# Dell System S6000–ON 9.14(2.9P1) Release Notes

This document contains information on open and resolved caveats, and operational information specific to the Dell Networking OS software and the S6000-ON platform. **Current Release Version:** 9.14(2.9P1) **Release Date:** 2021-02-18

Previous Release Version: 9.14(2.9)

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**NOTE:** This document may contain language that is not consistent with current guidelines of Dell Technologies. There are plans to update this document over subsequent releases to revise the language accordingly.

Incorrect behavior or unexpected caveats are listed as the Problem Report (PR) numbers within the appropriate sections.

information about open and closed software caveats. To subscribe or use BugTrack, visit iSupport at: https://www.force10networks.com/CSPortal20/BugTrack/SearchIssues.aspx. All Release Notes are available on the Software Center tab of iSupport. The link to the relevant Release Notes for each software version is next to the link for that version: https://www.force10networks.com/CSPortal20/Software/Downloads.aspx.

For more information on hardware and software features, commands, and capabilities, refer to the Dell Networking website at: https://www.dellemc.com/networking.

# **Document Revision History**

#### **Table 1. Revision History**

Date	Description
2021-02	9.14.2.9P1 - Added Fixed Issues for the release.
2020–12	Initial release.

# **Supported Hardware**

The following hardware is supported with this platform:

Hardware
S6000-ON chassis
Thirty-two QSFP+ ports (40 Gbps)
Two AC/DC PSUs
Three fan subsystems

(i) NOTE: If all the three fan trays are found to be empty or faulty, the system shuts down after one minute.

# **Supported Software**

The following software is supported with this platform:

Software	Minimum Release Requirement
Dell Networking OS	9.14(2.9)
BigSwitch	4.0.0
Cumulus: S6000-ON (S6000 with ONIE)	Cumulus Linux 2.1
ONIE	v3.20.1.3

# New Dell Networking OS Version 9.14(2.9) Features

The following features are integrated into the Dell Networking 9.14.2 branch through this release: None

# Restrictions

- Prerequisite steps to upgrade the Dell Networking OS from earlier version to 9.14.2.0 or later:
  - 1. Uninstall the older version of the Open Automation (OA) package
  - 2. Upgrade the Dell Networking OS to 9.14.2.0 or later version
  - **3.** Install the following OA packages from the respective upgraded version:
    - a. SmartScripts
    - b. Puppet
    - $\textbf{c.} \quad \text{Open management infrastructure (OMI)}$
    - d. SNMP MIB

Prerequisite steps to downgrade the Dell Networking OS from 9.14.2.0 or later to the earlier version:

- 1. Uninstall the OA package of 9.14.2.0 or later version
- 2. Downgrade the Dell Networking OS to an earlier version
- 3. Install the respective OA package from an earlier version

For more information about installing, uninstalling and upgrading the Dell Networking OS and OA package, see the respective *Dell System Release Notes*.

• If you downgrade the Dell Networking OS version from 9.14.2.9 to 9.11.0.0 or any older versions, the system displays the following error message even though there is no functional impact:

CDB boot error: C.cdb file format

Before downgrading, save the current configuration and then remove the CDB files (confd\_cdb.tar.gz.version and confd\_cdb.tar.gz). To remove the files, use the following steps:

```
Dell#write memory
Dell#delete flash://confd_cdb.tar.gz.version
Dell#delete flash://confd_cdb.tar.gz
Dell#reload
```

- In a VXLAN scenario, hybrid port is not supported.
- While deploying the system in the normal-reload mode in BMP configuration, use the ip ssh server enable command at the beginning of the startup configuration if the write memory command is used at the end of the configuration.
- When FRRP is enabled in a VLT domain, no flavor of Spanning tree should concurrently be enabled on the nodes of that specific VLT domain. In essence FRRP and xSTP should not co-exist in a VLT environment.
- The following features are not available in the Dell Networking OS from version 9.7(0.0):
  - PIM ECMP
  - Static IGMP join (ip igmp static-group)
  - IGMP querier timeout configuration (ip igmp querier-timeout)
  - IGMP group join limit (ip igmp group join-limit)
- You can use the negotiation auto command to turn auto-negotiation on or off only on fiber interfaces operating at 1G speed.
- When 1024 or more VNI profiles are configured, the system takes more time to load. Dell recommends to restrict the VNI profiles to be less than 1000.
- If you use the interface range command to select multiple interfaces that are added to the management VRF, the ipv6 address command does not display the autoconfig option. You can configure the autoconfig command on individual interfaces.
- If you use the interface range command to select multiple interfaces that are added to the management VRF, the ipv6 nd command displays the following options but they do not take effect if you use them:
  - o dns-server
  - hop-limit
  - managed-config-flag
  - o max-ra-interval
  - o mtu
  - o other-config-flag
  - o prefix
  - ra-guard
  - o ra-lifetime
  - o reachable-time
  - o retrans-timer
  - suppress-ra
- You cannot use the established keyword in an ACL rule, along with the other control flags.
- While using the established keyword in an ACL rule, all the other TCP control flags are masked, to avoid redundant TCP control flags configuration in a single rule. When you use any TCP control flag in an ACL rule, established is masked and other control flags are available.

