



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL NSA325. You'll find the answers to all your questions on the ZYXEL NSA325 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL NSA325
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Operating instructions ZYXEL NSA325
Instructions for use ZYXEL NSA325
Instruction manual ZYXEL NSA325

Media Server

NSA325

User's Guide



Default Login Details

Web Address	nsa325
User Name	admin
Password	1234

Firmware Version 4.3
Edition 1, 08/2011

www.zyxel.com

ZyXEL

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Manual abstract:

· Type [CTRL]+[F] to open the Adobe Reader search utility and enter a word or phrase. This can help you quickly pinpoint the information you require. You can also enter text directly into the toolbar in Reader. · To quickly move around within a page, press the [SPACE] bar. This turns your cursor into a "hand" with which you can grab the page and move it around freely on your screen. · Embedded hyperlinks are actually cross-references to related text.

· 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". 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.

4 Media Server User's Guide Document Conventions 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 Computer Notebook computer Server Television Firewall Router Switch Wireless Access Point Internet Media Server User's Guide 5 Safety Warnings Safety Warnings · · · · · 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.

· · · · · Your product is marked with this symbol, which is known as the WEEE mark. WEEE stands for Waste Electronics and Electrical Equipment. It means that used electrical and electronic products should not be mixed with general waste. Used electrical and electronic equipment should be treated separately. 6 Media Server User's Guide Contents Overview Contents Overview User's Guide

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447 18 Media Server User's Guide PART I User's Guide 19 20 CHAPTER 1 Getting to Know Your NSA 1.1 Overview This chapter covers the main features and applications of the NSA. Use the NSA to do the following. · Back up and share files on your network. · Use the COPY/SYNC button to copy or synchronize files between the NSA and USB devices like card readers, MP3 players, mass storage devices, and digital cameras without using a computer. · Have the NSA handle large file downloads. · Automatically download files from website feeds for convenient viewing. · Use the included media client software or a media client device like the DMA-2501 to play the video, music and photo files on the NSA. · Use the NSA's website to share files with remote users. · Use iTunes on your computer to play video and music files stored on the NSA.

· Share printers. · Automatically upload photo and video files to your FTP server, Flickr, and YouTube accounts. Figure 1 Example of the NSA in a Home Network NSA Above is the NSA in a home network. Users back up and share data on the NSA. The DMA-2501 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 mass storage device to the NSA. Media Server User's Guide 21 Chapter 1 Getting to Know Your NSA Place the NSA behind a firewall and/or IDP (Intrusion Detection and Prevention) device to protect it from attacks from the Internet. Note: See Chapter 21 on page 365 for a more detailed list of NSA features. Refer to the Quick Start Guide for hardware connections and how to install hard drives. Note: Turn off and disconnect the NSA before you install or remove the internal hard disk or disks.

· The NSA325 is a 2-bay model. · At the time of writing no 1-bay models support the firmware version documented in this User's Guide. 1.1.1 Smartphone App Use ZyXEL's zMedia app to play files and manage the NSA from your iOS version 3 or later device or Android version 2. 1 or later smartphone. 1.1.2 Hard Disks for 2-Bay Models The 2-bay NSA models have two internal hard disk bays. Install one or two SATA (Serial Advanced Technology Attachment) hard disks.

Note that both SATA hard disks are treated as internal or SATA volumes in the Storage > Volume screen (Section 8.3 on page 161). Any hard disk connected to the USB port(s) is considered an external or USB volume. 1.1.3 Hard Disks for 1-Bay Models The 1-bay NSA models have one internal hard disk bay and one external SATA (eSATA) port. This allows you to connect one internal SATA (Serial Advanced Technology Attachment) hard disk and one eSATA hard disk (optional). Initializing the internal hard disk configures it as a JBOD volume by default. JBOD stands for Just a Bunch Of Disk and in this storage method, all disk space is used for your data - none is used for backup. If you are not using an eSATA hard disk, JBOD is the only storage method you can use.

If you attach an eSATA (external SATA) hard disk, you can create a RAID 1 volume. RAID 1 allows data recovery in case your hard disk fails. To create a RAID 1 volume on the NSA, you must delete the JBOD volume created by the firmware. Refer to Section 8.3 on page 161 for the Storage screen where you can create the RAID 1 volume. The eSATA hard disk can also be configured as a JBOD or a PC Compatible Volume. See Section 8.1.1 on page 157 for more information on these storage methods. Note that both SATA and eSATA hard disks are treated as internal or SATA volumes in the Storage screen (Section 8.3 on page 161). Any hard disk connected to the USB port(s) is considered an external or USB volume. 22 Media Server User's Guide Chapter 1 Getting to Know Your NSA 1.1.4 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 10.10 on page 211 for more details on how to configure the copy/sync settings. 1.1.5 RESET Button Use the RESET button on the rear panel to restore the NSA's default settings.

