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ORACLE®

Oracle Communications, HP Solutions Firmware Upgrade Pack, Release 2.2.13

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Table of Contents

Table of Contents	3
1. Introduction	4
1.1 Purpose and Scope	4
1.2 Acronyms.....	4
1.3 Terminology.....	4
2. HP Solutions Firmware Content	5
2.1 HP Solutions Firmware Baselines and Exceptions	5
2.2 HP Solutions Firmware Components Upgraded	5
2.2.1 HP SPP Server Firmware Components	5
2.2.2 HP Miscellaneous Firmware Components	6

List of Tables

Table 1. Acronyms	4
Table 2. Terminology	4
Table 3. Firmware Components	6
Table 4. HP and Non-HP Firmware Components	7

1. Introduction

1.1 Purpose and Scope

When a customer buys their HP ProLiant hardware through Oracle we act as the OEM provider of firmware updates through the HP Solutions Firmware Upgrade Pack releases. For Software Centric Customers this is not legally possible.

This document lists the firmware versions approved for this HP Solutions Firmware Upgrade Pack release to assist customers with upgrading their HP hardware. Also, additional instructions and guidance on the firmware upgrades has been provided where possible.

1.2 Acronyms

Table 1. Acronyms

Acronym	Definition
HP	Hewlett-Packard Development Company, L.P.
FUP	Firmware Upgrade Pack
iLO	Integrated Lights-Out
IOS	Internetwork Operating System
IP	Internet Protocol
MD5	The MD5 algorithm is a widely used hash function. It is commonly used to produce hashes of files that can then be verified against the original file by the md5sum program.
OA	Onboard Administrator
PM&C	Platform Management & Configuration
RMS	Rack Mount Server
ROM	Read Only Memory
SAS	Serial attached SCSI
SCSI	Small Computer System Interface
SPP	Service Pack for ProLiant
TPD	Tekelec Platform Distribution
GUI	Graphical User Interface

1.3 Terminology

Table 2. Terminology

Acronym	Definition
Firmware	Coded instructions and data programmed directly into the circuitry of read-only memory for controlling the operation of the server or one of its devices.
Blade System	The HP c-Class Blade System which refers to the c7000 enclosure and all of its contained server and storage blades, including its management software and firmware.
Upgrade	The process of converting an HP hardware component from its current firmware release to a newer release.

2. HP Solutions Firmware Content

2.1 HP Solutions Firmware Baselines and Exceptions

Firmware packages in this document have a specified **Minimum Supported Version**, **Current Supported Version**, and **Maximum Supported Version**. The Current Supported Version is the version currently provided by this HP FUP Release. Systems should be upgraded to at least the Minimum Supported Version where the presently-installed firmware is of an earlier version. In some cases, newer versions than the Current Supported Version may be available. While installing these newer versions is typically acceptable, there are several known incompatibilities that should be considered. Please consult all footnotes.

2.2 HP Solutions Firmware Components Upgraded

The HP FUP contains multiple firmware components contained in two different software images included in the pack. The following sections identify the main firmware items and versions supported on each piece of media. Refer to the HP Solutions Firmware Upgrade Pack Upgrade Guide document, included with this release, for details on media usage and firmware installation procedures.

Important: For the versions indicated below, here are guidelines for reading the Table 3:

- **Minimum Supported FW Version** — If a component has a firmware version older than this, it must be upgraded.
- **Current Supported FW Version** — This is the version of firmware contained in this HP FUP release.
- **Maximum Supported FW Version** — If a component has a firmware version newer than this, it must be downgraded.

2.2.1 HP SPP Server Firmware Components

Warning: Creating/using bootable USB SPP media to upgrade HP RMS firmware is currently unsupported. All other methods for upgrading HP RMS firmware detailed in the HP FUP Upgrade Procedures Document are still supported.

Table 3 lists the main firmware components relating to Oracle-supported HP ProLiant Rack Mount and Blade servers which are updated automatically, if applicable, using the HP SPP ISO.

Note: System ROM versions are often interchangeably written with either a **yyyy.mm.dd** format or a **mm/dd/yyyy** format. For example, **05/02/2011** is equivalent to **2011.05.02**.

Note: Gen9v1 servers use the Intel E5-XXXX v3 processors.

