# Acconics User Guide



### NAS 4.0 Adapter (NAS40ESU)

www.addonics.com

Firmware v87a

#### **Technical Support**

If you need any assistance to get your unit functioning properly, please have your product information ready and contact Addonics Technical Support at:

Hours: 8:30 am - 6:00 pm PST Phone: 408-453-6212 Email: http://www.addonics.com/support/query/ Download from Www.Somanuals.com. All Manuals Search And Download.

#### Overview



Power Supply

**Network Cable** 

**Storage Ports:** eSATA (1.5Gbps) or USB (2.0). Each port supports one eSATA device and one or more USB based devices, up to 16 physical drives. **Network Port:** Supports 10/100/1000.

Power LED: glows when unit is on.

**Status LED:** glows steady when unit is idle, other states are dark or dim to indicate a problem, slow or fast blinking between dark and bright or dim and bright to indicate the unit is busy.

#### Installation

#### **Network Connection**

The NAS unit is factory configured for dynamic IP addressing (DHCP client). Connect the unit to a network (router or switch) where DHCP is supported. Static IP may be assigned later after initial setup.

#### Storage

The NAS unit does not support FIS switching for port multipliers, therefore any eSATA devices must be a single drive or a RAID array. Also, through the use of USB hubs, up to a total of 16 physical storage devices may be connected, also counting any eSATA drives. One SATA port multiplier in JBOD mode may be connected using USB; however, with more than one such port multiplier connected only one will function – others will not be recognized at all.

Each physical unit may be formatted with up to 4 individual partitions using a Master Boot Record (MBR), or up to 15 individual partitions using a GUID Partition Table (GPT). Supported file systems are: FAT32, ext2, ext3, ext4, XFS, and NTFS. The NAS unit will by far provide the best performance when using the XFS file system.

**NOTE:** Initializing a drive with MBR is limited to drives less than 2TB in capacity with up to 4 partitions total. For drives greater than 2TB in capacity or if more than 4 partitions are desired, the drive must be initialized using a GPT boot record.

#### The NAS Unit Boot Process

Upon connecting power the unit, the status LED will blink at first between bright and dim, then remain dark for a few moments, then begin to blink between bright and dark for a while and finally settle down to glowing steadily. Once this pattern is complete the unit is ready to communicate.

This process normally takes about a minute or less, but may take longer depending on the complexity of the configuration, storage and LAN connections. With the 240 possible file systems, booting may take several minutes or longer.

#### **Resetting the NAS**

Should a problem arise with the NAS unit or its configuration, the unit may be reset simply by turning the unit off, then back on after a few moments. If this doesn't clear the problem, the unit may be returned to its factory configuration by gently pressing and holding the reset button between the power and LAN connectors until the Status LED blinks slowly, then rapidly. After releasing the Reset button while blinking slowly there will be no changes. After releasing the button once the Status LED blinks rapidly, the Status LED will continue to blink

for a while, and may possibly glow steadily for a while as well. Eventually it will begin the boot process, beginning with blinking between bright and dim. Once the boot process is complete and the LED is glowing steadily again, all settings will have been cleared and the unit is ready to communicate with all settings reset to the factory default – including the network and device name settings. If the process appears to become stuck or takes too long to complete, you can try disconnecting power, then reconnect and after the Status LED blinks bright and dark a few times, try the Reset button again.

#### **Initial Setup**

**Windows:** All of the NAS unit's functions and features are configured using a Web Interface. Once the hardware is installed, access the Web Interface with a web browser on a computer attached to the same network by typing in "http://addnas" - this will work on most Windows systems. Be sure the computer accessing the NAS has the Workgroup name set to WORKGROUP.

**MAC:** Mac users may need to determine the NAS unit's IP address by opening a Terminal window and typing the following command:

#### smbutil lookup addnas

This utility should return the NAS unit's IP address. Typing this address into the web browser should open the NAS unit's Web Interface.