# Changes to Default Behavior and CLI Syntax

None.

# **Upgrading the CPLD**

The S6000-ON system with Dell Networking OS Version 9.14(2.9) requires System CPLD revision 10, Master CPLD revision 12, and Slave CPLD revision 10.

#### Verify that a CPLD upgrade is required

2

**NOTE:** If your CPLD revisions are higher than the ones shown here, DO NOT make any changes. If you have questions regarding the CPLD revision, contact technical support.

Use the following command to identify the CPLD version:

Dell#show revision		
Stack unit 0 S6000 SYSTEM CPLD	:	1
S6000 MASTER CPLD	:	1
S6000 SLAVE CPLD	:	1

Use the following command to view CPLD version that is associated with the Dell Networking OS image:

Dell#show os-version				
RELEASE IMAGE INFORMAT	ION :			
S-Series:SI				
TARGET IMAGE INFORMATI				
Type runtime	Version 9.14(2.9)	Control	Target Processor	
BOOT IMAGE INFORMATION	:			
Type boot flash	Version 3.1.1.7	Control	Target Processor	
BOOTSEL IMAGE INFORMAT	ION :			
Type boot selector		Control	Target Processor	
FPGA IMAGE INFORMATION	:			
Card stack-unit 0 stack-unit 0 stack-unit 0	S6000 SYS	STER CPLD	10	

#### Installing Dell Networking OS on the S6000-ON using ONIE

() NOTE: The Dell Networking OS installer package, ONIE-FTOS-SI-ON-9.14.2.9.bin, is required for installing Dell Networking OS on S6000-ON that has only ONIE.

To upgrade the ONIE package you have installed, use one of the following two processes: zero touch (dynamic) update or manual update.

1. Zero touch (dynamic): Copy the update ONIE installer and the DIAG installer for your system to the TFTP/ HTTP server.Configure the DHCP options using the ONIE specifications shown at the following link: http:// opencomputeproject.github.io/onie/docs/design-spec/updater.html S6000-ON image >>>> onie-updater-x86 64-dell s6000 s1220-r0

 Manual: Copy the image onto the TFTP/HTTP servers and boot ONIE. Update the ONIE using the onie-self-update command, then download and run an ONIE updater image. The supported URL types are: HTTP, FTP, TFTP, and FILE.

S6000-ON image >>>> onie-updater-x86\_64-dell\_s6000\_s1220-r0

3. UPGRADING ONIE ON AN EXISTING \$6000-ON SYSTEM. The following example uses TFTP to upgrade ONIE.

The following example uses HTTP to upgrade ONIE.

ONIE:/ # onie-nos-install http:http server IP address/ONIE installer image path ONIE:/ # onie-nos-install http://10.11.227.233/dell/onie/S6000-ON/image-drop-15122020/ diag-in[Jstaller-x86 64-dell s6000 s1220-r0.bin Stopping: discover... done. Info: Fetching http://10.11.227.223/dell/onie/S6000-ON/image-drop-15122020/diaginstaller-x86\_64-dell\_s6000\_s1220-r0.bin .. Connecting to 10.11.227.233 (10.11.56.31:80) installer 33% |\*\*\*\*\*\*\*\*\* | 1730k 0:00:01 ETAinstaller 100% |\*\*\*\*\*\*\*\*\* \*\*\*\*\*\*\*\*\* 5091k 0:00:00 ETA ONIE: Executing installer: http://10.11.227.233/dell/onie/S6000-ON/imagedrop-15122020/diag-installer-x86 64-dell s6000 s1220-r0.bin Ignoring Verifying image checksum ... OK. Preparing image archive ...sed -e '1,/^exit\_marker\$/d' /installer | tar xf - OK. Diag Installer: platform: x86 64-dell s6000 s1220-r0 Total Partitions are 2 false Creating new diag partition /dev/sda3 ... Warning: The kernel is still using the old partition table. The new table will be used at the next reboot. The operation has completed successfully. The system is going down NOW!. Sent SIGTERM to all processes Sent SIGKILL tosd 0:0:0:0: [sda] Synchronizing SCSI cache Restarting system.

