



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL NSA-2400. You'll find the answers to all your questions on the ZYXEL NSA-2400 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL NSA-2400
User guide ZYXEL NSA-2400
Operating instructions ZYXEL NSA-2400
Instructions for use ZYXEL NSA-2400
Instruction manual ZYXEL NSA-2400

NSA-2400

Network Storage Appliance

User's Guide

Version 1.00
12/2006
Edition 2

ZyXEL
www.zyxel.com



[You're reading an excerpt. Click here to read official ZYXEL NSA-2400 user guide](http://yourpdfguides.com/dref/3685376)
<http://yourpdfguides.com/dref/3685376>

Manual abstract:

· Supporting Disk Refer to the included CD for support documents. · ZyXEL Web Site Please refer to www.zyxel.com for additional support documentation and product certifications. User Guide Feedback Help us help you. Send all User Guide-related comments, questions or suggestions for improvement to the following address, or use e-mail instead. Thank you! The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 300, Taiwan. E-mail: techwriters@zyxel.com.

tw NSA-2400 User's Guide 3 Document Conventions Document Conventions Warnings and Notes These are how warnings and notes are shown in this User's Guide. Warnings tell you about things that could harm you or your device. Notes tell you other important information (for example, other things you may need to configure or helpful tips) or recommendations. Syntax Conventions · The Product Name [short] may be referred to as the "NSA", the "device" or the "system" in this User's Guide. · Product labels, screen names, field labels and field choices are all in bold font.

· A key stroke is denoted by square brackets and uppercase text, for example, [ENTER] means the "enter" or "return" key on your keyboard. · "Enter" means for you to type one or more characters and then press the [ENTER] key. "Select" or "choose" means for you to use one of the predefined choices. · A right angle bracket (>) within a screen name denotes a mouse click. For example, Maintenance > Log > Log Setting means you first click Maintenance in the navigation panel, then the Log sub menu and finally the Log Setting tab to get to that screen.

· Units of measurement may denote the "metric" value or the "scientific" value. For example, "k" for kilo may denote "1000" or "1024", "M" for mega may denote "1000000" or "1048576" and so on. · "e.g.," is a shorthand for "for instance", and "i.e.," means "that is" or "in other words". 4 NSA-2400 User's Guide Document Conventions Icons Used in Figures Figures in this User's Guide may use the following generic icons. The NSA icon is not an exact representation of your device. NSA Computer Notebook computer Server DSLAM Firewall Telephone Switch Router NSA-2400 User's Guide 5 Safety Warnings Safety Warnings For your safety, be sure to read and follow all warning notices and instructions.

· Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT store things on the device. · Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning. · Connect ONLY suitable accessories to the device. · Do NOT open the device or unit. Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information.

· ONLY qualified service personnel should service or disassemble this device. · Make sure to connect the cables to the correct ports. · Place connecting cables carefully so that no one will step on them or stumble over them. · Always disconnect all cables from this device before servicing or disassembling. · Use ONLY an appropriate power adaptor or cord for your device.

· Connect the power adaptor or cord to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe). · Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord. · Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution. · If the power adaptor or cord is damaged, remove it from the power outlet. · Do NOT attempt to repair the power adaptor or cord.

Contact your local vendor to order a new one. · Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning. · CAUTION: RISK OF EXPLOSION IF BATTERY (on the motherboard) IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS. Dispose them at the applicable collection point for the recycling of electrical and electronic equipment. For detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the store where you purchased the product. · Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. This product is recyclable. Dispose of it properly.

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. 86 Figure 35 Protect > Backup > Run Now

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105 Table 44 Create a New Internal Volume

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..116 Table 49 Maintenance > Log Alert

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.119 Table 51 Maintenance > Configuration

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139 *Table 57 Power Consumption in Watts (W)*

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Figure 6 Administrator Already Logged In You should see a screen asking you to change your password (highly recommended) as shown next. Type a new password (and retype it to confirm) and click Apply or click Skip. NSA-2400 User's Guide 31 Chapter 2 Introducing the Web Configurator Figure 7 Change Password Screen 1 If this is your first time to log into the NSA-2400, you will see a screen asking you to launch the setup wizard. Run the wizard to set up the basic NSA-2400 settings. See the Quick Start Guide for information on the wizard screens. Figure 8 Launch Setup Wizard Prompt 2.4 NSA-2400 Main Screen Overview Admin users first see the Status Overview screen after they log in.

See the next chapter for details on this screen. 32 NSA-2400 User's Guide Chapter 2 Introducing the Web Configurator Figure 9 NSA-2400 Status Screen 3 2 1 4 The web configurator management session automatically times out if it is left idle for 15 minutes. Simply log back into the NSA-2400 if this happens to you. 2.5 Global NSA-2400 Icons The icons and language label at the top-right of the screen (1) are visible from most screens. You may select the web configurator language from the drop-down list box here. The following table describes the 'global' icons and labels. Table 3 Global Labels and Icons LABEL/ICON DESCRIPTION Click this Help icon to open a web help page specific to the screen you are currently configuring. Click this Wizard icon to open a sub-menu of wizard(s). Click this About icon to view copyright and the model name.