**Linux:** Linux users may need to determine the NAS unit's IP address if Windows name resolution support is not fully installed and configured, by examining the DHCP server's clients table and attempting to connect to each unidentified IP address using a browser until the NAS unit's Web Interface appears.

Once you have connected to the Web Interface, the Initial Setup page will appear:

Addonics.			NAS Manager			Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503			
We	dnesday	3 July 2013 / 14:56 MDT							
_		Home	Configuration	Sharing	P2P/MLDonkey				
		Welcome to the Initial Setup wizard.							
		This wizard will guide you through the steps necessary to configure your NAS for use in your home or office network.							
		Please click "Next" whe	n you are ready						
		Next>> Back							
		For	Technical Support Contact: http://www	w.addonics.com/support/ticketid/create	a.asp or phone USA 408-453-821	2			

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Click Next, then a dialog will appear requesting the Administrator login. The default username is "admin" and the password is "123456" (without the double-quote marks). Next, set a custom password for the admin account. The admin account name may also be changed.

	N.	AS Manager	Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503						
Wednesday 3 July 2013 / 14:58 MDT				Administrator: admin					
Home	Configuration	Sharing	P2P/MLDonkey						
Initial User & Pass Admin Username: a New Password: Confirm Password: Next>> Back	dmin ×								
	For Technical Support Contact: http://www.addonics.com/support/scientificroante.asp.or.phone.USA.408-453.6212								

Next, set up the Date and Time. Choose a city nearest you in the same Time Zone and be sure the Date and Time are correct.

Add		N/	AS Manager		Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503
wednesday	3 JULY 2013 / 15:00 MD1				Administrator: admin
	Home	Configuration	Sharing	P2P/MLDonkey	
	Initial Date & Time S Current Date: Wednes Current Time 14.00 03 TimeZone: Americal New Date: 3 J. J. New Time: 14 J. [ Next>> Back	Setup day 3 July 2013 PDT 	]	1	

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Finally, review and confirm the settings:

Addonics.			NAS Manager			Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503			
W	ednesday	3 July 2013 / 14:00 PDT				Administrator: admin			
		Home	Configuration	Sharing	P2P/MLDonkey				
		Initial Setup Wizard Finished							
		Summary of settings:							
		Admin Username: admin New Date: Wednesday 3 July 2013 New Time: 14:00 TimeZone: America/Los Angeles							
		You have completed the initial setup wizard and you may now continue to update your settings.							
	Cancel Update settings								
		For	Technical Support Contact: http://www	w.addonics.com/support/ticketid/create	e.asp or phone USA 408-453-621	2			

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After clicking on the Update settings button, Initial Setup is complete.

### Sharing Files Using the NAS Unit SMB (Windows Sharing)

Connecting to the NAS for direct file access through Windows Explorer is very similar to sharing files between Windows systems. Typing "\ADDNAS" (or the NAS unit's hostname if changed from the default) or the double-backslash followed by the NAS unit's IP address is the easiest way to gain direct access quickly. After pressing Enter, the Explorer Window should show a list of the shares available. Opening any of the shares is like opening any other folder, except when accessing a share for the first time, Windows may request a username and password for access to the share (unless "Everyone" permissions have been changed from the default setting of NONE). Entering a valid username and password will open the folder with appropriate access rights to that user. If "NONE" permissions are set for that user on that share, Another username and password prompt will appear. After connecting to a share, Windows will use the same username and password for all connections until the Windows user logs off of Windows.

On Mac systems, on the Finder's Go menu choose "Connect to Server..." then in the server address box type "smb://" followed by the NAS unit's IP address. On Linux systems, use the "Connect to share..." dialog found on the Nautilus or "File Manager" menu bar, then select Windows Share for the type and complete the remaining fields for share name, username and password. Information required to complete the connection and the system's response vary from one version of Linux to another, and should be expected to work about the same way as connecting to a share on an actual Windows PC.

