



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL NSA-220 PLUS. You'll find the answers to all your questions on the ZYXEL NSA-220 PLUS 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-220 PLUS
User guide ZYXEL NSA-220 PLUS
Operating instructions ZYXEL NSA-220 PLUS
Instructions for use ZYXEL NSA-220 PLUS
Instruction manual ZYXEL NSA-220 PLUS

NSA-220 Plus

Network Storage Appliance

User's Guide

Version 1.00
12/2008
Edition 2
Color: Black / White

DEFAULT LOGIN

Web Address nsa220plus
Password 1234

ZyXEL
www.zyxel.com



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Manual abstract:

· Supporting Disc 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 Disclaimer Graphics in this book may differ slightly from the product due to differences in operating systems, operating system versions, or if you installed updated firmware/software for your device. Every effort has been made to ensure that the information in this manual is accurate. NSA-220 Plus 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 NSA 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-220 Plus 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 Television Firewall Router Switch Internet NSA-220 Plus 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. 6 NSA-220 Plus User's Guide Safety Warnings NSA-220 Plus User's Guide 7 Safety Warnings 8 NSA-220 Plus User's Guide Contents Overview Contents Overview Introduction

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..... 48 *Figure 19 My NSA* .

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..... 49 *Figure 20 Users ..*

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. 50 *Figure 21 Users > Create Example*

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... 50 Figure 22 Users (Account Created)

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50 Figure 23 Shares

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..... 51 Figure 24 Shares > Add Share Example ...

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... 51 Figure 25 Shares > Add Share > Share Access > Advanced Example

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... 52 Figure 26 Groups

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54 Figure 31 Example Share Mapped (Folders View)

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..... 54 Figure 32 FTP Example: Typing the FTP Target

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55 Figure 33 FTP Example: Enter the Password

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..... 55 Figure 34 FTP Example: Logged In ..

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.. 55 Figure 35 My NSA User Login ...

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... 56 Figure 36 Share Browsing

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56 Figure 37 Download Link Example

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..... 58 Figure 40 Download Service Tutorial: Download Service .

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... 58 Figure 41 Download Service Tutorial: Paste Link ..

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59 *Figure 43 Link Capture Browser Plugin: IE*

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.. 60 *Figure 44 Link Capture Browser Plugin: IE Installation*

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.. 65 Figure 57 Download Service Notification: RSS Feed Icon

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..... 67 Figure 64 Download Service Notification ..

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.... 76 Figure 86 FTP Uploadr Tutorial: Bandwidth Limit .

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77 Figure 88 System Setting > Server Name

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. 91 Figure 94 Storage > Create an External Volume

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..... 92 Figure 95 Jumbo Frames .

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..... 100 Figure 96 Network > TCP/IP

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... 124 Figure 114 Feed Icon ..

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..... 132 Figure 123 Applications > Auto Upload > Flickr/YouTube

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. 153 *Figure 138 Sharing > Users > Add or Edit a Group*

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..... 179 Figure 151 Maintenance > Shutdown > Confirm Restart

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.... 189 Figure 154 Security Settings - Script Safe ActiveX Controls .

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..... 193 *Figure 157 Windows 95/98/Me: Network: Configuration*

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..... 220 Figure 176 Red Hat 9.0: Restart Ethernet Card ...

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..... 220 Figure 177 Red Hat 9.

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.. 220 Figure 178 Pop-up Blocker ...

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..... 221 Figure 179 Internet Options: Privacy ...

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.. 222 Figure 180 Internet Options: Privacy ...

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..... 223 Figure 181 Pop-up Blocker Settings ...

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..... 223 *Figure 182 Internet Options: Security ..*

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..... 225 *Figure 185 Java (Sun)*

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... 29 Table 2 User-level Global Labels and Icons ..

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... 34 Table 3 My NSA ..

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..... 36 Table 4 My NSA Share Browsing

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. 37 Table 5 My NSA Share Browsing > Move (or Copy)

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.. 39 Table 7 My NSA > Edit Share

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.... 40 Table 8 Password

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... 47 Table 13 FTP Uploadr Tutorial: FTP Server Information

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.... 75 Table 14 System Setting > Server Name

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..... 82 Table 15 System Setting > Date/Time ..

