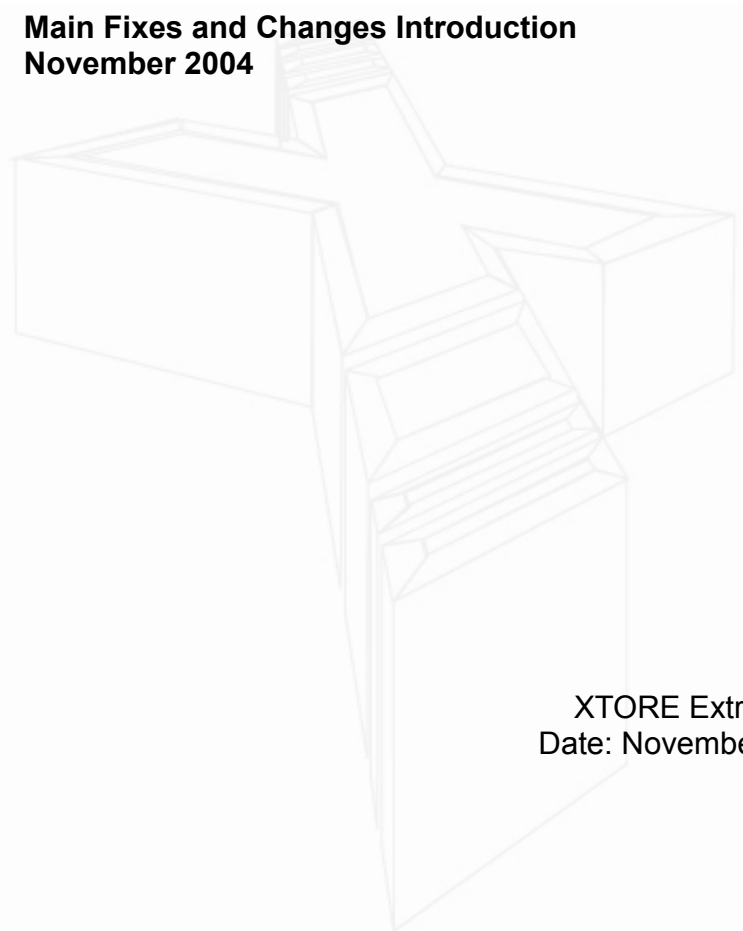




Embedded Network Attached Storage System Software

V2.0-1.0376 Release Notes

**Main Fixes and Changes Introduction
November 2004**



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XTORE Extreme Storage reserves the right to revise this publication and to make changes in the content hereof without the obligation of XTORE Extreme Storage, to notify any person of such revision or changes.

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1. Release Information

1.1 Release Content

1.1.1. Filer

Image/update:

- SF2.0376-NP0040-A2-LCD-multi.idi
- SF2.0376-NP1040-A2-multi.idi
- SF2.0376-NP1080-A2-multi.idi
- SF2.0376-NP0040-B1-LCD-multi.idi
- SF2.0376-NP1040-B1-multi.idi
- SF2.0376-NP1080-B1-multi.idi
- SF2.0376-US0040-T1-LCD-multi.idi
- SF2.0376-US1040-T1-multi.idi
- SF2.0376-US1040SinglePS-T1-multi.idi
- SF2.0376-US1080-T1-multi.idi
- SF2.0376-NP0040-A2-LCD-multi.pat
- SF2.0376-NP1040-A2-multi.pat
- SF2.0376-NP1080-A2-multi.pat
- SF2.0376-NP0040-B1-LCD-multi.pat
- SF2.0376-NP1040-B1-multi.pat
- SF2.0376-NP1080-B1-multi.pat
- SF2.0376-US0040-T1-LCD-multi.pat
- SF2.0376-US1040-T1-multi.pat
- SF2.0376-US1040SinglePS-T1-multi.pat
- SF2.0376-US1080-T1-multi.pat

1.1.2. Client

Assistant:

Windows: 2.0-1.0376

Data Replicator:

Windows: 2.0-1.0021

1.2 Last Release

SFfB2.0-1.0373 with Small Patch 1

2. Bugs Fixes

1. Filer can delete file that locate in Windows XP SP2 client.
2. Using Assistant by the Windows XP SP2 client can open Filer's web management UI well.
3. The Japanese OS (Windows 98、Windows Me、Win2000 professional、Windows 2000 server、Windows XP...) Client can open Japanese files by Access 97.
4. XN-004R-T1E has been fixed algorithm for thermal setting. Three-level events for the TW815 0040 Tower model only.
 - 65 ° C CPU_HIGH
 - 70 ° C CPU_WARM
 - 72 ° C CPU_CRITICAL (was 75° C CPU_CRITICAL)

When Filer reaches the CPU_CRITICAL event, it'll shutdown automatically

3. Main Changes from Last Release

3.1 Modified items

1. If use Windows XP SP2 client and the

Conditions	New Behavior (build 373 and later)
Use Windows XP SP2 client and the Pop-up Blocker function (封鎖快顯視窗) of IE is enabled and use Assistant or open IE typing //IP to open UI	Web management UI will show menu bar, status bar, address bar. The pop-up UI pages will not show up, but show the warning messages "Can not open the requested page. The server might be experiencing technical difficulties, or you may need to adjust the browsing setting in your machine."
Other conditions	The behavior is the same as before.

3.2 New features

N/A

3.3 Enhanced items

N/A

4. Important Notes

4.1 Limitations or Known Issues

You may accidentally see -50 errors from your Mac client while trying to delete files from the NAS share folders. Strictly speaking, this is not a bug. Instead, it is the security design incompatibility between Windows and Mac. The easiest solution will be to delete the files from Windows or UNIX clients.

4.2 Generic Notes

How to migrate from Xtore Filer 1.1 to Xtore Filer 2.0?

Users are not able to use upgrade patch to upgrade from Xtore Filer 1.1 to Xtore Filer 2.0 directly. To migrate from Xtore Filer 1.1 to Xtore Filer 2.0, please follow steps below:

- 1) Run NASolution Filer Backup 1.1 or Tape Backup 1.1 to backup Xtore Filer 1.1, including System Information, User Accounts, Groups, and data.
- 2) On machines supporting DOC/DOM/CF, upgrade the DOC/DOM/CF size to 32 MB.
- 3) Reinstall Xtore Filer 2.0 on the server, or buy a brand-new Xtore T1 server.
- 4) Run Xtore Filer Backup 2.0 or Tape Backup 2.0 to restore the 1.1 backup to Xtore Filer 2.0 server.

4.3 Notes on ACL

1. Among different Windows clients/platforms, only Windows clients with NTFS file system can set ACL to files/folders on Xtore Filer. However, users of other clients without NTFS support such as Windows 98 will still be restricted by the ACL settings when accessing files/folders on Xtore Filer.
2. Windows style or UNIX style option for shared folders is not available for default shared folders (such as Public1). The default value is "Windows style." File owners can set ACL in My Network Places.
3. Mac OS X clients have some limitations to ACL:

[Mac OS 9]

Mac OS 9 clients cannot set ACL to the files/folders on Xtore Filer, but ACL set on other platforms still takes effect on Mac OS 9 clients.

[Mac OS X]

Mac OS X clients can only set ACL to folders on Xtore Filer. Files under the folder will inherit the ACL settings from the folder after applying the "Apply to all enclosed folders" setting.

On Mac OS X, access right of a folder cannot be set to "read & write" after it has been set to "write only."

The above are limitations of Mac clients but not of Xtore Filer.

4. ACL supports up to 1,024 entries.

5. When it has many accounts (20,480) on the filer, it takes a long time to set ACL in Windows clients. Please enhance the hardware (e.g. CPU and memory) to improve the performance.

4.4 Notes on Cache support

1. Enabling Disk Write Cache does not need to reboot the system to take effect, while enabling RAID 5 Cache (RAID 5 Cache option will show up only when the RAM is greater than 128MB) still needs to reboot the system to make it effective.
2. Disk Write Cache is turned on by default on Xtore NAS Filer.
3. Disk Write Cache support is added to Xtore NAS 2.0 filer, while Xtore Filer 1.1 does not allow users to configure it on the web UI.
4. RAID5 device layer cache is only supported when the physical memory size equals to or exceeds 256 MB, otherwise there is no such an option displayed on the web UI and RAID5 device layer cache is disabled by default.

