



Your PDF Guides

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

NSA-220

Network Storage Appliance

User's Guide

Version 1.00
3/2007
Edition 1

ZyXEL
www.zyxel.com



[You're reading an excerpt. Click here to read official ZYXEL NSA-220 user guide](http://yourpdfguides.com/dref/2433994)
<http://yourpdfguides.com/dref/2433994>

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-220 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 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 NSA-220 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 User's Guide Safety Warnings NSA-220 User's Guide 7 Safety Warnings 8 NSA-220 User's Guide Contents Overview Contents Overview

Introduction

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.... 23 Getting to Know Your NSA

.....

.....

.....

.....

.....

.....
.....

.....
.....
.....
.....

.....
.....

... 25 Web Configurator Basics ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 29 Tutorials

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 43 Status Screen ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.. 51 Status, System, Storage, and Network

.....
.....
.....

.....
.....
.....

.....
.. 55 System Setting Screens ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

57 Storage Screens

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 61 Network Screen .

.....
.....
.....

.....
.....
.....

.....

.....
.....
.....
.....
119 NSA-220 User's Guide 9 Contents Overview 10 NSA-220 User's Guide Table of Contents Table of Contents About This User's Guide
.....

. 3 Document Conventions.....

.... 4 Safety Warnings.

.... 6 Contents Overview .
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.... *9 Table of Contents.*

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
11 List of Figures

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
. 17 List of Tables....

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
.....
.....

.....
.... 21 *Part I: Introduction.*

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 23 *Chapter 1 Getting to Know Your NSA.....*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 25 *1.1 NSA Overview ...*

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.... 25 *1.1 LEDs*

.....

.....
.....
.....
.....

.....
.....
.....

.....

.....

.....

.....

.....

.....

.....

.....

2 COPY Button

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

28 Chapter 2 Web Configurator Basics

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 29 2.1 Web Configurator Overview

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 29 2.2 Accessing the NSA Web Configurator

.....

.....

.....

.....
.....
.....
.....

... 29 2.2.1 Access the NSA Via NDU

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 29 2.2.2 Web Browser Access ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 30 2.3 Login

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 30 2.4 User-level Screens Overview ..

.....
.....
.....

.....
.....

.....
.....
.....

.....
.....

. 31 2.5 My NSA Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.. 33 2.5.1 My NSA Share Browsing Screen .

.....
.....
.....
.....

.....
.....
.....

..... 34 2.5.

2 My NSA Management Overview Screen

.....
.....

.....
.....
.....

.....
.....

.. 34 2.5.3 My NSA Change Share Properties Screen .

.....
.....
.....
.....

.....
.....

.. 35 2.5.4 Share and Folder Names

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 37 2.5.5 Share Paths ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

... 38 2.5.

6 Password Screen

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 38 2.6 Administration Screens

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....

.....
39 2.6.1 Global Administration Icons ..

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

40 NSA-220 User's Guide 11 Table of Contents 2.6.2 Navigation Panel ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

40 2.6.3 Main Window

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

42 2.6.4 Status Messages

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 42 2.

6.5 Common Screen Icons

.....
.....

.....

.....

.....ction .

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 67 6.

5 Disks

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 68 6.5.1 External Disks

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 68 6.5.2 Disk Replacement Restrictions

.....
..... 73 7.1.1 IP Address .

.....
.....

.....
.....

.....
.....

.....
.....

... 73 7.1.2 DNS Server Address

.....
.....

.....
.....

.....
.....

... 73 7.2 Network Config Screen .

.....
.....

.....
.....

.....
.....

.....
.....

..... 73 Chapter 8 Application Screens ..

.....
.....

.....
.....

.....
.....
.....
.....

.....
.....
..... 77 8.

1 Application Screens

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 77 8.

2 FTP

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 77 8.3 FTP Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
..... 77 8.4 Media Server ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 78 8.5 Media Server Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
... 79 Part III: User Accounts and Shares ..

.....
.....

.....
.....
.....
.....

..... 81 Chapter 9 Users ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
... 83 9.1 User Accounts Introduction

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

83 9.2 Users Overview Screen

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
..... 83 9.
2.1 User Icons

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.....
84 9.3 Adding or Editing a User Account

.....
.....
.....
.....
.....
.....

.....
.....
.....

..... 85 9.3.

1 Add or Edit a User Account Screen

.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 85 9.3.2 Usernames ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

85 9.4 Change Password Screen

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 86 9.

5 Delete Account Screen

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.....

.....

... 87 Chapter 10 Shares .

....

.....

.....

....

....

.....

.....

....

....

.....

.....

....

....

.....

.....

....

....

..... 89 NSA-220 User's Guide 13 Table of Contents 10.1 Shares Introduction .

.....

....

....

.....

.....

....

....

.....

.....

....

....

.....

.....

....

. 89 10.1.1 Share Icons ..

.....

.....

....

....

.....

.....

....

....

.....

.....

....

....

.....

..... 89 10.1.
2 Shares Screen

....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 89 10.2 Adding a New Share

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 90 10.2.1 Public and ANONYMOUS Share Access Rights ..

.....
.....
.....
.....

.....
.....
.....
.....

..... 92 10.3 Share Path Browse Screen ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 92 Part IV: Protection, Media Client, Maintenance, & Troubleshooting . 95 Chapter 11 Maintenance Screens ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....
.....