Click this Logout icon at any time to exit the web configurator. This is the same as clicking the Logout link at the bottom of the Navigation panel. NSA-2400 User's Guide 33 Chapter 2 Introducing the Web Configurator 2.5.1 Navigation Panel The navigation panel on the left of the screen (2) contains screen links. Click a link to display sub-links. The sub-links are the same as the screen tabs (3), so you can either click a screen tab or a sub link to go to the same screen. There is no sub-link for the overview screen. Certain screens also contain hyperlinks that allow you to jump to another screen. Click the Status icon to open the Status screens.

Figure 10 Navigation Panel Links The following table describes the navigation panel screens. Table 4 Screens Summary LINK Status TAB Status Overview Active Sessions System Log System Info Sharing Overview Users FUNCTION This screen shows system resources such as CPU usage and memory being used by the NSA-2400, system status and NSA2400 internal and external volumes. 2400. This screen displays users who are currently using the NSA This screen displays recent NSA-2400 system logs. This screen displays NSA-2400 hardware and IP address information. This screen displays statistics on users, groups and shares. Use this screen to create users who may use the NSA-2400. You may set user passwords, define storage limits per user, and associate users to a group(s). Use this screen to create groups and add group members. Use this screen to create shared folders to which you can allow users and/or groups read/write access rights.

Groups Shares 34 NSA-2400 User's Guide Chapter 2 Introducing the Web Configurator Table 4 Screens Summary (continued) LINK Network TAB Overview TCP/IP FUNCTION This screen displays NSA-2400 IP address, CIFS and FTP information. Use this screen to assign a dynamic or static IP address and DNS information as well as an NSA-2400 host name. Windows/CIFS Use this screen to define a WINS server and choose a workgroup or domain authentication method. FTP Use this screen to enable FTP file transfer to/from the NSA-2400, set the number of FTP connections allowed and an FTP idle timeout. This screen displays NSA-2400 backup and snapshot information Use these screens to create, edit, run, restore and delete backups. Use these screens to create, edit, run, restore and delete snapshots. Use these screens to set times for repeated runs of backups and snapshots. This screen displays NSA-2400 volume, disk and snapshot information. Use the screen to create internal and external volumes. A volume is a fixed amount of storage on a disk.

Use this screen to view internal and external disk information. This screen displays NSA-2400 date and time, log alert, HTTPS (SSL) and firmware version information. Use this screen to choose a time zone and/or allow the NSA-2400 to synchronize with a time server. Use this screen to configure when/where to send e-mail alerts, and what mail server to use. Use this screen to change the NSA-2400 login password and configure secure web connections to the NSA-2400 using HTTPS.

Use this screen to back up and/or restore the NSA-2400 configuration file and/or enable the NSA-2400 reset button to return the NSA-2400 to its default admin password and IP address. Use this screen to upload new firmware to your NSA-2400. Use this screen to restart the NSA-2400 or shut it down. Click Logout to exit the web configurator. This is recommended to prevent unauthorized administrator access to the NSA-2400.

Protect Overview Backup Snapshot Scheduler Storage Overview Volume Disk Maintenance Overview Date/Time Log Alert Security Configuration F/W Upgrade Shutdown Logout 2.5.2 Status Messages At the bottom of the screen the message text box (4) displays status messages as you configure the NSA-2400. NSA-2400 User's Guide 35 Chapter 2 Introducing the Web Configurator 2.5.3 Common Screen Icons The following table explains some icons that appear in several configuration screens. Table 5 Common Configuration Screen Icons ICON DESCRIPTION Click the Edit icon to go to a screen where you can change the configuration settings of an entry. Click the Remove icon to delete an entry from the list. Click the Details icon to jump to related item's configuration screen. This is a user icon.

Please see the sharing screens chapter for detailed information on variants of this icon. This is a group icon. Please see the sharing screens chapter for detailed information on variants of this icon. This is a share icon. Please see the sharing screens chapter for detailed information on variants of this icon. This icon represents a Healthy volume. This icon represents a Degraded volume. Click the Repair icon to fix a degraded RAID volume after you have replaced the faulty disk. This icon represents a Down volume. Click the Initialize icon to create a volume.

This icon represents a Healthy disk. Click the Scan Disk icon to scan a hard disk drive for file system errors. Click the Expand Volume icon to expand a volume by up to the amount of snapshot reserved space less the amount of space currently being used by snapshots. Click the Unmount icon to unmount a volume when two volumes of the same name exist. See Section 7.

7.4 on page 109 for details. Click the Mount icon to mount a volume when two volumes of the same name exist. See Section 7.7.
4 on page 109 for details.



