

Virtual Services Platform 9000 Software Release 4.0.1.2

1. Release Summary

Release Date: September 2015

Purpose: Software release to address customer found software issues.

2. Important Notes before Upgrading to This Release

Commissioning Gen-2 IO Modules:

The recommended procedure to commission new Gen-2 IO Modules is to first upgrade the device fully to Release 4.0.1.0 or higher and after such upgrade is fully completed, insert the new Gen-2 IO Module in the chassis, one module at a time. The Gen-2 IO Modules go through a series of steps as part of the upgrade process including burning of images into the FPGAs on the Module and possible multiple module resets to activate those firmware images. The upgrade process should be allowed to complete successfully. Failure to do so could result in a failed or incorrect upgrade/commissioning. Refer to the 4.0.1.0 User Documentation for further details.

3. Platforms Supported

Virtual Services Platform 9000 (all models)

4. Special Instructions for Upgrade from previous releases

None.

5. Notes for Upgrade

Please see “*Virtual Services Platform 9000, Release Notes*” for software release 4.0.1 (NN46250-401, 02.02) available at <http://www.avaya.com/support> for details on how to upgrade your Switch.

File Names For This Release

File Name	Module or File Type	File Size (bytes)
VSP9K.4.0.1.2.tgz	Release 4.0.1.2 archived software distribution	176198884
VSP9K.4.0.1.2_modules.tgz	Release 4.0.1.2 Encryption Modules	41897
VSP9K.4.0.1.2_mib.zip	Archive of all MIB files	813662
VSP9K.4.0.1.2_mib.txt	MIB file	5413096
VSP9K.4.0.1.2_mib_sup.txt	MIB file	875237
VSP9000v401_HELP_EDM_gzip.zip	EDM Help file	4065789
VSP9000v4.0.1.1.zip	EDM plug-in for v4.0.1.1/vsp9000	5824709
VSP9K.4.0.1.2.md5	MD5 Checksums	452

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 procedure:

```
software add VSP9K.4.0.1.2.tgz
software add-modules 4.0.1.2.GA VSP9K.4.0.1.2_modules.tgz
software activate 4.0.1.2.GA
```

6. Version of Previous Release

Software Version 3.4.x.x, 4.0.0.0, 4.0.1.0, 4.0.1.1

7. Compatibility

8. Changes in 4.0.1.2

New Features in This Release

Old Features Removed From This Release

Problems Resolved in This Release

ID	Description
-----------	--------------------

wi01226843	<p>As part of upgrading the VSP9K software release, rebooting the chassis may cause a Gen-2 IO module to have inconsistent master CP state in each of its forwarding slices. This would result in packets going to the standby CP instead of the Master CP and control protocols and management applications terminating on that slice will not function properly.</p> <p>This condition will not occur on normal reset or power induced reboot of a chassis when software is not being updated.</p> <p>Show khi cpp port-statistics will show ports transmitting packets but not receiving packets. Example shows non-working slice 0 port 1-16 and working slice 2 port 33-48:</p> <pre>VSP9K#show khi cpp port-statistics 12/1,12/45</pre> <pre>===== KHI CPP Details - Port Statistics =====</pre> <table border="1"> <thead> <tr> <th>Ports</th> <th>Packet Type</th> <th>Rx Packets</th> <th>Tx Packets</th> </tr> </thead> <tbody> <tr> <td>12/1</td> <td>LLC_BPDU(128)</td> <td>0</td> <td>582</td> </tr> <tr> <td>12/1</td> <td>LLC_TDP(134)</td> <td>0</td> <td>192</td> </tr> <tr> <td>12/45</td> <td>LLC_BPDU(128)</td> <td>1164</td> <td>583</td> </tr> <tr> <td>12/45</td> <td>LLC_TDP(134)</td> <td>192</td> <td>192</td> </tr> <tr> <td>12/45</td> <td>LLC_ISIS(137)</td> <td>0</td> <td>153</td> </tr> </tbody> </table>	Ports	Packet Type	Rx Packets	Tx Packets	12/1	LLC_BPDU(128)	0	582	12/1	LLC_TDP(134)	0	192	12/45	LLC_BPDU(128)	1164	583	12/45	LLC_TDP(134)	192	192	12/45	LLC_ISIS(137)	0	153
Ports	Packet Type	Rx Packets	Tx Packets																						
12/1	LLC_BPDU(128)	0	582																						
12/1	LLC_TDP(134)	0	192																						
12/45	LLC_BPDU(128)	1164	583																						
12/45	LLC_TDP(134)	192	192																						
12/45	LLC_ISIS(137)	0	153																						

wi01228240	<p>When a monitoring tool is used to poll the VSP9K CPU utilization daily at a frequent interval, it occasionally reported 100% CPU utilization for a fraction of a second. This high CPU utilization had no impact on the system</p>
------------	---

wi01230133	<p>Customers may experience connectivity issues for devices across the SPB cloud in a L2VSN. Broadcast traffic ingressing a BEB's UNI port is not sent out NNI ports into the SPB cloud.</p> <p>This is only an issue in the case of broadcast traffic on a L2VSN ingressing a Gen-2 card that DOES NOT have a port configured as an NNI or as a part of an NNI MLT carrying the L2VSN service. An NNI MLT is any MLT with ISIS enabled including the IST MLT</p>
------------	---

wi01231696	System reset may occur when running security vulnerability scans due to blank passwords being provided by the scanning tool.
wi01232221	Spontaneous Reset with Core File On Virtual Services Platform Switches with following error message: SW ERROR Max missed WD feeds for process cbc-main.x reached: 240, total missed:325 last Refer to PSN PSN004569u for details. This issue is NOT applicable to Software Releases 3.x.x.x.
wi01232243	Connectivity issues are possible for UNI traffic ingressing a Gen2 card and expected to traverse the SPB cloud via an L3VSN. Problem can occur when two different remote BMAC addresses resolve to the same hash index for an internal table used by the Gen2 card, resulting in an incorrect BMAC encapsulation of the traffic.

10. Outstanding Issues

Please see “Virtual Services Platform 9000, Release Notes” for software release 4.0.1 (NN46250-401, 02.02) available at <http://www.avaya.com/support> for details regarding Known Issues.

11. Known Limitations

Please see “Virtual Services Platform 9000, Release Notes” for software release 4.0.1 (NN46250-401, 02.02) available at <http://www.avaya.com/support> for details regarding Known Limitations.

12. 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> .

Copyright © 2015 Avaya Inc - All Rights Reserved.

The information in this document is subject to change without notice. The statements, configurations, technical data, and recommendations in this document are believed to be accurate and reliable, but are presented without express or implied warranty. Users must take full responsibility for their applications of any products specified in this document. The information in this document is proprietary to Avaya.

To access more technical documentation, search our knowledge base, or open a service request online, please visit Avaya Technical Support on the web at: <http://www.avaya.com/support>