Intended audience

This document is for the person who installs, administers, and troubleshoots servers and storage systems. HP assumes you are qualified in the servicing of computer equipment and trained in recognizing hazards in products with hazardous energy levels.
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New firmware CD features

HP Smart Update Manager updates

- Source Selection Screen—This new screen enables the user to specify where to get components for updating the targets by using one or more of the following methods:
  - Specify a directory.
    This option enables you to select the source directory for the components you want to deploy. It can be located on a locally accessible file system. The default location is the directory from which HP Smart Update Manager is executed.
  - Check HP.com
    This option enables you to get firmware and software components located on the HP ftp site. The ftp site contains the latest versions of the firmware and software components available from HP. The applicable components (denoted with an HP.com icon) are available for selection on the Select Items to be Installed screen.
    When using this method, both firmware and software components are available for selection, depending on the options set on the Set Bundle Filter screen.
    The components are not downloaded from the HP ftp site to a target until you select the Install button, unless the component is needed to discover supported devices. If components are needed for discovery, you are prompted to allow this action.
  - Include components previously downloaded from HP.com
    This option includes the components that have been previously downloaded from the HP ftp site as available for selection on the Select Items to be Installed screen.
    The default location for the previously downloaded components is the %TEMP%\hp_sum\RepositoryManager\Rep xx\<component_number> directory.
- HPSUM enhanced logging
  A new log file that contains detailed information on the execution of HP Smart Update Manager. The filename is C:\cpqsystem\hp\log\hpsum_execution_log_<date>_<time>.log.
- Support for firmware smart components for the following options:
  - HP Smart Array P212 Controller*
  - HP Smart Array P410 Controller*
  - HP Smart Array P411 Controller*
  *Support includes flashing firmware on the hard drive managed by this controller.

New operating system support

- Red Hat Enterprise Linux 5.3 (x86 and AMD64/EM64T)
- SUSE Linux Enterprise 11 (x86 and AMD64/EM64T)
• Microsoft® Windows® 2008 SP2
• Microsoft® Windows® 2008 Foundation

**Added firmware**

• Online ROM Flash Component for Windows - HP ProLiant BL460c G5 (I23) Servers
• Online ROM Flash Component for Linux - HP ProLiant BL460c G5 (I23) Servers
• Online ROM Flash Component for Windows - HP ProLiant DL385 G5p (A22) Servers
• Online ROM Flash Component for Linux - HP ProLiant DL385 G5p (A22) Servers
• Firmware CD Supplemental Update / Online ROM Flash Component for Linux - DG072BABC and DF146BABC drives
• Online ROM Flash Component for Windows - DG072BABC and DG146BABC drives
• Firmware CD Supplemental Update / Online ROM Flash Component for Linux - Smart Array P212, P410, and P411
• Online ROM Flash Component for Windows - Smart Array P212, P410, and P411

**Removed firmware**

For this revision, no firmware was removed from the CD.

**Updated firmware**

Updated some Linux components to support SUSE Linux Enterprise 1.1
Updated firmware for the following ProLiant Servers and supported options:
• System ROMs for HP ProLiant ML/DL/BL servers
• Storage Array Controllers
• Lights Out Management (iLO2 firmware)
• Network (NIC firmware)
• HP BladeSystem c-Class Onboard Administrator
• HP tape drives
• SAS and SATA hard drives
Hardware support

Firmware on the CD

For the complete list of firmware on the CD, see the file cdcontent-fw.htm on the CD.
History of previous releases

Firmware maintenance 8.40

- HP Smart Update Manager updates: Added Trusted Platform Module (TPM) support.
  
  If a TPM is detected in a system, HP Smart Update Manager warns users, before selecting components for installation, with the following message:
  
  CAUTION: A Trusted Platform Module (TPM) has been detected in this system. Failure to perform proper OS encryption procedures will result in loss of access to your data if recovery key is not available. Recommended procedure for Microsoft Windows(R) BitLocker(TM) is to "suspend" BitLocker prior to System ROM or Option ROM firmware flash. If you do not have your recovery key or have not suspended BitLocker, exit this flash: Failure to follow these instructions will result in loss of access to your data.
  
- For this revision, no new operating system support was added.
  
- Added firmware: SATA Online HDD firmware components were added to the CD for servers and supported options.
  
- For this revision, no firmware was removed from the CD.
  