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Click the Disconnect icon before you remove an external hard drive so that you do not lose data that is being transferred to or from that hard drive. Click the Initialize icon for the NSA-2400 to create a volume on the (external) hard drive. Click the Locate icon to cause the LED on the external storage device to blink. Click the Repair icon to resynchronize a RAID volume after you replace a faulty hard disk. 36 NSA-2400 User's Guide Chapter 2 Introducing the Web Configurator Table 5 Common Configuration Screen Icons (continued) ICON DESCRIPTION Click the Schedule icon to set a time for a backup or snapshot to run. In the Backup screen this is the Run Now icon used to perform a backup immediately. Click the Cancel icon to stop a backup while it is running. Click the Take Now icon to take a snapshot immediately Click the Images icon to see a summary of all snapshots available. 2.

6 Forgot Your Password If you forget your password, you could have the NSA-2400 e-mail your password to you if you configured your e-mail address and mail server on the NSA-2400. Alternatively, if you didn't configure an e-mail address, then you will have to reset the NSA-2400. 2.6.1 NSA-2400 Sends Password If you enter a wrong password, the NSA-2400 displays the following screen. Click the Forgot Your Password link to display the Forgot Your Password screen. Figure 11 Wrong Password Click Continue to have the NSA-2400 e-mail a randomly generated password to the e-mail address you configured. NSA-2400 User's Guide 37 Chapter 2 Introducing the Web Configurator Figure 12 Generate Password Click login to go to the NSA-2400 screen and enter the new e-mailed password there. You should change this password and then write down your new password and put it in a safe place. Log in With New Password 2.

6.2 Reset the NSA-2400 Alternatively, if you forget your password or cannot access the web configurator, use the RESET button at the front of the NSA-2400. You will NOT lose all NSA-2400 configurations but the IP address, subnet mask and admin password are all returned to the factory defaults. You should check that the RESET button is enabled in the Maintenance > Configuration screen. 2.

6.2.1 Procedure To Use The Reset Button 1 Press and hold the RESET button until you hear a beep, and then release it. 38 NSA-2400 User's Guide Chapter 2 Introducing the Web Configurator 2 The NSA-2400 automatically restarts to complete the reset. NSA-2400 User's Guide 39 Chapter 2 Introducing the Web Configurator 40 NSA-2400 User's Guide PART II Status, Sharing and Network Status Screens (43) Sharing Screens (51) Network Screens (71) 41 42 CHAPTER This chapter introduces the Status screens of the NSA.

3 Status Screens 3.1 Status Overview Screen The Status Overview screen is the first main web configurator screen you see after you log in (and complete the wizard the first time). To view the status screens, click the Status icon on the top-left of the navigation panel. The following table describes the labels in this screen. Table 6 System Overview LABEL DESCRIPTION Select a number of seconds or None from the drop-down list box to refresh all screen statistics automatically at the end of each time interval. Click the Refresh icon to immediately refresh the status screen statistics. Alternatively, click this button to immediately refresh the status screen statistics. System Resources NSA-2400 User's Guide 43 Chapter 3 Status Screens Table 6 System Overview (continued) LABEL CPU Usage CPU Temperature DESCRIPTION This displays CPU usage by all current processes since the last update. If too many users are using the NSA then the NSA may appear sluggish. This displays the current temperature of the NSA CPU.

If the temperature is not within range (about 00 to 850 C) the NSA may malfunction. If the NSA overheats for example, turn it off and let it cool down. Make sure the fans are working and it is in a well ventilated place. This number shows how much of the NSA's total memory is being used. This shows the current number of active sessions. It is useful when you want to restart or shutdown the NSA so you can tell if there are users currently connected to the NSA. You should then contact each user to make sure that they disconnect from the NSA before you restart or shut it down. Click the view details link to go to the System Status > Active Sessions screen. This field displays whether an Uninterruptable Power Supply (UPS) is being used. A UPS is advisable to protect sensitive data stored on the NSA in the event of a power outage.

A battery meter displays what percentage Uninterruptable Power Supply (UPS) battery power remains when an APC UPS is connected to an NSA USB port and is turned on. Power from the UPS is used when power from the mains is down and while the UPS has battery power. Power from the mains is used when the mains power returns; the APC UPS battery is recharged then too. This field displays N/A when no UPS is connected to the NSA or it is turned off. This displays the name which helps you find the NSA on the network.

Click the update link to go to the Network > TCP/IP screen. Click the Modify button after the Server Name label in that screen to go to the Network > Windows/CIFS in which you can change the Server Name. You can enter up to 15 alphanumeric characters with minus signs allowed but not as the last character. The name must begin with an alphabetic character (a-z) and is NOT case sensitive. This is the NSA firmware version and the date created.