Figure 2 The RESET Button Press 1 Beep 2 Beeps 5 more seconds Release to Reset IP Address Password Release to Clear All Settings · Press the RESET button until you hear one beep (after about two seconds), then release it. You will hear one more beep after you release the button. This resets the NSA's IP address and password to the default values. · Press the RESET button until you hear two beeps. After the second beep, continue pressing the button for five more seconds, then release it. You will hear three quick beeps after you release the button. This resets the NSA to the factory default configuration. All settings you have configured on the NSA, including IP address, password, user accounts, groups, and so on will be reset to the factory defaults. The reset process does NOT affect the volume settings, nor data stored on the NSA. You should periodically back up your configuration file to your computer (see Section 17.

5 on page 318 for details about managing the NSA's configuration file). You could then restore your configuration in the event that you or someone else reset the NSA to the factory defaults. Note: You should keep the NSA in a secure location in order to prevent unauthorized reset of the device. You may need to close and re-open the NAS Starter Utility to discover the NSA. This is because the NSA automatically re-acquires IP address information, so its IP address may change. If no IP address information is assigned, the NSA uses Auto-IP to assign itself an IP address and subnet mask. For example, you could connect the NSA directly to your computer. If the computer is also set to get an IP address automatically, the computer and the NSA will choose addresses for

themselves and be able to communicate. 1.1.

6 Removing a Hard Disk Turn off and disconnect the NSA before you remove an internal hard disk. Media Server User's Guide 23 Chapter 1 Getting to Know Your NSA If you need to remove a hard drive, use the hard disk removal handle included inside the front lid. Figure 3 Removing a Hard Disk 24 Media Server User's Guide CHAPTER 2 zMedia App 2.1 Overview Install ZyXEL's zMedia app from the Apple App Store, Android Market, or www.zyxel.com to play files and manage the NSA from your iOS device or Android smartphone. 2.2 Log into zMedia 1 Tap the zMedia icon to open the app and automatically search for NSAs on your network.



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Figure 4 zMedia App Icon 2 Select an NSA if you have more than one. Figure 5 zMedia Automatic Discovery Media Server User's Guide 25 Chapter 2 zMedia App 3 Use the admin user name and password to log in.

Figure 6 zMedia Login 2.3 File Browser Tap File Browser to look through and play files on the NSA. Figure 7 zMedia File Browser 26 Media Server User's Guide Chapter 2 zMedia App Tap a share to view its contents. Figure 8 zMedia Shares Media Server User's Guide 27 Chapter 2 zMedia App Tap a file to play or open it using your device's browser. Here are some examples. Figure 9 zMedia File Playback Photo Music Video Document 28 Media Server User's Guide Chapter 2 zMedia App 2.4 System Tap System to view configure the admin account password, view system status, shutdown (or restart), manage applications, or configure power schedule and management settings. Figure 10 zMedia System 2.4.1 Settings Set the admin account password.

Figure 11 zMedia Settings 2.4.2 Status · Tap System Information to see general NSA system information. · Tap Volume Status to view information about the internal and external volumes. · Tap S.M.A.R.T (this appears if the SMART package is installed) for hard disk health and performance details. Media Server User's Guide 29 Chapter 2 zMedia App · Tap Active Sessions to see which users are connected to the NSA.

Figure 12 zMedia Status 2.4.2.1 System Information An arrow indicates a newer firmware version is available. Tap the arrow to upgrade the firmware. Do not turn off the NSA while it is upgrading the firmware or you may render it unusable. Figure 13 zMedia System Information and Firmware Upgrade 30 Media Server User's Guide Chapter 2 zMedia App 2.4.2.2 Volume Status See Section 8. 2.1 on page 158 for details on replacing a disk in a degraded or down RAID volume and resynchronizing or recovering a RAID 1 Volume. Figure 14 zMedia Volume Status 2.4.2.3 S.M.A.R.T.

Self Monitoring, Analysis, and Reporting Technology (S.M.A.R.T) detects and reports the reliability of hard disks to help you anticipate possible disk failures. Figure 15 zMedia S.M.A.R.T.

