

VSP Operating System Software Release 6.1.6.0

1. Release Summary

Release Date: November 2018

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 <keyid>]
```

```
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.

3. Upgrading DVR configurations from releases 6.0.1.1 and earlier to 6.0.1.2 and beyond.
 - a. All DVR nodes must be upgraded to the same release.
 - b. All DVR leaves should be upgraded first.

5. Notes for Upgrade

Please see “Release Notes for VSP Operating System” for software release 6.1.0 available at <https://www.extremenetworks.com/support/documentation> 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.6.1.6.0.tgz	Release 6.1.6.0 archived software distribution	104459092
VOSS4K.6.1.6.0_mib.zip	Archive of all MIB files	1083039
VOSS4K.6.1.6.0_mib.txt	MIB file	7180177
VOSS4K.6.1.6.0_mib_sup.txt	MIB file	1182904
VSP4000v615_HELP_EDM_gzip.zip	EDM Help file	3282973
VSP4000v6.1.5.0.zip	EDM plug-in for COM	4881040
VOSS4K.6.1.6.0.md5	MD5 Checksums	578
VOSS4K.6.1.6.0.sha512	SHA512 Checksums	1538

Virtual Services Platform 7200 Series

File Name	Module or File Type	File Size (bytes)
VOSS7K.6.1.6.0.tgz	Release 6.1.6.0 archived software distribution	66466316
VOSS7K.6.1.6.0_mib.zip	Archive of all MIB files	1083039
VOSS7K.6.1.6.0_mib.txt	MIB file	7180177
VOSS7K.6.1.6.0_mib_sup.txt	MIB file	1186371
VOSSv615_HELP_EDM_gzip.zip	EDM Help file	3288186
VOSSv6.1.5.0.zip	EDM plug-in for COM	5210781
VSP7K.6.1.6.0.md5	MD5 Checksums	572
VOSS7K.6.1.6.0.sha512	SHA512 Checksums	1532

Virtual Services Platform 8000 Series

File Name	Module or File Type	File Size (bytes)
VOSS8K.6.1.6.0.tgz	Release 6.1.6.0 archived software distribution	120545884
VOSS8K.6.1.6.0_mib.zip	Archive of all MIB files	1083039
VOSS8K_6.1.6.0_mib.txt	MIB file	7180177
VOSS8K.6.1.6.0_mib_sup.txt	MIB file	1186371
VOSSv615_HELP_EDM_gzip.zip	EDM Help file	3288186
VOSSv6.1.5.0.zip	EDM plug-in for COM	5210781
VSP8K.6.1.6.0.md5	MD5 Checksums	764
VOSS8K.6.1.6.0.sha512	SHA512 Checksums	2012

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.6.1.6.0.tgz
software activate VOSS4K.6.1.6.0.GA
```

or

```
software add VOSS7K.6.1.6.0.tgz
software activate VOSS7K.6.1.6.0.GA
```

or

```
software add VOSS8K.6.1.6.0.tgz
software activate VOSS8K.6.1.6.0.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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0.

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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 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, 6.0.0.0, 6.0.1.0, 6.0.1.1, 6.0.1.2, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 for VSP8404 platform

Software Version, 5.3.0.0, 6.1.0.0, 6.1.1.0, 6.1.2.0, 6.1.2.1, 6.1.3.0, 6.1.3.1, 6.1.3.2, 6.1.4.0 and 6.1.5.0 for VSP8404c platform

7. Compatibility

8. Changes in 6.1.6.0

New Features in This Release

This release supports products that contain the newer revision of RTC (Real Time Clock) component.

The hardware revision number of the affected products has been updated to reflect this change. For each product in the affected product families the following hardware revisions and higher contain the updated RTC component:

Model	Minimum Hardware Revision
VSP4450GSX	11
VSP4450GTX-HT	11
VSP7254XSQ/VSP7254XTQ	13
VSP8284XSQ	12
VSP8404	10
VSP8404c	12

To determine the version of your product, check the label on the box or use the CLI command **show sys-info** to check the H/W Revision field.

The minimum versions of software required for proper functioning of the product with the new RTC component are as follows:

- 6.x software baseline – 6.1.6.0
- 7.x or later series – 7.1.0.1 (pre-installed in factory) or 7.1.1.0

Old Features Removed From This Release

Problems Resolved in This Release

ID	Description
VSP8000-358 VOSS-11826	Configuring MSDP on spbm-enabled devices that are linked by eBGP and have a BGP route causes a device reset.
VOSS-11917 VOSS-11855	Nonexistent adjacency advertised in ISIS TLV22's adjacency list The issue occurs when: <ul style="list-style-type: none"> • more than 13 adjacencies exist (only 13 adjacencies can fit inside the 255-bytes limit of an individual TLV - when more than 13 adjacencies exist, multiple TLV22's are allocated to hold all adjacencies) • the I1-metric of one of ISIS interfaces is modified, or a new ISIS interface is created with a non-default I1-metric • an ISIS adjacency bounces or goes down and stays down.

9. Outstanding Issues

Issue Number	Description	Workaround
<u>VSP4000-231</u>	Incomplete clean-up of ACL structures after an administratively shutdown MLT port has been removed	Re-adding & removing said port from the ACL once more with ECLI command structure 'filter acl port 1 x/x/no filter acl port 1 x/x' will resolve this issue

Please see “Release Notes for VSP Operating System” for software release 6.1.0 available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Issues.

10. Known Limitations

Please see “Release Notes for VSP Operating System” for software release 6.1.0 available at <https://www.extremenetworks.com/support/release-notes> for details regarding Known Limitations.

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.

11. Documentation Corrections

For other known issues, please refer to the product release notes and technical documentation available at: <https://www.extremenetworks.com/support/documentation>.

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