



[Release Date]

Sep 22, 2006

[Applicable Hardware]

Thecus N5200 IP Storage Server

[Software Upgrade/Downgrade Note]

1. After firmware v1.00.03 installed, the new software doesn't allow users to downgrade to any firmware version below v1.00.03.
2. System Configuration Download/Upload does not support different software version.
Reminder : After upgrade to latest firmware, download configuration and save separately.

[New Features/Changes]

1. Modified RAID assemble mechanism.
2. Improved Samba and FTP performance.
3. Revised some log information about RAID start.
4. Re-check the RAID status when RAID is N/A.
5. Automatically enabled SMART support of the disk drives before detecting the SMART values and showing on the Web GUI.
6. Removed the question mark in HDD status filed, if the disk drive doesn't support SMART, "OK?" ==> "OK".

[Bug Fixes]

1. Fixed the problem that RAID formatting won't complete if assign 100% for data capacity. (99% is okay.)
2. Changed "Formatting..." wording.
3. Fixed some incorrect default settings.
4. Fixed the problem that share folder limit doesn't work.
5. Fixed the problem that could not change HTTPS port.
6. Changed the LCM refresh rate from 1 second to 3 seconds.
7. Fixed the problem that read only users look like able to delete files.
8. Fixed the "XXXXXXre Upgrade..." message while upgrading firmware.

[Limitations]

1. N5200 doesn't support hard disk drives that won't spin up before "start unit" command receives; such as Seagate Barracuda 7200.9 series.
2. Target USB function : once RAID created and Target USB capacity determined, you have to AC off and then on to make it works.
3. Reset button : you could use reset button to load the factory default in firmware v1.00.03.



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- a. When the N5200 successfully boots up, press the reset button for 10 seconds.
And then the NAS will automatically reboot itself.
- b. This resets the N5200 to its factory default.
WAN IP: 192.168.1.100
LAN IP: 192.168.2.100
HTTP port: 80
HTTPS port: 443
Admin password: admin
User accounts and groups will be erased, but RAID data won't be affected.
4. Once the RAID created, there will be about 5% data used by EXT3 file system. The capacity stores the journal and inodes; which are necessary to keep RAID data safer.
5. Supports the following USB wireless dongles only. And it has to be installed before NAS booting up, no PnP.
 - a. 3Com 3CRUSB10075
 - b. Zyxel G220USB
 - c. PCI GW-US54mini
6. NFS share is limited to public folders. In case you enable an NFS share on non-public (ACL) folder, the NFS client could successfully mount it but won't be able to read/write files.
7. HTTP and HTTPS ports should follow the rules given below.
 - Larger than 1024
 - Could not use 3169
 - Port 80 (HTTP) and 443 (HTTPS) are allowed
8. If AC power lost during RAID building, admin has to manually resume it through Web GUI.
 - a. You will see "Total Capacity: N/A" after building process completed.
 - b. Manually remove RAID.
 - c. Create RAID again.
9. RAID rebuild : in case one HDD failed in RAID 1, 5, 6, and 10 configuration, please hot unplug failed one and hot plug in new one; then RAID rebuilding will automatically start. If the replacement is done after NAS rebooting or shutdown, administrator has to manually add spare in Admin Web GUI to start the RAID rebuilding.
10. When adding an HDD into JBOD RAID, all services such as WebDisk, SMB/CIFS, and FTP will be temporarily disabled. Once the JBOD resizing completes, all services will be turned on according to original settings.
11. To enable ADS support for Small Business Server 2003, we recommend do not install ISA server. Otherwise, N5200 may fail to join the AD.
12. Mac OS Limitations
 - a. When using Mac OS X (post 10.2 with AppleTalk) without SMB, do not use Japanese characters in folder or file names to prevent errors accessing the data



over a network.

