



[Release Date]

Nov. 28, 2007

[Applicable Hardware]

Thecus N4100+ IP Storage

[Associated Thecus Applications]

- 1) Thecus download manager 1.0.02 (DLM_1.0.02.app)
- 2) Thecus DLNA media server 1.0.00 (DLNA_1.0.0.app)
- 3) Thecus NFS server 1.0.02 (NFS_1.0.02.app)
- 4) Thecus USB printer server 1.0.02 (PrinterServer_1.0.02.app)

[Software Upgrade/Downgrade Note]

- 1) System Configuration Download/Upload does not support different software version.

Note: After upgrade to latest firmware, download configuration and save separately.

[New Features/Changes]

- 1) Added DDNS support for the following registers:
DynDNS, Zoneedit, no-ip
- 2) Improve the bandwidth/permission control of FTP server.
- 3) Add ISO file mount and sharing function.
- 4) Add NFS support through Thecus module: NFS_1.0.02.app.
(NFS_1.0.02.app can only be applied on F/W v2.0.04 and later versions.)
- 5) Increase user ID and group ID mapping range for Active Directory accounts from 40,000 to 100,000 to support large scale AD environment.
- 6) Extend AD timeouts to support distributed hierarchical AD server environment.
- 7) Add sender email address customizations on Email notification.
- 8) User can specify DNS server while LAN 1 set to DHCP.
- 9) Adaptive RAID performance control to balance with WEB UI operations.
- 10) File name with “.” prefix can be accessed from FTP service.

[Bug Fixes]

- 1) Security patches since F/W v2.0.03.
- 2) Upgrade file system check utility to support large HDDs.
- 3) Fixed the bug which reset to factory default cannot reset the authentication methods.
- 4) Fixed the bug while setting IP address to static IP by using Thecus Setup



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Wizard, which will cause CIFS not working until next reboot.

- 5) Fixed the bug that uPnP does not working on F/W v2.0.03
- 6) Fixed the FTP security issue on some passwords.
- 7) Fixed the AFP issues on the modified files, which will become invisible in finder window.
- 8) Fixed the host name format checking problem in NFS module.
- 9) Fixed the bug of download manager to support file names contains "+".
- 10) Fixed the bug of ISO file share folders still exists in configuration database after RAID removed.
- 11) IP address of WAN port will be set to "192.168.1.100" if failed to get DHCP IP address from DHCP server when using dynamic IP settings.

[Known bugs]

- 1) Robot copy cannot remove empty folders.
- 2) BT download cannot support single file larger than 4GB.
- 3) HDDs cannot get into stand by (spin down) mode if USB printer server module installed.
- 4) FTP transfer happens to failed if idle for a long time after connection established.
- 5) NFS: Incorrect UID/GID mapping may occur if share folder controlled by ACL.

[Known Limitations]

1. 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.
2. Supports the following USB wireless dongles only. And it has to be installed before NAS booting up, no PnP.
 - [ZyDAS ZD1211]
 - a. 3Com 3CRUSB10075 (Manufacture ID: 6891, Device ID: A727)
 - b. Zyxel ZyAIR G-220 (Manufacture ID: 0586, Device ID: 3401)
 - c. PCI GW-US54mini (Manufacture ID: 14EA, Device ID: AB13)
 - [ZyDAS ZD1211B]
 - d. Zyxel ZyAIR G-220 V2 (Manufacture ID: 0586, Device ID: 340F)
3. File size has to be less than 1GB to be uploaded to the N4100+ from web browsers. FTP software has no such limitation.
4. 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.
5. The following characters are not allowed to be included in the name used for files or



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folders on the N4100+.

/ \ : * ? " < > | [] = + ; ,

6. 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 N4100+ for that particular file.
7. File and directory attributes can not be modified by an FTP client when the N4100+ FTP server is enabled.
8. Up to six external USB devices (including the memory cards on the USB card reader) can be connected to N4100+ concurrently.
9. When using multi-slot USB card reader, insert memory card into card reader before connecting card reader to N4100+. When removing, please disconnect card reader from N4100+ prior to remove memory card.
10. If a USB hard drive has partitions, only the first three partitions can be detected by the N4100+.
11. Some attributes may not be included with files and folders when copying to a USB drive with FAT32 format.
12. If a USB hard drive is connected to N4100+ formatted as FAT16/32, the following restrictions apply:
 - Copy file with size greater than or equal to 2 GB to the N4100+ can not be performed due to FAT file system limitation.
 - Files created by Mac OS X like DS_Store can not be copied to the FAT16/32 USB drive.
13. The file downloaded from N4100+ via Microsoft IE might include extension index number in its file name.
14. UPnP function only works on LAN1 interface.
15. When adding second HDD into JBOD RAID, all services such as WebDisk, SMB/CIFS, FTP, and iTunes will be temporarily disabled. Once the JBOD resizing completes, all services will be turned on according to original settings.
16. When click on an MP3 file on WebDisk page, IE may launch Windows Media Player to play it. The file name shows on play list will just be "download". However, right click on the MP3 file, save it to local disk, and then you will see correct file name on the Windows Media Player while play it.
17. Writing a file larger than 2 GB is not allowed by MAC OS-9.
18. 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.

? [] / \ = + < > ; : " , | *
19. 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.



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- 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.
20. For Mac users, NAS user accounts created in old firmware may fail to log in before admin re-entering the user's password. SMB/CIFS users don't have this issue.
 21. Single file size upper limitation: 2TB
 22. NAS needs about 3~5 minutes to broadcast/register itself to other Mac OS through AppleTalk after booting up and service enabled.
 23. 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.
 24. File system check page is in English, no multilingual.
 25. FTP port should follow the rules given below.
 - Larger than 1024
 - Could not use 3169
 - Port 21 is allowed
 26. iTunes Server and Media server will periodically rescan the audio/video files in the NAS and it will affect the disk power management. You may set the iTunes rescan interval longer thus the HDD will get into stand by mode. But the scan interval of Media server cannot be adjusted.
 27. Disk Power Management : some HDD may not respond to "idle spin down" command, and they won't get into stand by mode even if the specified idle time had been reached.
 28. Thecus official modules: all the modules provided by Thecus can only be upgraded by removing the old version then install the newer version.
 29. User need to keep away from the self-refresh pages in WEB admin UI such as RAID status and system status and also the login page to avoid a slow RAID build/rebuild speed.
 30. Avoid to set the folder access mode in NFS to "anonymous" if the share folder was set to ACL controlled already.



[Attention]

1. **During firmware upgrade and installation process, it is imperative that user DO NOT turn off the power to N4100+ 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 N3200 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 N4100+ to reset its network settings and administrator password.
5. To avoid accidentally shutdown the N4100+, the power button of the N4100+ is designed to take effect only when it is being pressed and held three seconds constantly
6. Users should obey the international RF regulatory rules as they set up the wireless RF channel on the N4100+. The RF operating channels for different regions have been specified as following. Thecus has no responsibility for users attempting to violate the international RF regulation.
 - 11 for N. America
 - 14 Japan
 - 13 Europe (ETSI)
 - 2 Spain
 - 4 France