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.. 83 Table 16 Storage ...

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..... 87 Table 17 Storage > Create an Internal Volume ..

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... 89 Table 18 Storage > Edit

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.... 91 Table 19 Storage > Create an External Volume

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... 92 Table 20 RAID Quick Comparison ..

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.. 93 Table 21 JBOD

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. 95 Table 22 RAID 0 ...

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..... 96 Table 23 RAID 1 ..

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96 Table 24 Network > TCP/IP

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... 101 Table 25 Network > PPPoE

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..... 103 Table 26 Applications > FTP

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124 Table 32 Applications > Broadcatching > Add Channel

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126 Table 33 Applications > Print Server

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..... 128 Table 34 Applications > Print Server > Rename .

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128 Table 35 Applications > Copy/Sync Button

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142 Table 41 Applications > Auto Upload > FTP Uploadr > Preferences

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143 Table 42 Sharing > Users

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..... 200 Table 70 Supported Media Server Content Formats

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. 202 Table 71 Power Consumption in Watts (W)

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Copying or synchronizing files to or from the USB device failed. No USB device is connected. A. The HDD1 and HDD2 LEDs are dual-color (green and red). The green LED is normally on when you have a hard disk installed.

If the NSA detects an error on the disk, the disk's connection comes loose, or the disk fails, the red LED also comes on. Since the green LED still stays on, the color appears to be orange. If the NSA is no longer able to detect a hard disk in the disk bay, the green LED turns off and the LED appears as red. 1.1.2 COPY/SYNC Button Use the COPY/SYNC button on the front panel to copy or synchronize files between a connected USB device and the NSA. See Section 7.8 on page 129 for more details on how to configure the copy/sync settings. 30 NSA-220 Plus User's Guide CHAPTER 2.1 Overview 2 Web Configurator Basics This chapter describes how to access the NSA web configurator and provides an overview of its screens.

The web configurator is an HTML-based management interface that allows easy NSA setup and management using an Internet browser. Use Internet Explorer 6.0, Mozilla Firefox 1.07, Netscape Navigator 7.0 or later versions of these browsers. The recommended screen resolution is 1024 by 768 pixels or higher. In order to use the web configurator you need to allow: · Web browser pop-up windows from your device. Web pop-up blocking is enabled by default in Windows XP SP (Service Pack) 2. · JavaScript (enabled by default). 2.

2 Accessing the NSA Web Configurator Make sure your NSA is properly connected and that your computer is in the same subnet as the NSA (refer to the Quick Start Guide or the appendices). 2.2.1 Access the NSA Via NDU If you don't know the IP address of the NSA, then use the NDU to find it. Refer to the Quick Start Guide for how to install and run the NDU.

NSA-220 Plus User's Guide 31 Chapter 2 Web Configurator Basics Figure 4 NDU Main Screen From the NDU main page click an icon under Admin to see the web configurator screen login screen. 2.2.2 Web Browser Access Open your browser and type in the server name of the NSA ("nsa220plus" by default). Figure 5 NSA URL 2.

3 Login The default username and password are 'admin' and '1234' respectively. Enter your username and password, then click Login. See Chapter 8 on page 147 for how to create other user accounts. 32 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics Figure 6 NSA Login Screen 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 Ignore. Figure 7 Change Password Screen NSA-220 Plus User's Guide 33 Chapter 2 Web Configurator Basics 2.4 User-level Screens Overview All users (including the administrator) first see the user-level access My NSA screen after login. Figure 8 My NSA 1 The web configurator management session automatically times out if it is left idle for 15 minutes. Simply log back into the NSA if this happens to you. The icons and language label at the top-right of the screen (1) are visible from most screens.

