

VSP Operating System Software Release 4.2.1.1

1. Release Summary

Release Date: September 2015

Purpose: Software release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

3. Platforms Supported

Virtual Services Platform 4000 Series

Virtual Services Platform VSP 4850GTS

Virtual Services Platform VSP 4850GTS-PWR+

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 8000 Series

Virtual Services Platform 8200

Virtual Services Platform 8400

4. Special Instructions for Upgrade from previous releases

None.

5. Notes for Upgrade

Please see "Release Notes for VSP Operating System" for software release 4.2.1 (NN47227-401, 06.03) available at <http://www.avaya.com/support> for details on how to upgrade your Switch.

File Names For This Release

Virtual Services Platform 4000 Series

File Name	Module or File Type	File Size (bytes)
VOSS4K.4.2.1.1.tgz	Release 4.2.1.1 archived software distribution	110860525
VOSS4K.4.2.1.1_mib.zip	Archive of all MIB files	923544
VOSS4K.4.2.1.1_mib.txt	MIB file	6072204
VOSS4K.4.2.1.1_mib_sup.txt	MIB file	895680
VSP4000v421_HELP_EDM_gzip.zip	EDM Help file	2870067
VSP4000v4.2.1.0.zip	EDM plug-in for v4.2.1.0/vsp4000	4274031
VOSS4K.4.2.1.1.md5	MD5 Checksums	533

Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
VOSS7K.4.2.1.1.tgz	Release 4.2.1.1 archived software distribution	60667973
VOSS7K.4.2.1.1_mib.zip	Archive of all MIB files	923544
VOSS7K.4.2.1.1_mib.txt	MIB file	6072204
VOSS7K.4.2.1.1_mib_sup.txt	MIB file	994270
VOSSv421_HELP_EDM_gzip.zip	EDM Help file	2956707
VOSSv4.2.1.0.zip	EDM plug-in for v4.2.1.0/vsp7200	4375342
VSP7K.4.2.1.1.md5	MD5 Checksums	527

Virtual Services Platform 8000 Series

File Name	Module or File Type	File Size (bytes)
VOSS8K.4.2.1.1.tgz	Release 4.2.1.1 archived software distribution	60673539
VOSS8K.4.2.1.1_mib.zip	Archive of all MIB files	923544
VOSS8K.4.2.1.1_mib.txt	MIB file	6072204

VOSS8K.4.2.1.1_mib_sup.txt	MIB file	994270
VOSSv421_HELP_EDM_gzip.zip	EDM Help file	2956707
VOSSv4.2.1.0.zip	EDM plug-in for v4.2.1.0/vsp8000	4375342
VSP8K.4.2.1.1.md5	MD5 Checksums	527

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.4.2.1.1.tgz
software activate VOSS4K.4.2.1.1.GA
```

or

