

ZyXEL

Firmware Release Note

NSA-2400

Release 1.00(AFA.1)C0

| | |
|------------------------|---------------------|
| Date: | Jan 11, 2007 |
| Author: | Andy Lin |
| Project Leader: | Ray Cheng |

1.Revision History

| Date | Release | Author | Description |
|------------|---------|----------|---|
| 2007/01/11 | 1.0 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)C0 |

2.Related Documents

| No. | Date | Author | Document |
|-----|------------|----------|---|
| 1 | 2005/6/8 | K.H Tung | System State Transition Lamps indications.doc |
| 2 | 2006/07/25 | Andy Lin | 100AFA0C0.doc |

NSA-2400 Version Release 1.00(AFA.1)C0 Release Note

Date: Jan 11, 2007

This document describes the features in the NSA-2400 product for its 1.00(AFA.1)C0 release.

Supported Platforms:

ZyXEL NSA-2400 Series

Versions:

NSA Version: V1.00(AFA.1)C0

Firmware Checksum: (Web Configurator -> System Status -> System Info)

| File Checksum | MD5 checksum (extract 8 characters from begin) |
|------------------|--|
| RomFile Checksum | 416d8698 |
| ZLD Checksum | 5a08a6b0 |
| Core Checksum | 41dd9fd4 |

Notes:

| MainBoard revision | BIOS version | Remark |
|----------------------------------|---------------------------------|--|
| 1. ECN400 M101 430 (and earlier) | < R1.3 (current version: R1.2D) | 1. SATA-II HDD couldn't be detected and supported on those platform. [Workaround] We found that we can perform jumper setting ("OPT1"- fix SATA-I speed) on Western Digital (WD) SATA-II HDD for normal operation; but, Seagate, Maxtor, etc. SATA-II HDDs couldn't be detected with or |

| | | |
|--------------------------------|------|-------------------------|
| | | without jumper setting. |
| 2. ECN400 M101 501 (and later) | R1.8 | |

BIOS image for all mainboards are included into one BIOS upgrade package, and during upgrade process, mainboard revision would be detected automatically. (e.g., bios-r12d-r18.fwp - NSA BIOS Upgrade Package R1.2D/R1.8)

Known Issues:

1. Internet Explorer Issue:
If Active X control is disabled in the IE, create volume wait page, restore file tree, and backup file tree pages will not work
2. Can not detect APC UPS in this version
3. Disable SMTP authentication will cause compatibility issue with some Mail server (Ex. Yahoo)
4. The more snapshots images there are, the less performance will be

Release Package:

| File name | File contents | Description |
|---------------|---|---------------------------------------|
| 100AFA1C0.fwp | Size: 38759184 bytes MD5 checksum: 8b757ca5eb0332fe1f212584a3f4680b | NSA-2400 Firmware Package |
| 100AFA1C0.pdf | | Firmware release note (This document) |

LED Specification:

| LED | Indicator | State |
|-----------------------------|--------------------------------|---|
| Power LED (PWR) | ON | Platform is powered |
| | OFF | Platform is NOT powered |
| | | |
| System LED (SYS) | See "Action Table" for details | |
| | | |
| Diagnostic LED (DIAG) | See "Action Table" for details | |
| | | |
| Ethernet Activity LED (LAN) | OFF | Platform is connected to an Ethernet port |
| | DATA_BLINK | LED flickers on when sending / |

| | | |
|--|--|-------------------------------|
| | | receiving data across the LAN |
|--|--|-------------------------------|

Action Table:

| Action | State | System LED | Diagnostic LED | System Log |
|--------|----------------------------------|-----------------|--------------------|------------|
| A0 | Reboot | Red Blink | Off | None |
| | Shutdown | | | |
| | Power button quick pressed | | | |
| | Reset flash done | | | |
| | Kernel update done | | | |
| A1 | Linuxrc check OK | Red On | Off | None |
| A2 | Agent Reset Flash | Orange Blink | Off | None |
| A3 | Remount Volume 1 OK | Green On | Off | None |
| A4 | Remount Volume 1 Fail | Orange On | Off | None |
| A5 | Agent restore requested | Orange Blink | Red On | None |
| A6 | Delete last Volume | Orange On | Off | None |
| A7 | Disk degrade | Red Quick Blink | Off | None |
| A8 | User request firmware(FW) update | Orange Blink | Off | None |
| A9 | Disk re-sync | Green On | Red Blink | None |
| A10 | Disk re-sync done | Green On | Off | None |
| A11 | Firmware update done | Green On | Off | None |
| A12 | Firmware update fail | Orange Blink | Red Quick Blink(?) | None |
| A13 | Reset flash fail | Orange Blink | Red Quick Blink | None |
| A14 | Manufacturing disk re-init done | Green Blink | Off | None |
| A15 | Disk re-init fail | Orange Blink | Red Blink | None |

Default Settings:

Configuration:

- Hostname: NSA[The last two fields of MAC address] (e.g. NSA043E)
- IP Address: 192.168.1.3
- FTP server: On (Default account is the same of Web Interface.)
- Samba server: On
- Hardware Reset Button: enabled

Note: If disk volume created, then Samba server mode is On, and share resource list as following:

1. backup – everyone (Read/Write)
2. public – everyone (Read/Write)
3. ftp-upload – anonymous/ftp (Read/Write)
4. ftp-download – anonymous/ftp (Read/Write)
5. bkshare – admin (Read/Write)
6. snapshot – admin (Read Only)

Accounts:

1. admin (Password: 1234)
2. anonymous/ftp (Password: <any password>)

Web Interface:

- Username: admin
- Password: 1234

Features:

Modifications in V1.00(AFA.1)C0

[NEW]

1. NSA Backup

Use the ***Protect -> Backup*** menus to create data backups to an external USB disk drive or another NSA over the network. Backup disks must be formatted by the NSA as a disk of type BACKUP. You cannot back up to other file systems such as NTFS, FAT, or FAT32. The NSA does not check if enough space is available before backup commences. The NSA first starts transferring files and if not enough space is available, then it issues a log or alert to tell you that the backup failed (due to lack of space) and deletes any files already transferred. The NSA deletes old backups first before a new backup is done (Purge). If you have a backup scheduled to begin at midnight, then at that time, the NSA checks your Purge settings and deletes files according to those settings before the actual backup takes place. If space on the backup NSA is a concern, then configure the NSA to delete old backups. A full backup copies all files from your NSA to the backup device. It may take some time depending on how many files you have to back up. It is not possible to run programs (like FDISK), that access the disk directly, while backup is running.