. 97 11.1 Maintenance Overview

.....
.....
.....

.....
.....
.....

.....
.....
.....

*.... 97 11.
2 Log*

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 97 11.3 Log Classes ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 98 11.4 Log Severity Levels ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 98 11.5 Log Messages ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

... 99 11.6 Configuration .

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

*..... 100 11.
7 Firmware Upgrade*

.....
.....
.....
.....
.....

.....

.....
.....
.....

..... 101 11.8 Shutdown ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 102 Chapter 12 Protecting Your Data...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 105 12.1 Protection Methods ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 105 12.1.1 Configuration File Backup and Restoration

.....
.....

.....
.....
.....
.....

..... 105 12.1.2 Memeo Autobackup ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.. 106 Chapter 13 Media Client Software...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 107 13.

1 Media Client Introduction

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 107 13.2 Using the Media Client Software ..

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

... 107 Chapter 14 Memeo Autobackup Software.....

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 109 14.1 Memeo Autobackup Introduction ..

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

... 109 14.2 Using the Memeo Autobackup Software

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 109 Chapter 15 Troubleshooting...

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

.. 111 15.1 Troubleshooting Overview ..

.....

..... 181 Appendix F Customer Support

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 183 Index..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 187 NSA-220 User's Guide 15 Table of Contents 16 NSA-220 User's Guide List of Figures List of Figures Figure 1 Example of the NSA in a Home Network

.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 25 Figure 2 NSA Front Panel .

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
. 26 Figure 3 NSA Rear Panel

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
..... 27 Figure 4 NDU Main Screen .

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 30 Figure 5 NSA URL

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

.....
30 Figure 6 NSA Login Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....
. 31 Figure 7 Change Password Screen

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 31 Figure 8 My NSA

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 32 Figure 9 My NSA

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 33 Figure 10 My NSA Share Browsing ...

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

34 Figure 11 My NSA Management Overview

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 35 Figure 12 My NSA Change Share Properties

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

..... 36 Figure 13 Password .

.....

.....

.....

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 39 *Figure 14 Status*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.. 40 *Figure 15 Navigation Panel Links* ...

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 41 *Figure 16 My NSA*

.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
.....

.....
.....
.....
.....

.....
.....
..... *43 Figure 17 Users ..* ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... *44 Figure 18 Users > Create Example*

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... *44 Figure 19 Users (Account Created) ..*

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

44 Figure 20 Shares

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 45 Figure 21 Shares > Create Example

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 45 Figure 22 Shares > Create > Browse > Create Folder Example .

.....
.....

.....
.....
.....
.....

.... 45 Figure 23 Shares > Create > Browse > New Folder Example .

.....
.....

.....
.....
.....
.....

.....
.....

... 46 Figure 24 Shares > Create Example ..

.....

.....
.....
.....
.....

.....

.....
.....
.....
.....
.....
.....
.....

46 Figure 25 NSA Top Level

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 46 Figure 26 Map Network Drive .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.. 47 Figure 27 Enter Network Password

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 47 Figure 28 Example Share Mapped (Folders View)

.....
.....

.....
.....
.....
.....

..... 47 Figure 29 FTP Example: Typing the FTP Target ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 48 Figure 30 FTP Example: Enter the Password

.....
.....
.....

.....
.....
.....

.....
.....

.... 48 Figure 31 FTP Example: Logged In .

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 49 Figure 32 My NSA User Login

.....
.....

.....
.....
.....

.....
.....
.....
.....

.... 49 Figure 33 My NSA User Login

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

50 Figure 34 Status

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 51 Figure 35 Session Example (Windows) ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 53 Figure 36 System Setting > Server Name

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.. 74 Figure 45 Applications > FTP ...

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 78 Figure 46 Applications > Media Server .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

.. 79 Figure 47 Users ...

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....
.....

. 84 Figure 48 Users > Add or Edit an Account

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 85 Figure 49 Users > Change Password

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 86 Figure 50 Users > Delete Account .

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 87 Figure 51 Shares .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
90 Figure 52 Shares > Add Share

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

91 Figure 53 Share Path Browse

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

. 92 Figure 54 Maintenance > Log

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....

.... 97 Figure 55 Maintenance > Configuration .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

... 101 Figure 56 Maintenance > FW Upgrade ..

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 101 Figure 57 Maintenance > Shutdown

.....
.....
.....

.....
.....
.....

.....
.....
.....

... 102 Figure 58 Maintenance > Shutdown > Confirm Restart

.....
.....
.....

.....
.....
.....

.....
.....

102 Figure 59 Maintenance > Shutdown > Confirm Shutdown

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 133 Figure 66 Windows XP: Control Panel

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

133 Figure 67 Windows XP: Control Panel: Network Connections: Properties

.....
.....
.....

... 134 Figure 68 Windows XP: Local Area Connection Properties ..

.....
.....

.....
.....
.....
.....

... 134 Figure 69 Windows XP: Internet Protocol (TCP/IP) Properties ..

.....

.....
.....
.....
.....

.....
.....

... 135 Figure 70 Windows XP: Advanced TCP/IP Properties ..

.....

.....
.....
.....
.....

.....
.....
.....

.....
136 Figure 71 Windows XP: Internet Protocol (TCP/IP) Properties

.....
.....
.....
.....
.....
.....
.....