- Updated firmware for the following ProLiant Servers and supported options:
    - System ROMs for HP ProLiant ML/DL/BL servers
    - Storage Array Controllers
    - Storage Disks (hard drives)
    - Lights Out Management (iLO2 firmware)
    - Network (NIC firmware)
    - HP BladeSystem c-Class Onboard Administrator
    - HP tape drives
    - SAS and SATA hard drives

Firmware maintenance 8.30

- HP Smart Update Manager updates: Added the ability to deploy Lights Out Management (iLO or iLO2) firmware directly to an iLO or iLO 2 by specifying an iLO or iLO 2 network address
  
- New Operating System support: Red Hat Enterprise Linux 4.7
  
- For this revision, no firmware was added to the CD for servers and supported options.
  
- Removed firmware from the CD (this firmware is baselined on the Firmware Maintenance CD and is still available on the HP website (http://www.hp.com)): ROMPaq for HP Integrated Lights-Out Management Controller v1.92
  
- Updated firmware for the following ProLiant Servers and supported options:
o System ROMs for HP ProLiant ML/DL/BL servers
o Storage Array Controllers
o Storage Disks (hard drives)
o Lights Out Management (iLO2 firmware)
o Network (NIC firmware)
o HP BladeSystem c-Class Onboard Administrator
o HP tape drives
o SAS and SATA hard drives

**Firmware maintenance 8.20**

- HP Smart Update Manager updates:
  - Added Section 508 support
  - Added support for updating SATA hard drive firmware components (online), based on the following requirements:
    - The SATA hard drive firmware component supports online updating.
    - The correct version of the Smart Array controller firmware is on the server.
  - Prevented components that do not support virtualized environments from installing on a guest in a virtualized environment
  - Added keyboard support

- New operating system support:
  - Microsoft® Windows® Small Business Server 2008
  - Microsoft® Windows® Essential Business Server
  - Red Hat Enterprise Linux 5.2
  - SUSE LINUX Enterprise Server 10 SP2

- Added firmware to the CD for the following servers and supported options:
  - SATA hard drives in online mode (requires a Smart Array controller at firmware version provided on the Firmware CD and a supported SATA drive type)
  - Modular Smart Array 60 and Modular Smart Array 70 storage enclosure firmware
    - Online support is available if the SATA hard drive firmware component supports it, and if the correct version of the Smart Array controller firmware is on the server.

- Removed firmware from the CD (this firmware is still available on hp.com and is baselined on the Firmware Maintenance CD 8.10):

- Smart Array 5300 Controller components:
  - HP SATA HBA w/RAID
  - HP ProLiant BL p-Class
  - All ROMPaq Components
  - ROM Flash Component - BF01885A34 drives
  - ROM Flash Component - BF03685A35 drives
  - ROM Flash Component - BF07285A36 drives
- ROM Flash Component - BF03664664 drives
- ROM Flash Component - BF018863B8, BF036863B9, and BF072863BA drives
- ROM Flash Component - BF00988282, BF01888283, BF03688284, BF03698287 drives
- ROM Flash Component - BD00478273, BD0046826A, BD00978274 drives
- ROM Flash Component - BD03698276, BD03688272, BD0729827A, BD07288277 drives

- Updated firmware for the following ProLiant servers and supported options:
  - System ROMs for HP ProLiant ML/DL/BL servers
  - Storage array controllers
  - Storage disks (hard drives)
  - Lights Out Management (iLO2 firmware)
  - Network (NIC firmware)
  - HP BladeSystem c-Class Onboard Administrator
  - HP tape drives
  - SAS and SATA hard drives

## Firmware maintenance 8.10

- HP Smart Update Manager updates
  - Added support for flashing Emulex HBA firmware (offline only)