Use the tabs at the top of the screen to navigate between the user-level screens and menus. The following table describes the 'global' icons and tabs in the user-level screens. Table 2 User-level Global Labels and Icons LABEL/ICON Language Help Logout My NSA DESCRIPTION Select the web configurator language from the drop-down list box. Click this to open a web help page specific to the screen you are currently configuring. Click this at any time to exit the web configurator. Click this to go to screens where you can manage your shares and access the files on public shares. The administrator must go into the administration screens to manage other user's shares. Click this to go to a screen where you can change your password. Password 34 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics Table 2 User-level Global Labels and Icons LABEL/ICON Administration Download Service DESCRIPTION This tab displays when you log in as the administrator. Click this to go to screens where you can manage advanced configurations.

This tab displays when you log in as the administrator. Click this to go to screens where you can have the NSA handle file downloads. See Section 7.4.1 on page 110 for more information.

2.5 My NSA Screens Use the My NSA screens to manage your shares and access the files in folders to which you have access. A share is a set of user access permissions for a specific folder on a volume (gives someone access to a folder). It is equivalent to the Windows concept of a shared folder, but the access rights are independent of the folder (you configure the share and the folder separately). You can map a share to a network drive for easy and familiar file transfer for Windows users.

The main My NSA screen displays the shares to which you have access. Figure 9 My NSA NSA-220 Plus User's Guide 35 Chapter 2 Web Configurator Basics The following table describes the labels in this screen. Table 3 My NSA LABEL My Shares DESCRIPTION These are the shares that you own (and manage). The share icons are folder shaped. Click a share icon to access the share's contents. A plain share icon displays for a share on a volume on the internal hard drives. A USB symbol displays on the icon for a share on an external (USB) device. An external share's icon turns gray if the share is not currently available (because the USB device was removed for example). The administrator owns and manages the public shares. Configure Other Shares Click this to see and configure the management details for a share.

These are other shares on the internal hard drives or external (USB) devices that you can access (but not manage). 2.5.1 My NSA Share Browsing Screen Click My NSA and then click a share to open the following screen. Use the My NSA share browsing screens to see and access share contents. Click a folder's name to go into the folder. Click a file's name to be able to save the file to your computer. Click the play icon to play the file. At the time of writing this is supported for MP3 files. Click to the right of a file or folder name to select it.

Use the [SHIFT] key to select a range of entries. Hold down the [CTRL] key to select multiple individual entries. Figure 10 My NSA Share Browsing 36 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics The following table describes the labels in this screen. Table 4 My NSA Share Browsing LABEL Create Folder DESCRIPTION Click this to create a new folder within the share. Specify a name to identify the folder.

See Section 2.5.5 on page 41 for more information on folder names. Click Apply to create a folder. Upload Click this to add files to the share. Use the Browse button to locate a file and click Apply to upload the file. Delete Select a folder or file and click this to open a warning screen.



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Click Yes to delete the file, or click No to close the screen. Move Select a folder or file and click this to move it to another location within this share or another share that you can access. See Section 2.5.2 on page 38 for more details. Select a folder or file and click this to move create a copy of it in another location within this share or another share that you can access. See Section 2.5.

2 on page 38 for more details. This is the name of the share and folder path that you are in. The icon in this column identifies the entry as a folder or a file. The folder with an arrow pointing up is for the link that takes you to the next higher layer in the share's folder tree. This column identifies the names of folders and files in the share. Click Up One Level to go to the next higher layer in the share's folder tree. Click a file's file name to open the file or save it to your computer. Click a folder's name to display the folder's contents. Copy Current location Type Name NSA-220 Plus User's Guide 37 Chapter 2 Web Configurator Basics Table 4 My NSA Share Browsing (continued) LABEL Size Modified Date Close DESCRIPTION This column displays a file's size in bytes. This column displays the last time the file or folder was changed (in yearmonth-day hour:minute:second format).

Click this to return to the My NSA screen. 2.5.2 My NSA Share Browsing Move or Copy Screen Select a folder or file in the My NSA share browsing screens and click the Move button or the Copy button to display a screen like the following. Use this screen to select the target path for moving or copying the folder or file.

