



## **Firmware Release Note**

**NSA210**

**Release  
4.41(AFD.0)C0**

## **NSA210 4.41(AFD.0)C0**

### **Release Notes**

**Date: August. 26th, 2013**

#### **Supported Platforms:**

ZyXEL NSA210

#### **Notes:**

- 1) Must First Clean your Browser's cache after performing upgrade
- 2) Upload Torrent File may not immediately appear in Download list. Usually will first appear in Queued first before appearing in Download.
- 3) Share Browser Copy/Move only allows One Instance of Copy and Move
- 4) After Create First System Volume, you must Reboot
- 5) Suggested to Rebuild database of media server after performing upgrade
- 6) If you want to initialize HDD which size is larger than 2TB but NSA210 was installed the previous firmware, please remove HDD and initialize the NSA210 first. After that, insert the HDD then initialize NSA210 again.

## **Known Issues:**

- If FTP Encoding incompatible with FTP client, some files will have odd file names which Media server cannot support.
- Web Help may not include mention of Web Publishing, File/Copy and UPnP Features. Russian customer & PM both say this is OK.
- 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
- Sometimes the database of mediaserver will corrupt and required rebuild database.
- iTunes 8 or later version can not play video
- When enable Jumbo Frame and use Download Service to download BT with a lot of peers connected, there is a chance to make NSA hang. Workaround is to disable Jumbo Frame.
- There is some rare situation can not repair Raid1 and it requires below procedure to solve it: 1. Plug only the wanted Raid1 disk on disk1 slot of NSA (leave disk2 slot of NSA empty) and boot-up NSA so that NSA will solve it automatically. 2. Power-off NSA and add a spare HD and then you can repair it.
- Some video file (with file extension: mp2) published in music type and when DMA-1000 play it, it may cause DMA-1000 to hang.
- Printer Server is not able to cancel print job if the print job has not been sent to NSA.
- In some situation, eMule is not able to connect to peers. When it happened, disable eMule and then enable eMule will recover it.

- When quota is full, user can not use share browser to move
- When using NSU to initialize NSA210, if set IP address as DHCP but DNS server static IP , NSU will fail to connect NSA210
- Some HDDs cannot be detected when using the "DigiFusion SATA HDD Docking 2535A-UHER eSATA box". HDD Models that failed to detect: WD4000KS (400G), WD5000AVDS-63U7B0(500G), WCAUH0288690(500G), Seagate ST3250820SCE(250G)
- DynDNS provider 3322 only accept IP address from China
- [NSU] To run NSU properly, user will need winXP SP2 or newer version
- HDD greater than 2TB can't migrate from JBOD to RAID-1

## **Complete Features List:**

- Login
  - Support "Keep me login for 2 weeks" (But it always requires login if you reboot NSA)
- Playzone
  - Common
    - ◆ Now Playing Panel
    - ◆ Tool Panel Support Drag-n-Drop
  - Music
    - ◆ By Artist
      - Album
      - All Albums
    - ◆ By Album
    - ◆ By Genre
    - ◆ All
    - ◆ By Folder
    - ◆ Current Playlist
  - Photo
    - ◆ By Folder
    - ◆ By Date: List Year -> List Month -> List Photos in Month
    - ◆ All
    - ◆ Monosideshow slideshow
    - ◆ Cooliris slideshow
    - ◆ Google Map for photo with GPS information.
  - Video
    - ◆ By Folder
    - ◆ All
  - Favorite:
    - ◆ My Favorite
    - ◆ Shared Playlist
  - File Browser
    - ◆ Copy/Move/Create Folder/Delete Folder/file
    - ◆ Upload File
    - ◆ Rename File/Folder
    - ◆ Edit Share
    - ◆ Delete Share