- New operating system support
  - No new operating systems for this release

- Added firmware to the CD for the following supported options:
  - Emulex HBA

- Removed firmware from the CD (this firmware is still available on hp.com and is baselined on the Firmware Maintenance CD 8.00):
  - MSA60 and MSA70 (v1.42b)
  - HP Integrated Lights-Out Management Controller (SP35629.exe)
  - Firmware and BIOS for HP SATA HBA with Raid (SP34281.exe)
  - Dual CH Storage Controller - Windows® (version 5.05.11 (A))
  - Ultra 3 Dual Channel HBA BIOS (Controller Firmware) - Windows® (version: 3.02.3 (A))
  - Ultra 3 Single Channel HBA BIOS (Controller Firmware) - Windows® (version: 3.02.3 (A))
  - ROM Flash Component - AC036322C2 drives - Linux (version: 3A12 (F))
  - ROM Flash Component - AD018322BC drives - Linux (version: 3A12(E))
  - ROM Flash Component - BD004153C3, and BD004253C4 drives - Linux (version B417(F))
  - ROM Flash Component - AD00435332 drives - Linux (version A417(E))
  - ROM Flash Component - AC036322C2 drives - Linux (version: 3A12 (F))
  - ROM Flash Component - BD018122C0, and BD018222C1 drives - Linux (version: 3B12(F))
  - ROM Flash Component - BD009122BA, and BD009222BB drives - Linux (version: 3B12(F))
  - ROM Flash Component - BF01864663 drives - Linux (version 3B0B(G))
  - ROM Flash Component - BD004153C3, and BD004253C4 drives - Linux (version B417(F))
  - ROM Flash Component - AD00435332 drives - Linux (version A417(E))
- ROM Flash Component - BD00965333, and BD00975334 drives - Linux (version B917(F))
- ROM Flash Component - AD00935335 drives - Linux (version A917(F))
- ROM Flash Component - BF01865222 and BF03665223 drives - Linux (version B014(H))
- ROM Flash Component - BD0186459A, BD018745A3, BD0366459B, BD036745A4 and BD0726459C drives - Linux (version B016(G))
- ROM Flash Component - AD018345A6 drives - Linux (version A016(E))
- ROM Flash Component - AD00932372, AD01832375, and AC03632378 drives - Linux (version AC1G(E))
- ROM Flash Component - BD00962373, BD00972374, BD01862376, BD01872377, and BC0367237A drives - Linux (version BC1G(E))
- ROM Flash Component - BD00912578 and BD01812579 drives - Linux (version: BC1G(E))
- ROM Flash Component - AD00933626 and AD01833627 drives - Linux (version: ADCB(E))
- ROM Flash Component - BD009635CB, BD00973623, BD018635CC, BD01873624, BD03663622, BD03673625, and BC072638A2 drives - Linux (version: BDCB(E))
- ROM Flash Component - AD01836222, AD00935CCC, and AD00435CCB drives - Linux (version: HPA6(D))
- ROM Flash Component - BD01865CC4, BD01875CC7, BD00965CC3, BD00975CC6, BD00415CBC, and BD00425CC2 drives - Linux (version HPB6(E))
- ROM Flash Component - BD00962A66, BD00972A69, BD01862A67, and BD01872A6A drives - Linux (version B008 (E))
- ROM Flash Component - BD0096349A, BD009734A3, BD0186349B, and BD018734A4 drives - Linux (version 3B15 (E))
- ROM Flash Component - BB009135B4, BB009235B6, BB018135B5, and BB018235B7 drives - Linux (version B022(D))
- ROM Flash Component - BD009635C3, BD009735C6, BD018635C4, BD018735C7, BD036635C5, and BD036735C8 drives - Linux (version B022 (D))
- ROM Flash Component - BD01864544, BD03664545, and BD07264546 drives - Linux (version B20D (E))
- ROM Flash Component - BD036659CC drive - Linux (version 3B01 (C))
- ROM Flash Component - BD07265A22 drive - Linux (version: 3B01 (C))
- ROM Flash Component - DGHS09U, DGHS09Y, and DGHS18Y drives - Linux (version:03F1(C))
- ROM Flash Component - ST19171N, ST19171W, and ST19171WC drives - Linux (version: 9A10 (C))
- Online ROM Flash Component for Linux - HP ProLiant BL25p/BL45p (A02) Servers (version: 2007.02.14)
- Online ROM Flash Component for Windows® - HP ProLiant BL30p (I10) Servers (version: 2005.10.27 (B))
- Online ROM Flash Component for Linux - HP ProLiant BL30p (I10) (version: 2005.10.27)
- Systems ROMPaq Firmware Upgrade Diskette for HP ProLiant BL30p (I10) Servers (version: 4.06 (110-10/27/2005)
- Online ROM Flash Component for Windows® - HP ProLiant BL40p (I02) (version: 2004.09.15)
- Online ROM Flash Component for Linux - HP ProLiant BL40p (I02) (version: 2004.09.15)
- Online ROM Flash Component for Linux - HP ProLiant DL360 G4 (P52) (version: 2007.07.16)
- Systems ROMPaq Firmware Upgrade for HP ProLiant DL360 G4 (P52) Servers (version: 2007.07.16(A))
- Online ROM Flash Component for Windows® - HP ProLiant DL360 G4 (P54) Servers (version: 2007.07.16)
- Online ROM Flash Component for Linux - HP ProLiant DL360 G4 (P54) Servers (version: 2007.07.16)
- Systems ROMPaq Firmware Upgrade for HP ProLiant DL360 G4 (P54) Servers (version: 2007.07.16 (A))
- Online ROM Flash Component for Windows® - HP ProLiant DL385 (A05) (version: 2006.03.01)
- Online ROM Flash Component for Linux - HP ProLiant DL385 (A05) (version: 2006.03.01)
- Online ROM Flash Component for Windows® - HP ProLiant ML310 G2 (W01) (version: 2006.01.20)
- Online ROM Flash Component for Linux - HP ProLiant ML310 G2 (W01) (version: 2006.01.20)
- Systems ROMPaq Firmware Upgrade Diskette for HP ProLiant ML310 G2 (W01) Server (version: 2006.01.20 (A))
- Online ROM Flash Component for Windows® - HP ProLiant ML310 G3 (W02) Servers (version: 2007.08.03)
- Online ROM Flash Component for Linux - HP ProLiant ML310 G3 (W02) Servers (version: 2007.08.03)
- Systems ROMPaq Firmware Upgrade for HP ProLiant ML310 G3 (W02) Servers (2007.08.03 (A))
- Online ROM Flash Component for Linux - HP ProLiant ML370 G4 (P50) Servers (version: 2007.07.19)
- Systems ROMPaq Firmware Upgrade for HP ProLiant ML370 G4 (P50) Servers (version: 2007.07.19 (A))
Online ROM Flash Component for Windows® - HP ProLiant ML570 G3 (P37) Servers (version: 2007.10.23)

