

# **Customer Release Notes**

# **VSP Operating System Software**

Software Release 8.2.6.0 Dec 11, 2020

# **INTRODUCTION:**

This document provides specific information for version 8.2.6.0 of agent software for the VSP Operating System Software.

The purpose of this version is to address customer and internally found software issues. This release also includes a couple of minor feature enhancements as indicated in the New in this Release section of this document.

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

**IMPORTANT NOTE**: If you are using Distributed Virtual Routing (DvR) in your network, we recommend that you stay on your current software release until VOSS 8.2.7.0 is available.

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

# **NEW IN THIS RELEASE:**

- 1. Mask password for SNMPv3 user and web passwords in CLI.
- 2. A consistency check was added to prevent configuration of VRRP VRID 37 or 38 when DvR is enabled and vice versa.
- 3. Logging has been updated to accurately notify the user when maximum number of ECMP groups (125) is being reached on 5520. The log messages are:
  - "GlobalRouter COP-SW INFO 85% of ECMP group limit reached: 106" when the 106th ECMP group is created (85% of 125 groups)

and

 "GlobalRouter COP-SW WARNING Total ECMP group limit reached: 125" when the maximum number of 5520 supported ECMP groups is reached (100% of 125 groups)

# **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.

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**Subject to Change Without Notice** 

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.

# **UPGRADE CONSIDERATION WHEN UPGRADING TO 8.2.6.0 FROM PREVIOUS RELEASE:**

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 8.2.6.0, 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:**

Virtual Services Platform 4400 Series

Virtual Services Platform VSP 4450GSX-PWR+

Virtual Services Platform VSP 4450GSX-DC

Virtual Services Platform VSP 4450GTS-DC

Virtual Services Platform VSP 4450GTX-HT-PWR+

Virtual Services Platform 4900 Series

Virtual Services Platform VSP 4900-48P

Virtual Services Platform VSP 4900-12MXU-12XE

Virtual Services Platform VSP 4900-24S

Virtual Services Platform VSP 4900-24XE

Virtual Services Platform 7200 Series

Virtual Services Platform VSP 7254XSQ

Virtual Services Platform VSP 7254XTQ

Virtual Services Platform 7400 Series

Virtual Services Platform VSP 7432CQ Virtual Services Platform VSP 7400-48Y-8C

Virtual Services Platform 8200 Series

Virtual Services Platform 8284XSQ

Virtual Services Platform 8400 Series

Virtual Services Platform 8404

Virtual Services Platform 8404C

ExtremeAccess Platform XA1400 Series

ExtremeAccess Platform 1440

ExtremeAccess Platform 1480

Extreme Switching 5520 Series

5520-24T

5520-24W

5520-48T

5520-48W

5520-12MW-36W

5520-24X

5520-48SE

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# SPECIAL INSTRUCTIONS FOR UPGRADING FROM PREVIOUS RELEASES:

