Release 3.4
NN46250-111 (700507325 Rev 03)
Issue 01.03
October 2015

Avaya Virtual Services Platform 9000

Software Requirement for Virtual Services Platform 9010

The Control Processor (CP) modules in the Virtual Services Platform 9010 chassis must run a minimum software version of Release 3.4. Avaya supports the following two upgrade paths for Release 3.4 on the Virtual Services Platform 9010:

- Release 3.2.x to Release 3.4 — to follow this upgrade path, you must contact Avaya Support through http://support.avaya.com.
- Release 3.3.3.0 and later to Release 3.4 — to follow this upgrade path, use the procedure provided in this bulletin.

Note:

You do not need to upgrade through all of the intermediate releases. For Avaya Virtual Services Platform 9010, choose an upgrade path from Release 3.2.x to Release 3.4, or from Release 3.3.3.x to Release 3.4.

For Avaya Virtual Services Platform 9012, no restrictions exist. For Avaya Virtual Services Platform 9012, you can upgrade directly to Release 3.4.

Upgrading from Release 3.x to Release 4.0

Use the following procedure to upgrade the Avaya Virtual Services Platform 9010 from Release 3.x or later to Release 4.0.

Note:

If you are upgrading a Virtual Services Platform 9012, no restrictions exist for the upgrade. For Virtual Services Platform 9012, you do not need to perform this interim upgrade from Release 3.3.3.0 or later to Release 4.0. You can skip this procedure and upgrade directly to Release 4.0.

Before you begin

- If you view the front of the Virtual Services Platform 9000 chassis, the Online LED for the CP module flashes green. This LED action indicates the chassis is ready for upgrade.
- The CP module in the chassis must be running Release 3.3.3.0 or later.
- If your system is a dual CP configuration, remove the CP module in slot 2. When you install CPs for the first time, install and upgrade the primary CP first, and then install and upgrade the secondary CP. The secondary CP will match the running image on the running primary CP. If

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you install both the primary and secondary CPs at the same time, and the secondary CP is booted, the primary CP may downgrade the code to match the secondary CP. Use this procedure when the primary and secondary CP configurations may not match.

- Using a network computer, download the VSP9K.3.4.0.0.tgz file and copy it to an external storage device that the CP module supports, such as USB or Compact Flash.

  You can download the software from http://support.avaya.com/downloads/.

- Ensure the external storage device has at least 150 MB of free space to store the archived software.

  If you need to backup the contents of an external Compact Flash device in a Virtual Services Platform 9000 system before you can delete the content and make space available, *Administering Avaya Virtual Services Platform 9000,* NN46250-600 includes a procedure that shows how to backup and restore the contents of an external Compact Flash to USB.

- You must have a terminal or portable computer with a serial port and terminal-emulation software.

- You must have an Underwriters Laboratories (UL)-listed straight-through or null modem RS-232 cable with a female DB-9 connector for the console port on the CP module.

Procedure

1. Connect the serial port on the terminal to the console port on the master CP module in the chassis.

   Ensure that you shield the cable that connects to the console port to comply with emissions regulations and requirements.

2. Turn on the terminal.

3. Insert the external storage device, either USB or Compact Flash, in to the CP module in slot 1.

4. Apply power to the chassis.

   The system displays the following error, followed by the SW recovery menu:

```
CP1  [08/30/13 07:20:28.507] 0x00010832 00000000 GlobalRouter HW ERROR This
chassis type 40FE2300 is not compatible with this SW. Please refer to any
technical bulletins that came with this chassis for possible directions on how to
upgrade your SW, and/or contact your technical support.

*****************************************************************
* WARNING:                                                      *
* We have detected that the software running on this CP module is   *
* not supported on this chassis. You need to install and/or select  *
* a supported version. Please consult the documentation that came   *
* with your hardware or contact Avaya Technical Support.            *
*****************************************************************


 Lifecycle SW recovery menu

 1 - Add software release from removable device
 2 - Select software release; Reboot
 3 - Remove a software release

 q - Quit/Reboot
```

```
 Please make your selection:
```

5. Enter **1** to select the software release.

   The system displays the following message:

```
Select media to scan for release archives

   1 - /extflash
   2 - /usb
   Q - Quit

 Please make your selection:
```

6. Enter **1** to select the external Compact Flash or **2** to select USB.

   The system displays a list of all images on the device.

```
Select archive to add

   1 - VSP9K.3.4.0.0.tgz

 Please make your selection:
```

7. Enter the number that corresponds to the VSP9K.3.4.0.0.tgz archive.

   The system extracts the image and stores it in the `/intflash/release/` directory on the CP module.

```
Extracting distribution information from VSP9K.3.4.0.0.tgz
Extracting release 3.4.0.0.GA from /usb/VSP9K.3.4.0.0.tgz

 Lifecycle SW recovery menu

 1 - Add software release from removable device
 2 - Select software release; Reboot
 3 - Remove a software release

 q - Quit/Reboot

 Please make your selection:
```

Note:

If the internal flash does not have enough space to store the new image, you can use the SW recovery menu item 3 to remove existing software releases from the internal flash.