#### FTP Server

The NAS FTP Server requires the "User Home Directory Drive" is defined under the Sharing Tab to function. Anonymous login is supported with no user home directory and access to any shares with read-only or read and write access to "Everyone" for FTP. Authenticated users will have read and write access to their home folder and any other shares defined under the Sharing tab with read-only or read and write access for the user for FTP, as well as "Everyone."

#### Getting Started with MLDonkey

MLDonkey is a powerful, multi-protocol Peer-to-Peer (P2P) client included with the NAS unit. The features and capabilities of this tool are beyond the scope of this user guide, the steps below will show how to get MLDonkey up and running. For more information on how to use MLDonkey, visit http://mldonkey.sourceforge.net.

#### **MLDonkey Basic Setup**

The MLDonkey client requires one partition formatted with either ext3 or XFS. The NAS unit's format utility can format one physical unit with a single partition using all space if needed.

Under the P2P/MLDonkey tab, choose the drive you wish to create the file structure on and click Save. Please note: this menu will permit setting up folders on incompatible file systems. If this is done, MLDonkey will not start or may not be able to download files.

When the folder structure is set up, a page will appear stating this is done. Click the START button. NOTE: The MLDonkey setup page will create a share on the selected drive called MLDonkey. This share will be configured with "None" permissions to "Everyone" as well as all existing users.

Next, a new page will appear stating MLDonkey is running. Click the link at the bottom of the page that reads "Launch MLDonkey Control Panel."

A new tab will appear in the browser with the MLDonkey web interface. If MLDonkey is not fully initialized yet, the browser may report a failure to connect. If this happens, wait about one minute and try again, either by refreshing the page or clicking a "try again" button – this step varies depending on the browser used.

When first setting up, a prompt appears warning there is no password for the admin account. Click the space between the "DL" and "Input" buttons, then type the command "useradd admin" as shown, then add a password after a space.

**NOTE:** The MLDonkey admin account is not the same account as the NAS unit's web interface admin account. It is recommended that the password matches for simplicity, but not necessary.

MLDonkey will perform most of the remaining steps automatically and connect to some servers on the Donkey network.

To download a file using the Donkey network, begin by clicking search, then enter some criteria and click the Search button. After a query message appears, click the "Search Results" button.

To download a Torrent, on the command bar type dllink followed by a space and the full URL path to the .Torrent file and press Enter or click Input. (example: "dllink http://sampletorrent.com/path/dot-torrentfile.torrent"). MLDonkey will parse the download and add it to the download queue automatically.

Files queued for download will appear in the MLDonkey share in the incoming/files folder when when complete.

NOTE: this folder has read-only permissions and cannot be changed.

#### The Configuration Tab



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#### Update Admin Username and Password

Changes the web interface management login.

#### Configure User Home Directory Drive

Determines which drive on the system carries the HOME directory for users. The user's home folder is required for FTP transfers and as a network share for private files. If a home directory is already defined it will be shown. Choose a volume and click Save. If any files exist in a previous Home directory they will be moved to the new location.

#### Change Current Date and Time

Settings for time zone, date and time. Set time zone to a listed city nearby in the same time zone.

#### Update Device/Workgroup Names

Settings for the NAS unit's network name and Windows workgroup. Default setting is ADDNAS joined to WORKGROUP. Setting the workgroup name on all devices on the same network to match is strongly recommended. The Device name is

used for accessing the Web Interface as well as browsing for the shared folders on the network.

#### **Update FTP Port Number**

Changes the TCP Port used by the FTP server. Default is port 21. Note that some FTP clients will not be able to connect on alternate ports.

#### **View Current Network Configuration**

Displays details about the NAS unit's current network settings. Includes device and network names as well as TCP/IP settings.

#### **Configure the Network Settings**

Starts the network configuration wizard.

