

VSP Operating System Software Release 5.1.1.6

1. Release Summary

Release Date: April 2017

Purpose: Software release to address customer found software issues.

2. 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 section (4) below in order to avoid potential network connectivity loss.

If upgrading systems running 4.1.X releases which also have TACACS+ enabled refer to section 4 for upgrade instructions.

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

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.

5. Notes for Upgrade

Please see "Release Notes for VSP Operating System" for software release 5.1.1 (NN47227-401, 09.04) 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.5.1.1.6.tgz	Release 5.1.1.6 archived software distribution	97257232
VOSS4K.5.1.1.6_mib.zip	Archive of all MIB files	996418
VOSS4K.5.1.1.6_mib.txt	MIB file	6681002
VOSS4K.5.1.1.6_mib_sup.txt	MIB file	987668
VSP4000v511_HELP_EDM_gzip.zip	EDM Help file	2996205
VSP4000v5.1.1.6.zip	EDM plug-in for v5.1.1.6/vsp4000	4503221
VOSS4K.5.1.1.6.md5	MD5 Checksums	533

Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
VOSS7K.5.1.1.6.tgz	Release 5.1.1.6 archived software distribution	62824566
VOSS7K.5.1.1.6_mib.zip	Archive of all MIB files	996418
VOSS7K.5.1.1.6_mib.txt	MIB file	6681002
VOSS7K.5.1.1.6_mib_sup.txt	MIB file	980646
VOSSv511_HELP_EDM_gzip.zip	EDM Help file	3017523
VOSSv5.1.1.6.zip	EDM plug-in for v5.1.1.6/vsp7200	4637184
VSP7K.5.1.1.6.md5	MD5 Checksums	527

Virtual Services Platform 8000 Series

File Name	Module or File Type	File Size (bytes)
VOSS8K.5.1.1.6.tgz	Release 5.1.1.6 archived software distribution	62821455
VOSS8K.5.1.1.6_mib.zip	Archive of all MIB files	996418
VOSS8K_5.1.1.6_mib.txt	MIB file	6681002
VOSS8K.5.1.1.6_mib_sup.txt	MIB file	980646
VOSSv511_HELP_EDM_gzip.zip	EDM Help file	3017523
VOSSv5.1.1.6.zip	EDM plug-in for v5.1.1.6/vsp8000	4637184
VSP8K.5.1.1.6.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.5.1.1.6.tgz
software activate VOSS4K.5.1.1.6.GA
```

or

```
software add VOSS7K.5.1.1.6.tgz
software activate VOSS7K.5.1.1.6.GA
```

or

```
software add VOSS8K.5.1.1.6.tgz
software activate VOSS8K.5.1.1.6.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, 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 and 5.1.1.5 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, 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 and 5.1.1.5 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 and 5.1.1.5 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 and 5.1.1.5 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 and 5.1.1.5

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 and 5.1.1.5 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 and 5.1.1.5 for VSP8400 platform

7. Compatibility

8. Changes in 5.1.1.6

New Features in This Release

Old Features Removed From This Release

Problems Resolved in This Release

ID	Description
VOSS-6377	Traffic loss between VOSS systems that have adjacent FE tunnels.
VSP8000-183	<p>Adding a new SPB node into network causes OSPF adjacencies to fail on interfaces where ISIS adjacency is okay. This is a symptom of generic SPB network node scaling limits exceeded. Increased scaling limits:</p> <p><u>Fabric Scaling numbers:</u></p> <ul style="list-style-type: none">• A fabric that has VSP4850/VSP4450 should be limited to 550 fabric nodes.• A fabric that has VSP8200/VSP7200/VSP8400 should be limited to 800 fabric nodes.<ul style="list-style-type: none">○ An I-SID (L2VSN or L3VSN) that is configured on a VSP8200/VSP7200/VSP8400 should not be configured on more than 500 fabric nodes in the fabric.

9. Outstanding Issues

Please see “Release Notes for VSP Operating System” for software release 5.1.1 (NN47227-401, 09.04) available at <http://www.avaya.com/support> for details regarding Known Issues.

In addition, the following issues have been identified:

ID	Problem Description	Workaround
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10. Known Limitations

Please see “Release Notes for VSP Operating System” for software release 5.1.1 (NN47227-401, 09.04) 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.

Regular cleanup of unneeded files on USB drives is recommended to minimize possibility of USB corruption when a system is reset, shutdown or power is lost.

Firefox 38 introduced more stringent crypto cipher requirements. If using versions 38 or higher please set the Firefox user configuration to enable fallback to RC4. The use of RC4 cipher is not supported starting Firefox 50. Otherwise use older version of Firefox or other supported browsers.

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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