



 **ALKYRIE**
NAS STORAGE

User Guide

 **PATRIOT**

What's in the box

VALKYRIE Enclosure (No HDD installed)
RJ-45 Cable
Power Supply
Power Cable US
Quick Start Guide
CD

Introduction

Congratulations on purchasing your VALKYRIE Network Attached Storage (NAS) device. With your VALKYRIE you are able to:

1. Easily setup users, groups and folders
2. Set accessibility rights such as; Individual user access or restrictions, Read only access for all users, and Read/Write access for all users
3. Backup your data over the network
4. Backup USB devices to THE VALKYRIE HDD with innovative One Touch Backup button
5. Connect additional USB storage device(s) and printer via USB 2.0 connections
6. Backup and share files via FTP client
7. Play media files via UPnP client
8. Play media files via iTunes client

All these features provide an excellent data storage and sharing solution for your small business, SOHO (Small Office or Home Office), or personal requirements.

- | | |
|--|---|
| ☆ Supports CIFS/SMB for Microsoft Network allowing remote users to retrieve files easily using "My Neighborhood" | ☆ Supports Windows AD authentication (ADS) |
| ☆ WEB-based User Interface (UI) for easy configuration | ☆ Supports access management for 256 folders |
| ☆ Supports 3.5" SATA HDD - up to 2TB | ☆ VALKYRIE NetTool for user-friendly setup |
| ☆ Provides Password security for management & HD Access | ☆ Supports static IP & DHCP client network environment. |
| ☆ Embedded FTP server for FTP clients to transfer files | ☆ Supports Unicode for multiple-language characters |
| ☆ Supports USB mass storage device | ☆ Supports group access management of 128 groups |
| ☆ One Touch Backup button for simple file backup | ☆ Compatible with Windows XP, Vista & MAC OS X |

User Manual

Menu

Section 1: Diagram

Section 2: Settings

- 2.1: General Setup
- 2.2: Devices
- 2.3: Network
- 2.4: Disk Settings
- 2.5: Setting up JBOD
- 2.6: Setting up RAID
- 2.7: Formatting a External USB Storage Device
- 2.8: Users
- 2.9: Groups
- 2.10: Folders

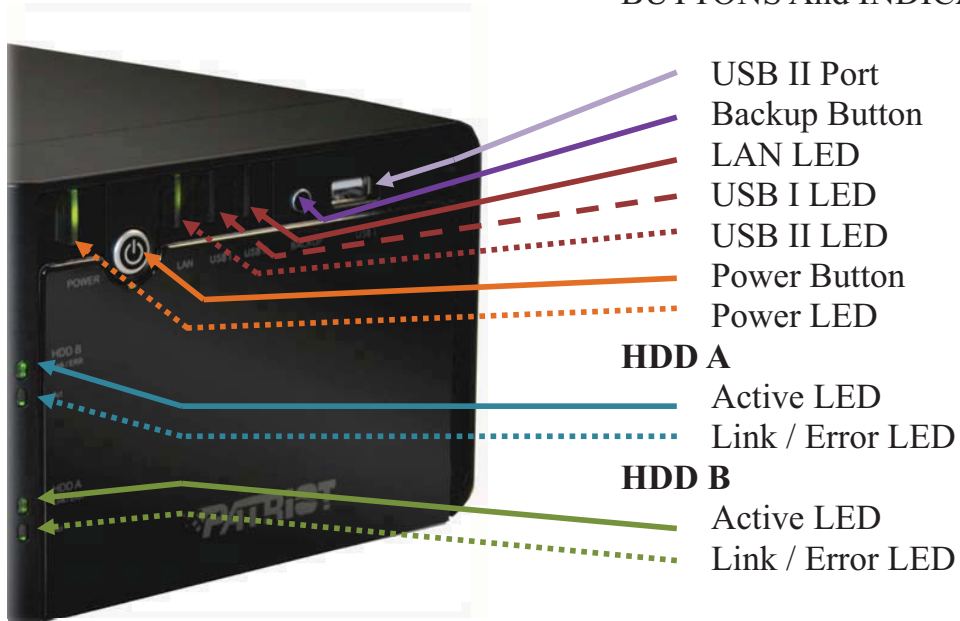
Section 3: Services

- 3.1: ADS (Active Directory Service)
- 3.2: More ADS Settings
 - 3.2.1: ADS Connectivity
 - 3.2.2: ADS Folder Access via Shortcut
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- 3.4: FTP Server
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- 3.6: iTunes
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- 3.9: Backup

