ZyXEL

Firmware Release Note

NSA320

Release 4.23(AFO.1)C0

Oct. 17th, 2011

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Release Notes

Date: Oct. 17th, 2011

Supported Platforms:
ZyXEL NSA320

Notes:
1) **If you created volume by V4.23 or further firmware, PLEASE DON'T DOWNGRADE TO ANY PREVIOUS VERSION FIRMWARE, or the volume will be "down".**
2) Must First Clean your Browser's cache after performing upgrade
3) Upload Torrent File may not immediately appear in Download list. Usually will first appear in Queued first before appearing in Download.
4) Share Browser Copy/Move only allows One Instance of Copy and Move
5) **After Create First System Volume, you must Reboot!**
6) **Suggested to Rebuild database of media server after performing upgrade**
7) When the share permission configuration conflicts, the priority will be "DENY" > "Read-Only" > "Read-Write"
8) Every time NAS bootup, you will always need to login
9) Some Routers will delete all UPNP mappings after reboot. So if Router reboots, user will need to re-map the upnp port mapping by going into the UPNP GUI in administration page.

Known Issues:
- If FTP Encoding incompatible with FTP client, some files will have odd file names which Media server cannot support.
- **Download Service may not always be able to download 10 at a time.** It will depend on how much free memory is left on the system at that time.
- You cannot copy or move files/folders with a name that includes any of the following characters:
  - " (double quote)
  - / (forward slash)
  - \ (backslash)
  - : (colon)
  - | (pipe)
  - < (less than)
  - > (greater than)
  - ; (semicolon)

- , (comma)
- ? (question mark)
- * (asterisk)
- Media Server May Not Support the following Formats:
  - gif
  - tif
  - asf
  - m2p
  - dvr-ms
  - ogg
- Broadcatching cannot work with YouTube RSS Feeds
- Share Name or Share Path cannot be longer 200 characters
- iTunes cannot play video published by iTunes Server
- DyDNS provider 3322 only accept IP address from China
- The highest value that temperature sense returns is 70. It's due to hardware issue.
- HDD greater than 2TB can't migrate from JBOD to RAID-1

Complete Features List:
- Copy/Sync for Copy Button feature
- Link Capture Browser Plug-in: Supports IE (for Windows) and Firefox (for all platform)
- Support IPOD web-streaming
- Menu
  ⇨ Show System Information
  ⇨ Show Volume Status
  ⇨ Show Active Session(samba)
  ⇨ Show UPS Current Capacity
  ⇨ Show Temperature, CPU Loading, Memory Usage, Fan Speed
- Storage.
  ⇨ RAID 1.
  ⇨ JBOD
  ⇨ External USB Disk
    (Read/write support following filesystem: NTFS, FAT16/FAT32, EXT2, EXT3, ReiserFS)
    (Read only support : ISO9660, UDF)
  ⇨ Support 3TB volume size (with two 1.5TB HD installed)
  ⇨ When Creating Volume, will show volume status with "Create Volume" in the storage page and system status page.
  ⇨ RAID Migration: 1disk JBOD -> 2 disk RAID1
  ⇨ PTP Support (Digital Camera Support)
- Share Management
  ⇨ Recycle Bin
  ⇨ Create/Modify/Delete Share.
  ⇨ Access control (public share/private share/advanced share).
  ⇨ Support maximum 100 share.
  ⇨ Publish Share to Media Server.
  ⇨ Share Browsing/Folder Browsing.

- ◆ Copy/Move/Create Folder/Delete Folder/file
- ◆ Upload File
- ◆ Rename File/Folder
- ■ Account Management
  - ◆ User Groups
  - ⇨ Create/Modify/Delete Account.
  - ⇨ Support maximum 512 user accounts.
  - ⇨ User Quota Support (for XFS only)
- ■ System
  - ⇨ Date & Time (NTP /   Manual Setting)
    - ✓ Time Zone
    - ✓ Manual Daylight Saving
    - ✓ Auto Daylight Saving
- ■ Network
  - ◆ PPPoE Client Support (also supported in NDU client)
  - ◆ No Master Browser Setting: Allow Unicode Computer Names in same workgroup
  - ⇨ Jumbo Frames
  - ⇨ Setting DHCP/Static IP.
  - ⇨ Setting DNS Server.
  - ⇨ Ftp Server.(Connection Limit range from 1~20 , Idle Timeout range from 30 ~ 300 MINUTES, Customize Passive Mode Port Range)
  - ⇨ FTP Server Custom Character Encoding
  - ⇨ Support additional HTTP Configuration Port Number Selection
- ■ AutoUpload
  - ■ Automatically Upload Files to Flickr or YouTube
  - ■ Having log when en-queued files, file uploaded
- ■ FTP Uploadr
- ■ AutoUpload
  - ■ Automatically Upload Files to Flickr or YouTube
  - ■ Having log when en-queued files, file uploaded
- ■ Media Server. (Media Server changed Solution)
  - ⇨ Publish file types.
  - ⇨ Publish Shares.
  - ⇨ iTunes Server Support
  - ⇨ DLNA 1.5 Support
  - ⇨ XBOX360 Support
  - ⇨ File-extension support:

CATEGORY	FILE TYPE	EXTENSION
Video	MPEG-1 / MPEG-2	dat, dvr-ms, iso, m1v, m2p, m2t, m2v, mp2, mpe, mpeg, mpeg2, mpg, mpg2, ts, vob, m2ts, tts
	MPEG-4	m4v, mp4
	AVI	avi