137 Figure 72 Macintosh OS X: Apple Menu

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 138 Figure 73 Macintosh OS X: Network

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

138 Figure 74 Red Hat 9.0: KDE: Network Configuration: Devices

.....
.....
.....
.....
.....
.....

139 Figure 75 Red Hat 9.0: KDE: Ethernet Device: General

.....
.....
.....
.....
.....
.....
.....

..... 140 Figure 76 Red Hat 9.0: KDE: Network Configuration: DNS

.....
.....
.....
.....

. 140 Figure 77 Red Hat 9.0: KDE: Network Configuration: Activate

.....
.....
.....

.....
.....
.....
.....

. 141 Figure 78 Red Hat 9.0: Dynamic IP Address Setting in ifconfig-eth0

.....
.....
.....

.....
.....
.....

.. 141 Figure 79 Red Hat 9.0: Static IP Address Setting in ifconfig-eth0 Figure 80 Red Hat 9.0: DNS Settings in resolv.conf

.....
.....
.....
.....

.....
.....
.....

... 141 ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 142 Figure 81 Red Hat 9.0: Restart Ethernet Card

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 142 18 NSA-220 User's Guide List of Figures Figure 82 Red Hat 9.0: Checking TCP/IP Properties ..

.....
.....

.....
.....

.....
.....
.....
.....

.. 142 Figure 83 Pop-up Blocker ...

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 143 Figure 84 Internet Options: Privacy .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 144 Figure 85 Internet Options: Privacy

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

... 145 Figure 86 Pop-up Blocker Settings

.....
.....
.....

.....

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

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

... 32 Table 3 My NSA

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

. 33 Table 4 My NSA Share Browsing

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.. 34 Table 5 My NSA Management Overview

.....

.....

.....

.....

.....

.....

.....

.....
.....
.....
.....

..... 35 Table 6 My NSA Change Share Properties ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 36 Table 7 Password ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 39 Table 8 Global Labels and Icons ..

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 40 Table 9 Screens Summary

.....
.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 59 Table 14 Storage > Overview

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

. 62 Table 15 RAID Quick Comparison .



[You're reading an excerpt. Click here to read official ZYXEL
NSA-220 user guide
http://yourpdfguides.com/dref/2433994](http://yourpdfguides.com/dref/2433994)

...
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

. 63 Table 16 JBOD

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

66 Table 17 RAID 0

.....

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

..... 66 Table 18 RAID 1 ...

.....
.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 67 Table 19 Create a New Internal Volume .

.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

69 Table 20 Edit an Internal Volume

.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 70 Table 21 Create a New External Volume

.....
.....

.....
.....
.....

.....
.....
.....

..... 71 Table 22 Edit an External Volume ...

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 72 Table 23 Network Config > Network Config

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

.... 74 Table 24 Applications > FTP

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

... 78 Table 25 Applications > Media Server ..

.....
.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 79 Table 26 Users ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 84 Table 27 User Icons ...

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 84 Table 28 Users > Add or Edit an Account .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

... 85 Table 29 Users > Change Password

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 87 Table 30 Users > Delete Account

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

87 Table 31 Share Icons

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 89 Table 32 Shares

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....

.....
.....

..... 90 Table 33 Shares > Add Share ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 91 Table 34 Share Path Browse .

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 93 Table 35 Maintenance > Log

.....
.....
.....

.....
.....
.....

.....
.....
.....

.....
.....

97 Table 36 Log Classes

.....
.....
.....

.....

.....
.. 121 Table 44 Firmware Features

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 121 Table 45 NSA Hardware Specifications

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 122 Table 46 NSA Firmware Specifications ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.... 123 Table 47 Supported Standards and Recommendations

.....
.....
.....

.....
.....
.....
.....

.... 124 Table 48 Supported Media Server Content Formats .

.....
.....
.....

.....
.....
.....
.....

..... 126 Table 49 Power Consumption in Watts (W) .

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 127 Table 50 ..

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

127 22 NSA-220 User's Guide PART I Introduction Getting to Know Your NSA (25) Web Configurator Basics (29) Tutorials (43) Status Screen (45) 23 24
CHAPTER This chapter covers the main features and applications of the NSA. 1 Getting to Know Your NSA 1.1 NSA Overview The NSA (Network Storage Appliance) provides file sharing and data backup for your home network. . . . Use SATA (Serial Advanced Technology Attachment) I or 3.0 Gbit/s hard disks. RAID (Redundant Array of Independent Disks) protects your data even if a hard disk fails. You can expand the NSA's storage capacity with USB devices (like hard drives). Use the COPY button to copy files directly to the NSA from USB devices like card readers, MP3 players, memory sticks, and digital cameras without using a computer. · The NSA is a media server. Media clients can play the NSA's video, music and photo files.

Use the included media client software to make your computers into media clients. You can also use hardware-based media clients like the DMA-1000. · The NSA has a 10/100/1000 Mbps Ethernet port for connecting to your network. Figure 1 Example of the NSA in a Home Network Above is the NSA in a home network. Users back up and share data on the NSA. The DMA1000 plays the NSA's media files on the TV. A USB hard drive provides extra storage space and files are copied directly from the USB memory stick to the NSA. Place the NSA behind a firewall and/or IDP (Intrusion Detection and Prevention) device to protect it from attacks from the Internet. NSA-220 User's Guide 25 Chapter 1 Getting to Know Your NSA See the product specifications appendix for a more detailed list of NSA features and lists of compatible hard drives and USB devices. Refer to the Quick Start Guide for hardware connections and how to install and remove hard drives from the disk trays.

