



HP StorageWorks P4000 SAN Solutions

Firmware Compatibility Matrix

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P4300 G2 and P4500 G2 Firmware Recommendations

	Minimum Supported Version	Upgrade Recommendation	Upgrade Mechanism	Associated Customer Advisories	Dependencies	Notes
RAID Controller	3.66	3.66	<p>For SAN/iQ 9.0 and greater:</p> <ul style="list-style-type: none"> Use the CMC Online Upgrades to apply Patch 10102 <p>For SAN/iQ 8.5 and lower:</p> <ul style="list-style-type: none"> Use the standard HP Firmware Upgrade procedure 		None	
Drive Backplane	2.10	2.18	http://h20000.www2.hp.com/bizsupport/TechSupport/SoftwareDescription.jsp?lang=en&cc=us&prodTypeId=15351&prodSeriesId=3884339&swItem=MTX-34dab3580fef4c82a2041adefd&prodNameId=3884340&swEnvOId=4004&swLang=8&taskId=135&mode=4&idx=0		None	Applies to P4500 G2 only
BIOS	08.17.2010	12.01.2010 (installable on SAN/iQ 9.0 and later version only)	<p>For SAN/iQ 9.0 and greater:</p> <ul style="list-style-type: none"> Use the CMC Online Upgrades to apply Patch 10107 			
iLO 2	1.87	2.05	Standard HP Firmware Upgrade options			Release Notes
		2.05	iLO 2 HTTP User Interface			Release Notes

Disk Drive (P410)	Latest	HP recommends using latest HDD firmware available on HP.com	Standard HP Firmware Upgrade options	Review Release Notes for specific HDD model	None	See instructions for details on drive firmware versions Note that you may have more than one model of drive in the node
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P4300 and P4500 Firmware Recommendations

	Minimum Supported Version	Upgrade Recommendation	Upgrade Mechanism	Associated Customer Advisories	Dependencies	Notes
RAID Controller	7.22	7.22	<p>For SAN/iQ 9.0 and greater:</p> <ul style="list-style-type: none"> Use the CMC Online Upgrades to apply Patch 10090 <p>For SAN/iQ 8.5 and lower:</p> <ul style="list-style-type: none"> Use the standard HP Firmware Upgrade procedure 		None Patches 10055 and 10056 not recommended	Applying patch 10056 after RAID Controller 7.22 will revert the system back to RAID Controller 6.86
Drive Backplane	2.02	2.02 Required if using SATA drives Recommended for SAS drives	See instructions in C1938877	C1938877	RAID Controller FW must be at 6.86 or higher	Applies to P4500 only
BIOS	5.18.2009	2010.06.30 System must be at 5.18.2009 or 11.03.2009 before update is applied	Standard HP Firmware Upgrade options		LO-100 3.11 required before updating BIOS	
LO-100	3.11	3.11	Standard HP Firmware Upgrade options		None	
Disk Drive	Latest	HP recommends using latest HDD firmware available on HP.com	Standard HP Firmware Upgrade options	Review Release Notes for specific HDD model	None	See instructions for details on drive firmware versions Note that you may have more than one model of drive

						in the node
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DL320s Firmware Recommendations

	Minimum Supported Version	Upgrade Recommendation	Upgrade Mechanism	Associated Customer Advisories	Dependencies	Notes
RAID Controller	7.22	7.22	<p>For SAN/iQ 9.0 and greater:</p> <ul style="list-style-type: none"> Use the CMC Online Upgrades to apply Patch 10090 <p>For SAN/iQ 8.5 and lower:</p> <ul style="list-style-type: none"> Use the standard HP Firmware Upgrade procedure 		None Patches 10055 and 10056 not recommended	Applying patch 10056 after RAID Controller 7.08 will revert the system back to RAID Controller 6.86
Drive Backplane	1.24	1.24 Required if using SATA drives Recommended for SAS drives	Standard HP Firmware Upgrade options	C01635634	Version 1.24 is required for RAID Controller FW 6.86 and above	Refer to advisory C01635634 for full details on this update
BIOS	6.10.2008	6.10.2008	Standard HP Firmware Upgrade options		None	
iLO 2	1.82 on storage systems running SAN/iQ 8.x 2.05 on storage systems running SAN/iQ 9.0 or later	Recommended	Standard HP Firmware Upgrade options	<p>For Storage Servers using SAN/iQ 8.x Supplemental Firmware Update</p> <p>For Storage Servers using SAN/iQ 9.0 or later Supplemental Firmware Update</p>	None	Review customer advisory prior to update – http://h20000.www2.hp.com/bizsupport/TechSupport/Document.jsp?lang=en&cc=us&objectID=c02475767&jumpid=reg_R1002_USEN