Click the update link to go to the Maintenance > Firmware Upgrade screen from which you can upload new firmware. This is the total time the NSA has been on since your last power-up. This displays the date (month/date/year) and time (hours/minutes/ seconds). Click the update link to go to the Maintenance > Date/Time screen from which you can change the system time. This displays the NSA's IP address. This displays the most recent (nine) error messages generated by the NSA. Click on a log entry to go to the Status > System Log screen. A volume is a storage area on a single disk or spread across a number of disks within a single file system. This displays the volumes created on the NSA hard drives. This displays the volumes created on USB hard drives connected to the NSA.

USB ports are numbered in the order that you insert USB devices. This field shows the NSA-generated name for the volume. This field (also known as Type) shows what type of data storage system (a RAID type or JBOD) the volume is using. For external drives, it may show REGULAR or OK meaning that the NSA can read the volume but the volume wasn't created on the NSA. Memory Usage Open Sessions UPS System Status System Name Firmware Version System Uptime System Time Current IP Last Few Error Messages Volume Status Internal Volume External Volume Volume Name Disk Configuration 44 NSA-2400 User's Guide Chapter 3 Status Screens Table 6 System Overview (continued) LABEL Disks DESCRIPTION For external drives, this field shows USB1 for the first external hard drive you connect to the NSA (regardless of which USB port), USB2 for the second and USB3 for the third.



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This field shows total disk size, the percentage of the volume being used and the percentage that is available. Disk Usage 3.2 Active Sessions Screen The Active Sessions screen shows how many users are currently connecting to the NSA via CIFS and FTP (not web configurator). Figure 13 Status > Active Sessions The following table describes the labels in this screen. Table 7 Active Sessions LABEL Type Share Name User Name Connected At IP Address DESCRIPTION This shows whether it's a Windows/CIFS or FTP connection to the NSA.

This displays the shared folder name on the NSA that the user is connected to for CIFS sessions and is blank for FTP sessions. This displays the name of the user connected to the NSA if one is defined and ANONYMOUS CIFS or ANONYMOUS FTP otherwise. This displays the date and time the user last connected to the NSA in day, month, date, hour, minute, second, year format. This displays the IP address of the computer connected to the NSA. 3.

2.1 Session Example (Windows) Open windows explorer and type two back slashes followed by the NSA name or IP address. Initially you can only read and write to the Public folder until you create shares on the NSA. This session is then displayed as shown in Figure 13 on page 45. Figure 14 Session Example (Windows) NSA-2400 User's Guide 45 Chapter 3 Status Screens 3.

3 System Log The following screen displays all NSA logs. There are at most 128 entries in the log. Older logs are removed by the system. You cannot download the log file via FTP or CIFS. See the User Guide appendices for example log messages. Figure 15 Status > System Log The following table describes the labels in this screen. Table 8 System Logs LABEL View All Logs Filter Time DESCRIPTION The screen always shows all logs by default. Choose a specific log category and then click Filter to view logs for just that category. Click this button to just view log types selected in the list box above. This shows the date and time the log was created.

46 NSA-2400 User's Guide Chapter 3 Status Screens Table 8 System Logs (continued) LABEL Class Severity Message First/Prev Next/Last Purge all Logs Edit Log Alert Settings DESCRIPTION This displays the log category; see Table 9 on page 47. This displays how serious the log is rated by the NSA. See Table 10 on page 47 for more information. This displays a description of the log. Use these hyperlinks to navigate to the first or previous log page. Use these hyperlinks to navigate to the next or final log page. Click this button to erase all logs from the NSA. This may be advisable when there is not much hard drive space on the NSA available. Click this button to jump to the Maintenance > Log Alert page from where you can decide when to send alerts and where to send e-mails. The following table shows information on log categories.

Table 9 Log Categories LOG CATEGORY Network FTP CIFS Security Storage Quota System DESCRIPTION This log category shows information on network configuration, setting changes and so on. This log category shows FTP session related information. This log category shows Windows/CIFS session related information. This log category shows information on user account changes, web sessions and so on. This log category shows disk, volume and RAID information.

This log category shows quota control information. This log category shows all other system related messages. The following table shows information on log severity levels Levels range from 0 to 6 with 0 being the most severe level log and 6 being an informational log only. Log levels are not displayed in the logs and are for your reference only. Table 10 Log Severity Levels LEVEL 0 1 2 3 4 5 6 DESCRIPTION Emergency Alert Critical Error Warning Notice Info See the appendices for a table of example log messages.

NSA-2400 User's Guide 47 Chapter 3 Status Screens 3.4 System Info Use this screen to view detailed NSA system and hardware information. Figure 16 System Info The following table describes the labels in this screen. Table 11 System Info LABEL System Name DESCRIPTION This displays the name which helps you find the NSA on the network. Click the update link to go to the Network> TCP/IP screen. Click the Modify button after the Server Name label in that screen to go to the Network > Windows/CIFS in which you can change the Server Name. You can enter up to 15 alphanumeric characters with minus signs allowed but not as an end character. The name must begin with an alphabetic character (a-z) and is not case sensitive. This displays the NSA model name. This is the NSA firmware version and the date created.

