



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL NSA 310. You'll find the answers to all your questions on the ZYXEL NSA 310 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 310**  
**User guide ZYXEL NSA 310**  
**Operating instructions ZYXEL NSA 310**  
**Instructions for use ZYXEL NSA 310**  
**Instruction manual ZYXEL NSA 310**

## Media Server

NSA210, NSA221, NSA310, NSA320

### User's Guide

#### Default Login Details

Web Address	nsa320 nsa310 nsa221 nsa210
User Name	admin
Password	1234

Firmware Version 4.21  
Edition 2, 04/2012

[www.zyxel.com](http://www.zyxel.com)

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<http://yourpdfguides.com/dref/4362890>

*Manual abstract:*

*@@READ CAREFULLY BEFORE USE. KEEP THIS GUIDE FOR FUTURE REFERENCE. Disclaimer This is a User's Guide for a series of products. Not all products support all firmware features. @@@@It contains information on setting up your network and configuring for Internet access. • Web Configurator Online Help The embedded Web Help contains descriptions of individual screens and supplementary information. 2 Media Server User's Guide Contents Overview Contents Overview User's Guide ....*

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..... 559 Media Server User's Guide 13 Table of Contents 14 Media Server User's Guide P ART I User's Guide 15 16 C HAPTER 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. • Share files between computers on your network. • Back up files from your computers to the NSA. • 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. • Play the NSA's video, music and photo files on your computers using the included media client software. • Play the NSA's video, music and photo files on hardware-based media clients like the DMA-2501. • 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 Media Server User's Guide 17 Chapter 1 Getting to Know Your 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. 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 19 on page 351 for a more detailed list of NSA features. Refer to the Quick Start Guide for hardware connections and how to install and remove hard drives from the disk trays. Note: Turn off and disconnect the NSA before you install or remove the internal hard disk or disks.

• The NSA320 and NSA221 are 2-bay models. • The NSA310 and NSA210 are 1-bay models. 1.1.1 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 7.3 on page 155). Any hard disk connected to the USB port(s) is considered an external or USB volume. 1.

1.2 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 7.

3 on page 155 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 7.1.1 on page 151 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 7.3 on page 155). Any hard disk connected to the USB port(s) is considered an external or USB volume. 18



*2.1 NSA210 Firmware Before you can start using your NSA210, you have to install the firmware on the hard disk. Use the NAS Starter Utility to do this. See Chapter 2 on page 21 for more information on the NAS Starter Utility. Figure 2 NSA210 Hard Disk Partition FW Your NSA210's firmware is installed in the hard disk. Hard disk 1.1.3 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 9.10 on page 205 for more details on how to configure the copy/sync settings.*

*1.1.4 RESET Button Use the RESET button on the rear panel to restore the NSA's default settings. Figure 3 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 15.5 on page 304 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. Media Server User's Guide 19 Chapter 1 Getting to Know Your NSA Note: You should keep the NSA in a secure location in order to prevent unauthorized reset of the device.*



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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. 20 Media Server User's Guide CHAPTER 2 NAS Starter Utility 2.1 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.

2.2 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. 2.3 NAS Discovery 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 ('nsa320' for example).

See Section 2.9 on page 35 for how to change it to a more recognizable one in your network. Media Server User's Guide 21 Chapter 2 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 4 NAS Discovery The following table describes the labels in this screen. Table 1 NAS Discovery LABEL Refresh Hostname DESCRIPTION Click this to refresh the screen. The NAS Starter Utility does not automatically refresh. 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. If you have several NSAs connected to your computer/network, hover your mouse over the host name to view the details of each device.

A box pops up containing details about the NSA. Hostname shows the NSA's configured server name. IP shows the NSA's current IP address. Model ID shows the NSA's model name. Firmware Version shows the version of firmware the NSA is currently using. Status shows whether the NSA is Online, Unreachable, Configuring, or Config Failed. 22 Media Server User's Guide Chapter 2 NAS Starter Utility 2.4 Main NAS Starter Utility Screen The main NAS Starter Utility screen displays after you select a NSA in the NSA Discovery screen. Figure 5 NAS Starter Utility Main Screen The following table describes the labels in this screen. Table 2 NAS Starter Utility Main Screen LABEL Discovery bar Name DESCRIPTION Click this to use the NSA Discovery screen (Section 2.3 on page 21) to find and select the NSA on your network to which you want to connect. The bar shows the NSA's in-use and remaining storage capacity. 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 shows the version of firmware the NSA is currently using.