```
software add VOSS7K.4.2.1.1.tgz
software activate VOSS7K.4.2.1.1.GA
```

or

```
software add VOSS8K.4.2.1.1.tgz
software activate VOSS8K.4.2.1.1.GA
```

6. Version of Previous Release

Virtual Services Platform 4000 Series

Software Version 3.0.0.0, 3.0.1.0, 3.1.0.0, 3.1.0.2, 3.1.0.3, 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 and 4.2.1.0 for VSP 4850GTS platforms

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 and 4.2.1.0 for VSP 4450GSX platform

Software Version 4.0.50.0 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 and 4.2.1.0 for VSP 4450GTX-HT-PWR+ platform

Virtual Services Platform 7200 Series

Software Version 4.2.1.0

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 and 4.2.1.0

7. Compatibility

8. Changes in 4.2.1.1

New Features in This Release

Old Features Removed From This Release

Problems Resolved in This Release

ID	Description
wi01203911	High latency observed in processing ICMP Request and DHCP Relay packets when large number of IP-netbios broadcast packets are received.
wi01205572 wi01221523 wi01221525 wi01221531 wi01231305	Fixes for spoof-detect functionality on VOSS platforms and new commands introduced for spoof-detect: 1.show command added to display all ports on which spoof-detect is enabled. 30:1#show spoof-detect port ----- Spoof Detect Enable Interface -----

	<pre> PORT STATUS ----- 1/9 Enable 1/12 Enable 2.show command added to display all blocked MACs with port and vlan on which they were detected. 30:1#show spoof-detect mac ----- Spoof Detect Blocked Mac Address ----- PORT MAC ADDRESS VLAN ID ----- 1/12 00:00:00:00:bb:bb 100 3.Clear command to unblock MACs blocked due to spoof-detect functionality. 30:1(config)#clear spoof-detect blocked-mac 00:00:00:00:bb:bb </pre>
wi01226710	On VSP7248XSQ, if a copper SFP is exchanged for a fiber SFP, the port may be unable to achieve link without a system reboot.
wi01226817 wi01227294	VSP 4000 GSX DC support
wi01227293	MACSEC Stats are not incrementing on VSP4K GSX-DC
wi01228037	Switch may reset when checking MACsec inbound statistics with EDM
wi01228873	Directed broadcast cannot be disabled on local router.
wi01228887	Directed broadcast is not forwarded to remote VLAN over NNI while using L3VSN service.
wi01229958	Executing traceroute for a local vlan IP address across VRFs causes management functions to stop working until system is reset.
wi01230048 wi01229509	Show all current software detail information: VSP-4450GSX-PWR+:1#show software detail

	<pre> ===== == software releases in /intflash/release/ ===== == VSP4000.4.2.0.2.GA(Backup Release) KERNEL 2.6.32_int38 ROOTFS 2.6.32_int38 APPFS VSP4K.4.2.0.2.GA AVAILABLE ENCRYPTION MODULES No Modules Added VSP4000.4.1.0.0.GA KERNEL 2.6.32_int38 ROOTFS 2.6.32_int38 APPFS VSP4K.4.1.0.0.GA AVAILABLE ENCRYPTION MODULES 3DES AES/DES VOSS4K.4.2.1.1.GA (Primary Release) KERNEL 2.6.32_int38 ROOTFS 2.6.32_int38 APPFS VOSS4K.4.2.1.1.GA AVAILABLE ENCRYPTION MODULES 3DES AES/DES </pre>
wi01230630	ICMP TTL expired messages may not be sent out L3VSN, affecting traceroute.
wi01231217	<p>Spontaneous Reset with Core File On Virtual Services Platform Switches with following error message:</p> <p>SW ERROR Max missed WD feeds for process cbcp-main.xreached: 240, total missed:325 last</p> <p>Refer to PSN PSN004569u for details.</p>
wi01231324 wi01231665	On VSP8000 platforms enabling auto-negotiation on a 10gig port resulted in traffic drop on that link.
wi01231670	<p>Unable to SSH to VOSS Platform running VOSS 4.2.1.0.</p> <p>The following error is seen:</p>

	<p>VSP-8284XSQ:1#ssh 10.139.50.42 -l rwa -p 22 Trying 10.139.50.42 ... Permission denied (publickey,keyboard-interactive).</p> <p>VOSS 4.1.0.0 and VOSS 4.2.0.0 SSH server and SSH clients support password authentication mode. VOSS 4.2.1.0 changed the SSH server from password authentication to keyboard-interactive. VOSS 4.2.1.0 changed the SSH client to automatically support either password authentication or keyboardinteractive mode.</p> <p>In VOSS 4.2.1.0, you cannot configure the SSH server to support password authentication. This limitation creates a backward compatibility issue for SSH clients that do not support keyboardinteractive mode, including SSH clients that are part of pre-VOSS 4.2.1.0 software releases. For example, VOSS 4.1.0.0 SSH clients, VOSS 4.2.0.0 SSH clients, and external SSH clients that only support password authentication cannot connect to VOSS 4.2.1.0 SSH servers. This issue is addressed in this release by making the default mode of the SSH server back to password authentication.</p>
wi01231998	Qualys testing causes TCP sessions to be stuck in "closeWait" state locking management access to switch.

9. Outstanding Issues

Please see “Release Notes for VSP Operating System” for software release 4.2.1 (NN47227-401, 06.03) available at <http://www.avaya.com/support> for details regarding Known Issues.

In addition, the following issues have been identified:

ID	Problem Description	Workaround
wi01192436	MLT up/down trap is not sent when first port of the MLT transitions up or last port of the MLT transitions down.	Log messages of the MLT up and down events are written and sent to syslog servers if configured.
wi01222120	On VSP 8000 Series platforms IPv4 Filters with redirect next hop action is not forwarding when a default route is not present or a VLAN common to ingress VLAN of the filtered packet is not present.	Configure a default route if possible.

10. Known Limitations

Please see “Release Notes for VSP Operating System” for software release 4.2.1 (NN47227-401, 06.03) available at <http://www.avaya.com/support> for details regarding Known Limitations.

The VSP8284XSQ platform may experience a watchdog timeout induced reset when a momentary power loss to the system occurs. In this situation the datapath has been reinitialized even though there is enough power left in the system for the Control Plane to generate a core dump. The reset is needed for the system to be fully functional again. Using a UPS is recommended to mitigate momentary power interruption.

11. Documentation Corrections

For other known issues, please refer to the product release notes and technical documentation available from the Avaya Technical Support web site at: <http://www.avaya.com/support> .

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