4. Upgrade the DIAG installer package.

machine restart

```
ONIE:/ # onie-nos-install tftp or http:IP address and path
014/diag-in[Jstaller-x86_64-dell_s6000_s1220-r0.bin
************* Tue Dec 15 14:53:08 PDT 2020 ********
Stopping: discover... done.
Info: Fetching http://10.11.56.31/dell/onie/S6000-ON/image-drop-15122020/diag-
installer-x86_64-dell_s6000_s1220-r0.bin ...
Connecting to 10.11.56.31 (10.11.56.31:80)
installer 33% |******** | 1730k 0:00:01
ETAinstaller 100% |**********
                                 0:00:00 ETA
ONIE: Executing installer: http://10.11.56.31/dell/onie/S6000-ON/image-drop-15122020/
diag-installer-x86_64-dell_s6000_s1220-r0.bin
Ignoring Verifying image checksum ... OK.
Preparing image archive ...sed -e '1,/^exit_marker$/d' /installer | tar xf - OK.
Diag Installer: platform: x86 64-dell s6000 s1220-r0
Total Partitions are 2
false
```

```
Creating new diag partition /dev/sda3 ...
Warning: The kernel is still using the old partition table.
The new table will be used at the next reboot.
The operation has completed successfully.
.
.
.
.
The system is going down NOW!
Sent SIGTERM to all processes
Sent SIGKILL tosd 0:0:0:0: [sda] Synchronizing SCSI cache
Restarting system.
machine restart
```

5. Upgrade the BIOS image using the BIOS image and Flashrom utility included with the diagnostic package.

```
ONIE:/ # flashrom -E -p internal
flashrom v0.9.10-r1711 on Linux 3.2.35-onie+ (x86 64)
flashrom is free software, get the source code at http://www.flashrom.org
Calibrating delay loop... OK.
Found chipset "Intel CentertonLPC". Enabling flash write... OK.
Found Macronix flash chip "MX25L12805(D)" (16384 kB, SPI) at physical address
0xff000000.
Erasing and writing flash chip... Erase/write done.
ONIE:/ #
ONIE:/ # flashrom -w /tmp/diag/S6000-ON-BIOS-3.20.0.3.bin -p internal
flashrom v0.9.10-r1711 on Linux 3.2.35-onie+ (x86 64)
flashrom is free software, get the source code at http://www.flashrom.org
Calibrating delay loop... OK.
Found chipset "Intel CentertonLPC". Enabling flash write... OK.
Found Macronix flash chip "MX25L12805(D)" (16384 kB, SPI) at physical address
0xff000000.
Reading old flash chip contents... done.
Erasing and writing flash chip... Erase/write done.
Verifying flash... VERIFIED.
ONIE:/ #
auto reboot
```

# S6000-ON Upgrade Procedures: Overview

To upgrade the Dell Networking OS to the latest version, complete these steps:

- Upgrade the S6000–ON Dell Networking OS Image and Boot Code
- Upgrading the CPLD
- VLT Upgrade Procedure

# Upgrade the S6000-ON Dell Networking OS Image and Boot Code using Dell Networking OS CLI

#### **Bare Metal Provisioning**

**NOTE:** If you are using Bare Metal Provisioning (BMP), see the Bare Metal Provisioning topic in the Dell Networking OS Configuration Guide or the Open Automation Guide.

#### Manual Upgrade Procedure

Follow these steps carefully to upgrade your S6000-ON systems:

- 1. Dell Networking recommends that you back up your startup configuration and any important files and directories to an external media prior to upgrading the system.
- 2. Upgrade the Dell Networking OS in flash partition A: or B:

EXEC Privilege Mode

```
upgrade system [flash: | ftp: | stack-unit <1-6 | all> | tftp: | scp: | usbflash:] [A: | B:]
```

```
Dell#upgrade system tftp: A:
Address or name of remote host []: 10.16.127.35
Source file name []: S6K on
02:08:59 : Discarded 1 pkts. Expected block num : 51. Received block num: 50
.....
.....
.....
.....
.....
63287484 bytes successfully copied
System image upgrade completed successfully.
Dell#Dec 15 14:21:21: %STKUNIT1-M:CP %DOWNLOAD-6-UPGRADE: Upgrade completed
successfully
```

3. In case of a stack setup, upgrade the Dell Networking OS for the stacked units.

EXEC Privilege Mode

upgrade system stack-unit [0-11 | all] [A: | B:]

If A: is specified in the command, the Dell Networking OS version present in Management unit's A: partition will be pushed to the stack units. If B: is specified in the command, the Management unit's B: will be pushed to the stack units. Upgrade of stack units can be done on individual units by specifying the unit id [1-6] or on all units by using all in the command.

```
Dell#upgrade system stack-unit all A:
```

4. Verify that the Dell Networking OS has been upgraded correctly in the upgraded flash partition.

EXEC Privilege Mode

```
show boot system stack-unit [1-6 | all]
```

Dell#show boot system stack-unit all

Current system image information in the system:

```
Type Boot Type A B

stack-unit 1 FLASH BOOT 9.14(2.9) 9.14(2.8)[boot]

stack-unit 2 is not present.

stack-unit 3 is not present.

stack-unit 4 is not present.

stack-unit 5 is not present.

stack-unit 6 is not present.

Dell#
```