	DivX	divx, avi
	Motion JPEG	mjpeg, mjpg
	Quick Time Video	mov, qt
	RealMedia	rmvb, rm
	Ogg	ogm
	Matroska	mkv
	ASF	asf
	Windows Media Video	wmv
	Subtitle	srt, ssa, idx, sub
Music	MP3	mp3, mpa
	Ogg Vobris	ogg
	RealMedia	ra, ram
	WAVE	wav
	Windows Media Audio	wma
	Matroska	mka
	Monkeys Audio	ape
	MP1	mp1
	MP4	mp4, m4a, m4p
	PCM	wav
	LPCM	wav
	DTS	dts
	AC3	ac3
	Free Lossless Audio Codec	flac
	Au	au
	AAC	aac
	3GPP	3gp, 3g2
	AIFF	aif, aiff
	RIFF-based MIDI	rmi
	Playlist	wpl, pls, m3u
Photo	JPEG	jpe, jpeg, jpg
	Bitmap	bmp
	PNG	png

- ■ Printer Server
  - ⇨ Add / Delete Printer
  - ⇨ Cancel Print Job

■ Download Service

⇨ Download BitTorrent, HTTP, or FTP files
⇨ FTP authentication supported
⇨ Pause, Delete, Continue Downloads
⇨ Priority
⇨ Max 10 items job processing
⇨ Support Configure Maximum Number of Seeding Job
⇨ Two Keep Seeding Criteria Support: Upload/Download Ratio and Seeding Time
⇨ Resume Completed Torrent Job to Do Seeding Again.
⇨ Support Show Detail Job Information and Configure Comment for Each Job
⇨ Support Download Service Download Period Control
⇨ Support IP Filter Table Management
⇨ Support Encryption in BT Protocol
⇨ Open Share Browser on Location of Completed Job to See Download Files.
⇨ Configurable Maximum number of Connections (max is 500)

■ Download Service Notification (RSS Server): Notify Downloaded File from Download Service / Broadcatching Torrent Job

■ Broadcatching

⇨ Add RSS 2.0 Feeds with enclosures Only
⇨ Invalid feeds will show red color
⇨ Support encoding other than UTF-8

■ Package Management

⇨ Retrieve Package List (from internet server)
⇨ Install/Upgrade package
⇨ Uninstall package
⇨ Enable package
⇨ Disable package
⇨ Cancel Install package

■ Packages:
⇨ eMule
⇨ SqueezeCenter
⇨ MySQL / PHP / phpMyAdmin
⇨ S.M.A.R.T.
⇨ DyDNS Client
◆ DynDNS (http://www.dyndns.com/)
◆ No-IP (http://www.no-ip.com/)
◆ 3322 (http://www.3322.org/)
◆ zoneEdit (http://www.zoneedit.com/)
◆ DHS (http://www.dhs.org/)
⇨ Gallery (Album)
⇨ WordPress (Blog)
⇨ NFS
⇨ BackupPlanner

- ◆ Backup
- ◆ Restore
- ■ Maintenance
  - ⇨ Configuration backup/restore.
  - ⇨ UPS shutdown capacity (Not supported in this version yet)
  - ⇨ Power Management
    - ● Power Resume
    - ● Power Control Schedule
  - ⇨ SSL: HTTPS, FTPS, Force HTTPS support, CA Management Support
  - ⇨ FW Upgrade:
    - ● FW Upgrade by uploading FW file.
    - ● On-Line FW Upgrade.
  - ⇨ System shutdown/restart.
  - ⇨ High Temperature Buzzer alert support
  - ⇨ Over Temperature auto-shutdown support
  - ⇨ Logs
    - ● E-mail Alert (for emergency log of selected log classes) in plain text or HTML
    - ● E-mail Report (for selected log classes) in plain text or HTML

Release Package:

File name	Description
423AFO1C0.bin	NSA Firmware Package for standard version
423AFO1C0.rom	Configuration file
423AFO1C0_END.pdf	Firmware release note

Installation Notes:

Install/Upgrade Method	Procedure
FW Upgrade from GUI	1. Login to GUI page: Administration > Maintenance -> Fw Upgrade. 2. Select \<firmware version\>.bin and click the upgrade button. System will show progress percentage after upload \<firmware version\>.bin to system memory. 3. System will auto reboot 4. New Firmware should apply

History
Modification in V4.23(AFO.1)C0 | 10/17/2011

[Enhancement/ Change]

- ● Upgrade kernel from 2.6.22.18 to 2.6.31.8
- ● Upgrade samba from 3.0.35 to 3.5.6
- ● Use EXT4 as default file system to improve performance

- Support HDD capacity larger than 2TB
- IE9 support
- Add BT selective download
- WebGUI: Add Czech, Hungarian and Polish Language support
- Link capture: Add Czech, Hungarian and Polish Language support
- Download service email notify
- Confirm whether overwrite or not when HTTP uploading
- Add sata auto share per volume: For admin SAMBA easy access, one share for whole volume
- Add option for user to disable media server (prevent from being browsed by UPNP devices)
- Add option for user to disable generate thumbnail to speed up building media server database.
- Limit FTP file numbers up to 200,000

[Fix]

- No button reset password MySQL package
- When choose big5 encoding in FTP GUI page, windows explorer ftp client will still use UTF-8
- Can't migrate JBOD to RAID-1 when the size of the JBOD is larger than 2TB
- The status of Media Server is incorrect
- After resetting to default, the IP address is set as static address(shall be dynamic)
- The file name isn't correct if the file system is NTFS when browsing with win7
- The buttons will disappear in Folder Browser if the screen solution is 1366*768

Modification in V4.01(AFO.1)C0 | 08/23/2010

[Change]

- Wakeup On LAN default is enabled
- Ken Burns default is enabled

[Fix]

- Fix HDD compatible issue: Hitachi 1TB (model: HDT721010SLA360)

Modification in V4.01(AFO.0)C0 | 07/02/2010

Initial version.