Media Server User's Guide 31 Chapter 2 zMedia App 2.4.2.4 Active Sessions This shows the users connected to the NSA, whether it's a Windows/CIFS, web (web configurator), or FTP connection, when they last connected, and the IP address of the user's computer or device. Figure 16 zMedia Active Sessions 2. 4.3 Shutdown Tap the Restart button to reboot the NSA or the Shutdown button to turn it off. Figure 17 zMedia Shutdown 32 Media Server User's Guide Chapter 2 zMedia App 2.4.4 Applications Enable or disable individual applications.

Some applications only appear if the corresponding package is installed (see Chapter 11 on page 225). Tap the arrow next to Download Service or eMule to see task status details. Figure 18 zMedia Applications 2.4.4.1 Download Service and eMule Tap the arrow next to a category of download tasks to see the related tasks. Figure 19 zMedia Download Service and eMule Media Server User's Guide 33 Chapter 2 zMedia App Tap the arrow next to a download task for details. Tap a button to remove, pause, or resume the task. Download Service screens are shown here as an example. eMule screens are similar.

Figure 20 zMedia Download Service Active 2.4.5 Power Turn the power control schedule on or off and set how long to let the hard disks remain idle before putting them to sleep. Use the Web Configurator to configure the power control schedule (Section 17.3 on page 311). Figure 21 zMedia Shutdown 34 Media Server User's Guide CHAPTER 3 NAS Starter Utility 3.1 Overview This chapter describes the NAS Starter Utility. Use the NAS Starter Utility to find, set up, and manage the NSA as well as copy files to it and access the files on it. Make sure you have a backup of any existing data in the hard disk before installing it in the NSA. Using the initialization wizard formats the hard disk and deletes all data in the process.

There is a NAS Starter Utility available for Windows XP, Windows Vista, or Windows 7. Click Help to open a web help page about the NAS Starter Utility screens. NAS Starter Utility screens are shown here as they display with the Windows platform. Note: Refer to the Quick Start Guide for your NSA's hardware connections and the steps for installing the NAS Starter Utility. 3.

2 Starting the NAS Starter Utility · The NAS Starter Utility broadcasts a request packet when you first run it. Each NSA has an NAS Starter Utility Agent that always listens and responds to requests from the NAS Starter Utility. The NAS Starter Utility receives the response packet that contains information, such as host name, IP, and so on. · If you plan to use more than one NSA in your network, configure them with unique server names. This enables you to identify each NSA in the NAS Starter Utility screens.

3.3 NAS Seeker Screen Use this screen to view the NSAs in your network. The NSA's Server Name. The default is 'nsa' followed by the number of your model ('nsa325' for example). See Section 3.8 on page 41 for how to change it to a more recognizable one in your network. Media Server User's Guide 35 Chapter 3 NAS Starter Utility Start the NAS Starter Utility (click the icon in your Desktop or in Start > Programs > ZyXEL > NAS Starter Utility). The first time you open the NAS Starter Utility the discovery screen appears as follows. Figure 22 NAS Seeker The following table describes the labels in this screen. Table 1 NAS Seeker LABEL Connect Refresh Status Server Name DESCRIPTION Select a NSA and click this to connect to it.

Click this to refresh the screen. The NAS Starter Utility does not automatically refresh. This shows whether the NSA is Online, Unreachable, Configuring, or Config Failed. This is the server name you configured for the NSA. If you have more than one NSA in your network, it is recommended that you give each one a unique name for identification purposes. This is the current IP address of the NSA. IP Address 36 Media Server User's Guide Chapter 3 NAS Starter Utility

3.4 Main NAS Starter Utility Screen The main NAS Starter Utility screen displays after you select an NSA in the NSA Seeker screen. Figure 23 NAS Starter Utility Main Screen The following table describes the labels in this screen. Table 2 NAS Starter Utility Main Screen LABEL ? Configuration DESCRIPTION Click this to display the utility help.

Click this to run the initialization wizard (see the utility help for details), configure system settings (see Section 3.8 on page 41), or go to the NSA's Web Configurator login screen (see Section 4.3 on page 45). Click this to use the NSA Seeker screen (Section 3.3 on page 35) to find and connect to a different NSA on your network.



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This is the server name you configured for the NSA. If you have more than one NSA in your network, it is recommended that you give each one a unique name for identification purposes. This is the current IP address of the NSA. This is the NSA's unique physical hardware address (MAC). This shows the version of firmware the NSA is currently using.