Turn off and disconnect the NSA before you install or remove internal hard drives. 1.1.1 LEDs The NSA LEDs (lights) tell you important information. Figure 2 NSA Front Panel 26 NSA-220 User's Guide Chapter 1 Getting to Know Your NSA Figure 3 NSA Rear Panel This table describes the NSA's LEDs.
Table 1 LEDs LED POWER HDD1/ HDD2 COLOR Blue Green OrangeA STATUS On Off On Blinking On DESCRIPTION The NSA is turned on and receiving power. The NSA is turned off. The hard disk drive is connected properly to the NSA. The NSA is saving data to the hard disk drive. The NSA detected an error on the hard disk drive (like a bad sector for example).

The NSA automatically tries to recover a bad sector, but the LED stays orange until the NSA restarts. The hard disk drive connection came loose or the NSA detected an error on the hard disk drive (like a bad sector for example) and is saving data to the hard disk drive. The hard disk drive has failed and the NSA can no longer detect it. The NSA cannot detect a hard disk in the disk bay. The NSA has fully started and is operating normally. The NSA is starting up. The NSA has failed. Blinking Red On Off SYS Green Red On Blinking On NSA-220 User's Guide 27 Chapter 1 Getting to Know Your NSA Table 1 LEDs

(continued) LED LAN COLOR Green STATUS On Blinking Off Yellow On Blinking Off COPY Green Red On Blinking On Off DESCRIPTION The NSA has a successful 10/100Mbps Ethernet connection. The 100M LAN is sending or receiving packets. The NSA does not have a 10/100Mbps Ethernet connection.

The NSA has a successful 1000Mbps Ethernet connection. The 1000M LAN is sending or receiving packets. The NSA does not have a 1000Mbps Ethernet connection. A USB device is connected to the NSA. The NSA is copying files from the USB device. Copying files 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 Button Use the COPY button on the front panel to copy files from a connected USB device to the NSA. The files are stored in a folder created within the public share. The name of the folder created for the copied files consists of the date and time of the copy in year_month_day_hour_minute_second format.

Up to a total of 10 GB for files can be copied. If the USB device has more than 10 GB of files, the NSA emits a long beep and does not copy any of the files. 28 NSA-220 User's Guide CHAPTER 2 Web Configurator Basics This chapter describes how to access the NSA web configurator and provides an overview of its screens. 2.1 Web Configurator Overview The web configurator is an HTML-based management interface that allows easy NSA setup and management via

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.



[You're reading an excerpt. Click here to read official ZYXEL](#)

[NSA-220 user guide](#)

<http://yourpdfguides.com/dref/2433994>

Refer to the *Quick Start Guide* to see how to install and run the NDU. NSA-220 User's Guide 29 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 ("nsa220" is the 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 9 on page 85 for how to create other user accounts.

30 NSA-220 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 2.4 User-level Screens Overview All users (including the administrator) first see the user-level access My NSA screen after login. NSA-220 User's Guide 31 Chapter 2 Web Configurator Basics Figure 8 My NSA 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 DESCRIPTION Select the web configurator language from the drop-down list box. Click the Help icon to open a web help page specific to the screen you are currently configuring. Click the Logout icon at any time to exit the web configurator. My NSA Click this tab 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 tab to go to a screen where you can change your password.

Click this tab to go to screens where you can manage advanced configurations. You will have to log in as the administrator if you are not already logged in as the administrator. Password Administration 32 NSA-220 User's Guide Chapter 2 Web Configurator Basics 2.5 My NSA Screen 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 MyNSA screen displays the shares to which you have access. Figure 9 My NSA The following table describes the labels in this screen. Table 3 My NSA LABEL DESCRIPTION This share icon represents a share on a volume on the internal hard drives (to which you have access).

Click this icon to access the share's contents. The folder appears as gray if the share is not currently available (because the hard drive was removed for example). This share icon represents a share on a volume on an external (USB) device. Click this icon to access the share's contents. The folder appears as gray if the share is not currently available (because the USB drive was removed for example).

Manage It Click this button to see and configure the management details for a share. NSA-220 User's Guide 33 Chapter 2 Web Configurator Basics 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.

Figure 10 My NSA Share Browsing The following table describes the labels in this screen. Table 4 My NSA Share Browsing LABEL Current location Type DESCRIPTION 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. Click a folder's name to display the folder's contents. This column displays a file's size in bytes. This column displays the last time the file or folder was changed (in year:month:day hour:minute:second format).

File Name Size Modified Date 2.5.2 My NSA Management Overview Screen Use the My NSA management overview screens to see and configure share management details. Click My NSA and then the Manage It button of one of your shares to open the following screen. This screen displays a share's management details. 34 NSA-220 User's Guide Chapter 2 Web Configurator Basics Figure 11 My NSA Management Overview The following table describes the labels in the this screen. Table 5 My NSA Management Overview LABEL Share Owner Location Path Share Browsing Change Share Properties 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 link to see and access the share's contents. Click this link to configure the share's management details. 2.5.3 My NSA Change Share Properties Screen Use the My NSA Change Share Properties screen to configure share management details.

