

Customer Release Notes

VSP Operating System Software

Software Release 8.5.3.0

November 2022

INTRODUCTION:

This document provides specific information for version 8.5.3.0 of agent software for the VSP Operating System Software.

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 VOSS 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:

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

IMPORTANT NOTES BEFORE UPGRADING TO THIS RELEASE:

If upgrading systems from either release 4.2.1.0 or release 4.2.1.1 that have ISIS enabled link(s) configured with HMAC-MD5 authentication, then you need to perform the procedure described in the section **SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES** in order to avoid potential network connectivity loss.

If upgrading systems running 4.1.X releases which also have TACACS+ enabled, refer to the section **SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES** for upgrade instructions.

If upgrading systems running 6.0.x releases or older, refer to the section **SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES** for instructions about the need to step-through a 6.1.x release prior to going to 7.1.x release.

If upgrading systems running versions prior to 8.5.3.0, refer to the section **SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES** for instructions about the possible need to renumber VRRP instances.

UPGRADE CONSIDERATIONS WHEN UPGRADING TO 8.5.3.0 FROM PREVIOUS RELEASES:

For DVR deployments refer also to Outstanding Issues Section before upgrading.

If you have a VLAN with VRRP instance of 37 provisioned and functional on a node running with several other VLANs with DvR enabled, upon upgrade to 8.5.3.0, VRRP configuration for instance 37 is removed from that VLAN. This would result in traffic loss for members of that VLAN. Recommend renumbering the VRRP instance IDs to values other than 37 and 38 on that VLAN before upgrading. DvR uses the same multicast addresses as VRRP ID 37 and 38 for its DvR controller and leaf implementation.

PLATFORMS SUPPORTED:

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.5.0 available at <https://www.extremenetworks.com/support/release-notes> for details regarding supported platforms.

SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES:

- I. The following procedure should be followed when upgrading systems running one of the following two releases, 4.2.1.0 or 4.2.1.1 which also have ISIS enabled links with HMAC-MD5 authentication on:

Disable ISIS authentication throughout the network a system at a time, a link at a time by disabling it on either side of each link, ensuring the link is stable before moving to the next. When a system has been reconfigured free of ISIS HMAC-MD5 authentication in all of its links, save the configuration file and perform the upgrade to release 4.2.3.0 or greater. After all these systems have been upgraded to release 4.2.3.0 or greater, you may re-enable authentication a system at a time, a link at a time and save the configuration file in each of the involved systems.

Example:

```
VSP:1(config)#interface gigabitethernet x/y
VSP:1(config-if)#no isis hello-auth
VSP:1(config-if)#save config
VSP:1(config-if)# PERFORM THE UPGRADE
VSP:1(config)#interface gigabitethernet x/y
VSP:1(config-if)# isis hello-auth type hmac-md5 key <keyname> [key-id
<keyed>]
VSP:1(config-if)#save config
```

- II. The following procedure should be followed when upgrading systems running 4.1.X releases which also have TACACS+ enabled on:

When you upgrade from VOSS 4.1.X to VOSS 4.2 or a higher release, the TACACS+ host configurations will be lost. After the upgrade, the TACACS+ host configurations will not take effect so you must reconfigure them. After you make the configurations, you must save the changes on the device. You should also save the configuration to a file to retain the configuration settings.

- III. Upgrading DvR configurations from releases 6.0.1.1 and earlier to 6.0.1.2 and beyond.
 - a. All DvR nodes must be upgraded to the same release.
 - b. All DvR leaves should be upgraded first.
- IV. Upgrading from releases 6.0.x and earlier
 - a. Direct upgrade from 6.0.x or earlier releases to 7.x+ releases is not supported.

- b. Please upgrade to a 6.1.x release first (Release 6.1.6.0). Then upgrade to the desired 7.x+ release (Release 7.1.10.0 recommended).

Review items V, VI, and VII if the ISIS L1 area is `00.1515.fee1.900d.1515.fee1.900d`, `00.0000.0000` or all zero's.

- V. Legacy ZTF Procedures for Releases 7.0.0.0 - 7.1.2.0, 8.0.0.0, 8.0.1.0, and 8.0.5.0
- a. Boot with factory-defaults fabric.
 - b. ISIS manual-area set to `00.0000.0000`, Dynamically Learned Area (DLA) displayed as `00.0000.0000` and ISIS enabled with other parameters.
 - c. HELLO PDUs not sent.
 - d. Listen on active ISIS interfaces for ISIS HELLO with non-zero Area ID. Zeros of any length up to 13 bytes are considered a zero value.
 - e. When an ISIS HELLO with a non-zero Area ID is received, use that area ID as the DLA and start sending HELLO with DLA on all ISIS interfaces.
 - f. DLA set and displayed as learned in the previous step.
 - g. Saving the configuration will save into the configuration file `manual-area 00.0000.0000`.
 - h. Boot with the saved configuration. The ZTF procedures are triggered. ISIS interfaces in passive mode not sending ISIS HELLOs. Only process incoming ISIS HELLO with non-zero Area ID.