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- 4.6: Admin Folder
- 4.7: System Log

BUTTONS And INDICATORS



Power	Green	– System ready
LAN	Green	– Valid Connection at 10/100/1000 Mbps
Error	Red	– HDD error
USB	Green	– Valid connection on USB Port
HDD A/B Link	Green	– HDD A / HDD B Ready
HDD A/B Act	Yellow	– Data transmitting on HDD A / HDD B

Section 2: Settings

System Summary

Firmware version:	V01R01
Device name:	PCNASVK35S2
Description:	Patriot Valkyrie NAS
MAC address:	00:16:67:02:0d:b4
IP address:	10.10.1.42
Protocol:	Static
HTTP server port:	80

When Summary is selected the “System Info” window appears, showing your VALKYRIE basic information

You will also notice the System menu expands allowing you to select; General Setup, Devices, FW Upgrade and Advanced

2.1 General Setup

Device Name

You can change the Device Name in this field. This is the name by which the VALKYRIE is seen on the network

Description

If you wish, you can also change the Device Description. This is additional information to describe the device on the network
This information may not be seen on Vista operating system


Time & Date

From the Time Zone pull-down menu, select the time zone for your region.

Select Apply

You will now see the time and date is updated to your region.

Device Name:	PCNASVK35S2
Description:	Patriot Valkyrie NAS
Date:	Oct 21 2009 (month,day,year)
Time:	6 : 22
Time Zone:	(GMT+08:00) Taipei
NTP:	<input checked="" type="checkbox"/> Enabled
NTP Server:	time.windows.com
HTTP Port:	80



2.2 Devices

The Devices section shows the hard disk drives within your VALKYRIE and any other external devices attached to the VALKYRIE.

PATRIOT LOG OFF

Home Settings Services Tools Support

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid 0	ext2	304403	100%

Refresh

USB Storage Devices

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
----	------------	-----------	---------	----------------	------------

Refresh

Attached
Hard Disk Drives

Attached
USB Storage Devices

Attached
USB Printers

Attached Hard Disk Drive (HDD)

ID = Drive number (dependent on number of HDDs installed and RAID setup)

Share Name = Link to folders on drive (Here you can go direct to the folders)

Device ID = Drive manufacturer

FS Type = File System on drive

Total Size (MB) = Drive capacity

Free Space = Amount of free space on drive

JBOD setup

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HDDA	WDC	ext2	149811	100%
2	HDDB	WDC	ext2	150221	100%

Refresh

RAID 0 setup

Device settings

Network settings

Disk management

Disk settings

User settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid 0	ext2	304403	100%

Refresh

RAID 1 setup

PATRIOT LOG OFF

Home Settings Services Tools Support

Device settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid1 resync(4.3%)	ext2	152201	100%

Refresh

Raid Linear setup

Home Settings Services Tools Support

Device settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid Linear	ext2	304403	100%

Refresh

USB Storage Device

USB Storage Devices will show any external HDD's or Thumb Drives attached.

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

HDD

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid Linear	ext2	304403	100%

Refresh

USB Storage Devices

ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	USBC_1		Fat/Fat32	30508	100%

Refresh

Connecting a Printer:

1. Connect your printer to your VALKYRIE via the USB connection
2. Ensure it is seen in USB Printers

USB Printers

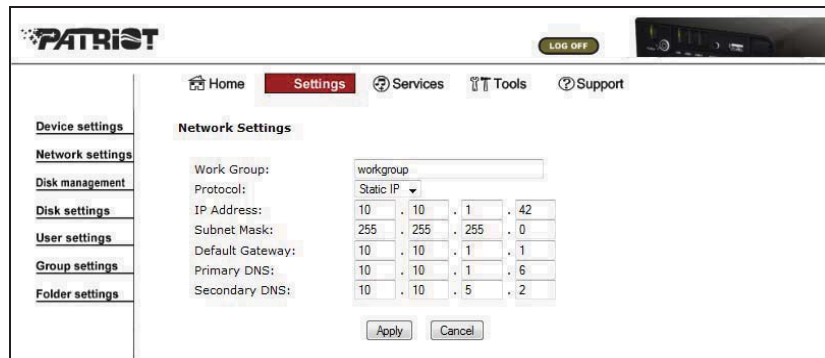
Index	Share Name	Vendor	Model
1	iP4500_series_0	Canon	iP4500 series

Refresh

3. Enter My Network Places on PC
4. Select Printers and Faxes
5. Select Add Printer
6. Follow on screen instructions

2.3 Network

This section contains the LAN settings to configure your VALKYRIE to the network. Depending on how the network is setup, changes to this page may or may not be necessary. You can choose between DHCP and Static IP from the “Protocol”.