Note: NSA backup can only be done to another NAS with the same firmware version or an external USB disk that was formatted as 'Backup' volume type.

2. Snapshot

Via ***Protect -> Snapshot*** menu, you can take snapshots for system. A snapshot is a record of changes to a (internal) volume at a particular moment in time. As it only records changes to files made in a volume, it's faster and takes up less space than a backup. Snapshots are good for data that changes often and needs to have high availability. If files within a volume become infected or corrupted, you can revert the volume back to a previous snapshot.

Note:

- a. You cannot create snapshots with volumes created using this NSA-2400 release 1 (v1.00 AFA.0 C0) firmware. To overcome this, create a new volume using release 2 firmware, copy the old volume data over to the new volume and then recreate the old volume. If you don't have***

enough space to create a new volume, then use the Genie Backup Manager to transfer data from your old volume to your computer, recreate the old volume, and then use the Genie Backup Manager again to back up data from your computer to the newly created volume.

- b. Snapshots cannot be taken on external volumes or internal volumes using the BACKUP storage system.*
- c. If the reserved space for snapshots runs out, then all snapshots (including previously created ones) are lost. Make sure that you reserve enough space for snapshots.*
- d. Since a snapshot is a record of changes, if very large files (typically over 1GB) are transferred onto the volume, then that 'change' may be larger than the reserved space for the snapshot causing it to become invalid.*
- e. A snapshot just takes up as much space as it needs (within the reserved space). Reserved snapshot space can be decreased later, but not increased, so it's better to start off with a (not too) big reserved space.*
- f. If the disk associated with a volume fails, then all snapshots in that volume are lost.*
- g. The purging of snapshots occurs after the next snapshot is taken (unlike backup purges which occur before backup is done).*
- h. Up to 30 snapshots are allowed in total on the NSA.*
- i. The NSA uses EVMS (Enterprise Volume Management System) to create snapshots.*

3. Scheduler

Use the **Protect -> Scheduler** menus to create scheduled jobs for backups or snapshots.

4. Multi-language support

Can choose **English, Chinese Traditional, Italian, German, or French** as GUI language

5. Load default settings support

Click the **Load Default Button** in **Maintenance -> Configuration** can reset the system to factory default.

[ENHANCEMENT]

- 1. Check capacity before firmware upgrade
- 2. More internal volume types support
Support **RAID 0/RAID 1/RAID 10/RAID 5/RAID 5 spare/JBOD** (not SINGLE) now
- 3. More external disk types support
Support **JBOD/BACKUP/REGULAR** now

[CHANGE]

- 1. Some modification for the behavior of Disk Wizard to fit the new internal volume types support
- 2. RESET button scenario modification
 - press for 2 seconds: reset admin's password and network settings

- a. release button when beep first time, DIAG lamp will quick blink orange and process starts
 - b. it will beep again when finished and the DIAG will be turned off
- press for 10 seconds: load default settings
 - a. when beep twice, DIAG lamp will quick blink orange and process starts
 - b. system will restart when process finished

[BUG FIX]

1. SPR: 060712656
Symptom: volume status "DOWN"
2. SPR: 060712658
Symptom: upgrade firmware sometime failed at RAID-5 resyncing
3. SPR: 060714880
Symptom: External disk information error
4. SPR: 060714881
Symptom: External disk not supports unicode (FAT32/NTFS filesystem)
5. SPR: 060725674
Symptom: link an incorrect XML page
6. SPR: 060920351
Symptom: system resource is not enough
7. SPR: 060317297
Symptom: mount point is deleted
8. SPR: 060717968
Symptom: NSA-2400 could not repair the partition disk

[INTERNAL INFORMATION]

** The following information is only for ZyXEL internal users (RD, PM, QA, CSO ... etc). Please remove them if need to be released to outside customers.*

Revision History:

| Date | Release | Author | Description |
|------------|---------|----------|---|
| 2006/11/03 | 0.1 | Andy Lin | 1. File created 2. Release firmware version: V1.00(AFA.1)b1 |
| 2006/11/17 | 0.2 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b2 2. Add Internal information |
| 2006/12/01 | 0.3 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b3 |
| 2006/12/07 | 0.4 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b4 2. Fix the critical SPR item 061206375 found in b3 |
| 2006/12/15 | 0.5 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b5 |
| 2006/12/22 | 0.6 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b6 |
| 2006/12/28 | 0.7 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b7 |
| 2007/01/03 | 0.8 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)b8 |
| 2007/01/11 | 1.0 | Andy Lin | 1. Release firmware – version: V1.00(AFA.1)C0 |

Notes:

1. svn revision: **R947** (codes are the same as b8, but version related information - /etc/version and /etc/i-version is checked-in as **R954**)
2. build at **R943** and update some issues until **R947** (the same as b8)
3. This version is the same as V1.00(AFA.1)b8. Only the information of firmware version is modified.

