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Customer Release Notes

VSP Operating System Software

Software Release 8.0.9.0
May 2020

INTRODUCTION:

This document provides specific information for version 8.0.9.0 of agent software for the VSP Operating System Software.

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

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:

A consistency check was added to prevent configuration of VRRP VIRD 37 or 38 when DVR is enabled and vice versa.

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.

UPGRADE CONSIDERATION WHEN UPGRADING TO 8.0.9.0 FROM PREVIOUS RELEASE:

If you have a vlan X with vrrp instance of 37 provisioned and functional on a node running with several other vlans with dvr enabled, upon upgrade to 8.0.9.0 VRRP configuration for instance 37 is removed from that vlan X. This would cause traffic loss for those devices of that vlan X. Recommend renumbering the vrrp instance ids to 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 4450 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 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 8000 Series
- Virtual Services Platform 8200
- Virtual Services Platform 8400

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.
   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.

      - 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 8.0 available at https://www.extremenetworks.com/support/release-notes for details regarding Known Limitations.

FILE NAMES FOR THIS RELEASE:

Virtual Services Platform 4450 Series

File Name	Module or File Type	File Size (bytes)
VOSS4K.8.0.9.0.sha512	SHA512 Checksums	1533
VOSS4K.8.0.9.0.md5	MD5 Checksums	573
VOSS4K.8.0.9.0.tgz	Release 8.0.9.0 archived software distribution	123631469
VOSS4K.8.0.9.0_mib.zip	Archive of all MIB files	1145481
VOSS4K.8.0.9.0_mib.txt	MIB file	7593483
VOSS4K.8.0.9.0_mib_sup.txt	MIB file	1328053
VOSSv805_HELP_EDM_gzip.zip	EDM Help file	4108500
restconf_yang.tgz	YANG model	506020

Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
VOSS7K.8.0.9.0.sha512	SHA512 Checksums	1533
VOSS7K.8.0.9.0.md5	MD5 Checksums	573
VOSS7K.8.0.9.0.tgz	Release 8.0.9.0 archived software distribution	137822667
VOSS7K.8.0.9.0_mib.zip	Archive of all MIB files	1145481
VOSS7K.8.0.9.0_mib.txt	MIB file	7593483
VOSS7K.8.0.9.0_mib_sup.txt	MIB file	1330875
VOSSv805_HELP_EDM_gzip.zip	EDM Help file	4108500
restconf_yang.tgz	YANG model	506020

Virtual Services Platform 7400 Series

File Name	Module or File Type	File Size (bytes)
VOSS7400.8.0.9.0.sha512	SHA512 Checksums	1704
VOSS7400.8.0.9.0.md5	MD5 Checksums	648
VOSS7400.8.0.9.0.tgz	Release 8.0.9.0 archived software distribution	247858806
VOSS7400.8.0.9.0_mib.zip	Archive of all MIB files	1145481
VOSS7400.8.0.9.0_mib.txt	MIB file	7593483
VOSS7400.8.0.9.0_mib_sup.txt	MIB file	1339229
VOSS7400v800_HELP_EDM_gzip.zip	EDM Help file	4088502
restconf_yang.tgz	YANG model	506020
TPVM_7400_8.0.9.0.img	Third Party Virtual Machine (TPVM)	1677066240

Virtual Services Platform 8000 Series

File Name	Module or File Type	File Size (bytes)
VOSS8K.8.0.9.0.sha512	SHA512 Checksums	1533
VOSS8K.8.0.9.0.md5	MD5 Checksums	573
VOSS8K.8.0.9.0.tgz	Release 8.0.9.0 archived software distribution	214171505
VOSS8K.8.0.9.0_mib.zip	Archive of all MIB files	1145481
VOSS8K.8.0.9.0_mib.txt	MIB file	7593483
VOSS8K.8.0.9.0_mib_sup.txt	MIB file	1330875
VOSSv805_HELP_EDM_gzip.zip	EDM Help file	4108500
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 VOSS4K.8.0.9.0.tgz
software activate VOSS4K.8.0.9.0.GA
```

or

```
software add VOSS7K.8.0.9.0.tgz
software activate VOSS7K.8.0.9.0.GA
```

or

```
software add VOSS7400.8.0.9.0.tgz
software activate VOSS7400.8.0.9.0.GA
```

or