This shows whether the NSA is Online, Uninitialized, Unreachable, Configuring, or Config Failed. This button displays if the NSA detects an installed hard disk that the NSA has not yet configured. Click the button to run the initialization wizard (see the utility help for details). NAS Seeker Server Name IP Address MAC Address Firmware Version Status Run Initialization Wizard Media Server User's Guide 37 Chapter 3 NAS Starter Utility Table 2 NAS Starter Utility Main Screen LABEL Capacity Media Player zPilot Network Drive Shared Folder BT Download Dropbox SMART WordPress DESCRIPTION This shows the NSA's total, in-use, and remaining storage capacity. Click this to go to the Home screens where you can play media files. See Section 4.4 on page 46 for details on the Home screen. Click this to launch the zPilot to drag and drop files onto the NSA. Click this to add the NSA as a network drive in your computer's Windows Explorer. Click this to log into the NSA's file directory in Windows Explorer.

*Click this to use the NSA to manage file downloads, including BitTorrent downloads. Click this to use your Dropbox account to move files to the NSA and have the NSA download *.torrent files. This displays when the NSA has the SMART package installed. Click this to view hard disk health and performance details. This displays when the NSA has the WordPress package installed. Click this to create and manage a blog or website. Use the NSA administrator credentials to log in. The administrator can then create accounts for other users. This displays when the NSA has the eMule package installed.*

Click this to use the NSA's eMule peer-to-peer (P2P) file-sharing console to download and share files from the Internet. See Section 11.13 on page 256 for details. This displays when the NSA has the Gallery package installed. Click this to use your NSA to host pictures.

You can upload images in your local computer or shares to this application. Use the NSA administrator account to log in to the Gallery console. This displays when the NSA has the pyLoad package installed. Click this to use pyLoad to have the NSA manage your downloads, including those from one-click hosting sites. See Section 11.

14 on page 271 for details. eMule Gallery pyLoad 3.4.1 Directory of the NAS Click Shared Folder to log into the NSA's file directory in Windows Explorer. Enter the administrator user name and password and click Login. Figure 24 Login 38 Media Server User's Guide Chapter 3 NAS Starter Utility The utility opens the NSA's directory in Windows Explorer. Figure 25 Directory 3.5 Import Files or Folders with zPilot In the main NAS Starter Utility screen click zPilot to be able to drag and drop files from your computer to the NSA. Enter the administrator user name and password and click Login. Figure 26 Login The zPilot icon displays.

Figure 27 zPilot Drag files onto the zPilot icon to move them to the NSA. zPilot automatically sorts music, photo, and video files into the Music, Photo, and Video folders. zPilot automatically sorts the types of media files listed in Table 125 on page 366 (except for the subtitles). Other types of files go to the Public Media Server User's Guide 39 Chapter 3 NAS Starter Utility folder. For folders of files you are prompted to choose the target destination. The zPilot icon shows the transfer rate. Figure 28 zPilot Showing Transfer Rate Double-click the zPilot icon to display status details about the file transfers. Select an entry and click Pause, Resume, or Remove to control the transfer. After the transfer finishes you can select the entry and click Open Destination Folder to see the file on the NSA. Click Clear Completed to clear completed transfers from the list.

Figure 29 zPilot Transfer Details 3.6 Network Drive In the main NAS Starter Utility screen click Network Drive to add the NSA as a network drive in your computer's Windows Explorer. Enter your user name and password and click Login to be able to add the NSA's shares to which you have access as network drives. Otherwise select Guest and click Login to be able to add the NSA's public shares as network drives. Figure 30 Login Select a share on the NSA and the drive letter on your computer to which you want to map it.

The shares that each user can select to map depends on the user's permissions. For example, if share1 is private to user1, then only user1 is allowed to map share1. The table displays the NSA shares that are already mapped to drive letters on your computer. After you click Apply you can see the 40 Media Server User's Guide Chapter 3 NAS Starter Utility new drive in Windows Explorer (My Computer) where you can access and use it like your computer's other drives. Figure 31 Network Drive 3.