Click My NSA and a share's Manage It button. Then click Change Share Properties to open the following screen. This screen displays a share's management details. NSA-220 User's Guide 35 Chapter 2 Web Configurator Basics Figure 12 My NSA Change Share Properties The following table describes the labels in the this screen. Table 6 My NSA Change Share Properties LABEL Share Name DESCRIPTION Configure a name to identify this share.

Type a share name from 1 to 255 single-byte (no Chinese characters allowed for example) ASCII characters. The name cannot be the same as another existing local share. See Section 2.5.4 on page 37 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. This is the share's file path. Select who can access the files in the share and how much access they are to be given. 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.



**You're reading an excerpt. Click here to read official ZYXEL
NSA-220 user guide**
<http://yourpdfguides.com/dref/2433994>

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. This appears when you set the Share Access to Advanced. This column lists the names of the NSA's user accounts. This appears when you set the Share Access to Advanced. Select this column's radio button in a user account's row to give the user full access to the share. This allows the user to read files in the share, delete files in the share and save files to the share. Select the check box at the top of the column to give all of the users full access to the share. Volume Path Share Access Username Full 36 NSA-220 User's Guide Chapter 2 Web Configurator Basics Table 6 My NSA Change Share Properties (continued) LABEL Read Only DESCRIPTION This appears when you set the Share Access to Advanced. Select this column's radio button in a user account's row to give the user read-only access to the share.

This allows the user to view or copy files in the share, but not delete files in the share or save files to the share. Select the check box at the top of the column to give all of the users read-only access to the share. This appears when you set the Share Access to Advanced. Select this column's radio button in a user account's row to stop the user from accessing the share. This means the user cannot read files in the share, delete files in the share, or save files to the share. Select the check box at the top of the column to stop all of the users from accessing the share. Deny Note: Selecting the check box at the top of the column blocks everyone (including the administrator) from accessing the share. Publish this share to Media Server Apply Cancel Select this option to make the share's files available to media clients. Click this button to save your changes back to the NSA. Click this button to begin configuring this screen afresh. 2.5.4 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.

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. · · · NSA-220 User's Guide 37 Chapter 2 Web Configurator Basics 2.5.5 Share Paths A share path is the full path to a folder on a volume that will be shared, for example, /mysna/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] · " [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 2.5.6 Password Screen Click Password to open the following screen. Use this screen to change your password.

Enter a new password and confirm it by re-entering it. 38 NSA-220 User's Guide Chapter 2 Web Configurator Basics Figure 13 Password The following table describes the labels in this screen. Table 7 Password LABEL Change Password New Password Retype to confirm Apply Cancel Create a new password for this 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 button to save your changes back to the NSA. Click this button to begin configuring this screen afresh.

DESCRIPTION 2.6 Administration Screens Click Administration in the user-level screens to open the advanced administration screens. If you are not logged in using an administrator account, you will need to log in again.

The Status screen is the first advanced administration screen that displays. NSA-220 User's Guide 39 Chapter 2 Web Configurator Basics Figure 14 Status 3 2 1 4 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 8 Global Labels and Icons LABEL/ICON Language DESCRIPTION Select the web configurator language from the drop-down list box. Click this Help icon to open a web help page specific to the screen you are currently configuring. Click this About icon to view the model name, firmware version and copyright. Click this Home icon to return to the user-level screens.



[You're reading an excerpt. Click here to read official ZYXEL](#)

[NSA-220 user guide](#)

<http://yourpdfguides.com/dref/2433994>

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. 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. 40 NSA-220 User's Guide Chapter 2 Web Configurator Basics Click the Status icon to open the Status screens. Figure 15 Navigation Panel Links The following table describes the navigation panel screens. Table 9 Screens Summary LINK Status System Setting Date/Time Storage Server Name Date & Time Storage TAB FUNCTION This screen shows system information, the status of the volumes, and the users who are currently using the NSA.

Use this screen to specify the NSA's server name and workgroup name. Use this screen to chose a time zone and/or allow the NSA to synchronize with a time server. Use this screen to view volume and disk information. You can also create and edit volumes. A volume is a storage area that can span one or more internal disks or a single external (USB) disk. Use this screen to assign the NSA a dynamic or static IP address and DNS information. Use this screen to enable FTP file transfer to/from the NSA, set the number of FTP connections allowed and an FTP idle timeout. Use this screen to enable or disable the media server and select which shares to publish (share with medial clients). Use this screen to view, create and edit administrator and user accounts to let people use the NSA. Use this screen to view, create and edit shares.

Shares are shared folders to which you can allow specific users read/write access rights. Use this screen to view the NSA's logs. Use this screen to back up and/or restore the NSA configuration file. Use this screen to upload new firmware to your NSA. Use this screen to restart the NSA or shut it down. Click Logout to exit the web configurator. This is recommended to prevent unauthorized administrator access to the NSA. Network Applications Network Config FTP Media Server Users Shares Users Shares Maintenance Log Configuration FW Upgrade Shutdown Logout NSA-220 User's Guide 41 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. Right after you log in, the Status screen is displayed. See Chapter 4 on page 51 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 10 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 Delete icon to delete an entry from the list. Click the Edit icon to jump to related item's configuration screen. This is a user icon. See the chapter on user accounts for detailed information on variants of this icon. This is a share icon. See the chapter on shares 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 for file system errors. Click the Eject 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 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. 42 NSA-220 User's Guide CHAPTER This chapter provides tutorials that show how to use the NSA. 3 Tutorials 3.1 Tutorials Introduction The following tutorials cover how you use 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 Quick Start Guide for how to play media files using the included DLNA-compliant media client software. See the rest of this User's Guide for details on configuring the NSA's various screens. 3.2 Creating a User Account Bob wants to create accounts for his sons Jimmy and Kevin. This is how he would do it.