1. 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
```

2. 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.

- 3. 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.
- 4. 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 or higher is recommended). Then upgrade to the desired 7.x+ release (Release 7.1.1.0 or higher recommended).

Review items 5, 6, and 7 if the ISIS L1 area is 00.1515.fee1.900d.1515.fee1.900d, 00.0000.0000 or all zero's.

- 5. 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.

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- 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.

- 6. 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.

- 7. 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.

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- 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 8.2.5 available at <a href="https://www.extremenetworks.com/support/release-notes">https://www.extremenetworks.com/support/release-notes</a> for details regarding Known Limitations.

# FILE NAMES FOR THIS RELEASE:

Virtual Services Platform 4400 Series

File Name	Module or File Type	File Size (bytes)
VOSS4400.8.2.6.0.sha512	SHA512 Checksums	1549
VOSS4400.8.2.6.0.md5	MD5 Checksums	589
VOSS4400.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	112244078
VOSS4400.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS4400.8.2.6.0_mib.txt	MIB file	7793520
VOSS4400.8.2.6.0_mib_sup.txt	MIB file	1413418
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020

#### Virtual Services Platform 4900 Series

File Name	Module or File Type	File Size (bytes)
VOSS4900.8.2.6.0.sha512	SHA512 Checksums	1701
VOSS4900.8.2.6.0.md5	MD5 Checksums	645
VOSS4900.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	244678957
VOSS4900.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS4900.8.2.6.0_mib.txt	MIB file	7793520

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File Name	Module or File Type	File Size (bytes)
VOSS4900.8.2.6.0_mib_sup.txt	MIB file	1436064
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020
TPVM_7400_8.2.6.0.img	Third Party Virtual Machine (TPVM)	1677066240

# Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
VOSS7200.8.2.6.0.sha512	SHA512 Checksums	1549
VOSS7200.8.2.6.0.md5	MD5 Checksums	589
VOSS7200.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	126622603
VOSS7200.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS7200.8.2.6.0_mib.txt	MIB file	7793520
VOSS7200.8.2.6.0_mib_sup.txt	MIB file	1379657
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020

# Virtual Services Platform 7400 Series

File Name	Module or File Type	File Size (bytes)
VOSS7400.8.2.6.0.sha512	SHA512 Checksums	1857
VOSS7400.8.2.6.0.md5	MD5 Checksums	705
VOSS7400.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	244342438
VOSS7400.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS7400.8.2.6.0_mib.txt	MIB file	7793520
VOSS7400.8.2.6.0_mib_sup.txt	MIB file	1430261
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020
TPVM_7400_8.2.6.0.img	Third Party Virtual Machine (TPVM)	1677066240
FIGWVM_7400_8.2.6.0.qcow2	Fabric Ipsec Gateway Virtual Machine	1970339840

# Virtual Services Platform 8200 Series

File Name	Module or File Type	File Size (bytes)
VOSS8200.8.2.6.0.sha512	SHA512 Checksums	1549
VOSS8200.8.2.6.0.md5	MD5 Checksums	589
VOSS8200.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	126626986
VOSS8200.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS8200.8.2.6.0_mib.txt	MIB file	7793520
VOSS8200.8.2.6.0_mib_sup.txt	MIB file	1379657

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File Name	Module or File Type	File Size (bytes)
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020

# Virtual Services Platform 8400 Series

File Name	Module or File Type	File Size (bytes)
VOSS8400.8.2.6.0.sha512	SHA512 Checksums	1549
VOSS8400.8.2.6.0.md5	MD5 Checksums	589
VOSS8400.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	188114534
VOSS8400.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS8400.8.2.6.0_mib.txt	MIB file	7793520
VOSS8400.8.2.6.0_mib_sup.txt	MIB file	1379657
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
restconf_yang.tgz	YANG model	506020

# ExtremeAccess 1400 Series

File Name	Module or File Type	File Size (bytes)
VOSS1400.8.2.6.0.sha512	SHA512 Checksums	1401
VOSS1400.8.2.6.0.md5	MD5 Checksums	537
VOSS1400.8.2.6.0.tgz	Release 8.2.6.0 archived software distribution	322544170
VOSS1400.8.2.6.0_mib.zip	Archive of all MIB files	1172896
VOSS1400.8.2.6.0_mib.txt	MIB file	7793520
VOSS1400.8.2.6.0_mib_sup.txt	MIB file	1086794
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827

# Extreme Switching 5520 Series

File Name	Module or File Type	File Size (bytes)
5520.8.2.6.0.sha512	SHA512 Checksums	1669
5520.8.2.6.0.md5	MD5 Checksums	558
5520.8.2.6.0.voss	Release 8.2.6.0 archived software distribution	99131019
5520.8.2.6.0_mib.zip	Archive of all MIB files	1172896
5520.8.2.6.0_mib.txt	MIB file	7793520
5520.8.2.6.0_mib_sup.txt	MIB file	1435203
VOSSv820_HELP_EDM_gzip.zip	EDM Help file	4414827
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" or ".voss" 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 5520.8.2.6.0.voss
software activate 8.2.6.0.GA
or
software add VOSS4400.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS4900.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS7200.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS7400.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS8200.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS8400.8.2.6.0.tgz
software activate 8.2.6.0.GA
or
software add VOSS1400.8.2.6.0.tgz
software activate 8.2.6.0.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**

- 1. Mask password for SNMPv3 user and web passwords in CLI.
- 2. A consistency check was added to prevent configuration of VRRP VRID 37 or 38 when DvR is enabled.
- 3. Logging has been updated to accurately notify the user when maximum number of ECMP groups (125) is being reached on 5520

#### Old Features Removed From This Release

None.

Problems Resolved in This Release	
VOSS-19135	Cisco IP Phone 7821 does not negotiate to 100M when connected some models of 5520.
VOSS-19253	On 5520 switches, an EAP request packet using 802.1X-2010 Version 3 is not accepted on a port with EAP enabled.
VOSS-19255	For 5520 switches, the output of the show software command displays an incorrect release name for VOSS 8.2.5.
VOSS-19261	For 5520 switches, low is the only valid value for the command boot config flags advanced-featurebandwidth-reservation. (This command enables the switch to support advanced features by reserving ports as loopback ports.) In EDM, both options, low and high, are selectable. However, low is the only valid value.
VOSS-19303	Can't create a static route in GRT with next hop leaked from ISIS.
VOSS-19385	Incorrect handling of certain ARP requests will lead to incorrect programming of the default route on all DVR leaves and DVR controllers.

### **Fixes from Previous Releases**

VOSS 8.2.6.0 incorporates all fixes from prior releases, up to and including VOSS 7.1.7.0, VOSS 8.0.9.0 and VOSS 8.1.7.0.

# **OUTSTANDING ISSUES:**

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.2.5 available at https://www.extremenetworks.com/support/release-notes for details regarding Known Issues.

# **KNOWN LIMITATIONS:**

Please see "Release Notes for VSP Operating System Software (VOSS)" for software release 8.2.5 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.

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# **DOCUMENTATION CORRECTIONS:**

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

# **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: <a href="mailto:support@extremenetworks.com">support@extremenetworks.com</a>

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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