7 Manage the Device In the main NAS Starter Utility screen click Configuration > Manage the Device to log into the NSA's administration screens where you can manage the NSA. Enter the administrator user name and password and click Login. Figure 32 Login See Section 4.5 on page 58 for more on the administration screens. 3.8 Configure System Settings Use these screens to be able to change the NSA's server name, time zone, PPPoE, IP address, subnet mask, default gateway, or DNS settings. Media Server User's Guide 41 Chapter 3 NAS Starter Utility Click Configuration > System Setting in the main utility screen to display the following screen. Figure 33 NAS Starter Utility > Configuration > System Setting The following table describes the labels in this screen. Table 3 NAS Starter Utility > Config LABEL Server Name DESCRIPTION Specify a name to uniquely identify the NSA on your network. 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 case sensitive. Choose the time zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT). Click this if your Internet connection requires you to enter a user name and password to connect to the Internet. Enter your user name and password Select this if the NSA is automatically assigned an IP address from the ISP or a DHCP server in your network. Select this if you want to assign the NSA a fixed IP address, subnet mask and default gateway. Time Zone Enable PPPoE Connection Automatically get IP address Manually assign IP address Note: Do not configure an IP address that is already in use in your network. This results to a network IP address conflict and makes the NSA inaccessible.



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Use from DHCP server DNS Domain Name System (DNS) is for mapping a domain name to its corresponding IP address and vice versa. Select this if the NSA is automatically given DNS information from the ISP or a DHCP server in your network.

Domain Name System (DNS) is for mapping a domain name to its corresponding IP address and vice versa. Select Use from DHCP server if the NSA is automatically given DNS information from the ISP or a DHCP server in your network. Select Manually assign DNS server if you were given specific IP address(es) of the DNS server(s). Enter the primary and secondary DNS in the corresponding fields. 42 Media Server User's Guide CHAPTER 4 Web Configurator Basics 4.

I Overview 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 7.0, Mozilla Firefox 3.6, Safari 5, Google Chrome 10, 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). 4.2 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). Media Server User's Guide 43 Chapter 4 Web Configurator Basics 4.2.1 Access the NSA Via NAS Starter Utility If you don't know the IP address of the NSA, use the NAS Starter Utility to find it. Refer to the Quick Start Guide for how to install and run the NAS Starter Utility.

See Chapter 3 on page 35 for more information on the NAS Starter Utility. Figure 34 NAS Starter Utility Main Screen 4.2.2 Web Browser Access Configure the server name of your NSA using the Network Configuration screen (Section 3.8 on page 41) of the NAS Starter Utility. Open your browser and type in the server name of the NSA. The default is 'nsa' followed by the number of your model ('nsa325' for example). Figure 35 NSA URL nsa325 44 Media Server User's Guide Chapter 4 Web Configurator Basics 4.3 Login The default username and password are 'admin' and '1234' respectively. Enter your username and password.

See Chapter 14 on page 293 for how to create other user accounts. If you use the option to stay logged in for two weeks (assuming you do not log out), make sure you keep your computer secure from unauthorized access. Click User Login to go to the Home screens where you can play media files. Click Administrator Login to go to the advanced administration screens. Figure 36 NSA Login Screen Media Server User's Guide 45 Chapter 4 Web Configurator Basics If you have not done so yet, 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 37 Change Password Screen 4.4 Home Screens The Home screen after you log in using User Login. Figure 38 Home Note: If you did not select the option to stay logged in for two weeks when you logged in, 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.

46 Media Server User's Guide Chapter 4 Web Configurator Basics The main Home screen displays icons for the various features you can access. Table 4 Main Home Screen Icons ICON DESCRIPTION Use Music, Photo, and Video to play and organize your music, picture, and video files. Use Favorite to create and edit playlists. Use File Browser to see your files in a tree-folder structure. Administrators can use Application Zone to install, access, and manage the NSA's applications. Use System to edit general system settings or log into the administrator advanced configuration screens. Note: Your browser may need Windows Media Player and VLC plugins installed to play music and video files. To get the VLC plugins, you have to download and install VLC (use the .exe file). To install a VLC plugin for Firefox, when you install VLC, you have to select the Mozilla plugin option.

To display your photos as a 3-D wall for quick browsing, install the CoolIris plugin. Current VLC plugins may not support srt file format subtitles when playing videos. The icons at the top-right of the screen are visible from most screens. Use them to navigate between the screens and menus. The following table describes the icons. Table 5 Global Home Labels and Icons LABEL/ICON Home Help Logout DESCRIPTION Click this to return to the Home screen.

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. Media Server User's Guide 47 Chapter 4 Web Configurator Basics Here are some Home screen descriptions. A music screen is shown here as an example.

