

# Virtual Services Platform 4000 Series and 8000 Series Software Release 4.2.0.2

## **1. Release Summary**

Release Date: June 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 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 Avaya Virtual Services Platform 4000 Series and 8000 Series” for software release 4.2 (NN47227-401, 05.01) 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)
VSP4K.4.2.0.2.tgz	Release 4.2.0.2 archived software distribution	110554281
VSP4K.4.2.0.2_mib.zip	Archive of all MIB files	899164

VSP4K.4.2.0.2_mib.txt	MIB file	5915184
VSP4K.4.2.0.2_mib_sup.txt	MIB file	886614
VSP4000v4.10_HELP_EDM_gzip.zip	EDM Help file	2773914
VSP4000v4.2.0.0.zip	EDM plug-in for v4.2.0.0/vsp4000	4165674
VSP4K.4.2.0.2.md5	MD5 Checksums	392

File Name	Module or File Type	File Size (bytes)
VSP8K.4.2.0.2.tgz	Release 4.2.0.2 archived software distribution	60402340
VSP8K.4.2.0.2_mib.zip	Archive of all MIB files	899164
VSP8K.4.2.0.2_mib.txt	MIB file	5915184
VSP8K.4.2.0.2_mib_sup.txt	MIB file	985306
VOSSv420_HELP_EDM_gzip.zip	EDM Help file	2873932
VOSSv4.2.0.0.zip	EDM plug-in for v4.2.0.0/vsp8000	4283833
VSP8K.4.2.0.2.md5	MD5 Checksums	392

### 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 VSP4K.4.2.0.2.tgz
software activate VSP4K.4.2.0.2.GA
```

or

```
software add VSP8K.4.2.0.2.tgz
software activate VSP8K.4.2.0.2.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, and 4.2.0.1 for VSP 4850GTS platforms and 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 and 4.2.0.1 for VSP 4450GSX 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, and 4.2.0.1

## 7. Compatibility

## 8. Changes in 4.2.0.2

### New Features in This Release

New command added to install a uboot image onto a VOSS device.

#### **WARNING:**

This command is an advanced level command that upgrades the device uboot image. Only use this command if specifically advised by Avaya support. Improper use of this command may result in permanent damage to the device and render it unusable.

Before you begin

- Download the new image as advised by Avaya Support
- Transfer the image to the /intflash/ directory on the switch.

#### **Procedure**

1. Enter Privileged EXEC mode:  
enable
2. Upgrade the boot loader image:  
uboot-install WORD<1-99>

#### **Example:**

```
VSP4850GTS:1#uboot-install /intflash/20140418_4850GTS_uboot.tgz
Archive contain the following uboot build 20140418_4850GTS_uboot
```

```
UBOOT is out of date, requires an upgrade
```

```
WARNING: Upgrading UBOOT requires writing to device
```

```
WARNING: It will take about a minute or so to complete.
```

WARNING !! DO NOT TURN POWER OFF ONCE YOU START THIS OPERATION.

Are you sure you want to continue to UPGRADE UBOOT?y

Upgrading UBOOT .....

WARNING: Upgrading UBOOT requires writing to device

WARNING: It will take about a minute or so to complete.

WARNING !! DO NOT TURN POWER OFF ONCE YOU START THIS OPERATION.

WARNING: It will take about a minute or so to complete

UBOOT upgrade completed successfully

VSP4850GTS:1#show sys-info uboot

Current Uboot Info :

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VU-Boot 2012.04-00001-g6a10a19 (Apr 18 2014 - 16:22:07)MPC83XX

VSP4850GTS:1#

## Old Features Removed From This Release

## Problems Resolved in This Release

ID	Description
wi01207473 wi01223180	On VSP 4000 Series platforms, inport/invlan deny filters do not prevent all packets from reaching the CPU
wi01221756	Multiple simultaneous TCP session connection requests and resets may cause chassis reset.
wi01204456	<p>On rare occasions, after a chassis reboot, it is possible for one or two ports on ESMs in slots 1 and 2 to fail. These port failures do not occur on an operational system. Ports on ESMs in slots 3 and 4 are not affected. The characteristics of a port failure are as follows:</p> <p>For ESMs 8424XS, 8418XSQ and 8408QQ:</p> <ul style="list-style-type: none"> <li>• 40Gig and 10Gig ports: The port will not link up (includes QSPF+, SPF+ and DAC).</li> <li>• 1Gig ports: The port may link up but will not receive traffic.</li> </ul> <p>For ESM 8424XT:</p>