A			N/	AS Manager	Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503				
v	ednesday	3 July 2013 / 14:03 PDT				Administrator: admin			
		Home	Configuration	Sharing	P2P/MLDonkey				
		Network Address Wizard							
		This section is intende	d only for advanced us	ers					
		The Obtain Network An unsure about manually	ddress wizard allows yo configuring a network,	ou to change the NAS , you may cancel this v	network settings to vizard by selecting	a specific configuration. If you are 'cancel' button			
		Applying these changes will require you to reboot your PC. Please click Cancel if you do not wish to do this at this time.							
		Begin Wizard Cancel							

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Choosing Automatic will configure the NAS unit as a DHCP client and the configuration wizard will skip to the end. Choosing Manual configuration will proceed to Step 2.

			B N	AS Manager		Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503
We	dnesday 3	July 2013 / 14:03 PDT				Administrator: admin
		Home	Configuration	Sharing	P2P/MLDonkey	
		Network Address V	/izard - Step 1			
		Obtain Network Addres	SS:			
		Automatic 🗸				
		Next >>				
		Back Cancel				

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Step 2 configures the NAS unit's static IP address and subnet mask. To choose a working static IP address, make sure you meet these criteria:

- 1. The subnet mask must match the rest of the network exactly.
- The IP address must match the router's IP address exactly where the subnet mask is "255."
- 3. The IP address cannot end in 0 or 255.
- 4. The IP address must not match any other system on the network.
- 5. The IP address should not be within the DHCP server's client pool.

Addonics.			• N.	AS Manager		Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503		
We	dnesday	3 July 2013 / 14:05 PDT				Administrator: admin		
		Home	Configuration	Sharing	P2P/MLDonkey			
		Step 2 : Network A	ddress and Subnet	Settings				
		Network Address:						
		Subnet Mask:	. 0					
		Recommended subne	t mask is 255.255.255.	D				
		Proceed to Gateway Pag	je >>					
		Back Cancel	or Technical Support Contect: http://www	w.addonics.com/support/licketid/create		2		

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The next step is to configure network connections. The gateway is usually the internal IP address for the router the NAS unit is connected to. DNS entries are usually the same as used by the router's external network configuration (determined by your ISP). Setting an NTP server will synchronize the NAS unit to a time server, usually on the Internet. This can be a name or IP address. Use the keywords "free NTP servers" on your preferred search engine if you wish to configure this feature and don't know of a server you can use.

Ad		s N	AS Manager	Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130827-145503	
Wednesday	3 July 2013 / 14:05 PDT				Administrator: admin
	Home	Configuration	Sharing	P2P/MLDonkey	
	Step 3 : Gateway				
	Gateway:	·			
	DNS Servers:				
	NTP Server:				
	Next >>				
	Back Cancel				-

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When the wizard is complete by either choosing Automatic in Step 1 or completing Steps 2 and 3, a confirmation page will appear. Clicking the Finish button will apply the settings.



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#### View Drive Information

Displays details of all connected drives. If network shares are configured for drives that have been disconnected, those drives will also appear in this list as unavailable.

Device: The letter after "sd" is the drive's letter, in order of when the drive was first encountered by the NAS unit. The number at the end of the device label is the partition on the drive, in order of the drive's partition map.

Vendor: The drive's manufacturer.

Model: The drive's model number.

Mount Point: Used by the NAS unit internally.

Type: The file system the partition is formatted with.

Size: The total space of the partition.

Used: Space in use on the partition.

Available: Remaining space available on the partition.

% Used: Percentage of the partition space in use.

Addonics.					NAS Manager			Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-146503				
Wednesday 3 July 2013 / 14:02 PDT			14:02 PDT							Admin	istrator: admin	
		ŀ	lome	Configuration	Sharing	P2P/MLDonkey						
		Device	Vendor	Model	Mount P	oint	Туре	Size	Used	Available	% Used	
		sda1	ATA	Addonics H/W LAR	c1a8a912-f646-44d8-89	973-216d6cbdf706	xfs	13674184 MB	4 MB	13674180 MB	1%	
				For Technical Support Contact: http:/	www.addonics.com/support/ticketid/create	asp or phone USA 408-453-6212						

#### View User Samba and FTP Login Information

Displays a list of open sessions for file sharing of Windows sharing and FTP. The login username, the computer's hostname and IP address are listed for each session.

