Virtual Services Platform 9000
Software Release 4.2.1.1

1. Release Summary

Release Date: March 16, 2018
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.4.2.1.1.tgz	Release 4.2.1.1 archived distribution	177192190
VSP9K.4.2.1.1_modules.tgz	Encryption modules	41901
VSP9K.4.2.1.1_mib.zip	Archive of all MIB files	826414
VSP9K.4.2.1.1_mib.txt	MIB file	5497380
VSP9K.4.2.1.1_mib_sup.txt	MIB file	959378
VSP9000v410_HELP_EDM_gzip.zip	EDM Help file	3882169
VSP9K.4.2.1.1.md5	MD5 Checksums	586
VSP9K.4.2.1.1.sha512	SHA encryption	1546
VSP9000v4.2.0.0.zip	EDM WAR plugin for COM	5657179

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.4.2.1.1.tgz
software add-modules 4.2.1.1.GA VSP9K.4.2.1.1_modules.tgz
software activate 4.2.1.1.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, 4.1.3.0, 4.1.4.0, 4.1.5.0, 4.2.0.0, 4.2.1.0

7. Compatibility

8. Changes in 4.2.1.1

New Features in This Release

Old Features Removed From This Release

None

Problems Resolved in This Release

Issue Number	Issue Description
VSP9000-850 VSP9000-855	ISIS packets are separated into two internal QoS queues such that Hello packets take a higher priority queue compared to the other ISIS control packets. This will help prevent adjacency flaps caused due to missing Hellos at the time of ISIS churn. Changed the existing **ISIS** internal protocol meter to track only Hellos and added a new meter: **ISIS_OTHER** to track other control packets. When the traffic goes out of profile, the "show khi cpp protocol-drops" command will show the number of dropped packets.
VSP9000-853	A new command has been implemented to display the values set by "mcast-fifo-optimize enable fifo7-meter isis-meter" command. **CLI command:** "show mcast-fifo-optimize"
VSP9000-856	Additional diagnostic message on Gen-2 IO module in case of data path lockup that helps identifying if it is due to a hardware issue amongst other diagnostic output. **"GlobalRouter VPE_DRIVER ERROR monitorZip: Detected Sierra ZIP Event error, ZipEvent[0] : 0x0 ZipEvent[1] : 0x2000 ZipEvent[2] : 0x0 ZipEvent[3] : 0x0 ZipEvent[4] : 0x0 ZipEvent[5] : 0x0"**
VSP9000-861	Added **UPTime** field under "show ip bgp summary" and "show ip bgp neighbors" commands to display the duration of BGP peers in established state. No EDM support is available for this field currently, only CLI and SNMP support available. VSP9000:1#show ip bgp neighbors ** Command Execution Time: Thu Mar 15 01:49:39 2018 EDT

```
*****************************************************************************

===========================================================================
                          BGP Neighbor Info - GlobalRouter
===========================================================================

BGP neighbor is 20.1.1.46 remote AS 200, External Peer, BGP-capable,
**BGP state [Established] UP Time 0 day(s), 00:03:32**
remote router ID 6.203.162.0

                              vrf instance - 0
                               admin-state - BGP ON
                     connect-retry-interval - 10
                            ebgp-multihop - disable
                                hold-time - 180
                           keepalive-time - 60
                     hold-time-configured - 180
                 keepalive-time-configured - 60
                               max-prefix - 12000
                             nexthop-self - disable

               originate-def-route - disable
                 originate-v6-def-route - disable
                     MD5-authentication - disable
                         neighbor-debug - none
                      remove-private-as - disable
           route-advertisement-interval - 5
               route-reflector-client - disable
                 always-send-withdraw - enable
                       send-community - disable
                 soft-reconfiguration-in - enable
                 updt-source-interface - 0.0.0.0
                                   weight - 100
                          Route Policy In -
                         Route Policy Out -
                       IPv6Route Policy In -
                       IPv6Route Policy Out -
                      address-family ipv6 - disable
                     address-family vpnv4 - disable
                          route-refresh - disable
               negotiated-session-capabilites -
Total bgp neighbors: 1
```

```
VSP9000:1#show ip bgp summary
********************************************************************************
        Command Execution Time: Thu Mar 15 01:49:48 2018 EDT
********************************************************************************


================================================================================
                    BGP Summary - GlobalRouter
================================================================================


                            BGP version - 4
                             local-as - 100
                            Identifier - 2.2.2.2
                          Decision state - Idle
                 The total number of routes is   5


BGP NEIGHBOR INFO :

NEIGHBOR      RMTAS    STATE   HLDTM KPALV HLDCFG KPCFG  WGHT  CONRTY
ADVINT UPTime
--------------------------------------------------------------------------------
20.1.1.46      200       Established 180  60   180   60   100  10    5    0 day(s), 00:03:41
Total bgp neighbors: 1
```

9. Outstanding Issues

Please see "Virtual Services Platform 9000, Release Notes" for software release 4.1.0.0 (NN46250-401), 4.1.1.0, 4.1.2.0, 4.1.3.0, 4.1.4.0, 4.1.5.0, 4.2.0.0 and 4.2.1.0 available at http://www.avaya.com/support for details regarding Known Issues.

10. Known Limitations

Please see "Virtual Services Platform 9000, Release Notes" for software release 4.1.0.0 (NN46250-401), 4.1.1.0, 4.1.2.0, 4.1.3.0, 4.1.4.0, 4.1.5.0, 4.2.0.0 and 4.2.1.0 available at http://www.avaya.com/support for more details regarding Known Limitations.

11. Software Scaling Capabilities

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 more details regarding scaling capabilties.

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 .