Online ROM Flash Component for Linux - HP ProLiant ML570 G3 (P37) Servers (version: 2007.10.23)

Systems ROMPaq Firmware Upgrade for HP ProLiant ML570 G3 (P37) Servers (version: 2007.10.23 (A))

- Updated firmware for the following ProLiant Servers and supported options:
  - System ROMs for HP ProLiant ML/DL/BL servers
  - Storage Array Controllers
  - Storage Disks (hard drives)
  - Lights Out Management (iLO2 firmware)
  - Network (NIC firmware)
  - HP BladeSystem c-Class Onboard Administrator
  - HP tape drives

### Firmware maintenance 8.00

- HP Smart Update Manager updates
  - Added support for flashing QLogic HBA firmware (offline only)
  - Additional command parameters for HP Smart Update Manager CLI. For additional information, see the HP ProLiant Firmware Maintenance CD User Guide or the CLI help file.

- New operating system support
  - Microsoft® Windows Server® 2008
  - Red Hat Linux 5 Update 1 (x86 and AMD 64/EM64T)
  - Red Hat Linux 4 Update 6 (x86 and AMD 64/EM64T)
  - SuSE Linux Enterprise Server 9 SP4 (x86 and AMD 64/EM64T)

- Added firmware to the CD for the following supported options:
  - SAS Storage Disk (online and offline)
  - QLogic HBA Firmware component
  - HP Tape Firmware component

- Removed firmware from the CD for the following supported options:
  - All SoftPaqs released before June 2006
  - All NetWare components
  - HP 64-Bit/66-MHz Ultra 3 Dual Channel HBA
  - HP 64-Bit/66-MHz Ultra 3 Single Channel HBA
  - SMART-2 Family and Smart Array 221

- Updated firmware for the following ProLiant Servers and supported options:
  - System ROMs for ProLiant ML/DL/BL servers
  - Storage Array Controllers
  - Storage Disks (hard drives) (SATA - offline only; SAS offline and online)
- Lights Out Management (iLO2 firmware)
- Network (NIC firmware)
- HP BladeSystem c-Class Onboard Administrator

**Firmware maintenance 7.91**

- HP Smart Update Manager updates
  - Additional command parameters for HP Smart Update Manager CLI. For additional information, see the HP ProLiant Firmware Maintenance CD User Guide or the CLI help file.
- Added firmware to the CD for the following supported options:
  - Smart Array E500 Controller
- Removed firmware from the CD for the following supported options (this firmware is still available on hp.com and is baselined on the Firmware Maintenance CD 7.90):
  - Smart Array Controller RAID LC2
  - SMART-2 Controller DH
  - SMART-2 Controller SL
  - SMART-2 Controller P
  - SMART-2 Controller E
  - SMART-2 Controller 221
- Updated firmware for the following ProLiant Servers and supported options:
  - System ROMs for ProLiant ML/DL/BL servers
  - Storage Array Controllers
  - Storage Disks (hard drives) (SCSI offline only, SAS offline and online)
  - Lights Out Management (iLO2 firmware)
  - Network (NIC firmware)
  - p-Class interconnect switches
  - HP BladeSystem c-Class Onboard Administrator