5. Upgrade the S6000-ON Boot Flash and Boot Selector images

EXEC Privilege Mode

```
upgrade boot [all | bootflash-image | bootselector-image] stack-unit [1-6 | all] [booted
| flash: | ftp: | scp: | tftp: | usbflash:]
```

Dell Networking OS version 9.14(2.9) requires S6000-ON Boot Flash image version 3.20.2.5 and Boot Selector image version 3.20.0.3. The Boot Flash and Boot Selector images can be upgraded together by selecting all in the command. If the user wants to upgrade Boot Flash image or Boot Selector image separately, the options bootflash-image or bootselector-image needs to be given separately in the command. The booted option is used to upgrade the Boot flash and Boot Selector images to the image versions packed with the loaded Dell Networking OS image. The Boot Flash and Boot Selector image versions packed with the loaded Dell Networking OS can be found using the show os-version command in EXEC PRIVILEGE mode. Dell #upgrade boot all stack-unit 1 booted

Dell# show os-version RELEASE IMAGE INFORMATION : 
 Platform
 Version
 Size
 ReleaseTime

 S-Series:SI-ON
 9.14(2.9)
 63304169
 Dec 15 2020 09:47:31
 TARGET IMAGE INFORMATION : TypeVersionTargetchecksumruntime9.14(2.9)Control Processorpassed -----BOOT IMAGE INFORMATION : \_\_\_\_\_ Type Version boot flash 3.20.2.5 Target checksum Control Processor boot flash passed BOOTSEL IMAGE INFORMATION : ------TypeVersionTargetchecksumlector3.20.0.3Control Processorpassed boot selector FPGA IMAGE INFORMATION : Card FPGA Name Version stack-unit 1 S6000-ON SYSTEM CPLD 10 stack-unit 1 S6000-ON MASTER CPLD 12 stack-unit 1 S6000-ON SLAVE CPLD \_\_\_\_\_ \_\_\_\_\_ Dell# Dell#upgrade boot bootflash-image stack-unit 1 ftp: Address or name of remote host []: 10.16.127.35 Destination file name []: FTOS-SI-ON-9.14.2.9.bin User name to login remote host: ftpuser Password to login remote host: Current Boot information in the system: \_\_\_\_\_ BootFlash Current Version New Version Card \_\_\_\_\_ Unit.1 Boot Flash 3.20.2.5 3.20.2.5 \* Warning - Upgrading boot flash is inherently risky and should only \* be attempted when necessary. A failure at this upgrade may cause \* a board RMA. Proceed with caution ! Proceed upgrade Boot Flash image for stack-unit 1 [yes/no]: yes 11111 Bootflash image upgrade for stack-unit 1 completed successfully. Dell# Dell#upgrade boot bootselector-image stack-unit 1 ftp: Address or name of remote host []: 10.16.127.35 Destination file name []: FTOS-SI-ON-9.14.2.9.bin User name to login remote host: ftpuser Password to login remote host: ...... Current Boot information in the system: \_\_\_\_\_ Card BootSelector Current Version New Version \_\_\_\_\_

6. Change the Primary Boot Parameter of the S6000-ON to the upgraded partition A: or B:

CONFIGURATION Mode

boot system stack-unit [1-6 | all] primary system: [A: | B: | tftp: | ftp:]

 Save the configuration so that the configuration will be retained after a reload using write memory command. EXEC Privilege Mode

write memory

Dell#write memory

Dec 15 18:58:59: %STKUNIT1-M:CP %FILEMGR-5-FILESAVED: Copied running-config to startup-config in flash by default

Dell#

8. Reload the unit.

EXEC Privilege Mode

reload

```
Command : reload
Mode : EXEC PRIVILEGE
Dell#reload
Proceed with reload [confirm yes/no]: y
```

- 9. Verify that the ONIE has been upgraded to the Dell Networking OS version 9.14(2.9).
- EXEC Privilege Mode

show version

```
Dell#show version
Dell Real Time Operating System Software
Dell Operating System Version: 2.0
Dell Application Software Version: 9.14(2.9)
Copyright (c) 1999-2020 by Dell Inc. All Rights Reserved.
Build Time: Tue Dec 15 09:28:18 2020
Build Path: /build/build03/SW/SRC
Dell Networking OS uptime is 1 minute(s)
System image file is "system://B"
System Type: S6000-ON
Control Processor: Intel Centerton with 3 Gbytes (3203911680 bytes) of memory,
core(s) 2.
16G bytes of boot flash memory.
1 32-port TE/FG (SI-ON)
32 Forty GigabitEthernet/IEEE 802.3 interface(s)
Dell#
```