Figure 11 My NSA Share Browsing > Move (or Copy) The following table describes the labels in this screen. Table 5 My NSA Share Browsing > Move (or Copy) LABEL Shares Path Browse DESCRIPTION Select a target share from the drop-down list box. Select a folder on the NSA. You can also browse to find or create a folder on the NSA or type the location of the folder using forward slashes as branch separators. Click this to put the file in a specific folder. Select a folder and then click Apply. If you click Apply without selecting a folder, a forward slash displays in the Path field. All contents within the specified share are selected. Yes Close Click this to move or copy the file. Click this to return to the My NSA share browsing screen without saving. 38 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics 2.5.3 My NSA Configuration Screen Use the My NSA configuration screens to see and configure share management details. Click My NSA and then the Configure button of one of your shares to open the following screen. This screen displays a share's management details.

Figure 12 My NSA Configuration Overview The following table describes the labels in the this screen. Table 6 My NSA Management Overview LABEL Share Owner Location Path Share Browsing Edit Share Delete Share DESCRIPTION The share belongs to (and is managed by) this user account. The share owner controls access rights to the share. The share is for a folder on this volume. This is the share's file path. Click this to see and access the share's contents. Click this to configure the share's management details. Click this to permanently remove the contents associated with this share or to disable the share so that no users can access it. NSA-220 Plus User's Guide 39 Chapter 2 Web Configurator Basics 2.5.

4 My NSA Edit Share Screen Use this screen to configure share management details. Click My NSA and a share's Configure button. Then click Edit Share to open the following screen. This screen displays a share's management details. Figure 13 My NSA > Edit Share The following table describes the labels in the this screen.

Table 7 My NSA > Edit Share LABEL Share Name DESCRIPTION Configure a name to identify this share. Type a share name from 1 to 255 singlebyte (no Chinese characters allowed for example) ASCII characters. The name cannot be the same as another existing local share. See Section 2.5.

5 on page 41 for more information on share names. You should have already created volumes (a single accessible storage area with a single file system) on the NSA. Select the volume that you want to use with this share. Select the administrator or user account that is to own (manage) this share. The share owner controls access rights to the share. Select this option to allow users to access this share. When this option is not selected, you cannot see and access this share. Select this option to keep deleted items in a recycle bin. When you delete an item, a recycle folder is created within the share, and the deleted item is stored in the recycle bin. Later if you want to retrieve a deleted item, you can select the item from the recycle folder and move/copy the item to another share.

Select this option to make the share's files available to media clients. Select this option to let people use a web browser to access this share's files without logging into the My NSA screens. Select who can access the files in the share and how much access they are to be given. If you publish the share to the media server or the web, all users will have at least read-only access to the share, regardless of what you configure here. Select Keep it private to owner to allow only the share owner to read files in the share, delete files in the share and save files to the share. Select Make it public to allow anyone (with or without a user account on the NSA) to read files in the share, delete files in the share and save files to the share. Select Advanced to select which individual users can read the share's files, which users can delete the share's files, and which users are blocked from doing either. Volume Make this share owned by Enable This Share Enable Recycle Bin Publish this share to Media Server Publish this share to Web Share Access 40 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics Table 7 My NSA > Edit Share (continued) LABEL Apply Cancel DESCRIPTION Click this to save your changes. Click this to return to the previous screen without saving. 2.

5.5 Share and Folder Names The name can only contain the following characters: · Alphanumeric (A-z 0-9) and Unicode. The NSA allows FTP access to shares, folders or files with names encoded in the UTF-8 (8-bit UCS/Unicode Transformation Format) format. So your FTP client must support UTF-8 in order to access shares, folders or files on the NSA with Unicode names. · Spaces · _ [underscores] · · [periods] · - [dashes] Other limitations include: · · · · All leading and trailing spaces are removed automatically. Multiple spaces within names are converted to a single space. Share names must be unique (they cannot be the same as other share names). The NSA creates automatic volume names for external (USB) disk volumes.