1 Log into the NSA web configurator (see Section 2.3 on page 30) and click Administration to go to the configuration screens. Figure 16 My NSA 2 Click Users to open the Users screen. Then click Create a New Account. NSA-220 User's Guide 43 Chapter 3 Tutorials Figure 17 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 18 Users > Create Example 4 The account now displays in the Users screen. Figure 19 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 3.3 on page 44 to create shares for Jimmy and Kevin. 3.3 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. 44 NSA-220 User's Guide Chapter 3 Tutorials 1 In the NSA's administration web configurator screens, click Shares > Create a New Share. Figure 20 Shares 2 Specify a name for the share and select which volume it should be on. Then click Browse. Figure 21 Shares > Create Example 3 Type a name for a new folder and click Create Folder. Figure 22 Shares > Create > Browse > Create Folder Example 4 Select the new folder and click Apply. NSA-220 User's Guide 45 Chapter 3 Tutorials Figure 23 Shares > Create > Browse > New Folder Example 5 Configure the screen as follows and click Apply. Figure 24 Shares > Create Example Now that Bob has created Jimmy's share, he can go through the steps again to create another share for Kevin. Then he can see the rest of the tutorials for how to use the shares.

3.4 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.



[You're reading an excerpt. Click here to read official ZYXEL](http://yourpdfguides.com/dref/2433994)

[NSA-220 user guide](http://yourpdfguides.com/dref/2433994)

<http://yourpdfguides.com/dref/2433994>

In this example, Bob has already installed the NDU on Jimmy's computer (see the Quick Start Guide for details). Here he maps Jimmy's share to Jimmy's computer. 1 Start Windows Explorer and click Tools > Map Network Drive.

Figure 25 NSA Top Level 46 NSA-220 User's Guide Chapter 3 Tutorials 2 Select the network drive that you want to map NSA to from the Drive list box. This example uses I. Then browse to and select the share on the NSA. Click Finish. Figure 26 Map Network Drive 3 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 27 Enter Network Password 4 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 28 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. NSA-220 User's Guide 47 Chapter 3 Tutorials 3.5 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 29 FTP Example: Typing the FTP Target 2 Enter your password and click Login.

Figure 30 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. 1 Even though the admin share displays, user accounts cannot access it unless you change its share access settings. 48 NSA-220 User's Guide Chapter 3 Tutorials Figure 31 FTP Example: Logged In 3.6 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 30) using your username and password. Figure 32 My NSA User Login 2 Click a share to see the top level of the share's contents. Here is the Jimmy share. NSA-220 User's Guide 49 Chapter 3 Tutorials Figure 33 My NSA User Login 3 Click a folder's file name to browse the folder.

You can open files or copy them to your computer. However at the time of writing you cannot use the web configurator to upload files to the NSA (use CIFS or FTP to upload files, see Section 3.4 on page 46 and Section 3.5 on page 48). 4 Click the logout icon when you are done (see Table 2 on page 32). 50 NSA-220 User's Guide CHAPTER This chapter introduces the NSA Status screen. 4 Status Screen 4.1 Status Screen The Status screen is the first main web configurator screen you see after you log in to the administrator screens. To view the status screens, click Status on the top-left of the navigation panel.

Figure 34 Status NSA-220 User's Guide 51 Chapter 4 Status Screen The following table describes the labels in this screen.

Table 11 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 update link to go to the Maintenance > Firmware Upgrade screen from which you can upload new firmware. Click the edit icon to go to the screen where 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. 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. DESCRIPTION Click Status to refresh the status screen statistics. MAC Address Media Server Status FTP Server Status Volume Status Internal Volume Create an Internal Volume This displays if there are no volumes created on the hard drive(s) installed in the NSA.

Click this button to create a volume. See Section 6.6 on page 69. External Volume Status Name 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 CIFS or ANONYMOUS FTP display if a username is not defined for the user's connection. Configuration File System Disk(s) Disk Usage Active Sessions Type Share Name Username 52 NSA-220 User's Guide Chapter 4 Status Screen Table 11 Status (continued) LABEL Connected At IP Address DESCRIPTION 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. 4.1.1 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.



[You're reading an excerpt. Click here to read official ZYXEL](http://yourpdfguides.com/dref/2433994)

[NSA-220 user guide](http://yourpdfguides.com/dref/2433994)

<http://yourpdfguides.com/dref/2433994>

This session is then displayed as shown in Figure 34 on page 51. Figure 35 Session Example (Windows) NSA-220 User's Guide 53 Chapter 4 Status Screen 54 NSA-220 User's Guide PART II Status, System, Storage, and Network System Setting Screens (57) Storage Screens (61) Network Screen (73) 55 56 CHAPTER This chapter discusses the system setting screens. 5 System Setting Screens 5.1 System Setting Screens This section gives an overview of the various features included in the system setting screens. Use the system setting screens to: · Specify the NSA's Windows/CIFS server name and workgroup name.