	<ul style="list-style-type: none"> <li>• 10Gig/1Gig/100M ports: The port will not link up.</li> </ul> <p>Depending on the card type the ports that may fail are the following:</p> <ul style="list-style-type: none"> <li>• 8424XS and 8418XSQ: Port 9 and/or 17</li> <li>• 8424XT: Port 10 and/or 18</li> <li>• 8408QQ: Port 3 and/or 5</li> </ul>
wi01222940 wi01211872	<p>Added an ACLI command to upgrade uboot "uboot-install" and complementary show command "show sys-info uboot:.</p> <p>See detailed description above.</p>
wi01223832 wi01222701	<p>When ARP entry for the next-hop IP address of an ACL filter action is not available, traffic is not dropping as expected.</p>
wi01223382	<p>When the number of ACEs configured with the redirect next-hop action matching the same IPV4/IPV6 next-hop exceeds the maximum supported instances, the switch resets. Fix by logging and preventing the configuration.</p>
wi01224046	<p>In VOSS releases 4.2.0.0 and 4.2.0.1 the handling of the MACSEC key expiry event is broken. This problem is only applicable to the VSP4450GSX platforms. Other platforms are not affected. The problem condition will be triggered once a MACSEC key expiry event occurs on a MACSEC enabled link after reaching approximately 4 billion packets in either transmit or receive direction. The link will start showing FCS errors and traffic forwarding over the link will stop. Issue is fixed in VOSS release 4.2.0.2 or later.</p> <p>The problem scenario can be recovered from by following the below steps after issue happens. Problem occurrence can also be avoided by following the below steps before the packet count in either the Tx or Rx direction at either end of the link reaches 4 billion. The counters get reset after the below steps are taken. The preventive steps would need to be repeated each time before the said counts reach 4 billion again.</p> <ol style="list-style-type: none"> <li>1. Admin-disable both endpoints</li> <li>2. Disable macsec on both endpoints</li> <li>3. Remove both endpoints from configured macsec connectivity association</li> <li>4. Re-add both endpoints to the connectivity-association</li> <li>5. Re-enable macsec on both endpoints</li> <li>6. Admin-enable both endpoints</li> </ol>

## 9. Outstanding Issues

Please see “Release Notes for Avaya Virtual Services Platform 4000 Series and 8000 Series” for software release 4.2 (NN47227-401, 05.01) available at <http://www.avaya.com/support> for details regarding Known Issues.

In addition, the following issues have been identified:

<u>ID</u>	<u>Problem Description</u>	<u>Workaround</u>
wi01186535	Simplified VIST configuration cannot be managed correctly using EDM.	Use ACLI to configure/modify/delete Simplified VIST related commands and parameters.
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.
wi01223513	For IPV6 ACL filters configured with redirect next-hop action, disabling actions configured prior to the redirect next-hop action may cause the IPV6 next-hop configuration to be incorrect.	When disabling any action with IPV6 filters, if redirect next-hop is also one of the configured actions, de-configure and re-configure the redirect action.
wi01223610	For IPV6 ACL filters configured with any action, disabling and enabling the ACL, with the ACEs still enabled, may cause filter actions to not take effect.	When disabling and enabling IPV6 ACLs, also disable and enable the ACEs.
wi01203911	High latency observed in processing ICMP Request and DHCP Relay packets when large number of IP-netbios broadcast packets are received.	Workaround is to use ACL filter to capture and drop the unwanted broadcast packets.
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 Avaya Virtual Services Platform 4000 Series and 8000 Series” for software release 4.2 (NN47227-401, 05.01) 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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