Other screens work in a similar way. Figure 39 Music Screen B A C D This table describes common labels in the Home media screens. Not every item displays in every screen. Table 6 Home Media Screens LABEL A B C D DESCRIPTION Click a letter to go to the first item starting with that letter. View files. Double-click an item to play it. Shows which page is displaying and the total number of pages of entries. Click an arrow or type a number to go to another page of entries. Select the sorting criteria: Artist - Sort music by artist. All - All of the menu's files display here.

Genre - Sort music by category. Folder - List the folders containing music files. Album - List the identified music albums. Current Playlist - Show the playing and queued songs. The NSA categorizes files into genres and albums according to the information stored in your files. Files may not appear in the proper folders if they have missing, incorrect or incomplete information. Thumbnail Click this to view the files as thumbnails. 48 Media Server User's Guide Chapter 4 Web Configurator Basics Table 6 Home Media Screens LABEL List Play Delete Rename DESCRIPTION Click this to view the files as a list. Click this to play the currently selected file. You can also double-click a file to play it.

Select an item and click Delete to remove it. Select an item and click Rename to change its name. Note: When you change a file name, make sure you keep the file extension unchanged. Add to Current Playlist Add to Playlist Search Refresh Now Playing Click this to add the selected music file to the currently playing playlist. Click this to add the selected music file to a playlist. Click this to look for a file or folder by name. Click this to update the display in the screen. This link is available when a song is playing.



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Click it to see details about the song that is currently playing. 4.

4.1 Now Playing (Music) A Now Playing link displays when a song is playing. Click it to display a panel like the following. This screen displays the name of the current song and its play progress and lets you control the playback. Figure 40 Now Playing Media Server User's Guide 49 Chapter 4 Web Configurator Basics 4.

4.2 Exif and Google Maps (Photos) Click a photo's EXIF button to display or hide the photo's Exchangeable image file format (Exif) data. Figure 41 Exif Information If a photo's Exif data includes GPS location data, click the latitude or longitude link to display the location in Google Maps. Click Clear to delete the markers of other photos and only display the current photo's marker. Figure 42 Google Maps 4.

4.3 Slideshow and CoolIris (Photos) In a Photo menu click the SlideShow button to display the menu's files as a slideshow. Move your cursor over the slideshow's screen to display full screen, previous, pause, and next buttons for controlling the slideshow. 50 Media Server User's Guide Chapter 4 Web Configurator Basics Note: Your browser must have the Flash Player plug-in installed to view slideshows. Figure 43 Slideshow When the CoolIris plugin is installed in your browser, click the Launch CoolIris button to display your photos as a 3-D wall for quick browsing. 4.4.4 Favorite Use the Favorite menu to manage your playlists. 4.4.

4.1 Shared Playlist Use Favorite > Shared Playlist to view and play playlists that you created externally (in iTunes, Windows Media Player, VLC media player, or Winamp for example) and saved to the NSA. When using zPilot to move files to the NSA, playlists are automatically put into the music share. Media Server User's Guide 51 Chapter 4 Web Configurator Basics 4.4.4.2 My Favorite Use Favorite > My Favorite to create, edit, and play playlists. These playlists are specific to the NSA and cannot be used in external music players. Figure 44 Favorite > My Favorite This table describes labels in this menu.

Table 7 Favorite > My Favorite LABEL New Edit Delete All DESCRIPTION Click this to create a new playlist.

Double-click a playlist or select it and click Edit to go to a screen where you can remove songs from the playlist. Within a playlist click Delete All to remove all of the playlist's songs. 4.4.5 File Browser Click File Browser to open the following screen.

Use the file browsing screens to play, open, upload, and download files. 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. · A folder icon with a hand indicates a share.

52 Media Server User's Guide Chapter 4 Web Configurator Basics · The administrator owns and manages the public shares. · Double-click a media file to open it. Double-click other types of files to be able to save them. · 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. · Drag and drop files to open a screen that lets you choose whether to copy or move them. · You can upload files of up to 2 GB in size. · You can download individual files of up to 4 GB in size with Mozilla Firefox and Internet Explorer 7 and later or up to 2 GB in size with Internet Explorer 6. Figure 45 File Browser The following table describes the labels in this screen.

Table 8 File Browser LABEL Up Name Size Last Modified Create New Folder DESCRIPTION Click this to go to the next higher layer in the share's folder tree. This column identifies the names of folders and files in the share. 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. 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). Click this to open a screen where you can create a new folder within the share. Specify a name to identify the folder.

See Section 4.4.