· Choose a time zone and/or allow the NSA to synchronize with a time server. · Create and edit volumes (see Chapter 6 on page 61 for details). 5.1.1 Windows/CIFS Common Internet File System (CIFS) is a standard protocol supported by most operating systems in order to share files across the network. · CIFS is included by default in Windows and Mac OSX operating systems. · You can use Samba with Linux to use CIFS. · CIFS transfers use security. 5.2 Server Name Use this screen to configure your CIFS settings.

In this screen you can set your server name and specify if your NSA is a part of a workgroup or domain. CIFS cannot be disabled on the NSA. Click System Setting > Server Name to open the following screen. NSA-220 User's Guide 57 Chapter 5 System Setting Screens Figure 36 System Setting > Server Name The following table describes the labels in these screens. Table 12 System Setting > Server Name LABEL Server Name DESCRIPTION Enter a name to identify your NSA on the network in this field. 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. Add text here to describe the NSA if the Server Name field was not enough. Use up to 61 characters. You can use the following.

a-zA-Z0-9 '()+,./:=?;!*#@\$_%A workgroup is a group of computers on a network that can share files. These user accounts are maintained on the NSA. Type your workgroup name in this field. 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. Click here to save your changes back to the NSA. Description Workgroup Name Apply 5.3 Date/Time Use this screen to select a time zone and a time server from which your NSA can get the time and date. This time is then used in NSA logs and alerts. 5.

3.1 Time Lag Time lag occurs when the time on the NSA falls behind the time on the time server. This may happen if: · the time server is no longer reachable · if the NSA is shut down often (the NSA internal battery keeps time when the NSA is shut down and this may cause possible variance) · power surges occur. The NSA gives no warning if time lag occurs. You should resynchronize the time after a power surge or after you have shut down the NSA several times.

58 NSA-220 User's Guide Chapter 5 System Setting Screens 5.3.2 Date/Time Screen Click the System Setting link in the navigation panel and then click the Date/Time link to access the System Setting > Date/Time screen. Figure 37 System Setting > Date/Time The following table describes the labels in this screen. Table 13 System Setting > Date/Time LABEL Current System Date Time Setting Current Time Current Date Current Time Zone Date Time Setup Manual New Time (hh:mm:ss) Select this radio button to enter the time and date manually.

This field displays the last updated time from the time server or the last time configured manually. When you set Time and Date Setup to Manual, enter the new time in this field and then click Apply. This field displays the last updated date from the time server or the last date configured manually. When you set Time and Date Setup to Manual, enter the new date in this field and then click Apply. Select this check box to have the NSA get the time and date from the time server you select in the Time Server Address field. Click this button for the NSA to retrieve the correct time from the configured time server right away. This field displays the time of your NSA. This field displays the date of your NSA. This field displays the time zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT).

DESCRIPTION New Date (yyyy-mmdd) Get from Time Server Synchronize Now NSA-220 User's Guide 59 Chapter 5 System Setting Screens Table 13 System Setting > Date/Time (continued) LABEL Time Server Address DESCRIPTION Select a time server from the drop-down list box or select Specify my own time server and enter the time server you wish to use in the field below. Check with your ISP/network administrator if you are unsure of this information. Click this button for the NSA to retrieve the correct time from the configured time server right away. Select a time server from the drop-down list box or select Specify my own time server and enter the time server you wish to use in the field below. Check with your ISP/network administrator if you are unsure of this information. Choose the time zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT). Daylight saving is a period from late spring to early fall when many countries set their clocks ahead of normal local time by one hour to give more daytime light in the evening. Select this option if you use Daylight Saving Time. Configure the day and time when Daylight Saving Time starts if you selected Enable Daylight Saving.

The o'clock field uses the 24 hour format. Here are a couple of examples: Daylight Saving Time starts in most parts of the United States on the first Sunday of April. Each time zone in the United States starts using Daylight Saving Time at 2 A.M. local time.

So in the United States you would select First, Sunday, April and type 2 in the o'clock field. Daylight Saving Time starts in the European Union on the last Sunday of March. All of the time zones in the European Union start using Daylight Saving Time at the same moment (1 A.M. GMT or UTC). So in the European Union you would select Last, Sunday, March. The time you type in the o'clock field depends on your time zone. In Germany for instance, you would type 2 because Germany's time zone is one hour ahead of GMT or UTC (GMT+1). Configure the day and time when Daylight Saving Time ends if you selected Enable Daylight Saving. The o'clock field uses the 24 hour format. Here are a couple of examples: Daylight Saving Time ends in the United States on the last Sunday of October. Each time zone in the United States stops using Daylight Saving Time at 2 A.M. local time. So in the United States you would select Last, Sunday, October and type 2 in the o'clock field.



[You're reading an excerpt. Click here to read official ZYXEL NSA-220 user guide](http://yourpdfguides.com/dref/2433994)
<http://yourpdfguides.com/dref/2433994>

Daylight Saving Time ends in the European Union on the last Sunday of October. All of the time zones in the European Union stop using Daylight Saving Time at the same moment (1 A.M. GMT or UTC). So in the European Union you would select Last, Sunday, October. The time you type in the o'clock field depends on your time zone. In Germany for instance, you would type 2 because Germany's time zone is one hour ahead of GMT or UTC (GMT+1). Specify by how many hours to change the time for Daylight Saving Time. Click Apply to save your changes back to the NSA. If you configured a new time and date, Time Zone and Daylight Saving at the same time, all of the settings take affect.