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These are a type of share, so the share name you configure cannot conflict with the external (USB) disk volume names. "ExtVol1" or "ExtVol2" are examples of external (USB) disk volume names. Folder names must be unique (they cannot be the same as other folder names). The minimum character length of a name is one character, that is a name cannot be blank. The maximum character length of share name is 255 characters. Unicode is supported for share names, although your FTP client must support UTF-8. Full support should be available in all Windows versions after Windows 2000. . . . 2.5.6 Share Paths A share path is the full path to a folder on a volume that will be shared, for example, /mynsa/ topsecret/ugs/. This is independent from a "share name" which is the name shown for this share when accessing the share via CIFS or FTP.

The path should start with a '/' (forward slash) followed by a parent folder, child folders leading to the folder that is to be shared. The share path can include all characters including unicode characters (that is, you can use Chinese folder names for example) except for the following characters: · \ [backslash] this will be converted to forward slash and interpreted as a path delimiter · / [forward slash] this is always interpreted as a path delimiter, so a folder cannot include it in its folder name · : [colon] · * [asterisk] · ? [question mark] NSA-220 Plus User's Guide 41 Chapter 2 Web Configurator Basics . . . "[double quote] < [less than] > [greater than] \ [pipe] Please also note the following as regards share paths: · If the share path is missing the root path slash (the first forward slash), the system will automatically add the initial slash. · If the share path is missing the end trailing slash, the system will automatically add the trailing slash. · If the share path has \ (backslashes) instead of / (forward slashes) they will all be automatically converted to forward slashes. · Share paths are case sensitive. · The maximum share path length is 600 characters (the entire path string including slashes) · The share path cannot be blank · You cannot have an empty folder name, that is, two consecutive slashes (for example, / My//Corner/) · Each individual folder in the path (that is, the content between the slashes) cannot exceed 255 characters 2.5.7 Password Screen Click Password to open the following screen. Use this screen to change an account's password.

Enter a new password and confirm it by re-entering it.

Figure 14 Password 42 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics The following table describes the labels in this screen. Table 8 Password LABEL Account Name Old Password New Password Password (Confirm) Apply Reset DESCRIPTION Type the user name of the account for which you want to change the password. Type the user's current password. Create a new password for the user. You can type from one to 14 singlebyte (no Chinese characters allowed for example) ASCII characters.

You must type the exact same password that you just typed in the above field. Click this to save your changes. Click this to refresh the screen. 2.6

Administration Screens The Administration tab displays when you log in as the administrator.

Click Administration in the My NSA screens to open the advanced administration screens. The Status screen is the first advanced administration screen that displays. Figure 15 Status 1 3 2 4 NSA-220 Plus User's Guide 43 Chapter 2 Web Configurator Basics 2.6.1 Global Administration Icons The icons and language label at the top-right of the screen (1) are visible from most of the administration screens. The following table describes the 'global' icons and labels. Table 9 Global Labels and Icons LABEL/ICON DESCRIPTION Language Select the web configurator language from the drop-down list box. Help

Click this to open a web help page specific to the screen you are currently configuring. About Click this to view the model name, firmware version and copyright. Home Click this to return to the user-level screens.

Logout Click this at any time to exit the web configurator. This is the same as clicking the Logout link at the bottom of the Navigation panel. 2.6.2 Navigation Panel The navigation panel on the left of the screen (2) contains screen links. Click a link to display sub-links. There are no sub-links for the Status screen.

Certain screens also contain hyper links that allow you to jump to another screen. The following screen shows the features listed in the navigation panel.

Figure 16 Navigation Panel Links 44 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics The following table describes the navigation panel screens.

Table 10 Screens Summary LINK Status System Setting Server Name Date & Time Storage SCREEN FUNCTION This screen shows system information, the status of the volumes, and the users who are currently using the NSA. Specify the NSA's server name and workgroup name. Chose a time zone and/or allow the NSA to synchronize with a time server. View volume and disk information and create and edit volumes. A volume is a storage area that can span one or more internal disks or a single external (USB) disk.

TCP/IP PPPoE Applications FTP Media Server Assign the NSA a dynamic or static IP address and DNS information. Configure PPPoE settings for a direct Internet connection. Enable FTP file transfer to/from the NSA, set the number of FTP connections allowed, an FTP idle timeout, and the character set. Enable or disable the sharing of media files and select which shares to share. Let people use a web browser to access files in shares without logging into the My NSA screens.

