

Customer Release Notes

VSP Operating System Software

Software Release 8.5.4.0 February 2023

INTRODUCTION:

This document provides specific information for version 8.5.4.0 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.

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 8.5.4.0, 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 8.5.4.0 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 8.5.4.0, 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).

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- 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) |
|----------------------------------|--|-------------------|
| VOSS1400.8.5.4.0_edoc.tar | Logs Reference | 63979520 |
| VOSS1400.8.5.4.0.md5 | MD5 Checksums | 424 |
| VOSS1400.8.5.4.0_mib_sup.txt | MIB - supported object names | 1140608 |
| VOSS1400.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS1400.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS1400.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |

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| File Name | Module or File Type | File Size (bytes) |
|----------------------------|--|-------------------|
| VOSS1400.8.5.4.0_edoc.tar | Logs Reference | 63979520 |
| VOSS1400.8.5.4.0.sha512 | SHA512 Checksums | 1247 |
| VOSS1400.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 326349577 |
| 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 |
| VOSS4400.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS4400.8.5.4.0.md5 | MD5 Checksums | 476 |
| VOSS4400.8.5.4.0_mib_sup.txt | MIB - supported object names | 1482261 |
| VOSS4400.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS4400.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS4400.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS4400.8.5.4.0.sha512 | SHA512 Checksums | 1395 |
| VOSS4400.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 112820840 |
| 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 |
| VOSS4900.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS4900.8.5.4.0.md5 | MD5 Checksums | 595 |
| VOSS4900.8.5.4.0_mib_sup.txt | MIB - supported object names | 1506037 |
| VOSS4900.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS4900.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS4900.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS4900.8.5.4.0.sha512 | SHA512 Checksums | 1706 |
| VOSS4900.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 260947804 |
| VOSSv850_HELP_EDM_gzip.zip | EDM Help file | 5066214 |

Extreme Switching 5420 Series

| File Name | Module or File Type | File Size (bytes) |
|--------------------------|------------------------------|-------------------|
| 5420.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| 5420.8.5.4.0.md5 | MD5 Checksums | 453 |
| 5420.8.5.4.0_mib_sup.txt | MIB - supported object names | 1501278 |

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| File Name | Module or File Type | File Size (bytes) |
|------------------------------|--|-------------------|
| 5420.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| 5420.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| 5420.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| 5420.8.5.4.0.sha512 | SHA512 Checksums | 1368 |
| 5420.8.5.4.0.voss | Release 8.5.4.0 archived software distribution | 98814235 |
| 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) |
|------------------------------|--|-------------------|
| 5520.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| 5520.8.5.4.0.md5 | MD5 Checksums | 453 |
| 5520.8.5.4.0 mib sup.txt | MIB - supported object names | 1501835 |
| 5520.8.5.4.0 mib.txt | MIB - objects in the OID compile order | 8104099 |
| 5520.8.5.4.0 mib.zip | Archive of all MIB files | 1212665 |
| 5520.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| 5520.8.5.4.0.sha512 | SHA512 Checksums | 1368 |
| 5520.8.5.4.0.voss | Release 8.5.4.0 archived software distribution | 102293688 |
| 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 |
| VOSS7200.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS7200.8.5.4.0.md5 | MD5 Checksums | 476 |
| VOSS7200.8.5.4.0_mib_sup.txt | MIB - supported object names | 1446753 |
| VOSS7200.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS7200.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS7200.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS7200.8.5.4.0.sha512 | SHA512 Checksums | 1395 |
| VOSS7200.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 127589166 |
| 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 |

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| File Name | Module or File Type | File Size (bytes) |
|----------------------------------|--|-------------------|
| TPVM_7400_8.4.0.0.img | Third Party Virtual Machine (TPVM) | 1677066240 |
| VOSS7400.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS7400.8.5.4.0.md5 | MD5 Checksums | 595 |
| VOSS7400.8.5.4.0_mib_sup.txt | MIB - supported object names | 1499439 |
| VOSS7400.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS7400.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS7400.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS7400.8.5.4.0.sha512 | SHA512 Checksums | 1706 |
| VOSS7400.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 260635875 |
| 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 |
| VOSS8200.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS8200.8.5.4.0.md5 | MD5 Checksums | 476 |
| VOSS8200.8.5.4.0_mib_sup.txt | MIB - supported object names | 1446753 |
| VOSS8200.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS8200.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS8200.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS8200.8.5.4.0.sha512 | SHA512 Checksums | 1395 |
| VOSS8200.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 127586824 |
| 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 |
| VOSS8400.8.5.4.0_edoc.tar | Logs reference | 63979520 |
| VOSS8400.8.5.4.0.md5 | MD5 Checksums | 476 |
| VOSS8400.8.5.4.0 mib_sup.txt | MIB - supported object names | 1446753 |
| VOSS8400.8.5.4.0_mib.txt | MIB - objects in the OID compile order | 8104099 |
| VOSS8400.8.5.4.0_mib.zip | Archive of all MIB files | 1212665 |
| VOSS8400.8.5.4.0_oss-notice.html | Open source software - Master copyright file | 2781384 |
| VOSS8400.8.5.4.0.sha512 | SHA512 Checksums | 1395 |
| VOSS8400.8.5.4.0.tgz | Release 8.5.4.0 archived software distribution | 190310354 |
| 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 VOSS1400.8.5.4.0.tgz
software activate 8.5.4.0.GA
software add VOSS4400.8.5.4.0.tgz
software activate 8.5.4.0.GA
or
software add VOSS4900.8.5.4.0.tgz
software activate 8.5.4.0.GA
or
software add 5420.8.5.4.0.voss
software activate 8.5.4.0.GA
software add 5520.8.5.4.0.voss
software activate 8.5.4.0.GA
software add VOSS7200.8.5.4.0.tgz
software activate 8.5.4.0.GA
or
software add VOSS7400.8.5.4.0.tgz
software activate 8.5.4.0.GA
software add VOSS8200.8.5.4.0.tgz
software activate 8.5.4.0.GA
software add VOSS8400.8.5.4.0.tgz
software activate 8.5.4.0.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-27477 | Retry for RADIUS Reachability Status-Server has wrong MD5 hash | |
| VOSS-27568 | Port 13 egress table full when using redirect-next-hop ACL caused failure to add new ARP records | |

Fixes from Previous Releases

VOSS 8.5.4.0 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 8.3.1.0, VOSS 8.4.3.0 and VOSS 8.5.3.0.

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: clear dvr host-entries ipv4 <ip> I3isid <i-sid> or clear dvr host-entries I3isid <i-sid> - this could be disruptive in the local domain</i-sid></i-sid></ip> |
|------------|--|
| 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: clear dvr host-entries ipv4 <ip> I3isid <i-sid></i-sid></ip> |
| 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." |

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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