The screenshot shows the PATRIOT network settings interface. At the top, there is a navigation bar with links for Home, Settings (highlighted in red), Services, Tools, and Support. A 'LOG OFF' button is also present. On the left, a sidebar lists various settings categories: Device settings, Network settings (highlighted), Disk management, Disk settings, User settings, Group settings, and Folder settings. The main content area is titled 'Network Settings' and contains the following fields: 'Work Group' (set to 'workgroup'), 'Protocol' (set to 'Static IP' with a dropdown arrow), 'IP Address' (10.10.1.42), 'Subnet Mask' (255.255.255.0), 'Default Gateway' (10.10.1.1), 'Primary DNS' (10.10.1.6), and 'Secondary DNS' (10.10.5.2). At the bottom of the form are 'Apply' and 'Cancel' buttons.

DHCP

Selecting this option enables the VALKYRIE to request an IP Address and auto-configure itself to the network when there is a DHCP Server present.

Note: If DHCP Client is enabled, but there is no DHCP server available, then the VALKYRIE will revert to its default IP address of 192.168.16.1.

Static IP

To setup VALKYRIE to a static IP router, please refer to the “Getting Connected” section at the start of this manual.

If for any reason you need your VALKYRIE to have a static IP address, select “Static IP” from the Protocol drop down menu and manually enter the network settings in the fields provided.

- | | |
|-------------------------------|---------------------------------|
| IP Address | – Enter the static IP address |
| Subnet Mask | – Enter the Subnet Mask address |
| Default Gateway | – Enter the Gateway IP address |
| DNS1 and DNS2 (both optional) | – Enter the DNS IP addresses |

NOTE: Contact your network provider/ administrator for additional assistance in manually entering the above information.

2.4 Disk Settings

JBOD:

JBOD is a way to use the maximum capacity of both disks. In JBOD your VALKYRIE is configured as follows: the first disk formatted will be the primary disk; the second disk formatted will be the secondary disk. The secondary disk is located within the primary disk. JBOD offers no redundancy and, if any one disk fails, the data on that disk will be lost. The capacity in this array is the total of both disks.

RAID 0:

RAID 0 (striped disks) distributes data across both disks in a way which gives improved speed and full capacity. Raid 0 offers no redundancy and, if any one disk fails, the entire array cannot be used and all data on both disks will be lost. The total capacity is 2x the smallest disk in the array.

RAID 1:

RAID 1 (mirrored disks); copies exactly the data on disk one to disk two. In this array, if one disk fails data is not lost. Replacing the failing disk with a disk of the same capacity (or larger), invokes an automatic rebuild from the remaining disk (hot swap). The total capacity of the array is the capacity of the smallest disk in the array.

RAID 1 Hot Swap

There is no need to switch off your VALKYRIE device when replacing a failing disk

1. Press the HDD release button of the failing disk and remove the HDD assembly
2. Replace the failing disk with a new disk of the same or larger capacity (new disk must be initialized)
3. The new disk will automatically rebuild (copying all data from the remaining good disk to the new HDD)
4. The progress of the rebuild can be seen via the GUI under System, Devices



ID	Share Name	Device ID	FS Type	Total Size(MB)	Free Space
1	NAS-HD	Raid1 rebuild (15.2%)	XFS	152127	98%


Refresh

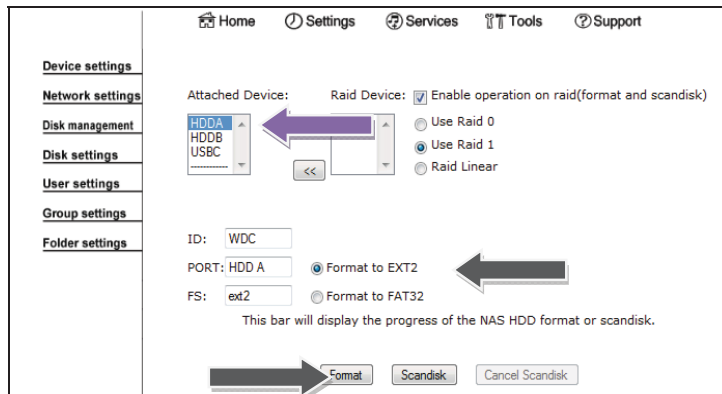
5. VALKYRIE can be used while a rebuild is in progress

RAID Linear:

RAID Linear is a simple grouping of both disks to create a larger virtual drive. In RAID Linear, the data is allocated sequentially from one disk to the next (when the first disk is full, data will then be allocated to the second disk). This grouping provides no performance benefit. RAID Linear also offers no redundancy and, if any one disk fails, the entire array cannot be used. The capacity in this array is the total of both disks.