10. Verify that the S6000–ON has been upgraded to the latest Boot Flash and Boot Selector images.

EXEC Privilege Mode

```
show system stack-unit [1-6]
```

Dell#show system stack-unit 1
Unit 1 Unit Type : Management Unit Status : online Next Boot : online Required Type : S6000-ON - 32-port TE/FG (SI-ON) Current Type : S6000-ON - 32-port TE/FG (SI-ON) Master priority : 14 Hardware Rev : 4.0 Num Ports : 128 Up Time : 1 min, 2 sec Dell Networking OS Version : 9.14 (2.9) Jumbo Capable : yes POE Capable : no FIPS Mode : disabled Boot Flash : 3.20.2.5 Boot Selector : 3.20.0.3 Memory Size : 3203911680 bytes Temperature : 33C Voltage : ok Serial Number : NA Part DE Code : CN Piece Part ID : CN-08YWFG-28298-3AG-0009 PFID Revision : N/A Service Tag : N/A Expr Svc Code : 0 Auto Reboot : enabled Burned In MAC : 1a:ba:2a:b8:2d:9d No Of MACs : 3
Power Supplies Unit Bay Status Type FanStatus FanSpeed(rpm)
2 1 up AC up 6720 2 2 down UNKNOWN down 0
Fan Status Unit Bay TrayStatus Fan1 Speed Fan2 Speed
2 1 up up 7021 up 6922 2 2 up up 6971 up 7072 2 3 up up 7021 up 6971
Speed in RPM Dell#

# Upgrading the CPLD

The S6000-ON system with Dell Networking OS Version 9.14(2.9) requires System CPLD revision 10, Master CPLD revision 12, and Slave CPLD revision 10.

(i) NOTE: For the Port LEDs to work properly with the Dell Networking OS version 9.9(0.0P5), downgrade the CPLD version to 12.

#### Verify that a CPLD upgrade is required

Use the following command to identify the CPLD version:

```
Dell#show revision
-- Stack unit 1 --
```

S6000-ON SYSTEM CPLD : 10 S6000-ON MASTER CPLD : 12 S6000-ON SLAVE CPLD : 10 Dell#

Use the following command to view CPLD version that is associated with the Dell Networking OS image:

```
Dell# show os-version
RELEASE IMAGE INFORMATION :
       _____
PlatformVersionSizeReleaseTimeS-Series:SI-ON9.14(2.9)63304169Dec 15 2020 09:47:31
TARGET IMAGE INFORMATION :
                           _____
_____
            _____
     TypeVersionTargetchecksumruntime9.14(2.9)Control Processorpassed
BOOT IMAGE INFORMATION :
                       -----
    ____
                    VersionTargetchecksum3.20.2.5Control Processorpassed
   Type
boot flash
BOOTSEL IMAGE INFORMATION :
                             _____
TypeVersionTargetchecksumboot selector3.20.0.3Control Processorpassed
FPGA IMAGE INFORMATION :
                      _____
           -----
CardFPGA NameVersionstack-unit 1S6000-ON SYSTEM CPLD10stack-unit 1S6000-ON MASTER CPLD12stack-unit 1S6000-ON SLAVE CPLD10
Dell#
```

#### Upgrading the CPLD Image

- **NOTE:** The upgrade fpga-image stack-unit 1 booted command is hidden when using the FPGA Upgrade feature in the CLI. However, it is a supported command and will be accepted when entered as documented.
- **NOTE:** Ensure that the BIOS version is 3.20.0.3 or above. You can verify this version using show system stack-unit 1 command.

To upgrade the CPLD image on S6000-ON, follow these steps:

**1.** Upgrade the CPLD image.

```
EXEC Privilege Mode
```

```
upgrade fpga-image stack-unit [1-6] booted
```

Dell# upgrade fpga-image stack-unit 1 booted

Dell# ubd	grade ipga-ima	ige stad	SK-un⊥t	I DOOLEG	1		
Current	information fo	or the s	system:				
Card		Device	Name	Current	Version	New Version	
Unitl Unitl Unitl	S6000-ON S6000-ON S6000-ON	MASTER	CPLD		10 12 10	10 12 10	
* Wa * Or * Ca	**************************************	ading FI ced wher RMA. Pi	PGA is in necess	inherent sary. A with caut	ly risky an failure at tion !	d should this upgrad	e may

Upgrade image for stack-unit 1 [yes/no]:

2. Power cycle the system physically. Switch off the system by unplugging the power chords from the REAR PSUs and wait until the PSU FAN–REAR STATUS LED is completely OFF.

(i) NOTE: Do not switch on the system with PSU-REAR LED glowing AMBER.