- b. Mac OS 9 and Mac OS X can not see files on the network with names made up of over 32 characters.
 - c. Mac OS 8.x/9.x only support local character encoding on file names (without Unicode support).
 - d. Occasionally, when a file is accessed by a Mac OS computer within a shared folder, an information file will be created in the same folder. If the file is then deleted by a Windows OS computer, the original file may no longer be accessible by Mac OS computers.
 - e. The following characters are not allowed to be included in the name used for a file or shared folder when using Mac OS (AppleTalk) devices.
? [] / \ = + < > ; : " , | *
 - f. Writing a file larger than 2 GB is not allowed by MAC OS-9.
- 13. NAS needs about 3~5 minutes to broadcast/register itself to other Mac OS through AppleTalk after booting up and service enabled.
 - 14. WebDisk : Only UTF-8 file name is supported.
 - 15. Please do not use Traditional Chinese and Simplified Chinese character sets in share folder's name. It might cause share folders permission error, and no body could access any folders. However, using above two character sets in the sub-folders is okay.
 - 16. File size has to be less than 1GB to be uploaded to the N5200 from web browsers. FTP software has no such limitation.
 - 17. File names and folder names should not contain more than 250 characters in their entire directory path to prevent errors occur in the file copy operations.
 - 18. The following characters are not allowed to be included in the name used for files or folders on the N5200.
/ \ : * ? " < > | [] = + ; ,
 - 19. When copying a file that uses superscript in its file name (common with some international character sets), the date and time attributes may not be properly set on the N5200 for that particular file.
 - 20. File and directory attributes can not be modified by an FTP client when the N5200 FTP server is enabled.
 - 21. UPnP function only works on WAN interface.
 - 22. The create date is the same with modify date for every file copied into the NAS.
 - 23. N5200 supports Setup Wizard v1.1.6 or later.
 - 24. Single file size upper limitation: 2TB
 - 25. The file downloaded from N5200 via Microsoft IE might include extension index number in its file name.
 - 26. Windows 95/98 clients can not display files with double-byte file name correctly.
 - 27. Because of Windows 95/98 compatibility issues, share folder name may have a problem when it is longer than 12 characters.



[Known Problems]

1. The HDD LED should blink green to indicate the HDD read/write activity. Please apply "ledpatch_1.00.00.2a.bin" in case you see it's red. The patch file is available here: http://www.thecus.com/Downloads/ledpatch_1.00.00.2a.bin.

- 1) Load the patch just like upgrading a firmware. [Admin Web GUI: System / Firmware Upgrade / Browse / ledpatch_1.00.00.2a.bin / Apply]

- 2) It requires rebooting to take effect.

In addition, during the NAS booting, the first 50 seconds, HDD LED may partially glow red or orange. It's a normal behavior and no worries about that please! Once the booting completes, the LED will blink green when reading/writing HDD.

2. On system log page, you will see the following messages whenever the NAS boots up. It doesn't really mean there had been a disk problem. Actually, it means "the NAS successfully boots up and RAID configuration is checked OK".

2006/09/17 15:49:52 N5200 : mdadm: /dev/md0 has been started with 5 drives.

2006/09/17 15:49:58 N5200 : Healthy: The system N5200 is recovered from the disk problem.

3. Disk Power Management is not ready in firmware v1.00.03 and earlier versions. It will be implemented soon.
4. Could not completely delete share folders if SMB/CIFS users are using the share files.
5. Web GUI : Can not login Web UI when the NetBIOS name is with an underscore.
6. Failed to edit or delete a folder that its folder name contains a superscript ""
7. MAC OS 9 Apple network browser sometimes freezes for 5~10 minutes after selecting N5200; however, using afp://IP always works fine on both MAC OS-9/X

[Attention]

- 1. During firmware upgrade process, it is imperative that user DO NOT turn off the power to N5200 or closes the browser window. This will lead to catastrophic result. If your browser is set to cache the screen, after firmware upgrade has started for 5 minutes, please press CTRL-F5 to reload browser screen from server instead of from browser cache.**
2. When installing the Windows Wizard program of N5200 on WinXP Professional SP1 or SP2, the firewall UDP ports 10000 and 10001 need to be opened.
3. Reset to factory default function automatically resets all the system settings including network settings, administrator password, user groups, language setting, system notification setting, and time zone setting.
4. Hardware reset button triggers the N5200 to reset its network settings and administrator password.
5. Users should obey the international RF regulatory rules as they set up the wireless RF channel on the N5200. The RF operating channels for different regions have been specified as following. Thecus has no responsibility for users attempting to violate the



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international RF regulation.

11 for N. America

14 Japan

13 Europe (ETSI)

2 Spain

4 France