Table 3. Firmware Components

Component	Minimum Supported FW Version	Current Supported FW Version ¹	Maximum Supported FW Version
System ROM for DL360p Gen8	2013.09.08	2015.07.01	no maximum
System ROM for DL360 Gen9v1	2016.09.13	2016.09.13	no maximum
System ROM for DL380p Gen8	2015.07.01	2015.07.01	no maximum
System ROM for DL380 Gen9v1	2016.09.13	2016.09.13	no maximum
System ROM for BL460c Gen8	2013.09.08	2015.06.01	no maximum
System ROM for BL460c Gen9v1	2018.5.21	2018.5.21	no maximum
Power Management Controller for all Gen8 Servers	3.3	3.3	no maximum
Power Management Controller for all Gen9 Servers	1.0.9	1.0.9	no maximum
HP 366M Intel Quad Port 1GbE	1.1446.0 0x80000DA9	1.1446.0 0x80000DA9	no maximum
HP 331i Broadcom 4-port 1Gb	1.37	1.46	no maximum
HP 331FLR Broadcom 4-port 1Gb	1.37	1.46	no maximum
HP 331T Broadcom 4-port 1Gb	1.37	1.46	no maximum
HP 530FLB Broadcom 2-port 10Gb	7.14.79	7.14.79	no maximum
HP 530M Broadcom 2-port 10Gb	7.14.79	7.14.79	no maximum
HP 560FLB Intel 2-port 10Gb	1.1446.0 0x800008C7	1.1446.0 0x800008C7	no maximum
HP 560M Intel 2-port 10Gb	0x8000080b	0x8000083D	no maximum
HP 560SFP+ Intel 2-port 10Gb	0x80000811	0x80000835	no maximum
HP 560FLR-SFP+ Intel 2-port 10Gb	0x80000838	0x80000838	no maximum
Smart Array P220i/P420i/P420/P421	8.32	8.32	no maximum
Smart Array P244br/P246br/P440ar/P840	6.60	6.60	no maximum
HP 12Gb SAS Expander	2.09	2.10	no maximum
D2200sb Storage Blade (internal P410i)	6.40	6.64	no maximum
D2220sb Storage Blade (internal P420i)	8.00	8.00	no maximum
iLO4 for all Gen8 and Gen9 DL/BL Servers	2.61 Jul 27 2018	2.61 Jul 27 2018	no maximum
SAS Storage Disks (Multiple Part Numbers included)	Various	Various	no maximum

2.2.2 HP Miscellaneous Firmware Components

Table 4 lists various HP and non-HP firmware components related to the HP Solutions that are updated manually from the HP Misc Firmware ISO.

Important: Mated switches of the same model must have matching firmware versions.

¹ These are the firmware versions contained in this release.

Table 4. HP and Non-HP Firmware Components

Component	Minimum Supported FW Version	Current Approved FW Version	Maximum Supported FW Version	Physical File Name ²
OA	4.85	4.85	4.85	hpoa485.bin
Cisco 4948E-F Switch IOS	12.2(54)WO	12.2(54)WO	12.2(54)WO	cat4500e-entservicesk9-mz.122-54.WO.bin
Cisco 4948E-F Switch PROM	12.2(44r)SG9	12.2(44r)SG9	no maximum	N/A ³
Cisco 4948E Switch IOS	12.2(54)XO	12.2(54)XO	12.2(54)XO	cat4500e-entservicesk9-mz.122-54.XO.bin
Cisco 4948E Switch PROM	12.2(44r)SG8	12.2(44r)SG8	no maximum	N/A ³
Cisco 3020 Switch IOS (For NetConfig Systems Only)	12.2(58)SE1	12.2(58)SE1	12.2(58)SE1	cbs30x0-ipbasek9-tar.122-58.SE1.tar
HP 6120XG Switch	Z.14.51	Z.14.51	Z.14.51	Z_14_51.swi
HP 6125G Switch	5.20.99, Release 2112P07	5.20.99, Release 2112P07	5.20.99, Release 2112P07	6125-CMW520-R2112P07.bin
HP 6125XLG Switch	7.1.045, Release 2432P01	7.1.045, Release 2432P01	7.1.045, Release 2432P01	6125XLG-CMW710-R2432P01.ipe

² All files are located off the root of the MISC ISO in the **/files** directory.

³ There is no file included for these PROM versions as they are the first supported PROM version for their particular switch from CISCO. Because of this all switches will be at least at the specified version.