3. Switch on the system and wait for the Dell prompt. The CPLD version can be verified using the show revision command.

```
EXEC Privilege Mode
show revision
Dell#show revision
-- Stack unit 1 --
S6000-ON SYSTEM CPLD : 10
S6000-ON MASTER CPLD : 12
S6000-ON SLAVE CPLD : 10
Dell#
```

**NOTE:** Do not use power-cycle stack-unit command to power cycle the system and do not power off the system while FPGA upgrade is in progress. For any queries, contact technical support.

### Uninstalling Dell Networking OS from the S6000-ON

To uninstall the Dell Networking OS version 9.14(2.9) from the S6000-ON device, perform the following steps:

1. Reboot the system. During the reboot process, the system displays the following message prompting you to press the Esc key in order to stop the auto-boot process:

```
Version 2.15.1236. Copyright (C) 2020 American Megatrends, Inc.
BIOS Date: 12/15/2020 21:34:20 Ver: 0ACAH019
Press DEL or F2 to enter setup.
Grub 1.99~rc1 (Dell Inc)
Built by root at ubuntu on Tue Dec_15_14:04:19_UTC_2020
S60000N Boot Flash Label 3.20.2.5 NetBoot Label 3.20.2.5
Press Esc to stop autoboot ... 5
```

2. At this prompt message, press the Esc key. The following menu appears:

```
+----+

| FTOS

| FTOS-Boot Line Interface

| ONIE

+-----+
```

- **3.** From the menu, choose the **ONIE** option.
  - (i) NOTE: To choose an option from the menu, highlight one of the options using the up or down arrow key and press Enter.

The following menu appears:

```
+-----+

| ONIE: Install OS |

| ONIE: Rescue |

|*ONIE: Uninstall OS |

| ONIE: Update ONIE |

| ONIE: Embed ONIE |

| ONIE: Diag |

| PLATFORM-DIAG x86_64-dell_s6000_s1220-r0 |

+-----+
```

- 4. From this menu, choose the ONIE : Uninstall OSoption.
  - i NOTE: To choose an option from the menu, highlight one of the options using the up or down arrow key and press Enter.

The uninstall process begins. Following is the log generated by the system while Dell Networking OS 9.14(2.9) uninstalls:

ONIE: OS Uninstall Mode ... Version : feature/workspace-202012151619-dirty Build Date: 2020-12-150T16:22-0700 Info: Mounting kernel filesystems... done. Info: Mounting LABEL=ONIE-BOOT on /mnt/onie-boot ... Info: Using eth0 MAC address: 90:b1:1c:f4:a2:4d Info: eth0: Checking link... up. Info: Trying DHCPv4 on interface: eth0 DHCPv4 on interface: eth0 failedONIE: Using default IPv4 addr: eth0: 192.168.3.10/255.255.255.0 Starting: dropbear ssh daemon... done. Starting: telnetd... done. discover: Uninstall mode detected. Running uninstaller. Erasing internal mass storage device: /dev/sda4 (32MB) Percent complete: 100% Erase complete. Deleting partition 4 from /dev/sda Erasing internal mass storage device: /dev/sda5 (300MB) Percent complete: 100% Erase complete. Deleting partition 5 from /dev/sda Erasing internal mass storage device: /dev/sda6 (300MB) Percent complete: 100% Erase complete. Deleting partition 6 from /dev/sda Erasing internal mass storage device: /dev/sda7 (14032MB) Percent complete: 100% Erase complete. Deleting partition 7 from /dev/sda Installing for i386-pc platform. Installation finished. No error reported. Uninstall complete. Rebooting ... umount: can't remount rootfs read-only The system is going down NOW! Sent SIGTERM to all processes Sent SIGKILL to all processes Requesting system reboot sd 0:0:0:0: [sda] Synchronizing SCSI cache Restarting system. machine restart BIOS (Dell Inc) Boot Selector S6000-ON (SI) 3.20.0.3 (32-port TE/FG) POST Configuration CPU Signature 30669 CPU FamilyID=6, Model=36, SteppingId=9, Processor=0 Microcode Revision 10b POST Control=0xea000303, Status=0xe6009f00 MSRs: Platform ID: f09884f046 PMG\_CST\_CFG\_CTL: 263006
BBL\_CR\_CTL3: 7e00010f Perf Ctrl & status: 63d, 63d104606000648 Perf cnt (curr/fixed): 17d50cf4/3f8d8e10 Clk Flex Max: 0 Misc EN: 60840080 Therm Status: 88440000 (offset=0x0) MC0 Ctl: 0 MCO Status: 0 BIOS initializations... CPGC Memtest for rank 0 ..... PASS CPGC Memtest for rank 1 ..... PASS POST: RTC Battery ok at last cold boot (0xb) RTC date Tuesday 12/15/2020 22:20:38

```
POST SPD test ..... PASS
POST Lower DRAM Memory test
 SpeedStep enabled, Processor Bus Ratio=10, Vid=51
 Short memory cell test
 Perf cnt (curr/fixed): 24e32568/24e48b08
POST Lower DRAM Memory test ..... PASS
POST Lower DRAM ECC check ..... PASS
DxE POST
POST Upper DRAM Memory test
 SpeedStep enabled, Processor Bus Ratio=10, Vid=51
 Short memory cell test
 Perf cnt (curr/fixed): ba0ec40/ba0ede8
POST Upper DRAM Memory test ..... PASS
POST Upper DRAM ECC check ..... PASS
POST PCIe test ..... PASS
POST NVRAM check ..... PASS
POST overall test results ..... PASS
POST SPD test ..... PASS
POST Lower DRAM Memory test
 SpeedStep enabled, Processor Bus Ratio=10, Vid=51
 Short memory cell test
 Perf cnt (curr/fixed): 24e4db50/24e640f0
POST Lower DRAM Memory test ..... PASS
POST Lower DRAM ECC check ..... PASS
DxE POST
POST Upper DRAM Memory test
 SpeedStep enabled, Processor Bus Ratio=10, Vid=51
 Short memory cell test
 Perf cnt (curr/fixed): ba5bf38/ba5c0d8
POST Upper DRAM Memory test ..... PASS
POST Upper DRAM ECC check ..... PASS
POST PCIe test ..... PASS
POST NVRAM check ..... PASS
POST overall test results ..... PASS
```