This is the current IP address of the NSA. This shows whether the NSA is Online, Unreachable, Configuring, or Config Failed. Click this to use the NSA Discovery screen (Section 2.3 on page 21) to find and select the NSA on your network to which you want to connect. Click this to launch 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. Firmware IP address Status NAS Discovery Import files or folders with zPilot Add a network drive to My Computer Manage the device Play Media Files from Home Screen Show the directory of the NSA Click this to log into the advanced administration screens. See Section 3.5 on page 52 for details on the administration screens. Click this to enjoy your media files through your web browser. See Section 3.4 on page 40 for details on the Home screen. Click this to open the NSA's file directory in Windows Explorer. See Section 2.5.

3 on page 32 for details. Media Server User's Guide 23 Chapter 2 NAS Starter Utility Table 2 NAS Starter Utility Main Screen LABEL Run the Initialization Wizard Configure network setting DESCRIPTION Click this to set up the NSA for the first time. See Section 2.5 on page 24 for details. Click this to change the NSA network settings such as the NSA's name, IP address, subnet mask, default gateway, DNS, or PPPoE. See Section 2.9 on page 35 for details. 2.5 Initialization Wizard Use these screens to set up the NSA for the first time. The wizard will configure the NSA's basic settings.

For the NSA210, it also installs the firmware on the hard disk. Click Run the Initialization Wizard in the main utility screen to display the following screen. You must log in using an admin account. The default administrator username is 'admin' and the default password is '1234' and click Next. Figure 6 Initialization Wizard Welcome 24 Media Server User's Guide Chapter 2 NAS Starter Utility Choose Default Configuration (recommended) or manual configuration.

Use the manual option if you need to name the NSA to configure specific network settings. Click Next. Figure 7 Initialization Wizard: Wizard Type 2.5.1 Default Configuration 1 The NAS Starter Utility checks the Internet connection.

Figure 8 Check Network Connection 2 Type a new administrator password (and retype it to confirm). If you do not want to change the administrator password, you can leave the fields blank and just click Next. Figure 9 Change Admin Password Media Server User's Guide 25 Chapter 2 NAS Starter Utility 3 Specify usernames and passwords for the individuals you want to be able to access the NSA. Figure 10 Create User Accounts 4 Check your settings. If they are OK, click Next. Otherwise click Back. If you want to change anything other than the user accounts, keep clicking Back until you can change the wizard type to manual.



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Figure 11 Confirm Settings 5 Wait while the NAS Starter Utility configures the NSA. Figure 12 Setting the NAS 26 Media Server User's Guide Chapter 2 NAS Starter Utility After the NAS Starter Utility finishes configuring the NSA, you can click Show the directory of the NAS to see the NSA's shares (see Section 2.5.

3 on page 32) or click Finish to return to the main NAS Starter Utility screen (see Section 2.4 on page 23). Figure 13 Setting the NAS 2.5.2 Manual Configuration 1 Set up the NSA's basic network configuration first. Figure 14 Setup Network The following table describes the labels in this screen. Table 3 NAS Starter Utility > Config LABEL Get IP automatically from DHCP server Assign IP Manually DESCRIPTION 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. 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.

Media Server User's Guide 27 Chapter 2 NAS Starter Utility Table 3 NAS Starter Utility > Config LABEL Use DNS server from DHCP server Assign DNS server manually DESCRIPTION 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. If you were given specific IP address(es) of the DNS server(s), select this and enter the primary and secondary DNS in the corresponding fields. 2 If your Internet connection requires you to enter a user name and password to connect to the Internet, enter them here and click Next. If you do not need to enter a user name and password to connect to the Internet, click Skip.

Figure 15 PPPoE 3 The NAS Starter Utility checks the Internet connection. Figure 16 Check Network Connection 28 Media Server User's Guide Chapter 2 NAS Starter Utility 4 Type a new administrator password (and retype it to confirm) and click Next. If you do not want to change the administrator password, you can leave the fields blank and just click Next. Figure 17 Change Admin Password 5 Specify a name to uniquely identify the NSA on your network. Choose the time zone of your location.