6 on page 55 for more information on folder names. Click Apply to create a folder or click Cancel to exit this screen. Media Server User's Guide 53 Chapter 4 Web Configurator Basics Table 8 File Browser (continued) LABEL Configure Share Upload DESCRIPTION Select a share and click this link to open a screen where you can see and configure share management details. Click this to open the following screen where you can add files to the share. Use the Browse button to locate your file/s and click Apply to upload the file.

Click Cancel to close this screen. Note: Do not refresh the screen while an upload is going on. Download Select a file and click this to save the file to your computer. Note: Do not refresh the screen while a download is going on. Restore When you are in a recycle bin folder, select a folder or file and click this to restore it.

4.4.5.1 Configure Share Screen In the File Browser screen, select a share and click Configure Share to open the following screen where you can see and configure share management details. Figure 46 File Browser > Configure Share 54 Media Server User's Guide Chapter 4 Web Configurator Basics The following table describes the labels in the this screen. Table 9 File Browser > Configure Share LABEL Share Name DESCRIPTION Configure a name to identify this share. Type a share name from 1 to 239 single-byte (no Chinese characters allowed for example) ASCII characters. The name cannot be the same as another existing local share. See Section 4.4.

6 on page 55 for more information on share names. This is not configurable for the NSA's default admin, music, photo, public, and video shares. This shows the volume the share is on. It is read-only. Select the administrator or user account that is to own (manage) this share. The share owner controls access rights to the share. This is not configurable for the NSA's default admin and public shares. 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 Home screens.



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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 readonly access to the share, regardless of what you configure here. Select Keep it private 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 Apply Cancel Click this to save your changes.

Click this to return to the previous screen without saving. 4.4.6 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. Media Server User's Guide 55 Chapter 4 Web Configurator Basics · 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 239 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. 4.4.

7 Application Zone Administrators can click Application Zone to go to a screen where you can enable or disable various applications for file sharing and downloading. Figure 47 Application Zone The following table describes the labels in the this screen. Table 10 Application Zone LABEL Name Description Management Page Enable DESCRIPTION This is the name of the application. This is a brief description of the application. See Chapter 10 on page 181 for more information.

Click this link to go the application's management page where you can configure settings for it. See Chapter 10 on page 181 for more information. Select a disabled application and click this to turn on the application. Some applications are always enabled and cannot be disabled. 56 Media Server User's Guide Chapter 4 Web Configurator Basics Table 10 Application Zone (continued) LABEL Disable DESCRIPTION Select an enabled application and click this to turn off the application.

Select the Flickr or Youtube Uploadr entry and click this to cancel all uploading. Some applications are always enabled and cannot be disabled. Select the Flickr or Youtube Uploadr entry and click this to pause current uploading. Resume will resume current uploading. Select the Flickr or Youtube Uploadr entry and click this to resume current uploading. Pause Resume 4.4.8 System Settings Click System > Settings to open the following screen. Use this screen to change general settings and an account password. Figure 48 System > Settings The following table describes the labels in this screen.

Table 11 System > Settings LABEL Double Click Behavior Setting DESCRIPTION Select Replace current playlist and start to play to have double clicking a song cause the NSA to immediately stop any currently playing song and start playing the double-clicked song. Select Append to current playlist to have double clicking a song add a song to the end of the current playlist. Slide Effect Enable the Ken Burns effect to have the NSA automatically pan and zoom photos in slideshows. Disable it to display photos in slideshows normally. Media Server User's Guide 57 Chapter 4 Web Configurator Basics Table 11 System > Settings (continued) LABEL Slide Interval Video Playback DESCRIPTION Select how long to display each image in a slideshow before changing to the next.

Select Play Next to play the rest of the video files in a folder. So for example, a folder has video files 1~10 and you play video 3. When video 3 finishes the device continues playing the rest of the videos in the folder (4~10). It does not loop back and play videos 1 and 2. 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 single-byte (no Chinese characters allowed for example) ASCII characters. You must type the exact same password that you just typed in the above field. Select the web configurator language from the drop-down list box.

This link appears when you are logged in as the administrator. Click it to open the advanced administration screens. See Section 4.5 on page 58 for more on the advanced administration screens. Click this to save your changes.