5. After the installation completes, the system displays the following ONIE prompt: ONIE:/ #

### **Documentation Corrections**

This section describes the errors identified in the current release of the Dell Networking OS. None.

# **Deferred Issues**

Issues that appear in this section were reported in Dell Networking OS version 9.14(2.0) as open, but have since been deferred. Deferred caveats are those that are found to be invalid, not reproducible, or not scheduled for resolution.

Deferred issues are reported using the following definitions.

Category	Description
PR#	Problem Report number that identifies the issue.
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.
Synopsis	Synopsis is the title or short description of the issue.
Release Notes	Release Notes description contains more detailed information about the issue.
Work around	Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.
	Issues listed in the "Closed Caveats" section should not be present, and the work-around is unnecessary, as the version of code for which this release note is documented has resolved the caveat.

#### Deferred S6000-ON 9.14(2.0) Software Issues

Issues that appear in this section were reported in Dell Networking OS version 9.14(2.0) as open, but have since been deferred. Deferred caveats are those that are found to be invalid, not reproducible, or not scheduled for resolution.

The following issues have been deferred in the Dell Networking OS version 9.14(2.0):

None.

# **Fixed Issues**

Fixed issues are reported using the following definitions.

Category	Description
PR#	Problem Report number that identifies the issue.
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.
Synopsis	Synopsis is the title or short description of the issue.
Release Notes	Release Notes description contains more detailed information about the issue.

#### Category Description

Work around

Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.

Issues listed in the "Closed Caveats" section should not be present, and the work-around is unnecessary, as the version of code for which this release note is documented has resolved the caveat.

#### Fixed S6000-ON 9.14(2.9P1) Software Issues

() NOTE: Dell EMC Networking OS 9.14(2.9P1) includes fixes for caveats addressed in the previous 9.14 releases. Refer to the respective release notes documentation for the list of caveats fixed in the earlier 9.14 releases.

The following caveats are fixed in Dell EMC Networking OS version 9.14(2.9P1):

PR# 169575	
Severity:	Sev 2
Synopsis:	In certain scenarios, port configuration does not take effect and you may see the IFMGR-3-IFA_COMM_FAIL syslog error.
Release Notes:	In certain scenarios, port configuration does not take effect and you may see the IFMGR-3-IFA_COMM_FAIL syslog error.
Workaround:	None
PR# 170018	
Severity:	Sev 1
Synopsis:	Ethernet packet type 0x888e is not handled, leading to a memory leak.
Release Notes:	Ethernet packet type 0x888e is not handled, leading to a memory leak.
Workaround:	None
PR# 170024	
Severity:	Sev 2
Synopsis:	On a fully scaled switch, with all ports fanned out, some ports fail to OPER UP after reload.
Release Notes:	On a fully scaled switch, with all ports fanned out, some ports fail to OPER UP after reload.
Workaround:	None
PR# 170041	
Severity:	Sev 2
Synopsis:	In certain scenarios, in a VLT environment, the switch may encounter an exception during VLT failover.
Release Notes:	In certain scenarios, in a VLT environment, the switch may encounter an exception during VLT failover.
Workaround:	None

#### Fixed S6000-ON 9.14(2.9) Software Issues

() NOTE: Dell Networking OS 9.14(2.9) includes fixes for caveats addressed in the previous 9.14 releases. Refer to the respective release notes documentation for the list of caveats fixed in the earlier 9.14 releases.