4.5 Notes on Windows Network

In case the filer cannot be added into the Windows 2000 domain with native mode, please make sure the DNS setting on the domain controller is correct. The following hyperlink on Microsoft web site is a good reference for the DNS setting:
<http://support.microsoft.com/default.aspx?scid=kb;en-us;260371>.

4.6 Notes on Clients Accessibility

In Xtore NAS Filer 2.0, resource fork of Mac files will be retained after other Windows 2000/XP clients edit these files on the filer. It cannot be retained in Xtore NAS Filer 1.1

4.7 Notes on Security

Mac clients can take advantage of Windows domain authentication in Xtore Filer 2.0. In Xtore Filer 1.1, Mac clients can only use local accounts for authentication.

4.8 Notes on HDD Bad Sector Recovery

There are two graphics standing for HDD bad sector status:

Ustor NAS 2.0 Filer provides the following 2 hard disk graphics to represent the difference when bad sectors occur on different partitions:



For the server model that doesn't support DOC/DOM/CF:

1. For the server model that doesn't support DOC/DOM/CF, the operating system is installed on the system partition, on which DBSR is not available, this graphic appears when bad sectors occur on the system partition, for at this time this partition will be marked as crashed.
2. In addition, when the reserved space to save mapped bad sectors on the swap partition is consumed to the limit, this graphic will also appear.

For the server model that supports DOC/DOM/CF:

This graphic appears when the reserved space to save mapped bad sectors on the system partition or the swap partition is consumed to the limit.



For the server model that doesn't support DOC/DOM/CF:

This graphic appears when bad sectors occur on swap or data partition and have been successfully mapped, and the reserved space to save mapped bad sectors hasn't been consumed to the limit.

For the server model that supports DOC/DOM/CF:

This graphic appears when bad sectors occur on any partition and have been successfully mapped, and the reserved space to save mapped bad sectors hasn't been consumed to the limit.

4.9 Notes on Backup/Restore

1. Tape Backup/Restore in Xtore Filer 2.0 and Xtore Filer Backup 2.0 cannot backup data in Xtore Filer 1.0 or 1.1, but can restore data backed up by Xtore Filer 1.1 to Xtore Filer 2.0, same as the client backup utility.
2. If the 1.1 backup contains Windows domain setting, the Windows domain setting will not be restored to Xtore Filer 2.0 as Xtore Filer 1.1 and Xtore Filer 2.0 use different ways to integrate into a Windows domain. Users have to add Xtore Filer 2.0 to the Windows domain manually after restoration.

4.10 Notes on Share-to-Share Replication

1. A source shared folder can be replicated to up to 4 target shared folders.
2. Up to 64 replication entries can be created on a source NAS server.
3. S2S settings are removed after any snapshot backup is restored. Users have to reset S2S again as the data may be very different and some of the shares may be gone after any snapshot restoration.
4. Any files/folders created, modified, or deleted in the specified source shared folder will be replicated to the target shared folder.

4.11 Notes on Snapshot Backup

1. After System Snapshot is enabled on a volume, when any shared folder is created on this volume, the system automatically generates a corresponding shared folder

- named "Shared_Folder_Name.snap" in the same volume.
2. When Snapshot is enabled and then disabled, all snapshot backups that have been created on the volume will be erased.
 3. After restoring a snapshot backup, a new folder "snapshot_version_XXXXXXXX_restored" with two sub-folders "shares" and "users" will be created under shared folder "publicn" of the volume. If there is no corresponding shared folder(s) or user home folder(s) to restore to, those data will be restored to \\Server_Name\public\snapshot_version_XXXXXXXX_restored\shares and \\Server_Name\public\snapshot_version_XXXXXXXX_restored\users.
 4. All snapshot backups are removed under the following circumstances:
 - System failure.
 - Improper shutdown.
 - File system full.
 - Disabling snapshot.
 5. To enable snapshot, please make sure there exists at least 8% free space on the volume.