Overview

This document provides instructions for downgrading your HP X1000 or X3000 Network Storage System from the installed Microsoft® Windows® Storage Server™ 2008 operating system to the Microsoft® Windows® Storage Server™ 2003 R2 Standard Edition (Service Pack 2) operating system or Microsoft® Windows® Unified Data Storage Server™ 2003 R2 Enterprise Edition (Service Pack 2) operating system.

The following storage system models support the downgrade:

- HP X1400 Network Storage System
- HP X1600 Network Storage System
- HP X1800 Network Storage System
- HP StorageWorks X1800sb Network Storage Blade
- HP X3400 Network Storage Gateway
- HP X3800 Network Storage Gateway
- HP StorageWorks X3800sb Network Storage Gateway Blade

HP X1000 Network Storage Systems (X1400, X1600, X1800) are downgraded to the Microsoft Windows Storage Server 2003 R2 Standard Edition SP2 operating system; HP X3000 Network Storage Systems (X3400, X3800) are downgraded to the Microsoft Windows Unified Data Storage Server 2003 R2 Enterprise Edition SP2 operating system.

This image installs SDX version 1.0.0a. On X1000 Network Storage Systems ASM version 3.8.0 is also installed.

NOTE:
A newer version of ASM may be available on your product page under Support & Drivers (Business Support Center).
If you choose to use the downgrade image, HP recommends that you qualify your solution on the Windows Storage Server 2008 operating system and migrate to the intended operating system within one year. HP will not provide any service releases for this downgrade image.

When using the downgraded storage system, be sure to refer to the HP StorageWorks documentation that was originally released with the HP ProLiant G5 series of storage servers that shipped with Windows Storage Server 2003 in June 2008.

For ASM, be sure to refer to the ASM 3.8.0 documentation from June through November 2008 at http://h20000.www2.hp.com/bizsupport/TechSupport/DocumentIndex.jsp?contentType=SupportManual&lang=en&cc=us&docIndexId=64179&taskId=101&prodTypeId=12169&prodSeriesId=3239517.

Note that this page is specific to the HP ProLiant DL380 G5 Storage Server; however, the documentation on this page is inclusive of all HP ProLiant G5 Storage Server models.

Before you begin

Installing this downgrade results in the original operating system logical disk being completely overwritten and replaced with a clean installation of the Microsoft Windows Storage Server 2003 operating system. **All data on this disk will be erased.** Before beginning the downgrade process, be sure to back up any data that you would like to restore after the downgrade is complete.

The downgrade process does not overwrite any data that resides on non-OS data volumes; however, HP strongly recommends that you also back up data on these disks in the unlikely event of an unintended data loss.

After the downgrade process is complete, the downgrade image should also be used as the System Recovery media. Subsequent uses of the downgrade image will restore the storage server to its original Windows Storage Server 2003 default OS volume settings.

Downgrading your storage system to Windows Storage Server 2003

**IMPORTANT:**

If your C:\ volume has been renamed with a non-compliant label (that is, any label other than **System** or **OS**), the system downgrade will fail. Before running the system downgrade image, ensure that the C:\ volume is properly labeled; if it is not, rename the volume to either **System** or **OS**.

1. Burn the .iso file to a DVD or create a bootable USB Flash drive containing the .iso image contents.

**NOTE:**

For instructions on creating a USB Flash Drive, see Create a USB Flash Drive.

2. Do one of the following:
   - **a.** To use the direct connect access method, connect a keyboard, monitor, mouse, and DVD drive (if needed) directly to the storage server using a local I/O cable.
   - **b.** To use the remote management access method, access the server using Integrated Lights-Out 2 (iLO 2) or Lights-Out 100 (LO100) from a client PC.
3. Do one of the following:
   a. Insert the downgrade DVD in the DVD drive.
   b. Insert the downgrade USB Flash Drive in a USB port.
   c. Insert the downgrade DVD in the client PC.

**NOTE:**
For more information about using virtual media, see the iLO 2 or LO100 documentation.

4. Read and click through the required EULAs.

5. Click **Restore Factory Image**.
   The downgrade process completes with little user intervention required. The server automatically reboots more than once.

**IMPORTANT:**
Do not interrupt the downgrade process.

6. When the downgrade process nears completion, the Windows Storage Server 2003 desktop prompts for an Administrator user name and password. Log on to the storage system using the default user name **Administrator** and password **hpinvent**.
   Click **OK**.

7. Remove the DVD, USB Flash Drive, or iLO 2/LO100 virtual DVD from the storage system.

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### Create a USB Flash Drive

1. Obtain a blank 8GB (or larger) USB Flash Drive.
2. Insert the USB Flash drive into your workstation or laptop.
3. Open an elevated command prompt with Administrator privileges.
4. At the command prompt, enter `diskpart`.
5. At the diskpart prompt, enter `list disk`.
6. Identify the disk number that corresponds to the flash drive. This is typically the last disk listed.

**WARNING!**
Make sure you have selected the proper drive number by checking the size reported to make sure it matches the size of your USB Flash drive. The `clean` command will remove all partition and formatting information from the drive.

7. Enter `select disk <USB drive number>`. For example, select disk 4.
8. Enter `clean`.
9. Enter `create partition primary`.
10. Enter `select partition 1`.  

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11. Enter `format fs=fat32 quick`.

**NOTE:**
If your USB Flash Drive does not support the FAT32 file system, format the drive as NTFS instead. Omitting the `quick` parameter lengthens the format time considerably.

12. Enter `active` to mark the partition as active.

13. Enter `assign letter=<drive letter>` to assign a drive letter to the USB drive. For example, `assign letter=U`.

14. Select all of the files (including bootmgr) on the image download page.

15. Copy all files to the root of the USB drive.