Virtual Services Platform 9000
Software Release 4.1.3.0

1. Release Summary

Release Date: July 2016
Purpose: Software release to address customer found software issues.

2. Important Notes before Upgrading to This Release

None.

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 4.1.0.0 (NN46250-401) 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.4.1.3.0.tgz	Release 4.1.3.0 archived distribution	176678548
VSP9K.4.1.3.0_modules.tgz	Encryption modules	41898
VSP9K.4.1.3.0_mib.zip	Archive of all MIB files	825195

VSP9K.4.1.3.0_mib.txt	MIB file	10981962
VSP9K.4.1.3.0_mib_sup.txt	MIB file	957849
VSP9000v410_HELP_EDM_gzip.zip	EDM Help file	3882169
VSP9K.4.1.3.0.md5	MD5 Checksums	586
VSP9K.4.1.3.0.sha512	SHA encryption	1546
VSP9000v4.1.0.0.zip	EDM WAR plugin for COM	5656346

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.4.1.3.0.tgz
software add-modules 4.1.3.0.GA VSP9K.4.1.3.0_modules.tgz
software activate 4.1.3.0.GA

6. Version of Previous Release

Software Version 3.4.x.x, 4.0.0.0, 4.0.1.0, 4.0.1.1, 4.0.1.2, 4.1.0.0, 4.1.1.0, 4.1.2.0, 4.1.2.1, 4.1.2.2

7. Compatibility

8. Changes in 4.1.3.0

New Features in This Release

Issue Number	Issue Description
VSP9000-652	Added support for active copper DAC Avaya PEC AA1403022-E6 on Gen-1 and Gen-2 IO modules.

VSP9000-605	When the CPU does not receive keep-alive heartbeat packets from the IO module for a certain period of time, the IO module may be reset. For easier debugging of such issues, an enhancement has been made to generate a core file when the IO module is reset.
VSP9000-592, VSP9000-611	Egress multicast lane lockup may happen on some lanes of Gen-1 IO modules leading to ports being shut down on that lane. In such scenarios, to help with better debugging, an enhancement has been made to enable packet captures on the datapath of the affected lanes. New files are created on a per slot-per slice-per lane basis and the exception packets are logged into these files. The following log message will be displayed when a new file is created. IO5 [06/20/16 16:41:30.692:EDT] 0x0012460b 00000000 GlobalRouter COP-SW WARNING ercdRspExceptionStatsMon: RSP Exception Packets File :/intflash/flrec/5/rspcap.20160620204130.5.0.0.log is created for slot 5 slice 0 lane 0

Old Features Removed From This Release

None

Problems Resolved in This Release

Issue Number	Issue Description
VSP9000-512	Robustness fixes have been for an issue which would cause the user to lose management access to the device through Telnet/SSH/Rlogin.
VSP9000-604	With IP Shortcuts enabled, SNMP traps are sent across NNI links with SPB Internal IP address (127.1.0.1 or 127.2.0.1) as the Agent IP source address.
VSP9000-646	SNMPWALK on rcIpfixCollectorProtocolTable incorrectly displays only one slot per IPFIX collector even though the collector might have been configured for more than one slot. This would lead to incorrect output being displayed on EDM too.

VSP9000-638	Routed Mac-in-Mac packets were using the incorrect ECMP record due to incorrect calculation of the offset in the data path. This is only relevant to Mac-in-Mac packets to be routed via ECMP routes.
VSP9000-655	ARP entries of static route Next Hops keep aging out prematurely when no IP packets sourced from the next hop are received.
VSP9000-661	TCP packets may sometimes leak from VRF to GlobalRouter even though inter-VRF routing is not enabled.
VSP9000-581 [Also in 4.1.2.1]	Constant stream of ARP broadcast traffic over NNI coming into one of the nodes of an IST cluster causes high CPU utilization on all the Gen-2 IO modules of its peer. This may result in protocol instability and network connectivity issues.
VSP9000-614 [Also in 4.1.2.1]	When the IST is down (IST peer is rebooted), the device should forward all Mac-in-Mac traffic, even Mac-in-Mac packets whose BVID do not match the device's role (primary/secondary). The GEN2 IO module may sometimes not forward traffic whose BVID did not match its role.
VSP9000-620 [Also in 4.1.2.1]	After a HA failover, some of the ECMP routes may get corrupted on Gen2 IO modules. This may result in network connectivity issues.
VSP9000-536 [Also in 4.1.2.2]	When the CPU utilization is high, VRRP packets may be transmitted at a rate which exceeds the configured interval. Software changes have been made to ensure that VRRP transmissions happen at the configured rate only.
VSP9000-593 [Also in 4.1.2.2]	When a SNMP server polls the management virtual IP address, the switch may send SNMP responses with source MAC as VLAN interface MAC address instead of the virtual MAC address.
VSP9000-609 [Also in 4.1.2.2]	System may reset when setting the 'ipfixDebug' flag from debug shell, under privilege mode access.
VSP9000-582 [Also in 4.1.2.2]	On Gen-2 IO modules with multiple equal cost paths, the configured deny action on the VLAN input filter does not work and packets are not dropped as expected.

VSP9000-587 [Also in 4.1.2.2]	On a HA switch, OSPF error messages are sometimes seen in high volumes due to self-generated external LSAs going out of sync between the master and standby CPU. This does not cause any functional impact. Changes have been made to log the message only once until the mismatch is cleared.
VSP9000-635 [Also in 4.1.2.2]	After rebooting an IST pair which has default route pointing to SPB cloud, reachability issues may be seen in the network. When the default route is toggled, the issue is resolved.
VSP9000-588 [Also in 4.1.2.2]	The Indiscards counter on IST ports increment upon receiving packets with source IP 0.0.0.0 and Multicast destination IP, even though the packet is forwarded. Fixed the InDiscards counter to not increment for these packets.

10. Outstanding Issues

Please see "Virtual Services Platform 9000, Release Notes" for software release 4.1.0.0 (NN46250-401), 4.1.1.0 and 4.1.2.0 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 4.1.0.0 (NN46250-401), 4.1.1.0 and 4.1.2.0 available at http://www.avaya.com/support for more 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 .