**Firmware maintenance 7.90**

- HP Smart Update Manager updates
  - Additional command parameters for HP Smart Update Manager CLI to support remote firmware deployment. For additional information, see the HP ProLiant Firmware Maintenance CD User Guide or the CLI help file.
  - Support for deploying firmware and PSP software components from the same session.
  - Support for flashing firmware on hard drives internally or externally attached to ProLiant servers via the Emulex LP952L, the QLogic QLE 220 HBA, or the Smart Array E500 controller.
- New operating system support
  - Red Hat Enterprise Linux 4 Update 5 (x86 and AMD64/EM64T)
  - SUSE LINUX Enterprise Server 10 SP1 (x86 and AMD64/EM64T)
Added firmware to the CD for the following supported options:
  o Modular Smart Array 60 and Modular Smart Array 70 storage enclosure

Removed firmware from the CD for the following supported options (this firmware is still available on hp.com):
  o ProLiant BL e-Class GbE Interconnect Switch Firmware for Windows
  o ProLiant BL e-Class GbE Interconnect Switch Firmware for Linux
  o Tape Options ROMPaq

Updated firmware for the following ProLiant Servers and supported options:
  o System ROMs for HP ProLiant ML/DL/BL servers
  o Storage Array Controllers
  o Storage Disks (hard drives) (SCSI and SATA - offline only, SAS offline and online)
  o Lights Out Management (RILOEII/iLO/iLO2 firmware)
  o Network (NIC firmware)

Firmware maintenance 7.80

  • HP Smart Update Manager updates
    o Support for updating NIC firmware
    o Support for updating Modular Smart Array 60 and Modular Smart Array 70 storage enclosure firmware
    o Support for updating SATA hard drives in the following products:
      — ProLiant server drive cage using a Smart Array controller (E200, E200i, P400, P400i, P600, P800)
      — Modular Smart Array 20/50/60/70 storage enclosure connected to a ProLiant server using a Smart Array controller (For the latest support matrix, see the HP website [http://www.hp.com/go/msa](http://www.hp.com/go/msa)).
      — MSA20 storage enclosure connected to an MSA1500cs connected to a ProLiant server using a fibre channel HBA (For supported HBAs, see the technical release notes.)
  
  • New operating system support
    o Red Hat Enterprise Linux 5

  • Updated firmware for the following ProLiant servers and supported options:
    o System ROMs for HP ProLiant ML/DL/BL servers
    o Storage Array Controllers
    o Storage Disks (hard drives) (SCSI and SATA - offline only, SAS offline and online)
    o Blade Infrastructure (interconnect switch firmware)
    o Lights Out Management (RILOEII/iLO firmware)
    o Network (NIC firmware)
    o HP BladeSystem c-Class Onboard Administrator
Firmware maintenance 7.70

- HP Smart Update Manager updates
  - Ability to deploy firmware remotely from one to many servers. Support is limited to the following operating systems:
    - From Linux (Red Hat Enterprise Linux 3 and 4 and SUSE LINUX Enterprise Server 9 and 10) to Linux (Red Hat Enterprise Linux 3 and 4 and SUSE LINUX Enterprise Server 9 and 10)
  - Support for updating Online HP BladeSystem c-Class Onboard Administrator firmware from a remote Windows® or Linux system (online only)
  - Support for updating selected SATA hard drive firmware (offline only)
  - Support for scripting HP Smart Update Manager session for a local host

- Support for installing Network (NIC) firmware from the Firmware Update tab in the Firmware CD user interface (online only)

- New operating system support
  - SUSE Linux Enterprise Server 10

- Updated firmware for the following ProLiant servers and supported options:
  - System ROMs for HP ProLiant ML/DL/BL servers
  - Storage Array Controllers
  - Storage Disks (hard drives) (SCSI and SATA (New) - offline only, SAS offline and online)
  - Blade Infrastructure (interconnect switch firmware)
  - Lights Out Management (RILOE/iLO firmware)
  - Network (NIC firmware)
  - HP BladeSystem c-Class Onboard Administrator

Firmware maintenance 7.61

- Added support for updating SCSI hard drive firmware on the following Modular Smart Array (MSA)-related products:
  - MSA Fibre Channel enclosures
    - MSA1000 and attached MSA30 enclosures
    - MSA1500cs and attached MSA30 enclosures
  - The MSA enclosures must be attached using one of the following Fibre Channel HBAs in a ProLiant server.

<table>
<thead>
<tr>
<th>HP model</th>
<th>Description</th>
<th>Vendor model name</th>
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<tbody>
<tr>
<td>FCA2210</td>
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<td>Emulex LPe11002</td>
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</table>

- **HP Smart Update Manager updates**
  - Add Supplemental Update is functional again
  - Able to deploy iLO and iLO2 firmware successfully
- **Updated firmware for the following ProLiant servers and supported options**
  - Select System ROMs for HP ProLiant ML/DL/BL servers
  - Storage Array Controller - Smart Array P600 Controller