- Application Zone
- Setting
  - ◆ System
    - Music
    - Photo Slideshow
    - Password
    - Language
    - Link to admin
  - ◆ Admin
- Playzone media format support list:
  - Video (with MAC):
    - ◆ [Video] DAT, M1V, MOV, MP4(isom), MP4 H264(mp42), 3GP, QT(20) , MPEG, WMV , ASF, MPE, M4A, AVI(WMV3)
  - Video (with Windows):
    - ◆ [Video] Support DVR-MS, M4V, MOV, MP4(isom), MP4 H264(mp42), 3GP, M2P, MPEG, MPG2, VOB, MKV, MPE, MPEG2, MPG, MTS, TS, M2TS, AVI(XVID), AVI(VP62), AVI(FMP4), MJPEG, MJPG, MP2(MPEG Version2), OGM(XVID), QT(20), RMVB(RV40), DAT, WMV, ASF, DIVX, M2T, M2V, M1V
    - ◆ [Video] Does not support ISO, RM(RV30), FLV
    - ◆ [Video] Does not seek MTS, M2TS, TS, AVI(XVID), AVI(VP62), AVI(FMP4), MJPEG, MJPG
  - Music (with Windows):
    - ◆ [Music] Support MP3, WMA, WAV, MP1, AIF, AIFF, 3GP(AAC), 3G2(AAC), RMI(RIFF MIDI), WAV(LPCM), MP4, OGG, AU(8-bit mu-law), M4A, MKA(A\_PCM/INT/LIT), MKA(A\_MPEG/L3), MPA(MPEG Audio V1), AC3
    - ◆ [Music] Does not support AAC, RA, RAM, APE, FLAC, ASF, MP2, M4B
  - Music (with MAC OSX quicktime):
    - ◆ [Music] Support MP3, WMA, WAV, AIF, 3GP(AAC), WAV(LPCM), 3G2(AAC), MP4, AU(8-bit mu-law), M4A, MPA(MPEG Audio V1), AC3
  - Photo: JPE, JPEG, JPG, BMP, PNG
  - Playlist: wpl, pls, asx, wax, m3u
- Copy/Sync for Copy Button feature
- Link Capture Browser Plug-in: Supports IE (for Windows) and Firefox (for all)
- 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 Disk

(Read/write support following filesystem: NTFS, FAT16/FAT32, EXT2, EXT3, ReiserFS)

- ⇒ (Read only support : ISO9660, UDF)
- ⇒ When Creating Volume, will show volume status with "Create Volume" in the storage page and system status page.
- ⇒ PTP Support (Digital Camera Support)
- ⇒ Support HDD greater than 2T
- 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
- System
  - ⇒ Date & Time (NTP / Manual Setting)
    - ✓ Time Zone
    - ✓ 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
  - ⇒ UPNP IGD Controller
- AutoUpload
  - Automatically Upload Files to Flickr or YouTube
  - Having log when en-queued files, file uploaded
- FTP Uploadr
- Media Server. (Media Server changed Solution)
  - ⇒ Publish file types.
  - ⇒ Publish Shares.
  - ⇒ iTunes Server Support
  - ⇒ DLNA 1.5 Support

- ⇒ XBOX360 Support
- ⇒ File-extension support:
- ⇒ ID3 Tags Decoding

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 Vorbis	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

Photo	RIFF-based MIDI	rmi
	Playlist	wpl, pls, asx, wax, m3u
	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)
- ⇒ DHT Enable / Disable Option
- ⇒ BT selective download

■ **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



<http://www.zyxel.com>

- ⇒ 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 in plain text or HTML

## **Release Package:**

<b>File name</b>	<b>Description</b>
441AFD0C0.bin	NSA Firmware Package for standard version
441AFD0C0.pdf	Firmware release note

## **Installation Notes:**

<b>Install/Upgrade Method</b>	<b>Procedure</b>
Initialize NSA210 with FW	<ol style="list-style-type: none"><li>1. Install NDU.Client on the PC</li><li>2. Install the internal Hard Drive on NSA210</li><li>3. Let NSA210.GbE port connect to the same LAN with the PC</li><li>4. Power On NSA-210.</li><li>5. Use NDU Client to Discover NSA210 and click on config to start the initialization wizard.</li><li>6. Follow the initialization wizard and choose the NSA Firmware to initialize NSA210.</li><li>7. NSA210 will restart when finished and work normally with GUI</li></ol>
FW Upgrade from GUI if NSA210 is initialized	<ol style="list-style-type: none"><li>1. Login to GUI page: Administration &gt; Maintenance -&gt; Fw Upgrade.</li><li>2. Select &lt;firmware version&gt;.bin and click the upgrade button. System will show progress percentage after upload &lt;firmware version&gt;.bin to system memory.</li><li>3. System will auto reboot</li><li>4. New Firmware should apply</li></ol>

