

# hp server rx4610 firmware release notes

## Summary of release note:

### *New features:*

Updated BIOS, BMC firmware, and SDR code. Only required for those installing HP-UX 11i V1.6 Release ID B.11.11 and Red Hat Linux 7.2 For Intel® Itanium Processor (Linux kernel : 2.4.9). Recommended for Microsoft Windows 64-bit Advanced Server, Limited Edition V1.1

### *Bug fixes:*

See detailed description section.

This software applies to:	
<b>System(s):</b>	hp server rx4610
<b>Operating system(s):</b>	<ul style="list-style-type: none"><li>• Microsoft Windows 64-bit Advanced Server, Limited Edition V1.1</li><li>• HP-UX 11i V1.6 Release ID B.11.11 or earlier</li><li>• Red Hat Linux 7.2 For Intel® Itanium Processor (Linux kernel : 2.4.9)</li></ul>

## Version

### **Current Version:** 109B

BIOS: 109B

firmware: BMC28, HSC 7, CBC 02

SDR 15

### **Other Versions Available:** 99B

BIOS: 99B

firmware: BMC24, HSC 7, CBC 02

SDR 14

## Detailed description

### **Bug fixes**

- No Memory Dump Information after pressing Init button
- Memory Errors: DIMM sending continual SBE is not mapped out and fills the SEL
- E28 workaround doesn't appear to be set
- Zero MB Total Memory Displayed if CMOS Clear Jumper is on or CMOS checksum is bad
- PERR asserted does not propagate to SEL

### **Upgrade recommendation**

Revision 109B is the minimum firmware revision supported for HP-UX 11i V1.6 Release ID B.11.11 and must be installed if upgrading the operating system from HP-UX 11i V1.5.

## Installation instructions

To update the HP Server rx4610 platforms to BIOS B109 and the server management FW BMC 28 and SDR 15 releases, follow the procedure outlined below:

### **Package Contents of BIOS109\_SMFW\_pkg:**

1. BIOS109 (contains BIOS Release B109- oemfw109.bin, Iflash64 Ver 1.0 utility, release notes for Bios and Iflash64 utility).
2. BMC28 (contains BMC Release 28 and release notes).
3. FRUSDR\_v1\_02\_15 (contains the FRUSDR v1.02.15 package and release notes).
4. rx4610\_Platform\_Release\_FSWW\_Components.pdf – gives a complete list of BIOS, Server Management Firmware, utilities and OS component list for platform release.

5. CMOSRW1\_02 (contains cmosrw.efi, cmosrw\_release \_ notes\_v1\_02, and bin file cmos109b.bin).
6. FWUpdate\_V1\_01 (contains the FWUpdate utility and release notes).

### Getting Started:

1. Unzip all of the above package files to a blank LS-120 diskette from a Win32 system.
2. If necessary, enter CMOS setup and ensure that console redirection is disabled.
3. Determine your BIOS version of the rx4610 system that you are trying to upgrade the BIOS and Server management Firmware.
  1. Boot to EFI shell.
  2. From the EFI prompt (shell>), type **'ver'** to find the BIOS version.
  3. You will find the following string: S460AC4A.86B.XXXX.B.yymmddhhmm
  4. The BIOS version number is the 'XXXX' from the above string.
4. Determine the BMC version using the FWUPDATE utility.
  - a. Insert the LS-120 diskette created in step 1 on the rx4610 system.
  - b. Map the diskette. Type: **map -r**
  - c. Find the floppy drive and change to floppy. Type: **fs0:**
  - d. Load IPMI driver ver 1.2. Type: **load ipmi.efi**
  - e. Using the Fwupdate ver 1.01, Issue the following command: **fwupdate /fwversion**
  - f. Read the 'Op code' numbers of BMC. They are the current versions of BMC on the system.
5. Determine the SDR version by running the FRUSDR utility.
  - a. Type the command: **FRUSDR -d sdr**. This command will display the SDR records in your system. During the display hit 'enter' when the screen pauses.
  - b. The last SDR record will display the SDR version loaded on the system.