This sets the time difference between your time zone and Greenwich Mean Time (GMT). Figure 18 Create User Accounts Media Server User's Guide 29 Chapter 2 NAS Starter Utility 6 Select how to configure the hard disks. Figure 19 Choose HDD Configuration With only one hard disk installed, just click Next. If you have two hard disks installed choose one of the following: • RAID 1: Use this to mirror all data on one disk to the other disk to protect against data loss. • Individual Disks: Use this if you want maximum storage capacity and/or you have other means of protecting your data. This creates two JBOD volumes (with one disk in each), a failure of one disk (volume) should not affect the other volume (disk). • JBOD: Use this if you want maximum storage capacity and/or you have other means of protecting your data. This combines the two physical disks into a single virtual one, so they appear as a single large disk. • RAID 0: Use this if you want maximum speed for your disks, and/or you have other means of protecting your data. RAID 0 has the fastest read and write performance but if one disk fails you lose all your data from both disks.

7 This screen lists the shares the NAS Starter Utility creates on the NSA by default. Select the ones you want to use as network drives in Windows Explorer. Figure 20 Connect Network Drives 30 Media Server User's Guide Chapter 2 NAS Starter Utility 8 Specify usernames and passwords for the individuals you want to be able to access the NSA and click Next. Figure 21 Create User Accounts 9 If the settings are OK, click Next. Otherwise click Back. If you want to change anything other than the user accounts, keep clicking Back until you can change the wizard type to manual. Figure 22 Confirm Settings 10 Wait while the NAS Starter Utility configures the NSA. Figure 23 Setting the NAS Media Server User's Guide 31 Chapter 2 NAS Starter Utility After the NAS Starter Utility finishes configuring the NSA, you can click Show the directory of the NAS to see the NSA's shares (see Section 2.5.3 on page 32) or click Finish to return to the main NAS Starter Utility screen (see Section 2.

4 on page 23). Figure 24 Setting the NAS 2.5.3 Directory of the NAS Enter the administrator user name and password and click Login. Figure 25 Login The utility opens the NSA's directory in Windows Explorer.

Figure 26 Directory 32 Media Server User's Guide Chapter 2 NAS Starter Utility 2.6 Import Files or Folders with zPilot In the main NAS Starter Utility screen click Import files or folders with 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 27 Login The zPilot icon displays. Figure 28 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 can automatically sort the types of media files listed in Table 122 on page 352 (except for the subtitles). Other types of files go to the Public folder. For folders of files you are prompted to choose the target destination. The zPilot icon shows the transfer rate. Figure 29 zPilot Showing Transfer Rate Double-click the zPilot icon to display the NAS Starter Utility screen with status details about the file transfers. Click the "x" button next to a file entry to stop transferring the file. Click Clean Up to clear completed transfers from the list. Figure 30 zPilot Showing Transfer Rate Media Server User's Guide 33 Chapter 2 NAS Starter Utility 2.7 Add a Network Drive to My Computer In the main NAS Starter Utility screen click Add a network drive to My Computer 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 31 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 OK you can see the new drive in Windows Explorer (My Computer) where you can access and use it like your computer's other drives. Figure 32 Network Drive Mapping 2.8 Manage the Device In the main NAS Starter Utility screen click Manage the Device to log into the NSA's administration screens where you can manage the NSA.



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34 Media Server User's Guide Chapter 2 NAS Starter Utility Enter the administrator user name and password and click Login.

Figure 33 Login See Section 3.5 on page 52 for more on the administration screens. 2.9 Configure Network Setting Use these screens to change the NSA network settings such as the NSA's name, IP address, subnet mask, default gateway, DNS, or PPPoE. Click Configure network setting in the main utility screen to display the following screen.

Figure 34 NAS Starter Utility > Configure network setting The following table describes the labels in this screen. Table 4 NAS Starter Utility > Config LABEL NAS 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. 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. Get IP automatically from DHCP server Assign IP Manually 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.