Subscribe the NSA to feeds to download frequently updated digital content like TV programs, radio talk shows, Podcasts (audio files), YouTube videos, or even BitTorrents. View and manage the NSA's list of printers and print jobs. Upload files in selected shares to your Flickr and/or YouTube accounts. Upload files in selected shares to FTP servers. View, create and edit administrator and user accounts to let people use the NSA. View, create and edit groups. Groups allow you to organize users into specific groups. You can create shares accessible only by the group members. View, create and edit shares. Shares are shared folders to which you can allow specific users read/write access rights.

Configure power saving settings for the NSA. View the NSA's logs. Back up and/or restore the NSA configuration file. Upload new firmware to your NSA.

Restart the NSA or shut it down. Click this to exit the web configurator. This is recommended to prevent unauthorized administrator access to the NSA.

Network Download Service Have the NSA handle large file downloads.



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Web Publishing Broadcatching Print Server Auto Upload Flickr/YouTube Auto Upload FTP Uploadr Sharing Users Groups Copy/Sync Button Copy or synchronize files between a USB device and the NSA. Shares Maintenance Power Management Log Configuration FW Upgrade Shutdown Logout NSA-220 Plus User's Guide 45 Chapter 2 Web Configurator Basics 2.

6.3 Main Window The main window (3) shows the screen you select in the navigation panel. It is discussed in the rest of this document. The Status screen is the first administration screen to display. See Section 2.

7 on page 47 for more information about the Status screen. 2.6.4 Status Messages The message text box at the bottom of the screen (4) displays status messages as you configure the NSA. 2.

6.5 Common Screen Icons The following table explains some icons that appear in several configuration screens. Table 11 Common Configuration Screen Icons

ICON	DESCRIPTION
	Click this to go to a screen where you can change the configuration settings of an entry.
	Click this to delete an entry from the list.
	Click this to jump to related item's configuration screen. User See the chapter on user accounts for detailed information on variants of this icon.
	See the chapter on shares for detailed information on variants of this icon.
	This represents a healthy volume.
	This represents a degraded RAID 1 volume. Replace the faulty disk.

If the replacement disk does not contain a volume, the NSA automatically restores the volume. If the replacement disk already contains a volume, you need to delete the volume and then click the Repair icon to fix the degraded RAID volume. Down This represents a down volume. Click the Initialize icon to create a volume. Scan Disk Click this to scan a hard disk for file system errors. Eject Click this before you remove an external hard drive so that you do not lose data that is being transferred to or from that hard drive. Locate Click this to cause the LED on the external storage device to blink. Repair If you replace a faulty disk with a disk that contains a volume, you need to delete the volume and then click this to fix the degraded RAID volume. 46 NSA-220 Plus User's Guide Chapter 2 Web Configurator Basics 2.7 The Status Screen The Status screen is the first main web configurator screen you see after you enter the administrator screens.

To view the status screens, click Status on the top-left of the navigation panel. Figure 17 Status The following table describes the labels in this screen. Table 12 Status LABEL Status System Information Server Name Model Name Firmware Version This displays the name which helps you find the NSA on the network. Click the Edit icon to go to the screen where you can configure this. This displays which model this NSA device is.

This is the NSA firmware version. Click the Edit icon to go to the Maintenance > FW Upgrade screen from which you can upload new firmware. 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 shows whether the media server function is enabled or disabled. It must be enabled for media clients to play content files stored on the NSA. Click the Edit icon to go to the screen where you can configure this. This shows whether the FTP server function is enabled or disabled. It must be enabled to use FTP file transfer to/from the NSA. Click the edit icon to go to the screen where you can configure this. DESCRIPTION Click this to refresh the status screen statistics. MAC Address Media Server Status FTP Server Status Web Publishing Status This shows whether the Web server function is enabled or disabled. It must be enabled to use HTTP to access shares on the NSA.