Click the update link to go to the Maintenance > Firmware Upgrade screen from which you can upload new firmware. These four fields are to verify that a correct version of the firmware has been installed. Customer support may also request this information to help with troubleshooting. This displays the type of CPU the NSA has. This displays the amount of non-volatile flash memory. Flash memory is used for storing NSA firmware and configuration files. This displays the amount of (volatile) RAM. The NSA uses RAM during system runtime. This displays whether the reset button is enabled or not. Use the reset button to restore the factory default user name to "admin", default password to "1234", default IP address to 192.

168.1.3 with subnet mask of 255.255.255.

0. Check that the reset button is enabled in the Maintenance > Configuration screen. This displays the NSA's IP address. This displays the NSA's subnet mask. This displays the NSA's default gateway.

Model Name Firmware Version BIOS Version RomFile Checksum ZLD Checksum Core Checksum CPU Info Flash Memory Size RAM Memory Size Hardware Reset Button IP Address IP Subnet Mask Default Gateway 48 NSA-2400 User's Guide Chapter 3 Status Screens Table 11 System Info (continued) LABEL MAC Address DESCRIPTION This displays the NSA's unique physical hardware address (MAC). You need the MAC address to register the product at myZyXEL.com. Customer support may also request it for troubleshooting purposes. This field displays whether an Uninterruptable Power Supply (UPS) is being used. A UPS is advisable to protect sensitive data stored on the NSA in the event of a power outage. A battery meter displays what percentage Uninterruptable Power Supply (UPS) battery power remains when an APC UPS is connected to an NSA USB port and is turned on. Power from the UPS is used when power from the mains is down and while the UPS has battery power. Power from the mains is used when the mains power returns; the APC UPS battery is recharged then too. This field displays N/A when no UPS is connected to the NSA or it is turned off.

UPS Info NSA-2400 User's Guide 49 Chapter 3 Status Screens 50 NSA-2400 User's Guide CHAPTER This chapter introduces the Sharing screens of the NSA. 4 Sharing Screens 4.1 Sharing Introduction Use the Sharing screens to: · Create and manage user accounts.



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Users are people who have access rights to the NSA and can store files there for later retrieval. · Create and manage groups. A group is a set of users. · Create and manage shares. A share is a set of users/groups access permissions mapped to a specific folder on a volume. It is equivalent to the Windows concept of a shared folder, but is independent of the folder. You can map a share to a network drive for easy and familiar file transfer for Windows users. 4.2 Sharing Overview A Local user or group is a one created on the NSA when the NSA is in Workgroup mode. Domain users and groups are created on a centralized Windows-based domain controller. This list is used by the NSA when authenticating users and/or groups that seek access to a share. If a user belong to different groups with different access rights to the same share, then the more restrictive access right would apply, that is deny access overrides read access, overrides read-write access.

For example, user Joe belongs to the Sales group. He has read access to the MIS share. The Sales group are denied access to this MIS share. Therefore, Joe is also denied access to the MIS share. More restrictive access rights override less restrictive ones.

4.2.1 In Limbo and In Conflict If a user or group is deleted in the domain controller, (but not on the NSA) then it appears as in limbo on the NSA. NSA-2400 User's Guide 51 Chapter 4 Sharing Screens A conflict users is a local user that has the same user name as that of a user on a domain controller. For example, if you first create local users and groups on the NSA (in Workgroup mode) and later you change to domain mode where you create (or there are already) identical users and groups, then they appear as in conflict on the NSA. You cannot set a disk quota for users that are in conflict. If you started in Domain mode and later you switch to Workgroup mode, the NSA will allow you to create user names and group names that already exist on the domain controller. If the conflicting domain user's password and local user's password are NOT the same, than the two users are treated as two distinct users when using CIFS. Therefore, when using CIFS, each user can only access shares to which they have been given access rights. However, if the domain user's password and local user's password are also the same, then only shares set to be accessible by the local user are actually accessible by both the domain user and local user.

The NSA has no way to distinguish these two users as their passwords and user names are exactly the same. During a conflict users situation, the local user takes precedence ONLY if the domain user and local user's passwords are the same. The situation is different for conflicting users when using FTP. For FTP if there are conflict users, there will be no way for the FTP server to differentiate between the two user names. Therefore, both domain user and local user can log in through FTP using their respective passwords (regardless of whether they are the same or not) and be able to access all shares accessible by EITHER the local user or domain user. It is possible for the conflicting domain user to log in via FTP and access shares that are supposed to be only accessible by the conflicting LOCAL user and vice versa. 4.2.1.1 In Limbo and In Conflict Example Suppose there is a local user named u1 and a domain user named u1.