Features:

1. [Feature changed]
 - a. (R940) use emergency_restart instead of user space reboot process.
2. [Feature enhancement]
 - a. (R936) Force Activate Corrupted RAID5 at start-up, Skip making swap file when during resync or recovery
 - b. Check /var capacity before firmware upgrade
 - c. Check /var capacity in watchdog
3. [Bug fixed]
 - a. (R935) Debug time zone problem in _by_week _dy_month functions
 - b. (R937) Fix Corrupted RAID5 only when member disks greater than 2
 - c. (R938) SPRID: 061229043 - expand volume if snapshot image exist will lead to daemon dead
Description:
start service if there were snapshots before expand data volume space
 - d. (R939) SPRID: 061211734 - Hard disk tray "ALM" can not light red
Description:
Do LED change in kernel space, before call_usermodehelper.
 - e. (R941) SPRID: 070103078 - can not use that user defined domain group to accss NSA-2400

Description:

In R2, /usr/bin/id version has been updated to 5.2.1 and get a different output from the original version (2.0.11) in C0. Now rollback /usr/bin/id to C0 version (2.0.11).

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Modifications in V1.00(AFA.1)b7

[CHANGE]

1. Add the IP validation code that can not backup to local NSA
2. Add 512 Swap Space for V1 Volumes (for SPR: 061221253)

[BUG FIX]

1. SPR: 061213826
Symptom: a.ntp.alphazed.net time server no response
2. SPR: 061221253
Symptom: run 72 hrs stress test leads to NSA-2400 server hanged
3. SPR: 061225703
Symptom: server name need to double confirm
4. SPR: 061227971
Symptom: overview can not show snapshot jobs information

[b7 INTERNAL INFORMATION]

Notes:

1. svn revision: 934
2. R934: (fix SPR: 061227971) "The total number of snapshot job number is incorrect" has been patched after building "100AFA1b7"(R933).
3. Fix bugs: 4 (L1: 1, L2: 0, L3: 3, WS: 0)
Remain bugs: (L1: 0, L2: 0, L3: 19, WS: 20)
Fix GBM bugs: 4 (L1: 1, L2: 3, L3: 0, WS: 0)
Remain GBM bugs: (L1: 2, L2: 4, L3: 3 WS: 0)

Features:

1. [Feature changed]
 - a. (R923) do filesystem check for var at start-up for both R1 and R2.
 - b. (R932) change severity of login fail to info;login success success to debug
2. [Feature enhancement]
 - a. (R924) Bugzilla: 799 - [System] Please do a clean shutdown before reboot

Description:

Add "/etc/rc.d/rc1.d/S31umountnfs" (link to "/etc/init.d/umountfs") to umount all fs before S90reboot in runlevel 1. It will do a clean shutdown in runlevel 1 (including firmware upgrade and configuration restore) now.

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Modifications in V1.00(AFA.1)b6

[ENHANCEMENT]

1. Backup/Restore jobs can support Unicode and file/folder name with space inside

[BUG FIX]

1. SPR: 061110586
Symptom: server name incorrect
2. SPR: 061113673
Symptom: “too many connected users” issue after over weekend stress
3. SPR: 061120114
Symptom: no primary email setting can not go to next page
4. SPR: 061120118
Symptom: mount external disk failed while volume resyncing
5. SPR: 061122233
Symptom: there is no function name description
6. SPR: 061122271
Symptom: password email has wrong information
7. SPR: 061211731
Symptom: too many pages are not translated completely
8. SPR: 061213826
Symptom: a.ntp.alphazed.net time server no response

[b6 INTERNAL INFORMATION]

Notes:

1. svn revision: 922
2. Add "sort" in TMP_LIST to avoid duplicate folder name problem
Check-in “BackupJobsQuery.c” after build “100AFA1b6-5” (Revision: 921) and use patch to fix it.
3. Fix bugs: 8 (L1: 0, L2: 1, L3: 7, WS: 0)
Remain bugs: 37 (L1: 0, L2: 0, L3: 17, WS: 20)
Remain GBM bugs: 13 (L1: 3, L2: 7, L3: 3 WS: 0)

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Modifications in V1.00(AFA.1)b5

[ENHANCEMENT]

1. Added Rollback status indication.

[CHANGE]

1. Backup protect: Remove “Do not replace existing files” in restore method. Only “Always replace file” supported.

[BUG FIX]

1. SPR: 060317297
Not a problem.
2. SPR: 060717968
Symptom: NSA-2400 could not repair the partition disk
3. SPR: 061113721

- Symptom: compare with v1 and v2 throughput , v2 is down
4. SPR: 061122232
Symptom: backup/restore issue
 5. SPR: 061122238
Symptom: resyncing status became degraded mode
 6. SPR: 061211733
Symptom: unexpected characters ” ; ”
 7. SPR: 061211734
Symptom: Hard disk tray ”ALM” can not light red
 8. SPR: 061213824
Symptom: user can not access NSA-2400 after rollback snapshot
 9. SPR: 061113673
Symptom: too many connected users issue after over weekend stress

[b5 INTERNAL INFORMATION]

Notes:

1. svn revision: 845
2. Fix bugs: 8 (L1: 0, L2: 3, L3: 5, WS: 0)
Remain bugs: 51 (L1: 2, L2: 5, L3: 26, WS: 18)

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Modifications in V1.00(AFA.1)b4

[NEW]

1. A new BIOS package “bios-r12d-r18.fwp” has been released with this firmware for support emergency boot (Only used for PE). (b3)

[ENHANCEMENT]

1. Disk wizard support multi-language now. (b3)

[CHANGE]

1. The access right of share “bkshare” is admin read/write instead of just admin read only now. (b3)
2. RESET button scenario has been changed to the NSA-220 format (b3)
 - press for 2 seconds: reset admin's password and network settings
 - a. release button when beep, DIAG lamp will quick blink orange and process starts
 - b. it will beep again when finished and the DIAG will turn off
 - press for 10 seconds: load default
 - a. when beep twice, DIAG lamp will quick blink orange and process starts
 - b. system will restart when process finished

[BUG FIX]

1. SPR: 061206375
Symptom: Shares disappeared , CIFS/FTP can not access after upgrade to b3
2. SPR: 061122236
Symptom: scheduler backup issue