8. Enter **2** to select the software release.

   The system displays a list of release choices:

```
**********************************************************************
*                                                                    *
*  WARNING:                                                          *
*  If the chassis has dual CP modules this recovery option could     *
*  cause the CP modules to boot with different software versions     *
*  and potentially will get into boot loop situation. Please remove  *
*  one CP before proceeding.                                         *
*                                                                    *
**********************************************************************
   1 - 3.4.0.0.GA
   2 - 3.3.3.0.GA (Primary Release)
```

```
   q - Quit

   Please make your selection:
```

9. Enter the number that corresponds to the 3.4.0.0.GA release.

   The CP module reboots with the new image. All other modules are upgraded, and then reboot again. Allow at least 15 minutes for the system to respond and provide the login prompt. During the upgrade process, do not remove modules from the chassis.

10. Log in to ACLI:

```
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Virtual Services Platform 9000
Software Release Build 3.4.0.0
General Availability Released Software, Fully supported

AVAYA COMMAND LINE INTERFACE

CP1  [08/30/13 07:29:41.665] 0x00010757 00000000 GlobalRouter HW INFO Initial
configuration download to all cards completed
CP1  [08/30/13 07:29:41.666] 0x0003458b 00000000 GlobalRouter SW INFO The system
is ready
CP1  [08/30/13 07:29:41.666] 0x00004595 00000000 GlobalRouter SNMP INFO Booted
with file
Login: CP1  [08/30/13 07:29:43.265] 0x0000467d 00000000 GlobalRouter SNMP INFO
Power Supply Up(PsId=3, OperStatus=3)
CP1  [08/30/13 07:29:43.266] 0x0000467d 00000000 GlobalRouter SNMP INFO Power
Supply Up(PsId=4, OperStatus=3)
CP1  [08/30/13 07:29:43.266] 0x0000467d 00000000 GlobalRouter SNMP INFO Power
Supply Up(PsId=7, OperStatus=3)
CP1  [08/30/13 07:29:43.267] 0x0000467d 00000000 GlobalRouter SNMP INFO Power
Supply Up(PsId=8, OperStatus=3)
CP1  [08/30/13 07:30:29.781] 0x000045e5 00400005 DYNAMIC SET GlobalRouter SNMP
INFO Sending Cold-Start Trap
CP1  [08/30/13 07:30:29.783] 0x000005a7 00000006.1 DYNAMIC SET GlobalRouter SW
WARNING No configured hosts are reachable for log file transfer
CP1  [08/30/13 07:31:41.658] 0x00088524 00000000 GlobalRouter SW INFO Boot
sequence successful
Login: rwa
Password: ***
You are currently running a new version of code.
This release will be auto-committed in 6 minutes and 36 seconds.
Version Running: 3.4.0.0.GA
CP1  [08/30/13 07:33:06.541] 0x000305ca 00000000 GlobalRouter SW INFO user rwa
connected via console port
```

11. Enter Privileged Exec mode:

```
VSP-9010:1>enable
```

12. Commit the software:

```
VSP-9010:1#software commit
Executing software commit for version 3.4.0.0.GA.
Software commit successful
```

13. If your system uses a dual-CP configuration, install the secondary CP module. The secondary CP module synchronizes the image with the master CP, and then reboots. Allow at least five minutes for the CP module to initialize after the reboot.

14. Stop the USB device:

```
VSP-9010:1#usb-stop
It is now safe to remove the USB device.
```

    If you use an external Compact Flash to transfer the software files, you can skip this step.

15. Remove the USB device.

    If you use an external Compact Flash to transfer the software files, do not remove the Compact Flash device from the CP module. Avaya recommends that you operate the chassis with an external Compact Flash installed.

16. Use the **`show sys software`** and **`show software`** commands to verify the upgrade was successful:

```
VSP-9010:1#show sys software
System Software Info :

Default Runtime Config File : /intflash/config.cfg
Config File :
Last Runtime Config Save : 0
Last Runtime Config Save to Slave : 0

Boot Config Table
Version : 3.4.0.0.GA on Friday Aug 30 07:26:22 EDT 2013
SlaveCpImageSyncState : N/A
PrimaryConfigSource : /intflash/config.cfg
SecondaryConfigSource : /intflash/config.cfg
EnableFactoryDefaults : false
EnableDebugMode : false
EnableHwWatchDogTimer : false
EnableRebootOnError : true
EnableTelnetServer : false
EnableRloginServer : false
EnableFtpServer : true
EnableTftpServer : false
```

```
VSP-9010:1#show software
================================================================================
          software releases in /intflash/release/
================================================================================
3.3.3.0.GA (Backup Release)
3.4.0.0.GA (Primary Release)

--------------------------------------------------------------------------------
Auto Commit     : enabled
Commit Timeout  : 10 minutes
```

17. To confirm the secondary CP loaded and booted the correct version of software, look for the following messages on the master CP module:

```
CP2  [08/30/13 07:36:32.228] 0x00034594 00000000 GlobalRouter SW INFO System boot
CP2  [08/30/13 07:36:32.228] 0x00034595 00000000 GlobalRouter SW INFO VSP-9000
System Software Release 3.4.0.0
CP1  [08/30/13 07:36:37.488] 0x000105c8 00000000 GlobalRouter HW INFO HA-CPU:
Table Sync Completed on Secondary CPU
```

18. Use the **`peer telnet`** command to log in to the secondary CP and confirm the running software version:

```
VSP-9010:1#peer telnet
Trying 127.32.0.2 ...
Connected to 127.32.0.2
```

```
Escape character is '^]'

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Login: rwa
Password: ***

@VSP-9010:2>
```