· Share 1 is configured to be only accessible by the local user u1. · Share 2 is configured to be only accessible by the domain user u1. · Share 3 is configured to be accessible by BOTH the local and domain u1. 52 NSA-2400 User's Guide Chapter 4 Sharing Screens The table below shows the actual accessibility of the above shares for the conflict users (local and domain u1) both when they have the same and when they have different passwords. Table 12 In Limbo and In Conflict Example CONFLICT USER U1 SHARE1 Different Passwords CIFS: Accessible by Local u1 only.

FTP: Accessible by Domain AND Local u1. CIFS: Accessible by Domain AND Local u1. FTP: Accessible by Domain AND Local u1. SHARE 2 CIFS: Accessible by Domain u1 only. FTP: Accessible by Domain AND Local u1. CIFS: Inaccessible by either User or Domain u1. FTP: Accessible by Domain AND Local u1. SHARE 3 CIFS: Accessible by Domain u1 AND Local u1. FTP: Accessible by Domain AND Local u1. CIFS: Accessible by Domain AND Local u1. FTP: Accessible by Domain AND Local u1. Same Passwords 4.2.2 Sharing Overview Screen Click the Sharing link in the Navigation panel to access the Sharing > Overview screen. This is the first screen displayed.

Figure 17 Sharing > Overview The following table describes the labels in this screen. Table 13 Sharing Overview LABEL Users Total Number of Users This field displays the total number of user accounts created on the NSA and/or a centralized Windows-based domain controller. Total Number of Local Users Total Number of CIFS Domain Users This field displays the total number of users with accounts created on the NSA. This field displays the total number of users created on a centralized Windows-based domain controller when the NSA is functioning in Domain mode. DESCRIPTION NSA-2400 User's Guide 53 Chapter 4 Sharing Screens Table 13 Sharing Overview (continued) LABEL Number of Users in Limbo DESCRIPTION This field displays the number of users who were once on the domain controller but the NSA (in Domain mode) is currently unable to determine if the user still exists on the domain controller. This may happen if he/she has been deleted on the domain controller or the NSA is unable to connect to the domain controller. In the latter case, all domain users would be in limbo. A conflict users is a local user that has the same user name as that of a user on a domain controller. This field displays how many identical users there are. This field displays the total number of groups created on the NSA and/or a centralized Windows-based domain controller.

This field displays the total number of groups created on the NSA when the NSA is in Workgroup mode. This field displays the total number of groups created on a centralized Windows-based domain controller when the NSA is functioning in Domain mode. This field displays the number of groups who were once on the domain controller but the NSA (in Domain mode) is currently unable to determine if the group still exists on the domain controller. This may happen if the group has been deleted on the domain controller or the NSA is unable to connect to the domain controller. In the latter case, all domain groups would be in limbo.

A conflict group is a local group that has the same group name as that of a group on a domain controller. This field displays how many identical groups there are. This field displays the total number of shares (default and created) on the NSA. Auto shares are shares that are automatically created by the NSA for supported external USB hard drives that are not backup drives.



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This field displays the number of these type external USB hard drives attached to the NSA.

This field displays the number of shares that have been disabled on the NSA. If a shared folder is deleted or moved, the share appears as 'unavailable' on the NSA. This field displays the number of such shares. Number of Conflict Users Groups Total Number of Groups Number of Local Groups Number of Domain Groups Number of Groups in Limbo Number of Conflict Groups Shares Number of Auto Shares Number of Disabled Shares Number of Unavailable Shares 4.3 Users Use this screen to create and manage users who can store files on the NSA. 54 NSA-2400 User's Guide Chapter 4 Sharing Screens 4.3.1 User Icons The following table describes the user icons. Table 14 User Icons ICON DESCRIPTION This is an enabled local user icon. This is an enabled domain user icon.

This is a local user in conflict icon. This is a domain user in limbo icon. This is a disabled local user icon. You cannot disable a domain user. 4.3.2 Users Summary Screen Click the Sharing link in the Navigation panel and then click the Users link or the Users tab to access the Sharing > Users screen. Figure 18 Sharing > Users The following table describes the labels in this screen. See Table 14 on page 55 for icon details. Table 15 Sharing > Users LABEL Status Type DESCRIPTION This icon displays whether the account is enabled, disabled, in conflict or in limbo.

This field displays whether the user is a local user with an account created on the NSA or a domain user created on a domain controller or active server directory. This field displays the user name created when you add a new user. admin is the default NSA super user and cannot be deleted. This field displays the maximum amount of storage space this user may occupy on the NSA. It is unlimited if none is specified.

This field displays the group(s) this user belongs to on the NSA. User Name Quota Groups NSA-2400 User's Guide 55 Chapter 4 Sharing Screens Table 15 Sharing > Users (continued) LABEL Actions Add a New Local User DESCRIPTION This label displays the allowable action for that user. Click this button to go to a screen to create a new user on the NSA. 4.4 Adding a New User Use this screen to add local users.