Click the Edit icon to go to the screen where you can configure this. UPS This shows the Uninterruptible Power Supply (UPS) capacity. Click the Edit icon to go to the screen where you can configure this. NSA-220 Plus User's Guide 47 Chapter 2 Web Configurator Basics Table 12 Status (continued) LABEL Volume Status Internal Volume External Volume Status Name DESCRIPTION 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 hard drives installed in the NSA. This displays the volumes created on USB hard drives connected to the NSA. USB disks are numbered in the order that you insert USB devices. This icon indicates whether the volume is healthy, degraded, or down. This field shows the name for the volume. Read only displays for an external volume that uses Windows NTFS.

This means the NSA can read the volume but can't save files on it. This field (also known as Type) shows what type of data storage system (a RAID type or JBOD) an internal volume is using. This field shows what file system an external (USB) volume is using. For internal drives, this shows which hard drive bays are included in the volume. For external drives, this field shows USB1 for the first external hard drive you connect to the NSA (regardless of which USB port) and USB2 for the second.

This field shows total disk size, the percentage of the disk being used and the percentage that is available. This shows how many users are currently connected to the NSA. This shows whether it's a Windows/CIFS, web (web configurator), 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. ANONYMOUS FTP displays if a username is not defined for the user's connection. This displays the date and time the user last connected to the NSA in year, month, day, hour, minute, second format. This displays the IP address of the computer connected to the NSA. Configuration File System Disk(s) Disk Usage Active Sessions Type Share Name Username Connected At IP Address 2.7.1 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, Video, Music, and Photo folders until you create other shares on the NSA. This session is then displayed as shown in the following figure. Figure 18 Session Example (Windows) 48 NSA-220 Plus User's Guide CHAPTER This chapter provides tutorials that show how to use the NSA. 3 Tutorials 3.

1 File Sharing Tutorials The following sections cover using the NSA for file sharing. This chapter assumes you have already followed the Quick Start Guide instructions to perform initial setup and configuration (so you have a working volume). See the rest of this User's Guide for details on configuring the NSA's various screens. 3.1.1 Creating a User Account Bob wants to create accounts for his sons Jimmy and Kevin. This is how he would do it.



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1 Log into the NSA web configurator (see Section 2.3 on page 32) and click Administration to go to the configuration screens. Figure 19 My NSA NSA-220 Plus User's Guide 49 Chapter 3 Tutorials 2 Click Sharing > Users to open the Users screen.

Then click Add User. Figure 20 Users 3 Configure the screen as follows and write down the username and password to give to Jimmy. If the username and password are the same as Jimmy's Windows login, Jimmy will not need to enter a username and password when he logs into his share from his computer. Set the Account Type to User so Jimmy doesn't get to configure the whole NSA. Click Apply to create the account.

Figure 21 Users > Create Example 4 The account now displays in the Users screen. Figure 22 Users (Account Created) Now that Bob has created Jimmy's account, he can go through the steps again to create another account for Kevin. After both accounts are created, he can go to Section 3.1.2 on page 51 to create shares for Jimmy and Kevin.

50 NSA-220 Plus User's Guide Chapter 3 Tutorials 3.1.2 Creating a Share Suppose Bob has already created separate accounts for his sons Jimmy and Kevin. Now Bob wants to create a share for each son. He also wants to make sure that each son can only access his own share (to keep them from deleting each other's files). This is how he would do it. 1 In the NSA's administration web configurator screens, click Shares > Add Share. Click Add Share to create a new share. Figure 23 Shares 2 Specify a name for the share and select which volume it should be on. Configure the screen as follows.

Then click Edit. Figure 24 Shares > Add Share Example NSA-220 Plus User's Guide 51 Chapter 3 Tutorials 3 Configure the screen as follows to give Jimmy full access right to the share. Then click Apply to create the share. Figure 25 Shares > Add Share > Share Access > Advanced Example Now that Bob has created Jimmy's share, he can go through the steps again to create another share for Kevin. 3.1.3 Creating a Group After creating user accounts for Jimmy and Kevin, Bob wants to create a group for his sons and another one for the parents. Bob can assign access rights to his sons' group for certain shares such as a cartoons share and allow only the parents' group to access the scary movie share. This is how he would create the group. 1 In the NSA's administration web configurator screen, click Groups > Add Group.