Click this to refresh the screen. Click this to exit the screen without saving your changes. Account Name Old Password New Password Password (Confirm) Language Go to system administration page Apply Reset Cancel 4.5 Administration Screens The System > Administration link displays when you log in as the administrator. Click System > Administration in the Home screen to open the advanced administration screens. 58 Media Server User's Guide Chapter 4 Web Configurator Basics The Status screen is the first advanced administration screen that displays. Figure 49 Status 1 2 3 4 4.5.1 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 12 Global Labels and Icons LABEL/ICON Language Help About Home Logout DESCRIPTION Select the web configurator language from the drop-down list box. Click this to open web help specific to the screen you are in. Click this to view the model name, firmware version and copyright. Click this to return to the Home screens. 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.



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Media Server User's Guide 59 Chapter 4 Web Configurator Basics 4.5.2 Navigation Panel The navigation panel on the left of the Web Configurator 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 table describes the navigation panel screens. Table 13 Screens Summary LINK Status System Setting Storage Server Name Date & Time Volume 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. Assign the NSA a dynamic or static IP address and DNS information.

Configure your Internet gateway to allow access from the WAN (Internet) to services on the NSA.

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. Have the NSA handle large file downloads. Let people use a web browser to access files in shares without logging into the Home 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. Copy or synchronize files between a USB device and the NSA. Set up more useful applications in your NSA. The NSA can download multiple packages/files at once and automatically goes through all the installation steps.

Upload files in selected shares to your Flickr and/or YouTube accounts. Upload files in selected shares to FTP servers. Use your Dropbox account to move files to the NSA and have the NSA download *.torrent files. Use this to configure the NSA to accept syslog logs from syslog clients. Use this to configure the NSA to accept log files from TFTP clients. Use this to use the NSA's eMule peer-to-peer (P2P) file-sharing console to download and share files from the Internet. Network TCP/IP UPnP Port Mapping PPPoE Applications FTP Server Media Server Download Service Web Publishing Broadcatching Print Server

Copy/Sync Button Package Auto Upload Flickr/YouTube Auto Upload FTP Uploadr Dropbox Syslog Server TFTP Server eMule 60 Media Server User's Guide Chapter 4 Web Configurator Basics Table 13 Screens Summary (continued) LINK Sharing SCREEN Users Groups Shares FUNCTION 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 and have the NSA turn itself off and on or reboot according to the schedules you configure. View the NSA's logs and configure how you want to receive the log reports.

Back up and/or restore the NSA configuration file. Configure HTTPS and the NSA's SSL certificate. Upload/upgrade 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. Maintenance Power Log Configuration SSL FW Upgrade Shutdown Logout 4.5.3 Main Window The main window (3 rest of this document.) shows the screen you select in the navigation panel. It is discussed in the The Status screen is the first administration screen to display. See Chapter 6 on page 149 for more information about the Status screen. 4.5.4 Status Messages The message text box at the bottom of the screen (4 the NSA.

) displays status messages as you configure 4.5.5 Common Screen Icons The following table explains some icons that appear in several configuration screens. Table 14 Common Configuration Screen Icons ICON DESCRIPTION Edit Click this to go to a screen where you can change the configuration settings of an entry. Delete Click this to delete an entry from the list. Edit Click this to jump to related item's configuration screen. Refresh Click this to refresh the data for the field or value with which it is associated. Media Server User's Guide 61 Chapter 4 Web Configurator Basics Table 14 Common Configuration Screen Icons (continued) ICON DESCRIPTION User See the chapter on user accounts for detailed information on variants of this icon. Share See the chapter on shares for detailed information on variants of this icon. Healthy This represents a healthy volume.

Degraded This represents a degraded RAID 1 volume. Replace the faulty disk. If the replacement disk does not contain any partition, 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.

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. 4.

5.6 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.

Session Example (Windows) 62 Media Server User's Guide CHAPTER 5 Tutorials 5.1 Overview This chapter provides tutorials that show how to use the NSA.

· Windows 7 Network, see page 63 · Windows 7 Network Map, see page 67 · Playing Media Files in Windows 7, see page 70 · Windows 7 Devices and Printers, see page 70 · Creating a Volume in a 2-Bay NSA, see page 73 · Creating a Volume in a 1-Bay NSA, see page 75 · Deleting a Volume, see page 82 · File Sharing Tutorials, see page 83 · Download Service Tutorial, see page 92 · Broadcatching Tutorial, see page 107 · Copy and Flickr Auto Upload Tutorial, see page 113 · FTP Uploadr Tutorial, see page 114 · Web Configurator's Security Sessions, see page 117 · Using FTPES to Connect to the NSA, see page 130 · Using a Mac to Access the NSA, see page 131 · How to Use the BackupPlanner, see page 134 5.



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