Note: You can reach the fourth step by manually configuring the ISIS/SPBM with a manual-area equal to 0 (all values of 0, regardless of the length of zeros, are considered the same) and enabling ISIS.

- VI. Modified ZTF Procedures for Releases 7.1.3.0+ and 8.0.6.0+
- a. Boot with factory-defaults fabric
 - b. ISIS manual-area set to `00.1515.fee1.900d.1515.fee1.900d`, Dynamically Learned Area (DLA) is blank and ISIS enabled with other parameters.
 - c. HELLO PDUs not sent
 - d. Listen on active ISIS interfaces for ISIS HELLO with and Area ID not equal to `00.1515.fee1.900d.1515.fee1.900d`.
 - e. When an ISIS HELLO with an Area ID not equal to `00.1515.fee1.900d.1515.fee1.900d` is received, use that Area ID as the DLA and start sending HELLO with DLA on all ISIS interfaces.
 - f. DLA set and displayed as learned in the previous step.
 - g. Saving the configuration file will save into the configuration file `manual-area 00.1515.fee1.900d.1515.fee1.900d`.
 - h. Boot with the saved configuration. ZTF procedures are triggered. ISIS interfaces in passive mode not sending ISIS HELLO's, only processing incoming ISIS HELLO with an Area ID note equal to `00.1515.fee1.900d.1515.fee1.900d`.

Note: You can reach the fourth step by manually configuring the ISIS/SPBM with a manual-area equal to `00.1515.fee1.900d.1515.fee1.900d` and enabling ISIS.

- VII. Migration to a Release supporting Modified ZTF such as 7.1.3.0+ or 8.0.6.0+
- a. From Pre-ZTF feature Release such as 6.1.6.0

The following considerations should be taken into account when upgrading to this release from a pre-ZTF release:

- i. Check the ISIS manual area (show isis manual-area).

- ii. Determine if the manual area equals 00.1515.fee1.900d.1515.fee1.900d.
- iii. This is a normal Area ID before the upgrade. After the upgrade, ZTF procedures, as previously described, will be triggered.
 - If the existing behavior is desired, the ISIS manual area used in the network needs to be changed to a different value. Note, if ISIS is the management network used to get to the node, it will not form an ISIS adjacency after the upgrade and not join the network. This will isolate the node. The changes to the manual area within the topology should be made before any upgrades are performed.

b. From a Release Running Legacy ZTF such as 7.1.2.0

The following considerations should be taken into account when upgrading to a release supporting Modified ZTF from a Legacy ZTF release.

- Check the ISIS manual area (show isis manual-area).
- Determine if the manual area equals 00.0000.0000 or is a 00 of any length.
- This Area ID triggered the ZTF procedures before the upgrade. After the upgrade, ZTF procedures, as previously described, will NOT be triggered.
- If the existing behavior is desired, replace the value of ISIS manual area with 00.1515.fee1.900d.1515.fee1.900d. Note, if ISIS is the management network used to get to the node, it will not form an ISIS adjacency after the upgrade and not join the network. This will isolate the node. The change should be made before the upgrade.
- Determine if the manual area equals 00.1515.fee1.900d.1515.fee1.900d.
 - This is a normal Area ID before the upgrade. After the upgrade to a release implementing
- Modified ZTF, the ZTF procedures, as previously described, will be triggered.
- If this is not desired, replace the value of ISIS manual area with a different value. Note, if ISIS is the management network used to get to the node, it will not form an ISIS adjacency after the upgrade and not join the network. This will isolate the node. The change should be made before the upgrade.

NOTES FOR UPGRADE:

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.5.0 available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Limitations.

FILE NAMES FOR THIS RELEASE:

ExtremeAccess 1400 Series

File Name	Module or File Type	File Size (bytes)
VOSS1400.8.5.3.0_edoc.tar	Logs Reference	63979520
VOSS1400.8.5.3.0.md5	MD5 Checksums	424
VOSS1400.8.5.3.0_mib_sup.txt	MIB - supported object names	1140608
VOSS1400.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS1400.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS1400.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384

File Name	Module or File Type	File Size (bytes)
VOSS1400.8.5.3.0_edoc.tar	Logs Reference	63979520
VOSS1400.8.5.3.0.sha512	SHA512 Checksums	1247
VOSS1400.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	326356010
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 4400 Series