Domain users must be added on the domain server. Click the Add a New Local User button in the screen shown previously to create a new NSA user account with NSA access password. 4.4.1 User Names Enter a user name from one to 32 characters. The first character must be alphabetical (case insensitive, [A-Z a-z]); numeric characters are not allowed as the first character. The user name can only contain the following characters: Alphanumeric A-z 0-9 (there is no unicode support) Spaces _ [underscores] . [periods] - [dashes] Other limitations on user names are: . All leading and trailing spaces are removed automatically. . Multiple spaces within names are converted to a single space. . User names are case insensitive.

The user name cannot be the same (no matter the letter case) as an existing local user or domain user. For example, if there exists a domain user with the name 'BOB', you cannot create a local user named 'bob'. If you enter a user 'bob' but use 'BOB' when connecting via CIFS or FTP, it will use the account settings used for 'bob'. . The user name cannot be the same as a system user name such as ANONYMOUS_CIFS, ANONYMOUS_FTP, EVERYONE nor be the same as an existing local or domain user. Other reserved user names that are not allowed are: . bin . daemon . ftp . ftpguest . nobody . root . smbguest . admin 56 NSA-2400 User's Guide Chapter 4 Sharing Screens 4.4.2 Add a New User Screen Figure 19 Add a New User The following table describes the labels in this screen. Table 16 Add a New User LABEL New User Information Enabled User Name Email Address (optional) You must select this check box in order for this user to be able to access the NSA. Type a user name from 1 to 32 single-byte ASCII characters. See Section 4.

4.1 on page 56 for more details on user names. Enter a valid e-mail address for this user. You can use up to 200 alphanumeric characters (periods and the underscore are also allowed) without spaces. Create a password associated with this user.

You can type from one to 14 single-byte (no Chinese characters allowed for example) ASCII characters. Non-admin users can change their passwords by logging into the NSA web configurator using the username and password as defined here. After logging in, the Change Password screen is displayed. Enter a new password in that screen and confirm it by re-entering it. Non-admin users do not see other web configurator screens.

You must type the exact same password that you just typed in the above field. This is the maximum amount of space this user is allowed per volume. Type a positive whole number (no floats, no negatives) as the maximum amount of storage (in MB) this user may use on the NSA. 0 MB means unlimited storage. The quota cannot exceed 500000000 MB. DESCRIPTION Password Password (confirm) Quota NSA-2400 User's Guide 57 Chapter 4 Sharing Screens Table 16 Add a New User (continued) LABEL New Group Membership DESCRIPTION You need to first create groups on the NSA. A group is a set of users that have common NSA access rights. A user can belong to more than one group. More restrictive access rights override less restrictive ones. Choose what groups this user should be added to or removed from.

You can select multiple groups by holding the [Ctrl] key while you click. These are the groups that have been created on the NSA. Select the group(s) that you want the user to join and then click the Add Selected Group(s) button. You need to click Apply for the changes to take effect. These are the groups that the user already belongs to on the NSA. Select the group(s) that you want the user to leave and then click the Remove Selected Group(s) button. You need to click Apply for the changes to take effect. Select the group(s) that you want the user to join from the Available Groups list and then click the Add Selected Group(s) button. You need to click Apply for the changes to take effect. Select the group(s) that you want the user to leave from the Group Membership list and then click the Remove Selected Group(s) button.

You need to click Apply for the changes to take effect. Click this button to save your changes back to the NSA. Click this button to begin configuring this screen afresh. Available Groups Group Membership Add Selected Group(s) Remove Selected Group(s) Apply Cancel User-group membership edits are also updated in the corresponding Sharing > Groups > Edit Group screen. 4.

4.3 User Password Management Non-admin users may change their passwords themselves by logging into the NSA web configurator using the username and password as defined in the previous screen.



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After logging in, the Change Password screen is displayed. Enter a new password in that screen and confirm it by re-entering it. Figure 20 User Password Management 58 NSA-2400 User's Guide Chapter 4 Sharing Screens Non-admin users do not see other web configurator screens.

4.5 Groups Use this screen to create and manage groups. A group is a set of users. 4.5.1 Group Icons The following group icons display under Status in the Group Summary screen. Table 17 Group Icons ICON DESCRIPTION This is a local group icon. Groups cannot be disabled. This is a domain group icon. Groups cannot be disabled.

This is a local group in conflict icon. This is a domain group in limbo icon. 4.5.2 Groups Summary Screen Click the Sharing link in the Navigation panel and then click the Groups link or the Groups tab to access the Sharing > Groups screen. Figure 21 Sharing > Groups NSA-2400 User's Guide 59 Chapter 4 Sharing Screens The following table describes the labels in this screen. See Table 17 on page 59 for icon details. Table 18 Sharing > Groups LABEL Status Type DESCRIPTION This icon displays whether the group is enabled, in conflict or in limbo. Groups cannot be disabled. This field displays whether the group is a local group created on the NSA or a domain group created on a domain controller or active server directory.