```
software add VOSS8K.8.0.9.0.tgz
software activate VOSS8K.8.0.9.0.GA
```

VERSION OF PREVIOUS RELEASE:

Virtual Services Platform 4000 Series

Software version 4.0.0.0, 4.0.0.1, 4.0.0.2, 4.0.0.3, 4.1.0.0, 4.1.0.1, 4.2.0.0, 4.2.0.1, 4.2.1.0, 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP 4450GSX platform

Software Version 4.0.50.0 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP 4450GSX DC and VSP 4450GTS DC platforms

Software Version 4.0.40.0**,** 4.1.0.0, 4.1.0.1, 4.2.0.0, 4.2.0.1, 4.2.1.0 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0 , 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP 4450GTX-HT-PWR+ platform

Virtual Services Platform 7200 Series

Software Version 4.2.1.0, 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0

Virtual Services Platform 7400 Series

Software Version 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP7432CQ platform

Software Version 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP-7400-48Y-8C platform

Virtual Services Platform 8000 Series

Software Version 4.0.0.0, 4.0.1.0, 4.0.1.1, 4.0.1.2, 4.0.1.3, 4.0.1.4, 4.1.0.0, 4.1.0.1, 4.2.0.0, 4.2.0.1, 4.2.1.0, 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP8200 platform

Software Version, 4.2.0.0, 4.2.0.1, 4.2.1.0, 4.2.1.1, 4.2.2.0, 4.2.3.0, 5.0.0.0, 5.0.1.0, 5.1.0.0, 5.1.1.0, 5.1.1.1, 5.1.1.2, 5.1.1.3, 5.1.1.4, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP8404 platform

Software Version, 5.3.0.0, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0, 6.1.5.0, 6.1.6.0, 7.1.0.0, 7.1.0.1, 7.1.1.0, 7.1.2.0 , 8.0.0.0, 8.0.1.0, 8.0.5.0, 8.0.5.1, 8.0.6.0, 8.0.6.1, 8.0.7.0, 8.0.7.2, and 8.0.8.0 for VSP8404c platform

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-16432	EAPOL authentication status in the EDM is not correct (device authenticated, but shows authenticated false)
VOSS-16519	Constant high CPU at %100 (bcmDPC)
VOSS-16792	Unknown unicast traffic is being reflected on IST link when changing sys-ids.
VOSS-16818	DVR leaf node's inband-mgmt-ip can't be reached by mgmt station because GRT default route is not programmed properly.
VOSS-16826	Prevent extended exception handling when carbonate check failure experienced.
VOSS-16843	sysuptime rollover indicates node reset but it did not
VOSS-16845	SMLT SW_UNI replicated Destination lookup failed traffic
VOSS-16869	trace level 9 3 shows mDNS 224.0.0.251 packets ingressing local uni ports while they are coming over vist (NNI port) after local UNI ports disabled.
VOSS-16872	'Missing Secure Flag From SSL Cookie' vulnerability detected
VOSS-16938	Config.cfg file not saved properly.
VOSS-16950	Allow ip-tunnel-source-address command only on 4k
VOSS-16962	Tagged arp packets that arrive at a tagged port that is NOT a match to that vlan member must be dropped
VOSS-17006	A CLI session holding a mutex terminated abnormally so that the mutex wasn't properly released causing coredump.
VOSS-17207	Console and other existing management connections are getting stuck, when new ssh connection is opened and kept in password prompt
VOSS-17271	Incorrect route gets installed after applying/removing a route map to an isis accept i-sid statetment
VOSS-17280	Software Activate blocked if prior software activate command was interrupted while connected via SSH
VOSS-17375	Setting RWAUserName in EDM does not take

OUTSTANDING ISSUES:

Please see “Release Notes for VSP Operating System Software (VOSS)” for software release 8.0 available at https://www.extremenetworks.com/support/release-notes for details regarding Known Limitations.

KNOWN LIMITATIONS:

Please see “Release Notes for VSP Operating System Software (VOSS)” for software release 8.0 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

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By Email: support@extremenetworks.com

By Web: www.extremenetworks.com/support/

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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.

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