File Name	Module or File Type	File Size (bytes)
restconf_yang.tgz	YANG model	506020
VOSS4400.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS4400.8.5.3.0.md5	MD5 Checksums	476
VOSS4400.8.5.3.0_mib_sup.txt	MIB - supported object names	1482261
VOSS4400.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS4400.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS4400.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS4400.8.5.3.0.sha512	SHA512 Checksums	1395
VOSS4400.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	112819340
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 4900 Series

File Name	Module or File Type	File Size (bytes)
FabricIPSecGW_VM_5.2.0.0.ova	Fabric Ipsec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020
TPVM_4900_8.4.0.0.img	Third Party Virtual Machine (TPVM)	1677066240
VOSS4900.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS4900.8.5.3.0.md5	MD5 Checksums	595
VOSS4900.8.5.3.0_mib_sup.txt	MIB - supported object names	1506037
VOSS4900.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS4900.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS4900.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS4900.8.5.3.0.sha512	SHA512 Checksums	1706
VOSS4900.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	260967992
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Extreme Switching 5420 Series

File Name	Module or File Type	File Size (bytes)
5420.8.5.3.0_edoc.tar	Logs reference	63979520
5420.8.5.3.0.md5	MD5 Checksums	453
5420.8.5.3.0_mib_sup.txt	MIB - supported object names	1501278

File Name	Module or File Type	File Size (bytes)
5420.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
5420.8.5.3.0_mib.zip	Archive of all MIB files	1212665
5420.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
5420.8.5.3.0.sha512	SHA512 Checksums	1368
5420.8.5.3.0.voss	Release 8.5.3.0 archived software distribution	99009285
restconf_yang.tgz	YANG model	506020
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Extreme Switching 5520 Series

File Name	Module or File Type	File Size (bytes)
5520.8.5.3.0_edoc.tar	Logs reference	63979520
5520.8.5.3.0.md5	MD5 Checksums	453
5520.8.5.3.0_mib_sup.txt	MIB - supported object names	1501835
5520.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
5520.8.5.3.0_mib.zip	Archive of all MIB files	1212665
5520.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
5520.8.5.3.0.sha512	SHA512 Checksums	1368
5520.8.5.3.0.voss	Release 8.5.3.0 archived software distribution	102473414
restconf_yang.tgz	YANG model	506020
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
restconf_yang.tgz	YANG model	506020
VOSS7200.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS7200.8.5.3.0.md5	MD5 Checksums	476
VOSS7200.8.5.3.0_mib_sup.txt	MIB - supported object names	1446753
VOSS7200.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS7200.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS7200.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS7200.8.5.3.0.sha512	SHA512 Checksums	1395
VOSS7200.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	127586655
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 7400 Series

File Name	Module or File Type	File Size (bytes)
FabricIPSecGW_VM_5.2.0.0.ova	Fabric Ipsec Gateway Virtual Machine	4034211840
restconf_yang.tgz	YANG model	506020

File Name	Module or File Type	File Size (bytes)
TPVM_7400_8.4.0.0.img	Third Party Virtual Machine (TPVM)	1677066240
VOSS7400.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS7400.8.5.3.0.md5	MD5 Checksums	595
VOSS7400.8.5.3.0_mib_sup.txt	MIB - supported object names	1499439
VOSS7400.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS7400.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS7400.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS7400.8.5.3.0.sha512	SHA512 Checksums	1706
VOSS7400.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	260657367
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 8200 Series

File Name	Module or File Type	File Size (bytes)
restconf_yang.tgz	YANG model	506020
VOSS8200.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS8200.8.5.3.0.md5	MD5 Checksums	476
VOSS8200.8.5.3.0_mib_sup.txt	MIB - supported object names	1446753
VOSS8200.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS8200.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS8200.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS8200.8.5.3.0.sha512	SHA512 Checksums	1395
VOSS8200.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	127586887
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

Virtual Services Platform 8400 Series

File Name	Module or File Type	File Size (bytes)
restconf_yang.tgz	YANG model	506020
VOSS8400.8.5.3.0_edoc.tar	Logs reference	63979520
VOSS8400.8.5.3.0.md5	MD5 Checksums	476
VOSS8400.8.5.3.0_mib_sup.txt	MIB - supported object names	1446753
VOSS8400.8.5.3.0_mib.txt	MIB - objects in the OID compile order	8104099
VOSS8400.8.5.3.0_mib.zip	Archive of all MIB files	1212665
VOSS8400.8.5.3.0_oss-notice.html	Open source software - Master copyright file	2781384
VOSS8400.8.5.3.0.sha512	SHA512 Checksums	1395
VOSS8400.8.5.3.0.tgz	Release 8.5.3.0 archived software distribution	190311217
VOSSv850_HELP_EDM_gzip.zip	EDM Help file	5066214

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 VOSS1400.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add VOSS4400.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add VOSS4900.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add 5420.8.5.3.0.voss
software activate 8.5.3.0.GA
```

or

```
software add 5520.8.5.3.0.voss
software activate 8.5.3.0.GA
```

or

```
software add VOSS7200.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add VOSS7400.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add VOSS8200.8.5.3.0.tgz
software activate 8.5.3.0.GA
```

or

```
software add VOSS8400.8.5.3.0.tgz
software activate 8.5.3.0.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

None.