Media Server User's Guide 35 Chapter 2 NAS Starter Utility Table 4 NAS Starter Utility > Config LABEL Use DNS server from DHCP server Assign DNS server manually PPPoE DESCRIPTION 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. If you were given specific IP address(es) of the DNS server(s), select this and enter the primary and secondary DNS in the corresponding fields. Click this if your Internet connection requires you to enter a user name and password to connect to the Internet. If your Internet connection requires you to enter a user name and password to connect to the Internet, select Enable PPPoE Connection and enter your user name and password. Figure 35 PPPoE 36 Media Server User's Guide C HAPTER 3 Web Configurator Basics

3.1 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). 3.2 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 37 Chapter 3 Web Configurator Basics 3.2.1 Access the NSA Via NAS Starter Utility If you don't know the IP address of the NSA, then use the NAS Starter Utility's Play Media Files from Home Screen link to find it. Refer to the Quick Start Guide for how to install and run the NAS Starter Utility. See Chapter 2 on page 21 for more information on the NAS Starter Utility.

Figure 36 NAS Starter Utility Main Screen 3.2.2 Web Browser Access Configure the server name of your NSA using the Network Configuration screen (Section 2.9 on page 35) 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 ('nsa320' for example). Figure 37 NSA URL 38 Media Server User's Guide Chapter 3 Web Configurator Basics 3.3 Login The default username and password are 'admin' and '1234' respectively. Enter your username and password. See Chapter 12 on page 279 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 38 NSA Login Screen Media Server User's Guide 39 Chapter 3 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 39 Change Password Screen 3.4 Home Screens The Home screen after you log in using User Login. Figure 40 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. 40 Media Server User's Guide Chapter 3 Web Configurator Basics The main Home screen displays icons for the various features you can access. Table 5 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 6 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 41 Chapter 3 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 41 Music Screen B A C D This table describes common labels in the Home media screens. Not every item displays in every screen. Table 7 Home Media Screens LABEL A B C D DESCRIPTION Click a letter to go to the first item starting with that letter. View files.



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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. 42 Media Server User's Guide Chapter 3 Web Configurator Basics Table 7 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. Click it to see details about the song that is currently playing. 3.4.1 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 42 Now Playing Media Server User's Guide 43 Chapter 3 Web Configurator Basics 3.4.

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 43 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 44 Google Maps 3.4.3 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. 44 Media Server User's Guide Chapter 3 Web Configurator Basics Note: Your browser must have the Flash Player plug-in installed to view slideshows. Figure 45 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. 3.

4.4 Favorite Use the Favorite menu to manage your playlists. 3.4.4.

I 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 45 Chapter 3 Web Configurator Basics 3.4.4.

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 46 Favorite > My Favorite This table describes labels in this menu. Table 8 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. 3.4.5 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. 46 Media Server User's Guide Chapter 3 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 47 File Browser The following table describes the labels in this screen. Table 9 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 the following screen where you can create a new folder within the share. Specify a name to identify the folder. See Section 3.4.6 on page 49 for more information on folder names. Click Apply to create a folder or click Cancel to exit this screen. Media Server User's Guide 47 Chapter 3 Web Configurator Basics Table 9 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. 3.4.5.1 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 48 File Browser > Configure Share 48 Media Server User's Guide Chapter 3 Web Configurator Basics The following table describes the labels in the this screen.



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Table 10 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 3.4.6 on page 49 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. 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 owner to allow only the share owner to read files in the share, delete files in the share and save files to the share. Select Make it public to allow anyone (with or without a user account on the NSA) to read files in the share, delete files in the share and save files to the share. Select Advanced to select which individual users can read the share's files, which users can delete the share's files, and which users are blocked from doing either. Volume Make this share owned by Enable This Share Enable Recycle Bin Publish this share to Media Server Publish this share to Web Share Access Apply Cancel Click this to save your changes. Click this to return to the previous screen without saving. 3.4.6 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 49 Chapter 3 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. 3.4.7 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 49 Application Zone The following table describes the labels in the this screen. Table 11 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 9 on page 175 for more information. Click this link to go the application's management page where you can configure settings for it.

See Chapter 9 on page 175 for more information. Select a disabled application and click this to turn on the application. Some applications are always enabled and cannot be disabled. 50 Media Server User's Guide Chapter 3 Web Configurator Basics Table 11 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 3. 4.8 System Settings Click System > Settings to open the following screen. Use this screen to change general settings and an account password. Figure 50 System > Settings The following table describes the labels in this screen. Table 12 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 51 Chapter 3 Web Configurator Basics Table 12 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.