3. SPR: 061113673 (b3)
Symptom: "too many connected users" issue after over weekend stress
4. SPR: 061121141 (b3)
Symptom: "Repair" action doesn't work when using a whole new HDD
5. SPR: 061122234 (b3)
Symptom: it is still running even press cancel button
6. SPR: 061122235 (b3)
Symptom: failed to repair "all new disk"
7. SPR: 061122239 (b3)
Symptom: NT4 domain users failed to access NSA-2400 by FTP/CIFS
8. SPR: 061122269 (b3)
Symptom: error message when delete a user

[b4 INTERNAL INFORMATION]

Notes:

1. svn revision: 756
2. Fix bugs: 8 (L1: 1, L2: 4, L3: 3, WS: 0)
Remain bugs: 43 (L1: 2, L2: 4, L3: 21, WS: 16)

Bug Fix:

1. Bugzilla item: none

SVN messages:

r749 | roger.chou | 2006-12-01 18:26:01 +0800 (Fri, 01 Dec 2006) | 1 line

removed path for snapshots so that it does not show "ts" in the volume list when displaying the list of shares.

r750 | andy.lin | 2006-12-01 18:48:09 +0800 (Fri, 01 Dec 2006) | 6 lines

[Bug Fixed]

- add [\] before ["] to avoid XML parse error:

```
echo "      <user-ref u-id=\"996\"></user-ref>" >> /tmp/share_final
echo "      <user-ref u-id=\"1000\"></user-ref>" >> /tmp/share_final
```

r751 | andy.lin | 2006-12-06 18:48:49 +0800 (Wed, 06 Dec 2006) | 6 lines

[Bug Fixed]

- SPRID: 061206375

Description:

Shares disappeared , CIFS/FTP can not access after upgrade to b3

r752 | andy.lin | 2006-12-06 18:51:49 +0800 (Wed, 06 Dec 2006) | 6 lines

[Bug Fixed]

- SPRID: 061206375

Description:

Shares disappeared , CIFS/FTP can not access after upgrade to b3

r753 | ally.lu | 2006-12-07 15:09:58 +0800 (Thu, 07 Dec 2006) | 1 line

add necessary parameter

r754 | ally.lu | 2006-12-07 15:12:06 +0800 (Thu, 07 Dec 2006) | 1 line

[Bug 765] Snapshot command will sometimes contain stderr, GUI will check the format and only shows the correct output.

r755 | andy.lin | 2006-12-07 15:30:43 +0800 (Thu, 07 Dec 2006) | 6 lines

[RELEASE]

- Modify version information

Description:

1. /etc/version: V1.00(AFA.1)b3 -> V1.00(AFA.1)b4
2. /etc/i-version: 0.1.0-5.40 -> 0.1.0-5.41

r756 | andy.lin | 2006-12-07 15:33:09 +0800 (Thu, 07 Dec 2006) | 1 line

Tagging "100AFA1b4" for NSA-2400 v2

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Modifications in V1.00(AFA.1)b3

[NEW]

1. A new BIOS package "bios-r12d-r18.fwp" has been released with this firmware for support emergency boot (Only used for PE).

[ENHANCEMENT]

1. Disk wizard support multi-language now.

[CHANGE]

1. The access right of share "bkshare" is admin read/write instead of just admin read only now.
2. RESET button scenario has been changed to the NSA-220 format
 - press for 2 seconds: reset admin's password and network settings
 - a. release button when beep, DIAG lamp will quick blink orange and process starts
 - b. it will beep again when finished and the DIAG will turn off
 - press for 10 seconds: load default

- a. when beep twice, DIAG lamp will quick blink orange and process starts
- b. system will restart when process finished

[BUG FIX]

1. SPR: 060615885
Symptom: server name & workgroup name doesn't support under line
2. SPR: 060621284
Symptom: GBM Lite 7.0 "Genie Update" failed
3. SPR: 060621285
Symptom: Disable the functions that lite doesn't support
4. SPR: 060717014
Symptom: GBM 7.0 Lite could not backup unicode file/directory
5. SPR: 061106310
Symptom: there are issues with irregular server name
6. SPR: 061113673
Symptom: "too many connected users" issue after over weekend stress
7. SPR: 061113677
Symptom: GBM server backup trial version is no backup SQL server and Exchange server function
8. SPR: 061120116
Symptom: too many unexpected words
9. SPR: 061120119
Symptom: GUI does not block unexpected words when error occurred
10. SPR: 061121141
Symptom: "Repair" action doesn't work when using a whole new HDD
11. SPR: 061122234
Symptom: it is still running even press cancel button
12. SPR: 061122235
Symptom: failed to repair "all new disk"
13. SPR: 061122239
Symptom: NT4 domain users failed to access NSA-2400 by FTP/CIFS
14. SPR: 061122269
Symptom: error message when delete a user
15. SPR: 061122270
Symptom: a.ntp.alphazed.net time server no response
16. SPR: 061122271
Symptom: password email has wrong information
17. SPR: 061122283
Symptom: please merge rollback snapshot function like backup/restore

[b3 INTERNAL INFORMATION]

Notes:

1. svn revision: 748
2. Add [\] before ["] to avoid XML parse error: (modify "migrate_2_v2_from_v1.sh")
This is added after tagging this build, but it's only related to the making firmware process.