**Note:** The assumption is that your system is configured to one of the valid configurations as shown in the matrix found in the rx4610\_Platform\_Release\_FWSW\_Components.pdf file.

### Standard Upgrade Procedure:

**Note:** If specific CMOS settings have been configured, ensure that you document the settings before proceeding to step one.

1. Insert the LS-120 diskette containing all of the unzipped files from the package in the rx4610 system (created in step 1 in the "Getting Started" section, above).
2. Boot to EFI shell.
3. Read release notes for IPMI driver ver 1.2.
  - a. Map the diskette. Type: **map -r**
  - b. Find the floppy drive and change to floppy. Type: **fs0:**
  - c. Load IPMI driver ver 1.2. Type: **load ipmi.efi**
4. Read release notes for **Fwupdate ver 1.01** and BMC 28 (Inbmc28.txt).  
  
 To update BMC firmware release from 27 to 28, type: **fwupdate Inbmc28.hex /upload**
5. After the successful completion of the firmware update, it will return to the EFI prompt.
6. Update the SDR (Sensor Data Records) release from 14 to 15. From the EFI prompt, execute the FRUSDR Ver 1.02.15 utility as follows. Type: **frusdr -cfg srcfg09.cfg**
7. To update the SDR records, type: **1**
8. This will update the SDR records on the system to SDR 15. After the update, it will return to the EFI prompt.
9. Read release notes for IFLASH64 Ver 1.0 (IFlash64.txt).
10. To upgrade to B109, type: **iflash64 oemfw109.bin /update**
11. Upgrade the B109 CMOS image by typing: **cmosrw -wd cmos109b.bin**
12. After the successful completion of the firmware update, it will return to the EFI prompt.
13. Reset the system
14. If needed the following steps are provided to re-configure the minimum required CMOS settings:
  - a. Press F2 to enter setup when prompted.  
In setup(changes required based on setup defaults):
  - b. exit->Load Setup defaults
  - c. main->Processor Retest: enabled (will toggle after reset)
  - d. main->date/time
  - e. advanced->boot configuration->  
reset config data: enabled (will toggle after reset)
  - f. advanced->peripheral configuration->  
Serial Port A: Enabled  
I/O Address: 3F8  
Interrupt: IRQ 4  
Serial Port B: Enabled  
I/O Address: 2F8  
Interrupt: IRQ 3

- Parallel Port: Auto
- Mode: Output Only
- g. advanced->chipset configuration->
  - BINIT input: disabled
  - in order queue depth: 8
- h. advanced->chipset configuration->memory related items
  - clear bad memory row info: enabled (will toggle after reset)
- i. advanced->event log configuration
  - Enable all items
- j. system management (optional)
  - Note: The selection made here will carry over to the booted kernel.
  - Serial Console Redirection: enabled (if you want redirection)
  - Com Port Address: Choose Com1 (Com2 is reserved for EMP)
  - Baud Rate: pick your favorite speed
  - Flow Control: No flow control
- k. exit->Saving changes (machine will reboot)
- 15. Once back to EFI boot menu, exit to EFI shell and verify edd30 is still on. Without this you will get a vfs\_mountroot panic on systems running HP-UX since the root file system will not be found.

### Version Verification:

1. Determine your BIOS version. Read the version in the BIOS banner string.
2. Determine the BMC version using the FWUPDATE utility.
  - a. Insert the LS-120 diskette created in step 1 on the rx4610 system.
  - b. Map the diskette. Type: **map -r**
  - c. Find the floppy drive and change to floppy. Type: **fs0:**
  - d. load IPMI driver ver 1.2. Type: **load ipmi.efi**
  - e. Using the Fwupdate ver 1.01, Issue the following command: **fwupdate /fwversion**
  - f. Read the 'Op code' numbers of BMC. This is the current versions of BMC on the system.
3. Determine the SDR version by running the FRUSDR utility.
  - a. Type the command: **FRUSDR -d sdr**. This command will display the SDR records in your system. During the display hit 'enter' when the screen pauses.
  - b. The last SDR record will display the SDR version loaded on the system

**After the update, the following should be the final configuration of the system:  
BIOS 109, BMC 28, and SDR15**

End of update procedure.