@@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 3.5 on page 52 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.



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Account Name Old Password New Password Password (Confirm) Language Go to system administration page Apply Reset Cancel 3.5 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. The Status screen is the first advanced administration screen that displays. Figure 51 Status 1 2 3 4 52 Media Server User's Guide Chapter 3 Web Configurator Basics 3.

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 13 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. 3.

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 14 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. Network TCP/IP UPnP Port Mapping PPPoE Media Server User's Guide 53 Chapter 3 Web Configurator Basics Table 14 Screens Summary (continued) LINK Applications SCREEN FTP Server Media Server Download Service Web Publishing Broadcatching FUNCTION 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.

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. Print Server Copy/Sync Button Package Auto Upload Flickr/YouTube Auto Upload FTP Uploadr Sharing Users Groups Shares Maintenance Power Log Configuration SSL FW Upgrade Shutdown Logout 3.

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 5 on page 143 for more information about the Status screen. 54 Media Server User's Guide Chapter 3 Web Configurator Basics 3.5.4 Status Messages The message text box at the bottom of the screen ( 4 the NSA. ) displays status messages as you configure 3.5.

5 Common Screen Icons The following table explains some icons that appear in several configuration screens. Table 15 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.

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. Media Server User's Guide 55 Chapter 3 Web Configurator Basics 3.5.6 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) 56 Media Server User's Guide C HAPT ER 4 Tutorials 4.1 Overview This chapter provides tutorials that show how to use the NSA. • Windows 7 Network, see page 57 • Windows 7 Network Map, see page 61 • Playing Media Files in Windows 7, see page 64 • Windows 7 Devices and Printers, see page 64 • Creating a Volume in a 2-Bay NSA, see page 67 • Creating a Volume in a 1-Bay NSA, see page 69 • Deleting a Volume, see page 76 • File Sharing Tutorials, see page 77 • Download Service Tutorial, see page 86 • Broadcatching Tutorial, see page 101 • Copy and Flickr Auto Upload Tutorial, see page 107 • FTP Uploadr Tutorial, see page 108 • Web Configurator's Security Sessions, see page 111 • Using FTPES to Connect to the NSA, see page 124 • Using a Mac to Access the NSA, see page 125 • How to Use the BackupPlanner, see page 128 4.



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2 Windows 7 Network To see your NSA in a Windows 7 home or work network: Media Server User's Guide 57 Chapter 4 Tutorials 1 Click Start > Control Panel. Set View by to Category and click Network and Internet. 2 Click View network computers and devices. 58 Media Server User's Guide Chapter 4 Tutorials 3 The NSA icon displays twice because the NSA is both a media server and a storage device. Doubleclick either NSA icon to open the Web Configurator login screen.

4.2.1 If the NSA Icon Does Not Display The network containing the NSA must be set as a home or work network in order for the NSA icons to display. If the network containing the NSA displays as "Public": 1 Click Network and Sharing Center and then the network's link (circled in the figure). Media Server User's Guide 59 Chapter 4 Tutorials 2 Use the Set Network Location screen to set the network's location to home or work.

4.2.2 NSA Icon Right-click Options Right-click the NSA's icon to see these options: • Install/Uninstall: Click Install to add the NSA as a device in your computer. After you install the NSA you can see it in the computer's list of devices (see Section 4.5 on page 64).

Click Uninstall to remove the NSA from the list of devices installed in your computer. • View device web page opens the Web Configurator login screen. • Create shortcut adds a desktop shortcut to the Web Configurator login screen. 60 Media Server User's Guide Chapter 4 Tutorials • Properties opens a window of NSA details and troubleshooting information. • Manufacturer identifies the company that produced the NSA. • Model identifies the NSA model. • Model number identifies the NSA model number. • Device webpage shows the IP address for accessing the Web Configurator. • Serial number is unavailable because the NSA does not have one. • MAC address is 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. • Unique identifier is a unique UPnP ID that the NSA generated. • IP address is the NSA's IP address. It is also the IP address for accessing the Web Configurator. 4.3 Windows 7 Network Map To see your NSA in a Windows 7 home or work network map: Media Server User's Guide 61 Chapter 4 Tutorials 1 Click Start > Control Panel > View network status and tasks (or Network and Sharing Center if you view the Control Panel by icons). 2 Click See full map (1 in the figure). The network containing the NSA must be set as a home or work network in order to use the full map feature.