Click Reset to begin configuring this screen afresh. Synchronize Now Time Server Address Time Zone Time Zone Enable Daylight Saving Start Date End Date Offset Apply Reset 60 NSA-220 User's Guide CHAPTER This chapter covers storage systems, volumes and disks on the NSA. 6 Storage Screens 6.1 Storage Introduction Use the Storage screens to create and manage NSA volumes (internal and external) and disks. · See Section 6. 3 on page 62 for more information on volumes. · See Section 6.5 on page 68 for more information on disks. 6.2 Storage Overview Screen Click Storage in the Navigation panel to display the following screen.

Figure 38 Storage NSA-220 User's Guide 61 Chapter 6 Storage Screens The following table describes the labels in this screen. Table 14 Storage > Overview LABEL Internal/External Volume DESCRIPTION These tables display information on all internal volumes (created on NSA internal disk drives) and external volumes (created on external disk drives attached to the NSA USB ports). See the volume screen for field details. Click this to format internal hard drives and create a new volume. All data on the disk(s) will be lost. Click this to format an external hard drive and create a new volume. All data on the disk will be lost. This field shows whether the volume is Healthy, Resyncing, Degraded, or Down. The NSA creates the volume name automatically. You can edit it.

This field shows which disks and data storage system the volume is using. This field displays the file system that an external (USB) volume is using. Click or roll your mouse over a link in this column to display the following details about the hard drive located in the corresponding hard drive bay. Type: Whether it is an internal or external (USB) hard drive. Model Name: This is the hard disk number that identifies the disk. File System: The file system that an external volume is using Capacity: The total storage space on the disk. This field shows total disk size, the percentage of the volume being used and the percentage that is available. This field displays icons allowing you to edit, scan, repair or delete a volume. You can also locate or eject an external volume. Create an Internal Volume Create an External Volume Status Volume Disk Configuration File System Disk(s) Capacity Actions Note: If you delete a volume, all data in the volume disk(s) is erased.

You see a warning screen before you delete a volume. Figure 39 Delete a Volume Warning Screen 6.3 Volumes and RAID A volume is a storage area on a disk or disks. You can create volumes on the internal disks and external disks attached to the USB port(s). You can spread a volume across internal disks but not between internal and external disks.

RAID (Redundant Array of Independent Disks) or JBOD is the storage method that the NSA uses. The storage method you use depends on how many disks you have and how many volumes you want to create. It's important that you consider this carefully as all data is deleted when you re-create a volume. 62 NSA-220 User's Guide Chapter 6 Storage Screens Back up your data before deleting or re-creating a volume! For example if you originally have one disk configured at JBOD, and you then install another disk and want to configure the two disks to use RAID 1, you should first back up all your data on the two disks (see the Memeo Autobackup utility on the included CD) and then restore your data later after you create the new volume type. Below is a table that summarizes some attributes of the various RAID levels as supported on the NSA.

For capacity and storage efficiency, "S" is the size of the smallest drive in the array, and "N" is the number of drives in the array. Storage efficiency assumes all drives are of identical size. Performance rankings are approximations. Table 15 RAID Quick Comparison RAID Level Number of Disks Capacity Storage Efficiency Fault Tolerance Availability Read Performance Write Performance 0 2 S*N 100% None Y YYY YYY Y 1 2 S*N/2 50% YYY YYY YYY YYY 6.3.1 Choosing A Storage Method For a Volume The following is a guide to help you choose a storage method for the various number of disks supported on the NSA. See Section 6.4 on page 65 for theoretical background on JBOD and the RAID levels used on the NSA. Typical applications for each method are also shown there. 6.

3.1.1 One Disk If you only have one disk, you must use JBOD. All disk space is used for your data - none is used for backup. If the disk fails, then you lose all the data on that volume (disk). 6.3.1.2 Two Disks: You may choose JBOD, RAID 0 or RAID 1. With two disks you could create: · up to two JBOD volumes · one RAID 0 or RAID 1 volume · Choose JBOD for flexibility and maximum usage of disk space for data.

You can either add an additional disk to your one-disk JBOD volume (and you don't have to re-create shares, access rights etc.) or create a different JBOD volume (and create new shares, access rights and so on). NSA-220 User's Guide 63 Chapter 6 Storage Screens · Choose RAID 0 if performance matters more than data security. RAID 0 has the fastest read and write performance but if one disk fails you lose all your data on the volume. It has fast performance as it can read and write to two disks simultaneously.

Performance may matter more than data security to gamers for example. This method may also be acceptable for data that is already backed up somewhere else. · Choose RAID 1 if data security is more important than performance. Since RAID 1 mirrors data onto a second disk, you can recover all data even if one disk fails, but the performance is slower than RAID 0. 6.

3.2 Volume Status You (the administrator) can see the status of a volume in the Status, Storage > Overview or Storage > Volume screens. The NSA has the following classifications for the status of a volume: · · · · Healthy if all disks in the volume are OK and the file system is functioning properly. OK means your USB disk was formatted as NTFS. It is read-only for the NSA. Resync when you create or repair a RAID volume. Degraded when a volume is currently down, but can be fixed. Data access may be slower from a degraded volume, so it's recommended that you replace the faulty disk and repair the volume as soon as you can.



[You're reading an excerpt. Click here to read official ZYXEL](http://yourpdfguides.com/dref/2433994)

[NSA-220 user guide](http://yourpdfguides.com/dref/2433994)

<http://yourpdfguides.com/dref/2433994>