3. Fix bugs: 17 (L1: 1, L2: 3, L3: 9, WS: 4)
Remain bugs: 37 (L1: 0, L2: 3, L3: 18, WS: 16)

Bug Fix:

1. Bugzilla item: 773, 774, 775, 778, 779, 782, 784, 785, 786, 788, 791, 793

SVN messages:

r646 | roger.chou | 2006-11-17 20:52:53 +0800 (Fri, 17 Nov 2006) | 1 line

modify function to use strreplace instead of htmlspecialchars as there are issues with some HTML code existing in our resource files.

r647 | roger.chou | 2006-11-17 21:59:54 +0800 (Fri, 17 Nov 2006) | 1 line

added setFileList so that backup source file/directory list is still preserved

r648 | michael.yao | 2006-11-20 09:24:21 +0800 (Mon, 20 Nov 2006) | 1 line

CONFIG_LBD to support > 2TB

r649 | ally.lu | 2006-11-21 10:17:38 +0800 (Tue, 21 Nov 2006) | 1 line

Use resource key for multi-language

r650 | andy.lin | 2006-11-21 14:47:07 +0800 (Tue, 21 Nov 2006) | 1 line

add code a delete backup tmp file "semit" and "semix" before query runfile

r651 | andy.lin | 2006-11-21 15:15:11 +0800 (Tue, 21 Nov 2006) | 3 lines

Add release information for 100AFA1b1 and 100AFA1b2

r652 | michael.yao | 2006-11-21 16:21:32 +0800 (Tue, 21 Nov 2006) | 1 line

Change buffer size to 1024MB for auto-expand

r653 | roger.chou | 2006-11-21 17:05:29 +0800 (Tue, 21 Nov 2006) | 1 line

unnecessary windows thumbnail database file

r654 | ally.lu | 2006-11-21 17:56:54 +0800 (Tue, 21 Nov 2006) | 1 line

Add V2 icon

r655 | ally.lu | 2006-11-21 18:51:11 +0800 (Tue, 21 Nov 2006) | 1 line

Add V2 icon

r656 | ally.lu | 2006-11-21 18:51:34 +0800 (Tue, 21 Nov 2006) | 1 line

Add V2 icon

r657 | roger.chou | 2006-11-21 21:03:03 +0800 (Tue, 21 Nov 2006) | 1 line

modified to only show Cancel if Backup Job (Not snapshot job)

r658 | ally.lu | 2006-11-22 09:32:53 +0800 (Wed, 22 Nov 2006) | 1 line

Use resource key for disk setup wizard

r659 | ally.lu | 2006-11-22 09:33:31 +0800 (Wed, 22 Nov 2006) | 1 line

Modify the limitation of snapshot percentage

r660 | michael.yao | 2006-11-22 10:08:43 +0800 (Wed, 22 Nov 2006) | 19 lines

2006/11/22 Michael Yao

[Feature Enhancement]

CreateVolume.sh: dd 1MB zero before create volume, Need to start service if create the first volume and not MAINT Mode

GetIVolumeInfo.sh: UK customer feedback, detect multi-md failure

storageV2.conf: do xfs_check, xfs_repair when mounting system var

remount.sh: skip xfs_check, xfs_repair at boot time

[Bugzilla Bugs]

GetIDisksInfo.sh: Bugzilla#739 Change Disk Lamp if disk is Down

ScanVolume.sh, ScanVolumeCancel.sh: Bugzilla#740 dd swap file in var for V1 volumes, swap size = var volume available size - 2 MB

[SPR Bugs]

RepairVolume.sh: SPR#061121141, 061122235 Modify commands for a brand new disk, SPR#060717968 delete partitions when MANUAL repair, dd 1MB zero before repair volume

r661 | ally.lu | 2006-11-22 10:39:14 +0800 (Wed, 22 Nov 2006) | 1 line

[Bugzilla 760] Display snapshot jobs which not on current volume list

r662 | michael.yao | 2006-11-22 13:21:29 +0800 (Wed, 22 Nov 2006) | 1 line

[Feature Enhancement] Change buffer size to 1024MB for auto-expand

r663 | michael.yao | 2006-11-22 13:24:56 +0800 (Wed, 22 Nov 2006) | 1 line

[Feature Enhancement] Interact with GUI by passing available disks

r664 | ally.lu | 2006-11-22 13:37:59 +0800 (Wed, 22 Nov 2006) | 1 line

Modify the bug of checking conflict volumes

r665 | ally.lu | 2006-11-22 13:38:22 +0800 (Wed, 22 Nov 2006) | 1 line

Modify the icon according to new HIE design

r666 | ally.lu | 2006-11-22 13:38:54 +0800 (Wed, 22 Nov 2006) | 1 line

Remove the limitation of RAID1 combination

r667 | latrell.wang | 2006-11-22 16:01:31 +0800 (Wed, 22 Nov 2006) | 1 line

If take snapshot fail, backup directly.

r668 | ally.lu | 2006-11-22 16:39:52 +0800 (Wed, 22 Nov 2006) | 1 line

Remove the debug code

r669 | michael.yao | 2006-11-22 18:00:54 +0800 (Wed, 22 Nov 2006) | 1 line

[Feature Enhancement] Interact with GUI, modified output format

r670 | ally.lu | 2006-11-22 18:22:19 +0800 (Wed, 22 Nov 2006) | 1 line

Use new field to show extra disk information

r671 | latrell.wang | 2006-11-22 19:05:35 +0800 (Wed, 22 Nov 2006) | 1 line

Accept signal when sleeping

r672 | andy.lin | 2006-11-22 19:07:40 +0800 (Wed, 22 Nov 2006) | 7 lines

[Bug Fixed]

- Error message "cat /var/run/nmbd.pid: No such file or directory" when booting up

Description:

It is because "/etc/rc.d/rcS.d/S40networking" calls "/usr/local/enas/sbin/SetSysName.sh" to set the hostname but nmbd is not running at that time. I've modified "SetSysName.sh" to show "nmbd is not running now." instead of the error message.

r673 | latrell.wang | 2006-11-22 19:11:45 +0800 (Wed, 22 Nov 2006) | 1 line

Modify BackupManager.c

r674 | andy.lin | 2006-11-22 19:50:15 +0800 (Wed, 22 Nov 2006) | 8 lines

[MFG Support]

- Modify the process to make install key

Description:

1. Add "target_key" (based on R1 C0) as the file system of install key."
2. Add "ExtractFWP.sh" to extract "boot" and "target" from a R2 fw package."
3. Update "BIOSNAME" in "MFG_Preparation.sh" to "CN40R18.BIN""
4. Update the "README" file

r675 | elaine.lin | 2006-11-22 20:13:13 +0800 (Wed, 22 Nov 2006) | 6 lines

Debug cancel job

Change line 216: recieve signal of changing status child process and to do
function sch_get_ret
signal(SIGCHLD, SIG_IGN) -> signal(SIGCHLD,sch_get_ret);

r676 | roger.chou | 2006-11-22 20:29:34 +0800 (Wed, 22 Nov 2006) | 1 line

fixed command to use proper command to cancel backup jobs

r677 | andy.lin | 2006-11-23 10:46:27 +0800 (Thu, 23 Nov 2006) | 6 lines

[RELEASE]

- Modify version information

Description:

1. /etc/version: V1.00(AFA.1)b2 -> V1.00(AFA.1)b3
2. /etc/i-version: 0.1.0-5.39 -> 0.1.0-5.40

r678 | roger.chou | 2006-11-23 10:54:56 +0800 (Thu, 23 Nov 2006) | 1 line

updated message resource strings with some fixes related to Storage and Disk Setup Wizard

r679 | andy.lin | 2006-11-23 11:03:47 +0800 (Thu, 23 Nov 2006) | 6 lines

[Feature Changed]

- Add "ping" command

Description:

In NSA-2400 original file system, "ping" is missing.

I've added it to /bin now (get from VM).

r680 | roger.chou | 2006-11-23 11:07:52 +0800 (Thu, 23 Nov 2006) | 1 line

modified cancel image to look more cancel like

r681 | michael.yao | 2006-11-23 11:49:16 +0800 (Thu, 23 Nov 2006) | 1 line

[Bug Fix] Fix some typo

r682 | ally.lu | 2006-11-23 13:22:59 +0800 (Thu, 23 Nov 2006) | 1 line

Update the bar message when requested from snapshot/backup pages

r683 | ally.lu | 2006-11-23 14:19:00 +0800 (Thu, 23 Nov 2006) | 1 line

Show correct status bar message

r684 | ally.lu | 2006-11-23 14:23:19 +0800 (Thu, 23 Nov 2006) | 1 line

Redirect to a page to tell user current purge policy after creating a new snapshot job

r685 | ally.lu | 2006-11-23 14:53:51 +0800 (Thu, 23 Nov 2006) | 1 line

Do not show keep snapshot number setting when select do nothing policy

r686 | roger.chou | 2006-11-23 15:08:11 +0800 (Thu, 23 Nov 2006) | 1 line

modified scheduler to properly split the Running Now job as well as minor fixes to the mouseover

r687 | roger.chou | 2006-11-23 15:12:06 +0800 (Thu, 23 Nov 2006) | 1 line

modified to properly show the mouseover titles

r688 | roger.chou | 2006-11-23 15:20:05 +0800 (Thu, 23 Nov 2006) | 1 line

latest resource strings

r690 | roger.chou | 2006-11-23 16:59:19 +0800 (Thu, 23 Nov 2006) | 2 lines

Fixes SPR 061122269

Now will ignore null references when attempting to delete and will not output messages to user as it is unnecessary when deleting. Corresponding function for group also fixed.

r691 | roger.chou | 2006-11-23 17:00:13 +0800 (Thu, 23 Nov 2006) | 1 line

minor bugfix.. invalid parameter passed to closedir(). Only creates some PHP warnings when failed to closedir.

r692 | elaine.lin | 2006-11-23 17:10:43 +0800 (Thu, 23 Nov 2006) | 5 lines

Change many "if else" to functions

-->event.type

r693 | ally.lu | 2006-11-23 17:41:07 +0800 (Thu, 23 Nov 2006) | 1 line

add default purge setting

r694 | roger.chou | 2006-11-23 17:52:38 +0800 (Thu, 23 Nov 2006) | 2 lines

Fixes SPRID 061106310

Adds FQDN Support for Server Name

r695 | ally.lu | 2006-11-23 18:24:09 +0800 (Thu, 23 Nov 2006) | 1 line

decide whether to display the keep snapshot setting or not according to to purge policy

r696 | andy.lin | 2006-11-23 20:53:15 +0800 (Thu, 23 Nov 2006) | 3 lines

[Upgrade]

- add /etc/zyxel/db/purgeSetting.txt if it not exists during upgrade process

r697 | roger.chou | 2006-11-24 09:48:36 +0800 (Fri, 24 Nov 2006) | 1 line

Remount Before Set Run level 3 fixes an issue with Disk Scan failure

r698 | roger.chou | 2006-11-24 11:12:03 +0800 (Fri, 24 Nov 2006) | 1 line

<http://www.zyxel.com>

removed defunct time server and repositioned ntp.pool to be the top choice.

r699 | roger.chou | 2006-11-24 11:12:52 +0800 (Fri, 24 Nov 2006) | 1 line

remove unnecessary html files

r700 | elaine.lin | 2006-11-24 19:37:30 +0800 (Fri, 24 Nov 2006) | 3 lines

change if else to case switch

r701 | ally.lu | 2006-11-27 13:29:59 +0800 (Mon, 27 Nov 2006) | 1 line

Remove duplicated tab icon

r702 | ally.lu | 2006-11-27 14:20:24 +0800 (Mon, 27 Nov 2006) | 1 line

[SPR 061122283] Modify the view images icon to rollback icon

r703 | elaine.lin | 2006-11-27 17:07:07 +0800 (Mon, 27 Nov 2006) | 3 lines

Change some if else to better order to read more friendly.

r704 | roger.chou | 2006-11-27 18:03:22 +0800 (Mon, 27 Nov 2006) | 1 line

modified to first check that a job is still running before cancelling the job

r705 | roger.chou | 2006-11-27 18:04:29 +0800 (Mon, 27 Nov 2006) | 2 lines

fixed link to restart page.