#### Format Drive

Formats a specific drive using a choice of ext3 or XFS file systems. *Caution: this function destroys data.* 

Choose a drive to format. If the drive is greater than 2TB in capacity choose the GPT boot record, otherwise choose MBR. Finally, choose Linux EXT3 or Linux XFS for the file system. After clicking Format Drive, the format utility will request confirmation.

NOTE: For highest possible performance, use the XFS file system.

After clicking "Yes, I'm sure," the format utility will create and prepare one partition on the selected drive, using all space on the disk. A page will load next confirming the format is in progress. This page updates once every minute. Once formatting is complete, the page will change to state it is done. Click any of the tabs above the message to perform other tasks. If desired, this can be done before formatting is complete; however, the drive being formatted cannot be used until formatting is done and there will be no further notifications.

#### Safely Remove Drive

Closes all pending I/O to a specified drive then "unmounts" it for removal. Caution: best practice is to notify any and all users this will be done before proceeding to prevent data loss. Abruptly removing a physical drive without notifying users or using the Safely Remove Drive function may cause file system corruption and loss of data.

#### **Backup Internal System Configuration Information**

Saves or restores all of the NAS unit's settings using a specified drive. Select the volume desired for backups. If backups exist on that volume they will be listed under Backups, with comments if present.

To create a backup, add a backup comment if desired then click Create Backup. To restore an existing backup, select the desired backup and click Restore Selected. The currently selected backup may also be deleted using the Delete Selected button. All three functions will request confirmation before proceeding.

#### Reboot

Restarts the NAS unit. Caution: best practice is to notify any and all users this will be done before proceeding

#### Upgrade the System Firmware

In the case of a firmware update release, this utility applies the update. Update will not proceed unless only one volume (one partition on one drive) is present. Instructions on updating firmware are provided with the firmware update.

Caution: All of the NAS unit's settings may be lost in the process of applying firmware. Make sure to notify any and all users this will be done to prevent data loss and use the Backup Internal System Configuration Information utility before proceeding.

#### The Sharing Tab

	d c H N		N	IAS Manager		Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130827-145503
W	(ednesday	3 July 2013 / 14:03 PDT				Administrator: admin
		Home	Configuration	Sharing	P2P/MLDonkey	
		File Sharing				
		Current Shared Folder	Settings			
		Share Name		Drive	Available?	
		User Man	agement			
		Add a Sha	ared Folder			
		Rename a	a Shared Folder			
		Remove a	a Shared Folder			
		Update Se	ecurity Settings			
		For	Technical Support Contact: http://w	ww.addonics.com/support/ticketid/crea	ate.asp or phone UBA 408-453-62	12

#### **User Management**

Shows current list of known users on the NAS unit.

To delete a user, click the "Delete" link next to that username, then confirm. To change a user's password, select the username just above "New Password," then enter the new password into the "New Password" and "Confirm Password" fields and click "Change Password."

To create a new user account, click "New User," then enter the new username and the initial password in the "New Password" and "Confirm Password" fields. If shared folders are defined on the system, select the default permissions granted to the new user for each share.

#### Add A Shared Folder

Creates a new folder and shares it on the network. This function has several steps. The first page introduces the wizard. Click "Begin Wizard" to proceed.