This field displays the group name created when you add a new group. This label displays the edit and remove icons for all groups created on the NSA. Click the Edit icon to edit the corresponding existing group. Click the Remove icon to delete it. Click this button to go to a screen to create a new group on the NSA. Group Name Actions Add a New Local Group 4.6 Adding a New Group Click the Add a New Local Group button in the screen shown previously to create a new group with specified NSA access rights. 4.6.1 Group Names Enter a group name from one to 16 characters.

The first character must be alphabetical (case insensitive, [A-Z a-z]); numeric characters are not allowed as the first character. The group name can only contain the following characters: alphanumeric A-z 0-9 (there is no unicode support) Spaces _ [underscores] . [periods] - [dashes] Other limitations on group names are: . All leading and trailing spaces are removed automatically. . Multiple spaces within names are converted to a single space. . Group names are case insensitive. The group name cannot be the same (no matter the case) as an existing local group or domain group. For example, if there exists a domain group with the name 'BOB', you cannot create a local group named 'bob'. If you enter a group 'bob' but use 'BOB' when connecting via CIFS or FTP, it will use the account settings used for 'bob'. The group name cannot be ANONYMOUS_CIFS, ANONYMOUS_FTP, EVERYONE nor be the same as an existing local or domain group. Other reserved group names that are not allowed are: . daemon . disk . ftp 60 NSA-2400 User's Guide Chapter 4 Sharing Screens nobody lp root tty utm 4.

6.2 Add A New Group Screen Figure 22 Add a New Group The following table describes the labels in this screen. Table 19 Add Group LABEL New Group Information Group Name Type a group name from 1 to 16 single-byte ASCII characters. The first character must be alphabetical [A-Z a-z] (case insensitive) and cannot be a number. See Section 4.6.1 on page 60 for more information on group names. A group is a set of users that have common NSA access rights. A user can belong to more than one group. Choose what users should be added to or removed from this group.

You can select multiple users by holding the [Ctrl] key while you click. These are the users that have been created on the NSA. Select the user(s) that you want to join this group and then click the Add Selected User(s) button. You need to click Apply for the changes to take effect. These are the users that already belong to this group on the NSA.

Select the user(s) that you want to leave this group and then click the Remove Selected User(s) button. You need to click Apply for the changes to take effect. Select the user(s) that you want to join this group from the Available Users list and then click the Add Selected User(s) button. You need to click Apply for the changes to take effect. DESCRIPTION Group Membership Available Users Group Membership Add Selected User(s) NSA-2400 User's Guide 61 Chapter 4 Sharing Screens Table 19 Add Group (continued) LABEL Remove Selected User(s) Apply Cancel DESCRIPTION Select the user(s) that you want to leave this group from the Group Membership list and then click the Remove Selected User(s) button.

You need to click Apply for the changes to take effect Click this button to save your changes back to the NSA. Click this button to begin configuring this screen afresh. Group-user membership edits are also updated in the corresponding Sharing > Users > Edit User screen. 4.7 Shares Use this screen to create and manage shares. A share is a set of users/groups access permissions mapped to a specific folder on a volume. It is equivalent to the Windows concept of a shared folder, but is independent of the folder. 4.7.1 Share Icons These are the share icons you will see in this screen.

Table 20 Share Icons ICON DESCRIPTION This is an available share icon. This is an unavailable share icon. This is a disabled share icon. 4.7.2 Share Summary Screen Click the Sharing link in the Navigation panel and then click the Shares link or the Shares tab to access the Sharing > Shares screen. The default shares on the NSA are shown in the following figure. 62 NSA-2400 User's Guide Chapter 4 Sharing Screens Figure 23 Sharing > Shares The following table describes the labels in this screen. See Table 20 on page 62 for icon details. Table 21 Sharing > Shares LABEL Status Share Name Volume Path DESCRIPTION This icon displays whether the share is available, unavailable or disabled.

The default backup and snapshot shares cannot be deleted. This displays the name of the shared folder on the NSA. This displays which storage area (volume) the share was created. The default shares are on volume1. This displays the location of the shared folder on the NSA.

Forward slashes are used as path (folder tree branch) separators. Share paths that no longer exist are shown in red. This is some description of the share as the (limited) share name may not be obvious enough for users to recognize clearly. This displays the edit and delete icons for all shares created on the NSA.

Click the Edit icon to edit the corresponding existing share.

Click the Remove icon to delete it. Click this button to go to a screen to create a new share on the NSA. Comment Actions Add a New Share 4.8 Adding a New Share Click the Add a New Share button in the screen shown previously to create a new shared folder with optional access password.



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