When restoring a configuration file or loading default configuration, the system should reboot instead of just restart Network Services

r706 | andy.lin | 2006-11-27 19:50:58 +0800 (Mon, 27 Nov 2006) | 9 lines

[Bug Fixed]

- No beep when pressing RESET button

Description:

[Solution] (from Router)

1. Perform "make menuconfig" on kernel source

2. Select Device Drivers -> Input device support -> [*] Miscellaneous devices -> <*> PC Speaker

support

3. Save new kernel configuration

4. Build new kernel for testing

r707 | andy.lin | 2006-11-27 20:01:12 +0800 (Mon, 27 Nov 2006) | 9 lines

[Feature Changed]

- Change the behavior of RESET button to:

1. press for 2 seconds: reset admin's password and network settings
 - a. release button when beep, DIAG lamp will quick blink orange and process starts
 - b. it will beep again when finished and the DIAG will turn off
2. press for 10 seconds: load default
 - a. when beep twice, DIAG lamp will quick blink orange and process starts
 - b. system will restart when process finished

r708 | michael.yao | 2006-11-28 17:05:35 +0800 (Tue, 28 Nov 2006) | 6 lines

2006/11/28 Michael Yao

[Feature Enhancement]

CreateVolume.sh: only do necessary initialization if there is a volume Degraded or Down

GetIVolumeInfo.sh: UK customer feedback, detect multi-md failure, sort disk name

RepairVolume.sh: UK customer feedback, detect multi-md failure and repair

r709 | ally.lu | 2006-11-28 17:16:09 +0800 (Tue, 28 Nov 2006) | 1 line

Do not show volume on volume list if no snapshot area is reserved based on beta testers' request.

r710 | michael.yao | 2006-11-28 18:41:43 +0800 (Tue, 28 Nov 2006) | 1 line

add utility to make new-buight disks

r711 | elaine.lin | 2006-11-28 20:59:23 +0800 (Tue, 28 Nov 2006) | 3 lines

log_msg : "ERROR" change to "DEBUG"

r712 | latrell.wang | 2006-11-28 22:00:02 +0800 (Tue, 28 Nov 2006) | 1 line

remove winbind tdb files and run TDB_Backup.sh after leaving domain

r713 | latrell.wang | 2006-11-28 22:02:31 +0800 (Tue, 28 Nov 2006) | 1 line

Join domain from workgroup mode do not have winbindd tdb files. Thus, check before check integrity

r714 | latrell.wang | 2006-11-29 09:46:14 +0800 (Wed, 29 Nov 2006) | 1 line

fix spr 061122239

r721 | latrell.wang | 2006-11-29 11:36:14 +0800 (Wed, 29 Nov 2006) | 1 line

1. add AutomountTuner.sh 2. Change timeout to 60 seconds

r722 | latrell.wang | 2006-11-29 13:10:19 +0800 (Wed, 29 Nov 2006) | 1 line

Try to umount when user access right changed.

r723 | latrell.wang | 2006-11-29 13:20:40 +0800 (Wed, 29 Nov 2006) | 1 line

Clear only when memory not enough.

r724 | latrell.wang | 2006-11-29 13:30:47 +0800 (Wed, 29 Nov 2006) | 1 line

fix spr 061113673

r725 | roger.chou | 2006-11-29 14:23:45 +0800 (Wed, 29 Nov 2006) | 2 lines

[Bug Fix]

Fix Potential Security Risk. If configuration file name includes BASH injection code it will be executed. Added a command to escape potentially dangerous characters.

r726 | roger.chou | 2006-11-29 14:24:42 +0800 (Wed, 29 Nov 2006) | 2 lines

Initial Modification for Unicode (UTF-8) support of User Names, Group Names & Share Names. Validation code will need to be further tested.

r728 | roger.chou | 2006-11-29 14:42:34 +0800 (Wed, 29 Nov 2006) | 2 lines

[Feature Change]

bkshare's access right now is admin read/write instead of just admin read only.

r729 | ally.lu | 2006-11-29 15:14:42 +0800 (Wed, 29 Nov 2006) | 1 line

Show create volume log when using disk setup wizard to create volume

r730 | ally.lu | 2006-11-29 15:42:28 +0800 (Wed, 29 Nov 2006) | 1 line

Add key mapping for no avail volume in snapshot page

r732 | ally.lu | 2006-11-29 18:16:39 +0800 (Wed, 29 Nov 2006) | 1 line

Modify the capital alphabet error

r733 | ally.lu | 2006-11-30 10:53:38 +0800 (Thu, 30 Nov 2006) | 1 line

Do not show log message when delete volume in disk setup wizard

r734 | ally.lu | 2006-11-30 11:09:37 +0800 (Thu, 30 Nov 2006) | 1 line

Do not need to call GetVolumeInfo again in the first step in disk setup wizard

r735 | andy.lin | 2006-11-30 16:22:55 +0800 (Thu, 30 Nov 2006) | 4 lines

[Feature Enhancement]

- Change the log message for LoadDefault.sh to "config.loadDefault" and reset admin password to "config.resetAdmin".