Disk Drive	Latest	HP recommends using latest HDD firmware available on HP.com	Standard HP Firmware Upgrade options	Review Release Notes for specific HDD model	None	See instructions for details on drive firmware versions Note that you may have more than one model of drive in the node
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Checking Your Current Firmware Versions

RAID Controller

- In CMC select your storage system.
- Click Diagnostics, then Hardware Information.
- The current installed Firmware Version can be found under Controller/Cache Items

Drive Backplane

- In CMC select your storage system.
- Click Diagnostics, then Hardware Information.
- The current installed Firmware Version can be found under Backplane Information

BIOS

- In CMC select your storage system.
- Click Diagnostics, then Hardware Information.
- The current installed BIOS Version can be found under Motherboard Information

iLO 2/LO100

- In CMC select your storage system.
- Click Diagnostics, then Hardware Information.
- The current installed Firmware Revision can be found under Motherboard Information then IPMI Information

Disk Drives

- In CMC select your storage system.
- Click Diagnostics, then Hardware Information.
- The current installed Firmware Version can be found under Drive Info.

Software/Firmware Update Instructions

SAN/iQ Software

- Follow the [SAN/iQ Upgrade Guide](#).
- Download the required Centralized Management Console (included in the SAN/iQ Management SW DVD) and any other software components you need from www.hp.com/go/P4000downloads.
- Utilize the CMC Online Upgrades tool to upgrade storage systems.

BIOS

- For DL320s download the [latest BIOS](#) and use the [Creating a bootable USB Device with Supplements](#) or Installing Firmware Using using iLO 2/LO100 procedures for installation.
- For P4x00 download the [latest BIOS](#) to a Windows based system and run the executable file. Insert an empty 512 MB – 2 GB USB Key (This process will destroy all information on the key) then navigate to C:\SWMedia\SPxxxx\ROMPaq USB Key\ and execute HBQUSB.exe (Run as Administrator if using UAC protected system), once complete remove the USB key and using CMC power down the storage system. Insert USB Key into storage system, and power it on. The system should boot from the USB key, using a KVM follow the on-screen instructions.

iLO 2/LO100

- For P4x00 G2 download either [latest iLO 2](#) supplement and use the [Creating a bootable DVD with Supplements](#) procedure for installation or download the [latest iLO 2 HTTP User Interface Download](#) and run the executable selecting the “Extract” option. Once the files are extracted open the iLO 2 HTTP interface, click on the Administration tab, and select the Browse... button on the Select New Firmware Image Screen. Upload the .bin file previously extracted and select Send Firmware Image.
- For DL320s download either [latest iLO 2](#) supplement and use the [Creating a bootable DVD with Supplements](#) procedure for installation or download the [latest iLO 2 HTTP User Interface Download](#) and run the executable selecting the “Extract” option. Once the files are extracted open the iLO 2 HTTP interface, click on the Administration tab, and select the Browse... button on the Select New Firmware Image Screen. Upload the .bin file previously extracted and select Send Firmware Image.
- For P4x00 download the [latest LO100](#) to a Windows based system and run the executable file. Insert an empty 512 MB – 2 GB USB Key (This process will destroy all information on the key) then navigate to C:\SWMedia\SPxxxx\ROMPaq USB Key\ and execute HBQUSB.exe (Run as Administrator if using UAC protected system), once complete remove the USB key and using CMC power down the storage system. Insert USB Key into storage system, and power it on. The system should boot from the USB key, using a KVM follow the on-screen instructions.