Old Features Removed From This Release

None.

Problems Resolved in This Release

VOSS-25908	VSP8400: After outage many ports remained down on one node and up on remote end of 10G copper link.
VOSS-25909	VSP8400: After outage many ports looked up but would not pass any traffic.
VOSS-26257	5520 switch is not routing the traffic on one VLAN only, after recovering from a power outage
VOSS-26369	Static routes are still active when BFD session is down
VOSS-26523	VSP 4450 crashed with the following log message preceding the crash: "GlobalRouter ISIS INFO DelSender: srcPtr->ptrToDisid is not NULL"
VOSS-26619	In Multi-Area VIST mode, a packet loss to various VoIP IPs was encountered after migrating connections from ERS4850
VOSS-26783	After disabling ECMP, ISIS may fail to remove the ECMP routes.
VOSS-26789	The switch is not reachable via SSH when upgraded to NLS build
VOSS-26794	Transition from onboarding net to final radius assigned ISID does not always work
VOSS-26816	XA1400: VRF name of "ip-tunnel-source-address" got corrupted after a power glitch
VOSS-26817	XA1400: QoS traffic not entering the correct internal QoS queue for FE tunnel
VOSS-26832	iBGP skipping lowest IGP cost for best path selection when ISIS SPBM is used
VOSS-26928	IP Shortcut routes missing from RTM after bootup
VOSS-26930	Link on 10GigBiDi40KM SFPs between VSP 7254 and VSP 7448 either is flapping or does not come up until shut/no shut
VOSS-26948	An unexpected reboot was encountered due to a memory depletion when the SSH X509 authentication is used
VOSS-26950	An unexpected reboot was encountered due to a flaw in ARP processing for secondary SPB VLAN
VOSS-26969	DHCP option 78 not received by AP when behind a 5420 with NEAP enabled
VOSS-26972	Valid Evaluation PLDS Premier license stopped working after switch reboot
VOSS-27004	After reboot default SNMPv3 group "initial" becomes active even though deleted before reboot
VOSS-27011	An unexpected reboot was encountered after a BGP password disable command
VOSS-27131	The year in the "dir -l -r" command is not shown correct
VOSS-27140	Auto-sense ports get disabled when EDM is used to add/remove ports to auto-sense data VLAN

Fixes from Previous Releases

VOSS 8.5.3.0 incorporates all fixes from prior releases, up to and including VOSS 7.1.10.0, VOSS 8.0.9.0, VOSS 8.1.10.0, VOSS 8.2.8.0, VOSS 8.3.1, VOSS 8.4.3.0 and VOSS 8.5.2.

OUTSTANDING ISSUES:

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.5.0 available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Issues.

VOSS-19471	DVR: Backbone host entry may be incorrectly removed from other DVR domains when a DVR controller in the local domain is taken down. The host entries will be repopulated when the down controller is recovered. Workaround: Clear dvr host entries in the remaining DVR controller in the local domain using this command: <i>clear dvr host-entries ipv4 <IP> I3isid <I-SID></i> or <i>clear dvr host-entries I3isid <I-SID></i> - this could be disruptive in the local domain
VOSS-20030	An interaction between DVR host learning and wireless solutions configured with proxy-ARP and bridging at the AP may create instability within the DVR domain due to specific combinations of roaming events and topology factors. This interaction is exposed when a client roams between AP's connected to different BEB's and both AP's momentarily respond for the client IP on both BEB's (host duplication). These interactions can be avoided by using VRRP instead of DVR for wireless segments.
VOSS-21087	After duplicates hosts are resolved a traffic loss for some hosts may occur Workaround: Clear the dvr host for each impacted individual host entry using this command in the domain in which the host resides: <i>clear dvr host-entries ipv4 <IP> I3isid <I-SID></i>
VOSS-21358	Extended presence of a duplicate host may lead to a DP-CP discrepancy on controllers in other domains after the duplicate is resolved. This may impact traffic originating in the other domains towards the impacted host

KNOWN LIMITATIONS:

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.5.0 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.

VOSS-22530	Certain VOIP phone models may send tagged LLDP frames, or once the MED is sent by VOSS, the phone will begin transmitting tagged LLDP frames. VOSS only supports untagged LLDP frames. For proper LLDP/Auto-sense functionality, the phone must be configured to send untagged LLDP frames only."
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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.
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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