## **Default Settings for NSA210:**

Menu Item	Function	Default Value
	admin's password	<b>1234</b>
Status	Server Name	<b>nsa210</b>
	Model Name	<b>NSA210</b>
	Media Server Status	<b>Enabled</b>
	FTP Server Status	<b>Enabled</b>
	Web Publishing Status	<b>Disabled</b>
System Setting	Server Name	<ul style="list-style-type: none"> <li>◆ Server Name: <b>nsa210</b></li> <li>◆ Description:</li> <li>◆ Workgroup Name: <b>WORKGROUP</b></li> <li>◆ Prevent NSA From Being Master Browser: <b>Unchecked</b></li> </ul>
	Date/Time	<ul style="list-style-type: none"> <li>◆ Date Time Setup: <ul style="list-style-type: none"> <li>■ Selected: <b>Get from Time Server</b> <ul style="list-style-type: none"> <li>◆ <b>time.stdtime.gov.tw</b></li> </ul> </li> </ul> </li> <li>◆ Time Zone <ul style="list-style-type: none"> <li>■ <b>(GMT +8:00)</b></li> <li>■ Manual Daylight Saving: <b>Unchecked</b></li> </ul> </li> </ul>
Network	TCP/IP	<ul style="list-style-type: none"> <li>◆ IP Address: <b>Dynamic</b></li> <li>◆ DNS: <b>Dynamic</b></li> <li>◆ HTTP (Web Configurator): <b>Disabled</b></li> <li>◆ Jumbo Frames: <b>Disabled</b></li> <li>◆ Network Diagnostic Tool: <b>a.root-servers.net</b></li> </ul>
	UPnP Port Mapping	BitTorrent: <b>9090</b> CIFS (Windows File Sharing): <b>445</b> FTP: <b>21</b> HTTP (Web Configurator): <b>80</b>
	PPPoE	<b>Disabled</b>
Application	FTP Server	<ul style="list-style-type: none"> <li>◆ Enable FTP: <b>Enabled</b> <ul style="list-style-type: none"> <li>■ Connection Limit: <b>10</b></li> <li>■ Idle Timeout: <b>15</b> minutes</li> <li>■ Port Number: <b>21</b></li> </ul> </li> <li>◆ Enable Anonymous FTP Access: <b>Unchecked</b></li> <li>◆ Customize the port range for data</li> </ul>

		transfer: <b>Unchecked</b> ◆ Download/Upload Rate For All Users (include admin) ■ Max. Download Rate: <b>Disabled</b> ■ Max. Upload Rate: <b>Disabled</b> ◆ Character Set: <b>(UTF-8)</b>
	Media Server	◆ Share Publish ■ video: Publish <b>Music Tracks / Photos / Videos</b> ■ photo: Publish <b>Music Tracks / Photos / Videos</b> ■ music: Publish <b>Music Tracks / Photos / Videos</b> ◆ Enable iTunes Server: <b>Enabled</b>
	Download Service	◆ Enable Download Service: <b>Checked</b> ◆ Enable Download Notify: <b>Unchecked</b>
	Web Publishing	<b>Disabled</b>
	Broadcatching	<b>N/A</b>
	Print Server	<b>N/A</b>
	Copy/Sync Button	■ Copy Settings ■ NSA Copy Target: <b>public</b> ■ USB Volume: ■ Copy Direction: <b>USB -&gt; NSA</b> ■ Create a New Folder for Copied Files: <b>Checked</b> ■ Backup Files to be Replaced: <b>Disabled</b> ■ Sync Settings ■ NSA Sync Target: <b>public</b> ■ USB Volume: ■ Sync Direction: <b>NSA &lt;-&gt; USB</b> ■ Backup Files to be Replaced or Removed: <b>Unchecked</b>
	Package	<b>N/A</b>
	Auto Upload	■ Flickr/YouTube: <b>Disabled</b> ■ FTP Uploadr: <b>Disabled</b>
	Sharing	
	Users	default user(s): <b>admin</b>
	Groups	default group(s): none
	Shares	default share(s): ◆ <b>video (Predefined)</b> ◆ <b>photo (Predefined)</b> ◆ <b>music (Predefined)</b>

		<ul style="list-style-type: none"> <li>◆ <b>public (Built-in)</b></li> <li>◆ <b>admin (Built-in)</b></li> </ul>
Maintenance	Power	<ul style="list-style-type: none"> <li>◆ Turn off hard disk(s): <b>3</b> minutes</li> <li>◆ Minimum UPS Capacity: <b>50</b> %</li> <li>◆ Power On After Power Failure: <b>Keep Former Status</b></li> <li>◆ Power On/Off Schedule: <b>Disabled</b></li> </ul>
	Log	<b>N/A</b>
	Configuration	<b>N/A</b>
	SSL	Force HTTPs: <b>Disabled</b>
	FW Upgrade	Periodically Check for Latest Firmware Automatically: <b>Enabled</b>
	Shutdown	<b>N/A</b>

## **History**

**Modification in V4.41(AFD.0)C0 | 08/09/2013**

**Modification in V4.41(UAE.0)D0 | 08/09/2013**

[Enhancement]

- The Dropbox API is migrated to V1.
- LibUPnP is upgraded to 1.6.18
- GUI supports multiple accounts deletion.

[Bug Fix]

- The quota limitation doesn't work when files are uploaded through Web file browser by the users with space inside the username, like "user user".