Creating a Bootable USB Device with Supplements

Download the [HP USB Key Utility for Windows](#).

Download the [HP Smart Update Firmware DVD 9.30](#).

1. On a Windows based system execute the HP USB Key Utility installer.
2. Run the HP USB Key Utility program. Select the HP Smart Update Firmware DVD 9.30 "*.iso" file, and a USB flash drive.
3. Copy the supplemental update "*.scexe" file(s) to the "HPFWUP930\hp\swpackages" directory on the USB flash drive.
4. Boot the Storage System from the USB flash drive.
5. Select "Interactive Firmware Update Version 9.30"
6. Choose your language and keyboard settings, and accept the user agreement
7. Select the Firmware Updates tab and choose the link "Install Firmware".
8. Do not select a bundle on the "Select Bundle Filter" screen. Choose "Ok".
9. See the following exceptions when choosing from the list of available packages:
 - For DL320s using SAN/iQ version 8.5 or older unselect the iLO 2 version 2.05 upgrade.
 - For DL320s using SAN/iQ version 9.0 or newer you can accept all available upgrades.
 - For P4300, P4500, P4300 G2, P4500 G2 and P4800 G2 you can accept all available upgrades.
10. Choose "Install".
11. Once all upgrades are completed, verify all upgrades where successful, and select "Reboot Now".

Installing Firmware using iLO 2/LO100

This requires the iLO 2/LO100 Advanced License, if you do not have the advanced license you can download a [free 60 day trial](#).

For P4x00 G2 and DL320s use the iLO 2 HTTP User Interface upgrade option to upgrade your iLO 2 firmware to 2.05 before continuing.

Download the [HP USB Key Utility for Windows](#).

Download the [HP Smart Update Firmware DVD 9.30](#).

1. On a Windows based system execute the HP USB Key Utility installer.
2. Run the HP USB Key Utility program, select the HP Smart Update Firmware DVD 9.30 .iso file, and a USB flash drive to install onto.
3. Copy the supplemental update (.scexe) file to /HPFWUP930/hp/swpackages/ on the USB thumb drive.
4. Access your iLO 2/LO100 via your preferred web browser.
5. For DL320s and P4x00 G2 Virtual Media tab, and open the Virtual Media Applet. Use the Virtual USB/Floppy to mount the USB Flash Drive.
6. For P4x00 select Virtual KVM/Media. When the Remote KVM window opens select control, then Virtual Media. Select the USB flash drive for Virtual USB/Floppy.
7. Reboot the Storage System.
8. Select Interactive Firmware Update Version 9.30
9. Choose your language and keyboard settings, and accept the user agreement
10. Select the Firmware Updates tab and click the link Install Firmware.
11. Click Ok without selecting anything on the Select Bundle Filter Screen.
12. When presented a list of available downloads DO NOT accept any iLO 2 upgrades, you can accept all other upgrades.
10. Hit Install
11. Once all upgrades are completed, verify all upgrades indicate Successful, and select reboot now.

Specific Patch Instructions and Notes

7.22 RAID Controller Firmware for P4x00 and DL320s

- Download the [7.22 RAID Controller Firmware](#) file.
- Use any of the update methods outlined in this paper.

2.02 Drive Backplane Firmware for P4500

- Download the [2.02 Drive Backplane Firmware](#) file
- Use any of the update methods outlined in this paper.

1.24 Drive Backplane Firmware for DL320s

- Download the [1.24 Drive Backplane Firmware](#) file
- Use any of the update methods outlined in this paper.

For more information

www.hp.com/go/p4000

www.hp.com/go/p4000downloads

www.hp.com/go/p4000compatibility

Technology for better business outcomes

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