

# HP ProLiant Firmware Maintenance CD 8.40

## What's New



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### **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

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.

## New operating system support

No new operating system support for this release

## Added firmware

SATA Online HDD firmware components

## Removed firmware

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

## Updated firmware

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

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# Hardware support

For a list of HP ProLiant supported servers, see the Firmware Maintenance CD Server Support Matrix (<ftp://ftp.compaq.com/pub/products/servers/management/smartstart/FWServerSupportMatrix.pdf>).

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# Firmware on the CD

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

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# History of previous releases

## 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:
  - 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 8.20

- 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 - AD009322B9 drives - Linux (version: 3A12(E))
  - 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 ACJG (E))
  - ROM Flash Component - BD00962373, BD00972374, BD01862376, BD01872377, and BC0367237A drives - Linux (version BCJG(E))
  - ROM Flash Component - BD00912578 and BD01812579 drives - Linux (version: BCJG(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 Windows® - HP ProLiant BL25p/BL45p (A02) Servers (version:2007.02.14)
- Online ROM Flash Component for Linux - HP ProLiant BL25p/BL45p (A02) Servers (version: 2007.02.14)
- Systems ROMPaq Firmware Upgrade for HP ProLiant BL25p/BL45p (A02) Servers (version: 2007.02.14(A))
- 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(I10-10/27/2005))
- 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)
- Systems ROMPaq Firmware Upgrade Diskette for HP ProLiant BL40p (I02) Server (version: 4.07 (I102-9/15/2004))
- Online ROM Flash Component for Windows® - HP ProLiant DL360 G4 (P52) Servers (version: 2007.07.16)
- 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 G4p (P54) Servers (version: 2007.07.16)
- Online ROM Flash Component for Linux - HP ProLiant DL360 G4p (P54) Servers (version: 2007.07.16)
- Systems ROMPaq Firmware Upgrade for HP ProLiant DL360 G4p (P54) Servers (version: 2007.07.16 (A))
- Online ROM Flash component for Windows® - HP ProLiant DL380 G4 (P51) Server (version: 2007.07.19)
- Online ROM Flash Component for Linux - HP ProLiant DL380 G4 (P51) Servers (version: 2007.07.19)
- Systems ROMPaq Firmware Upgrade for HP ProLiant DL380 G4 (P51) Servers (version: 2007.07.19 (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 Windows® - HP ProLiant ML370 G4 (P50) Servers (version: 2007.07.19)
- 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:
  - 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):
  - ProLiant BL e-Class GbE Interconnect Switch Firmware for Windows
  - ProLiant BL e-Class GbE Interconnect Switch Firmware for Linux
  - Tape Options ROMPaq
- 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 - offline only, SAS offline and online)
  - Lights Out Management (RiLOEII/iLO/iLO2 firmware)
  - Network (NIC firmware)

## Firmware maintenance 7.80

- HP Smart Update Manager updates
  - Support for updating NIC firmware
  - Support for updating Modular Smart Array 60 and Modular Smart Array 70 storage enclosure firmware
  - 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>.)
- 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
  - Red Hat Enterprise Linux 5
- 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 - 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 7.70

- HP Smart Update Manager updates
  - Ability to deploy firmware remotely from one to many servers. Support is limited to the following operating systems:
    - From Microsoft® Windows® (Microsoft® Windows Server® 2003 and Microsoft® Windows Server® 2003 x64 Editions) to Microsoft® Windows® (Microsoft® Windows Server® 2003 and Microsoft® Windows Server® 2003 x64 Editions)
    - 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.

HP model	Description	Vendor model name
FCA2210	Single Channel, 2 Gb, PCI-X	QLogic QLA2340
FCA2214	Single Channel, 2 Gb, PCI-X	QLogic QLA2340
FCA2214DC	Dual Channel, 2 Gb, PCI-X	QLogic QLA2342DC
FC1143	Single Channel, 4 Gb, PCI-X v2.0	QLogic QLA2460
FC1243	Dual Channel, 4 Gb, PCI-X v2.0	QLogic QLA2462
FC1142SR	Single Channel, 4 Gb, PCI-e	QLogic QLE2460
FC1242SR	Dual Channel, 4 Gb, PCI-e	QLogic QLE2462
A7523A	Single Channel, 2 Gb, PCI	QLogic QLA200
FCA2404	Single Channel, 2 Gb, PCI-X	Emulex LP9802
FCA2402DC	Dual Channel, 2 Gb, PCI-X	Emulex LP9802DC
A7387A	Dual Channel, 2 Gb, PCI-X	Emulex LP1050DC
A7388A	Single Channel, 2 Gb, PCI-X	Emulex LP1050
A7560A	Single Channel, 2 Gb, PCI-e	Emulex LP1050ex-f2
FC2143	Single Channel, 4 Gb, PCI-X v2.0	Emulex LP1150
FC2142SR	Single Channel, 4 Gb, PCI-e	Emulex LPe1150
FC2243	Dual Channel, 4 Gb, PCI-X v2.0	Emulex LP11002
FC2242SR	Dual Channel, 4 Gb, PCI-e	Emulex LPe11002

- 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

# Firmware maintenance 7.60

- c-Class enclosure firmware updates (online only) - Windows® and Linux HP Onboard Administrator firmware components are available on this CD. The Onboard Administrator for the HP BladeSystem c7000 enclosure is the brains of the new c-Class infrastructure.
- Windows® and Linux online firmware flash components for select SAS hard drives are available and can be deployed using HP Smart Update Manager.
- HP Smart Update Manager updates
  - Command line installation of firmware components. See the HP Smart Update Manager User Guide for details.
  - Support for Windows® and Linux online firmware flash components for select SAS hard drives
- 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)
  - Blade Infrastructure (interconnect switch firmware)
  - Lights Out Management (RiLOE/iLO firmware)
  - Network (NIC firmware)
- Support has been removed from the CD for the following servers:
  - HP ProLiant BL10e
  - HP ProLiant BL10e G2
  - HP ProLiant DL320
  - HP ProLiant DL360
  - HP ProLiant DL360 G2
  - HP ProLiant DL380
  - HP ProLiant DL380 G2
  - HP ProLiant DL580
  - HP ProLiant ML330
  - HP ProLiant ML330e
  - HP ProLiant ML330 G2
  - HP ProLiant ML350
  - HP ProLiant ML350 G2
  - HP ProLiant ML370
  - HP ProLiant ML370 G2
  - HP ProLiant ML530
  - HP ProLiant ML570
  - HP ProLiant ML750
- Support has been removed from this CD for the following options:
  - Smart Array 4200 Controller



- Smart Array 4250ES Controller
- Smart Array 431 Controller
- Embedded ROC Controller

Firmware Maintenance CD Version 7.50 should be considered the baseline firmware for these servers and options. Subsequent versions of firmware released after Firmware Maintenance CD Version 7.50 can be obtained from the [hp.com](http://hp.com) website.

## Firmware maintenance 7.50

- p-Class enclosure firmware updates (offline only) - Provides an alternate means for updating this firmware that is not dependent on a server blade. Also helps to easily update enclosure firmware to the minimum version level needed for HP Control Tower.
- HP Smart Update Manager, the ROM Update Utility replacement, is used to deploy firmware in offline and now online mode on Microsoft® Windows® and Linux systems.
- Firmware CD Browser Utility can be used to access all of the firmware updates available on the CD. It allows you to save or install each component in addition to displaying information about the component.
- USB key creator utility allows the Firmware Maintenance CD to be moved to a bootable USB key.