Figure 26 Groups 52 NSA-220 Plus User's Guide Chapter 3 Tutorials 2 Specify a name for the group. Select the user(s) you want to add to the group from the Available User(s) list and click Add Selected User(s). Configure the screen as follows. Then click Apply to create the group. Figure 27 Groups > Add Group Example Now that Bob has created a group for Jimmy and Kevin, he can go through the steps again to create another group for the parents. Then he can see the rest of the tutorials for how to use the groups in assigning access rights to shares. 3.1.4 Accessing a Share From Windows Explorer If you map a NSA share (where data is stored) to a Windows network drive, you can use Windows Explorer to transfer files to and from the NSA as if it was another folder on your computer. Here he maps Jimmy's share to Jimmy's computer.

1 Start Windows Explorer and go to the NSA's server name ("nsa220plus" is the default) or IP address. 2 Click Tools > Map Network Drive. Figure 28 NSA Top Level NSA-220 Plus User's Guide 53 Chapter 3 Tutorials 3 Select the network drive that you want to map the NSA to from the Drive list box. This example uses I. Then browse to and select the share on the NSA. Click Finish. Figure 29 Map Network Drive 4 Enter the username and password for Jimmy's account and click OK. You do not need to do this if the username and password are the same as Jimmy's Windows login. Figure 30 Enter Network Password 5 After the mapping is done, you can then simply copy and paste or drag and drop files from/to your local computer's drives to or from this network folder. Just like the NSA's share was another folder on your computer.

Figure 31 Example Share Mapped (Folders View) Now that Bob has mapped Jimmy's share to Jimmy's computer, he can go through the steps again to map Kevin's share to Kevin's computer. 54 NSA-220 Plus User's Guide Chapter 3 Tutorials 3.1.5 Accessing a Share Using FTP You can also use FTP to access the NSA. Suppose Jimmy is temporarily using a different computer and wants to access his share without mapping it to the computer. This is how he would do it. 1 Open the FTP client (Windows Explorer is used here) and type "ftp://username@server" where "username" is the account's username and "server" is the NSA's IP address or server name. Figure 32 FTP Example: Typing the FTP Target 2 Enter your password and click Login. Figure 33 FTP Example: Enter the Password 3 Now you can access files and copy files from/to your local computer's drives to or from this network folder. Figure 34 FTP Example: Logged In NSA-220 Plus User's Guide 55 Chapter 3 Tutorials 3.

1.6 Accessing a Share Through the Web Configurator You can browse and access files through the web configurator. 1 Log into the NSA web configurator (see Section 2.3 on page 32) using your username and password. Click a share to see the top level of the share's contents. Figure 35 My NSA User Login 2 Here is the Jimmy share. Figure 36 Share Browsing 3 Click a folder's file name to browse the folder. You can open files or copy them to your computer. You can also create new folders and upload additional files to the share. 4 Click the logout icon when you are done. 56 NSA-220 Plus User's Guide Chapter 3 Tutorials 3.2 Download Service Tutorial This tutorial covers using the NSA to download a file from the Internet. Use this same procedure for BitTorrent downloads as well as regular HTTP (web) and FTP downloads. See Section 7.4.1 on page 110 for more on the download service. 3.2.1 Copying/Pasting a Download Link 1 Open your Internet browser (this example uses Internet Explorer). 2 Find a download link for the file you want.

In this example, www.zyxel.com has a Download Now link for downloading a datasheet for ZyXEL's GS-2024 (a device for making phone calls over the Internet). Figure 37 Download Link Example Make sure the link opens either the file you want or a pop-up window about how to handle the file. NSA-220 Plus User's Guide 57 Chapter 3 Tutorials It is also OK for the link to open a .torrent file. If you are redirected to a screen that says the download should start in a few seconds, there may be a link to click if the download does not start automatically. See if that link opens the file or the pop-up window. 3 Right-click the download link and select Copy Shortcut in Internet Explorer (or Copy Link Location in Firefox).



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