all MIB files	1231958
7720.8.10.1.0_oss-notice.html	Open-source software - Master copyright file	2785868
7720.8.10.1.0.sha512	SHA512 Checksums	1711
7720.8.10.1.0.voss	Software image	322558698
FabricEnginev8.10.0_HELP_EDM_gzip.zip	EDM Help file	5062198
FabricIPSecGW_VM_5.2.0.0.ova	Fabric Ipsec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_Ubuntu20.04_04_14Apr2022.qcow2	Third Party Virtual Machine (TPVM)	4641982464

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 7720.8.10.1.0.voss
software activate 8.10.1.0.GA
```

```
or

software add 7520.8.10.1.0.voss
software activate 8.10.1.0.GA

or

software add 5720.8.10.1.0.voss
software activate 8.10.1.0.GA

or

software add 5520.8.10.1.0.voss
software activate 8.10.1.0.GA

or

software add 5420.8.10.1.0.voss
software activate 8.10.1.0.GA

or

software add 5320.8.10.1.0.voss
software activate 8.10.1.0.GA
```

COMPATIBILITY:

This software release is managed with Enterprise Device Manager (EDM), which is integrated into the agent software.

CHANGES IN THIS RELEASE:

New Features in This Release
Fabric Extend Integration with ExtremeCloud SD-WAN
If you have remote branch sites with only Internet connectivity and you want to extend the capabilities of fabric to that site, or if you have a branch office with a private WAN connection and you want to have a backup link using the public Internet, you can extend the Fabric network over the Internet towards a remote branch by connecting Fabric switches through ExtremeCloud SD-WAN. Complete documentation available in 8.10 User Guide • VOSS 8.10 User Guide or • Fabric Engine 8.10 User Guide

OSPFv3 Support for CLIP Interfaces

You can configure the Open Shortest Path First Version 3 (OSPFv3) instance on circuitless IP (CLIP) interfaces for the Global Router or a specific Virtual Router Forwarding (VRF) instance. The switch supports a maximum of 64 OSPFv3 CLIP interfaces.

- You have to perform two-steps of configuration to send intra-area-prefix-LSA of the new OSPFv3 instance to the neighbors:
  1. User creates OSPFv3 instance using CLIP interface,
  2. User enables that instance of OSPFv3.

CLI updates:

- The following commands were added under Loopback interface configuration in order to support OSPFv3:

    ```
    (config)# interface loopback 11
    ```

- Create / Delete the OSPFv3

    ```
    ipv6 ospf [PT_INT<1-256>(Interface id value)] area <PT_IPADDR(ip address)>
    no ipv6 ospf [PT_INT<1-256>(Interface id value)]
    ```

Note: for create need to specify the desired area from the associated VRF area list

- OSPFv3-CLIP interface enable (transition interface state from DOWN to LOOPBACK) / disable

    ```
    [no] ipv6 ospf [PT_INT<1-256> (Interface id value)] enable
    ```

EDM Update:

Ability to view all cli users with a single cli command

The "`show cli username`" cli command has been enhanced to display all cli user names available on the switch.

- **Old behavior:**

```
# show cli username
===========================================================
UserName AccessLevel State Type
===========================================================
ro ro enable default
rw rw enable default
rwa rwa NA default



# show cli password
access-level
aging 90

min-passwd-len 10
password-history 3
password-hashing sha2

ACCESS LOGIN STATE
l3 l3 ena
l2 l2 ena
l1 l1 ena
Default Lockout Time 60
Default Lockout Retries 3
Lockout-Time:
IP Time
```

- **New behavior:**

```
# show cli username
===========================================================
UserName AccessLevel State Type
===========================================================
ro ro enable default
rw rw enable default
rwa rwa NA default
l3 l3 enable default
l2 l2 enable default
l1 l1 enable default



# show cli password
access-level
aging 90

min-passwd-len 10
password-history 3
password-hashing sha2

Default Lockout Time 60
Default Lockout Retries 3
Lockout-Time:
IP Time
```

DvR-VRRP Coexistence (DvR-leaf – regular BEB interop) on Multi-area Boundary Nodes

By using VRRP advertisements on the DvR VLAN and I-SID, DvR Controllers can now route traffic that enters on the network-to-network interface (NNI) if a Layer 2 Virtual Service Network (VSN) spans outside of the DvR domain. This feature was first introduced in release version 8.8 and the capability is now supported on Multi-area Boundary Nodes.
 	
Documentation available in 8.8 User Guide and Release Notes
   • VOSS 8.8 User Guide
   • VOSS 8.8 Release Notes

Old Features Removed From This Release
None

Problems Resolved in This Release	
VOSS-26181	NEAP clients are still authenticated after 'action flushMacFdb"
VOSS-27873	Improved the debug information for a rare case when a BCM TX thread remains stuck, causing an unexpected reboot
VOSS-28235	MAC Address visible on wrong port on a MAC security enabled switch
VOSS-28296	System is not prompting for OLD password verification for users RO, L1, L2, L3 and RW on units that were upgraded
VOSS-28314	After a self-generated nick-name is configured, WARNING No nickname received for 60 seconds should no longer appear
VOSS-28319	Disable learning for LLDP packet source address.
VOSS-28395 VOSS-28393	EDM Enhancement - ISIS MTU parameter per logical interface replaces MTU per logical interface on non-XA1400 platforms.
VOSS-28435	No space left on intflash when runprof file oversized due to IPFix collector being unreachable
VOSS-28441	Unsupported standard BGP OIDs present in our MIB file.
VOSS-28458	PoE stops working on 5420 ports and recover after reboot
VOSS-28482	Layer 3 access-level permits change to Web username/password
VOSS-28548	VSA for Extreme-Dynamic-ACL cores node
VOSS-28559	Switch rebooted twice after show core-file and during show fulltech when allcores.txt file got corrupted
VOSS-28604	Switch unexpectedly reboots due to a memory leak
VOSS-28627	5320-24 Able to boot to a config with IP assigned to two VRF's
VOSS-28676	Cannot change passwords for custom users when hashing is SHA2
VOSS-28703	VLAN with LACP enabled port remains down despite port being up
VOSS-28763	show ip igmp interface showing VLAN listed in both GRT as well as in VRF
VOSS-28800	Not prompting for old password when changing it
VOSS-28832	Fail to change password for default RO account when using maximum length password.
VOSS-28838	Can't delete SNMP server community due to corrupted snmp_comm_moc.txt file
VOSS-28843	DVR: ECMP: Inter domain host routes sometimes utilize stale ECMP egress records
VOSS-29006	Consistency check improvements: RSMLT cannot be set when an IP interface is disabled and when IP RSMLT is set, IP interface cannot be disabled.

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Fixes from Previous Releases

Fabric Engine 8.10.1.0 incorporates all fixes from prior releases, up to and including VOSS 8.4.3.0, VOSS 8.5.4.0, Fabric Engine 8.6.1.2, Fabric Engine 8.7.0.1, Fabric Engine 8.8.2.0, Fabric Engine 8.9.0.0 and Fabric Engine 8.10.0.0.

OUTSTANDING ISSUES:

Please see "Fabric Engine Release Notes for version 8.10.0" available at
https://www.extremenetworks.com/support/release-notes for details regarding Known Issues.

KNOWN LIMITATIONS:

Please see "Fabric Engine Release Notes for version 8.10.0" 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/

By Email: support@extremenetworks.com

By Web: www.extremenetworks.com/support/

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