	Idonics.	Ν	IAS Manager		Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130827-145503
Wedne	esday 3 July 2013 / 14:04 PDT				Administrator: admin
	Home	Configuration	Sharing	P2P/MLDonkey	
	Add a Share Wizard Welcome to the Add a S prepared to provide deta Begin Wizard Cancel	hared Folder Wizar	d, which guides you thro	bugh the steps of a	dding a shared folder to the NAS. Be
	For T	echnical Support Contact: http://w	ww.addonics.com/support/ticketid/create	e.asp or phone USA 408-453-62	12

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**Step 1** is to define the name of the share. The share name will become the folder name on the drive.

**NOTE:** The shared folder name will be written to disk using all capital letters. If an existing folder of the same name appears and is not all capital letters, the NAS considers that not a match and writes the same folder name in all capital letters anyway. This can cause unpredictable results if the drive is subsequently connected to a computer. If a folder exists of the same name with all capital letters, it will be shared without harming any data.

Addonics.	NAS Manager			Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130827-145503
Wednesday 3 July 2013 / 14:05 PDT				Administrator: admin
Home	Configuration	Sharing	P2P/MLDonkey	
Step 1: Create Share New Shared Folder Nam Next >> Back Cancel	d Folder Name			
For It	Contract copport Contact: http://www	ww.augumes.com/sdpp0r0ticketo/creat	e.asp or priorie USA 408-453-521	£

**Step 2** is to select the drive the share is to be created on. The drive is identified by the drive letter and partition number, the vendor and model, and the mount point.

Addonics.			N	IAS Manager	Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130627-145503			
Wed	inesday 3 July 2013 / 14:06	PDT				Administrator: admin		
	Hom	e	Configuration	Sharing	P2P/MLDonkey			
	Step 2: Sel Volume : sda Next >> Back Can	ect Volum	e os H/W LAR c1s8e912-	4546-44d8-8973-216d8obdf	706 💌			

**Step 3** is to set the initial permissions for the new share. A permission setting for "Everyone" as well as each individual user is listed, with the default permission set to None for both SMB and FTP. Once you have reviewed the permissions for all users and made any desired changes, clicking on "Create Share Folder" will complete the Wizard.

Addonics.			NAS Manager				Device Name: ADDNAS Workgroup: workgroup Firmware: v78a 20130827-145503					
v	Vednesday	3 July 2013 / 14:06 PDT								Administ	rator: admin	
		Home	Configuration	Sharing	P2P	/MLDonk	ey					
		Step 3: Security Set	ting									
		Share Name: SHARED Share Type: CIF	FOLDER1									
		User Name				Full	SMB Read Only	None	Full	FTP Read Only	None	
		Everyone (Set Minimur	Permissions)			0	0	۲	0	0	۲	
		Create Share Folder				-						
		Back Cancel	Technical Support Contact: http://ww	wy addonics comisupportificitetid icreate	aso or phon	e USA 402-45	53-6212					

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#### Rename A Shared Folder

Changes the name of the directory as well as the share name for an existing shared folder. Select the share to change and type in a new name, then click "Rename Shared Folder."

**NOTE:** The new shared folder name will be written to disk using all capital letters. If an existing folder of the same name appears and is not all capital letters, the NAS unit considers that not a match and writes the same folder name in all capital letters anyway. This can cause unpredictable results if the drive is subsequently connected to a computer. If a folder exists of the same name with all capital letters, it will be shared without harming any data.

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#### **Remove a Shared Folder**

Deletes a share from the NAS unit. As a precaution this screen requires the word "yes" is typed in as confirmation.

**NOTE:** Removing a shared folder also deletes the associated directory and all of its contents from the drive. It is however possible to delete the share without destroying any data: simply disconnect the drive physically from the NAS unit before proceeding. If the shared folder is on the NAS unit's RAID array, shutting down the unit, then removing all of the RAID drives and powering up again before deleting the share will preserve the data.

#### **Update Security Settings**

Changes SMB and FTP permissions for a share for each user and the general permission for "Everyone." Select the share to change, then click next and another page will appear with current permissions. Make desired changes and click Update to apply.

## **CONTACT US**

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