r736 | roger.chou | 2006-11-30 18:56:53 +0800 (Thu, 30 Nov 2006) | 1 line

modified the validation of share names to allow for underscores

r737 | roger.chou | 2006-11-30 19:51:49 +0800 (Thu, 30 Nov 2006) | 1 line

added parts where utf8 encode/decode is necessary

r738 | roger.chou | 2006-11-30 20:08:07 +0800 (Thu, 30 Nov 2006) | 1 line

modified to not accept unicode share names

r739 | roger.chou | 2006-11-30 20:08:34 +0800 (Thu, 30 Nov 2006) | 1 line

modified to properly validate group names and properly validate duplicates

r740 | roger.chou | 2006-12-01 10:43:19 +0800 (Fri, 01 Dec 2006) | 1 line

removed unnecessary html files

r742 | latrell.wang | 2006-12-01 15:52:28 +0800 (Fri, 01 Dec 2006) | 1 line

Don't run GetUserInfo.sh

r743 | latrell.wang | 2006-12-01 15:53:06 +0800 (Fri, 01 Dec 2006) | 1 line

Don't run GetUserInfo.sh

r744 | latrell.wang | 2006-12-01 15:53:23 +0800 (Fri, 01 Dec 2006) | 1 line

<http://www.zyxel.com>

Don't run GetUserInfo.sh

r745 | roger.chou | 2006-12-01 15:59:21 +0800 (Fri, 01 Dec 2006) | 1 line

Remove display of User's Group Membership since backend code has changed because of kernel upgrade

r746 | andy.lin | 2006-12-01 16:02:27 +0800 (Fri, 01 Dec 2006) | 4 lines

[Feature Change]

bkshare's access right now is admin read/write instead of just admin read only.
modify code to do this job during upgrading process

r747 | roger.chou | 2006-12-01 16:15:47 +0800 (Fri, 01 Dec 2006) | 1 line

can properly show unicode names when deleting user on the confirmation page

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Modifications in V1.00(AFA.1)b2

[ENHANCEMENT]

1. Disk Setup Wizard is ready
2. Multi-language is ready

[BUG FIX]

1. SPR: 051018478
Symptom: NDU DNS display
2. SPR: 051122395
Symptom: unexpected java script
3. SPR: 060105240
Symptom: External disk initialize problem
4. SPR: 060106335
Symptom: respond an error report
5. SPR: 060227257
Symptom: volumes conflict issue
6. SPR: 060403083
Symptom: why the temperature so high
7. SPR: 060406288
Symptom: external disk (FAT32) could not upload UTF-8 files(& folders)
8. SPR: 060615871
Symptom: NDU sometimes "down" or "unreachable" while doing fully stress
9. SPR: 060621283
Symptom: GBM Lite 7.0 "Take the Tour" could not open local html file

10. SPR: 060712656
Symptom: volume status "DOWN"
11. SPR: 060712658
Symptom: upgrade firmware sometime failed at RAID-5 resyncing
12. SPR: 060714880
Symptom: External disk information error
13. SPR: 060714881
Symptom: External disk not supports unicode (FAT32/NTFS filesystem)
14. SPR: 060717968
Symptom: NSA-2400 could not repair the partition disk
15. SPR: 060725674
Symptom: link an incorrect XML page
16. SPR: 060920351
Symptom: system resource is not enough
17. SPR: 061106305
Symptom: slowly to resyncing RAID-5+hot spare volume
18. SPR: 061106306
Symptom: unexpected sign
19. SPR: 061106307
Symptom: Multi-language not ready
20. SPR: 061106309
Symptom: incorrect disk used information
21. SPR: 061108419
Symptom: users can not access USB JBOD volume
22. SPR: 061109504
Symptom: disk installation wizard some functions not ready
23. SPR: 061110583
Symptom: failed to access by CIFS and FTP
24. SPR: 061110584
Symptom: failed to load snapshot page
25. SPR: 061110590
Symptom: backup function does not work
26. SPR: 061110591
Symptom: EXT3 filesystem failed to initialize be BACKUP volume
27. SPR: 061110592
Symptom: backup page has unnecessary characters
28. SPR: 061110595
Symptom: failed to create scheduler
29. SPR: 061110596
Symptom: external volume information is gone
30. SPR: 061113670
Symptom: there is no repair function pop-up
31. SPR: 061113672
Symptom: unexpected disks

32. SPR: 061113675

Symptom: backup page is blank

[b2 INTERNAL INFORMATION]

Notes:

1. svn revision: 645
2. src/apps/zdk/eNAS/WEB-INF/classes/Storage/StorageUtils.php has been rollback to r621 from r644 because this version can't create volume.
3. Fix bugs: 32
Remain bugs: 33 (L1: 1, L2: 2, L3: 12, WS: 18)

Enhancement:

1. If any words can't be found in it's language, GUI will show English instead of blank.

Bug Fix:

1. Bugzilla item: 736, 737, 741, 742, 746, 747, 750, 751, 752, 753, 754, 756, 758, 759, 762, 763, 765, 766, 768, 769, 770

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Features in V1.00(AFA.1)b1

■ *Status*

- Show **System Resources**
- Show **Volume Status**
- Show **System Status**
- Show **Active Sessions**
- Show **System Log**
- Show **System Info**

■ *Sharing*

- ⇒ Create/Modify/Delete users.
- ⇒ Create/Modify/Delete groups.
- ⇒ Create/Modify/Delete shares.
- ⇒ **Web file browser: delete current folder**

■ *Network*

- ⇒ Set DHCP/Static IP.
- ⇒ Set DNS Server.
- ⇒ Set Server Name.
- ⇒ Join ADS/NT4 domain.
- ⇒ Ftp Server.(Connection Limit range from 1~20 , Idle Timeout range from 1 ~ 300).

■ *Protect*

- ⇒ **Backup/Restore data in volumes to [remote NSA/external disk].**
- ⇒ **Take snapshots**

⇒ Use scheduler to handle backup/snapshot jobs

■ *Storage*

- ⇒ Create/Delete/Scan/Repair volumes.
- ⇒ Internal (**RAID 0/RAID 1/RAID 10/RAID 5/RAID 5 spare**/JBOD (not SINGLE)).
- ⇒ External Disk (**JBOD/BACKUP/REGULAR**).

■ *Maintenance*

- ⇒ Set system data/time.
- ⇒ Synchronize system data/time to a specified time server.
- ⇒ Send log alert email
- ⇒ Change admin's password.
- ⇒ **Load default settings.**
- ⇒ Configuration backup/restore.
- ⇒ FW Upgrade.
- ⇒ System shutdown/restart.