The following caveats are fixed in Dell Networking OS version 9.14(2.9):

PR# 169919	
Severity:	Sev 3
Synopsis:	The switch may encounter a software exception due to invalid memory access on bootup.
Release Notes:	The switch may encounter a software exception due to invalid memory access on bootup.
Workaround:	None
PR# 169921	
Severity:	Sev 2
Synopsis:	Static routes are not restored when BFD is disabled at interface level.
Release Notes:	Static routes are not restored when BFD is disabled at interface level.
Workaround:	None
PR# 169972	
Severity:	Sev 2
Synopsis:	DHCPv6 relay-reply packet drops in the L2 VLAN when DHCPv6 relay is configured in the L3 VLAN.
Release Notes:	DHCPv6 relay-reply packet drops in the L2 VLAN when DHCPv6 relay is configured in the L3 VLAN.
Workaround:	None
PR# 169984	
Severity:	Sev 2
Synopsis:	The switch may encounter a software exception when running the show ipv6 ospf database router CLI command.
Release Notes:	The switch may encounter a software exception when running the show ipv6 ospf database router CLI command.
Workaround:	None

### **Known Issues**

Known issues are reported using the following definitions.

#### Category Description

**PR#** Problem Report number that identifies the issue.

Category	Description
Severity	<b>S1</b> — Crash: A software crash occurs in the kernel or a running process that requires a restart of AFM, the router, switch, or process.
	<b>S2</b> — Critical: An issue that renders the system or a major feature unusable, which can have a pervasive impact on the system or network, and for which there is no work-around acceptable to the customer.
	<b>S3</b> — Major: An issue that affects the functionality of a major feature or negatively effects the network for which there exists a work-around that is acceptable to the customer.
	<b>S4</b> — Minor: A cosmetic issue or an issue in a minor feature with little or no network impact for which there might be a work-around.
Synopsis	Synopsis is the title or short description of the issue.
Release Notes	Release Notes description contains more detailed information about the issue.
Work around	Work around describes a mechanism for circumventing, avoiding, or recovering from the issue. It might not be a permanent solution.
	Issues listed in the "Closed Caveats" section should not be present, and the work-around is unnecessary,

### KnownS6000-ON 9.14(2.9) Software Issues

The latest information related to Open Caveats is available on support site through the BugTrack search tool.

(i) NOTE: You must have a user account to access the BugTrack tool.

To use the search tool:

- 1. Go the Main Customer Support page: https://www.force10networks.com/csportal20/Main/SupportMain.aspx.
- 2. Log in.
- 3. Click the BugTrack link, located in the Quick Links menu directly below the login bar.

This takes you to the BugTrack search page: https://www.force10networks.com/csportal20/BugTrack/SearchIssues.aspx.

as the version of code for which this release note is documented has resolved the caveat.

- 4. Enter for a specific PR or select an Dell Networking OS version, platform, severity, or category to get a list of PRs.
- 5. Click the Search button.
- 6. Click the PR number to view specific PR details.

The PR (or PRs) appears on the page below the tool.

The following caveats are open in Dell Networking OS version 9.14(2.9):

None.

### **Support Resources**

The following support resources are available for theS6000 system.

#### **Documentation Resources**

This document contains operational information specific to the S6000-ON system.

For information about using the S6000–ON, refer to the following documents at http://www.dell.com/support:

- Installing the S6000-ON System
- Quick Start Guide
- Dell Networking Command Line Reference Guide for the S6000-ON System
- Dell Networking Configuration Guide for the S6000-ON System

For more information about hardware features and capabilities, refer to the Dell Networking website at https://www.dellemc.com/networking.

For more information about the open network installation environment (ONIE)-compatible third-party operating system, refer to <a href="http://onie.org">http://onie.org</a>.

#### Issues

Issues are unexpected or incorrect behavior and are listed in order of Problem Report (PR) number within the appropriate sections.

() NOTE: You can subscribe to issue update reports or use the BugTrack search tool to read current information about open and closed issues. To subscribe or use BugTrack, visit Dell Support at: https://www.force10networks.com/CSPortal20/BugTrack/SearchIssues.aspx.

#### **Finding Documentation**

This document contains operational information specific to the S6000-ON system.

- For information about using the S6000–ON, refer to the documents at http://www.dell.com/support.
- For more information about hardware features and capabilities, refer to the Dell Networking website at <a href="https://www.dellemc.com/networking">https://www.dellemc.com/networking</a>.
- For more information about the open network installation environment (ONIE)-compatible third-party operating system, refer to http://onie.org.

#### **Contacting Dell**

**NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Availability varies by country and product, and some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

Go to www.dell.com/support.

#### Notes, cautions, and warnings

(i) NOTE: A NOTE indicates important information that helps you make better use of your product.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

MARNING: A WARNING indicates a potential for property damage, personal injury, or death.