If the network containing the NSA displays as "Public", click the network's link (2 in the figure, although it is already set to home here) and use the Set Network Location screen to set the network's location to home or work (see page 60). 1 2 62 Media Server User's Guide Chapter 4 Tutorials 3 Double-click the NSA's icon to open the Web Configurator login screen. See Section 4.2.2 on page 60 for the NSA icon's right-click options.

Media Server User's Guide 63 Chapter 4 Tutorials 4.4 Playing Media Files in Windows 7 In Windows 7, the NSA automatically displays as a library in Windows Media Player. Figure 52 NSA in Windows Media Player 4.5 Windows 7 Devices and Printers After you use the NSA's network icon's install option you can manage the NSA from the Windows 7 Devices and Printers folder. 64 Media Server User's Guide Chapter 4 Tutorials Click Start > Control Panel > Hardware and Sound > Devices and Printers.

Select the NSA icon to display information about the NSA. Double-click the NSA icon to open a properties window (see page 61). Right-click the icon to display these options: • Download NAS Starter Utility downloads the NSA's Starter Utility. It lets you find, set up, and manage the NSA as well as copy files to it and access the files on it. See Chapter 2 on page 21 for details. • Create shortcut has Windows make a desktop shortcut to this screen. • Troubleshoot opens Windows' device troubleshooting wizard. • Remove device removes the NSA from the Windows 7 Devices and Printers folder. • Properties opens a window of NSA details and troubleshooting information (see page 61). Media Server User's Guide 65 Chapter 4 Tutorials 4.

5.1 Windows 7 Desktop Shortcut This is the NSA's desktop shortcut. Double-click it to open a properties window (see page 61). 1 Right-click the NSA's desktop shortcut icon to see these options: • Open file location takes you to the Windows 7 Devices and Printers folder. • Download NAS Starter Utility downloads the NSA's Starter Utility. It lets you find, set up, and manage the NSA as well as copy files to it and access the files on it. See Chapter 2 on page 21 for details. • Restore previous versions is the Windows 7 option for restoring a file or folder. It does not apply to this shortcut. • Send to give you options for copying the shortcut to another location.

• Cut removes this shortcut so you can paste it somewhere else. • Copy copies the shortcut so you can paste it somewhere else. • Create shortcut has Windows make a desktop shortcut to this icon. 66 Media Server User's Guide Chapter 4 Tutorials • Delete sends the shortcut to the recycle bin. • Rename lets you change the name of the shortcut.

• Troubleshoot opens Windows' device troubleshooting wizard. • Remove device removes the NSA from the Windows 7 Devices and Printers folder. • Properties opens a window of details about the shortcut. 4.6 Creating a Volume in a 2-Bay NSA This section shows you how to create a volume in your 2-bay NSA.

Creating a volume deletes all existing data in the hard disk. Make sure you have a backup of your existing data before following the steps in this section. Your NSA has two bays for Serial Advanced Technology Attachment (SATA) hard disks. The JBOD storage method is used if you are using a single hard disk for your NSA. This JBOD volume shows up in the Storage > Volume screen (Section 7.3 on page 155) as follows. 4.6.1 Creating a RAID 1 Volume This storage method allows recovery of data if your hard disk fails. To create a RAID 1 volume, you must install two SATA hard disks in your NSA.

There are two ways to create a RAID 1 volume: • Click the Migrate button - If you already have a SATA hard disk with a volume and you later install a second SATA hard disk in your NSA, use the Migrate button to convert the existing JBOD volume to a RAID 1 volume. • Click the Create an internal volume button - Use this if there are no existing volumes in your NSA. Media Server User's Guide 67 Chapter 4 Tutorials 4.6.2 Migrate Button Do the following steps to create a RAID 1 volume. 1 Once you install a second SATA hard disk in the NSA, the Storage > Volume screen shows the Migrate button.



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