2.5 Setting up JBOD

1. Select HDDA 
2. Select the format type (either EXT2 or FAT32)
3. Select Format



Home Settings Services Tools Support

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

Attached Device: RAID Device: ☒ Enable operation on raid(format and scandisk)

☐ Use Raid 0

☒ Use Raid 1

☐ Raid Linear


ID: WDC

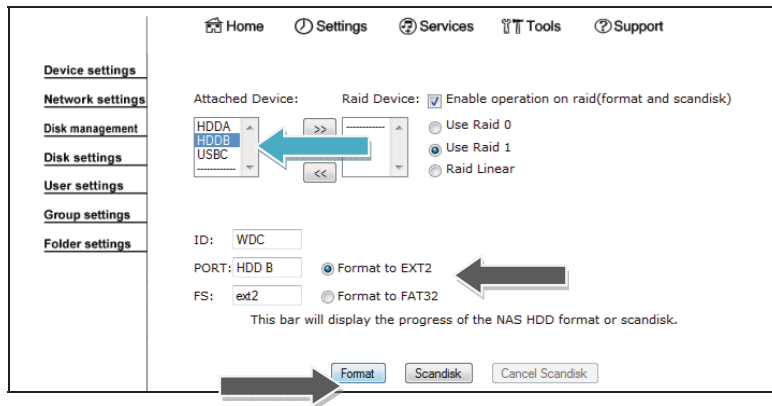
PORT: HDD A

FS: ext2 ☒ Format to EXT2 ☐ Format to FAT32

This bar will display the progress of the NAS HDD format or scandisk.

Format Scandisk Cancel Scandisk

4. Select HDDB 
5. Select the format type (either EXT2 or FAT32)
6. Select Format



Home Settings Services Tools Support

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

Attached Device: RAID Device: ☒ Enable operation on raid(format and scandisk)

☐ Use Raid 0

☒ Use Raid 1

☐ Raid Linear

ID: WDC

PORT: HDD B

FS: ext2 ☒ Format to EXT2 ☐ Format to FAT32

This bar will display the progress of the NAS HDD format or scandisk.

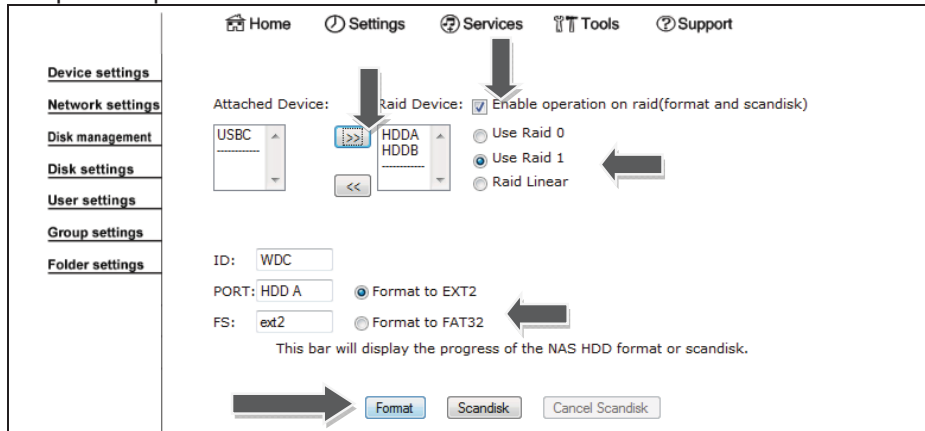
Format Scandisk Cancel Scandisk

2.6 Setting up RAID

In order to setup the HDD's in RAID, you must first put them into the Raid Device section.

1. Select HDDA
2. Select the >> button
3. You can see that the HDDA has moved to the Raid Device section

Repeat steps 1 & 2 for HDDB



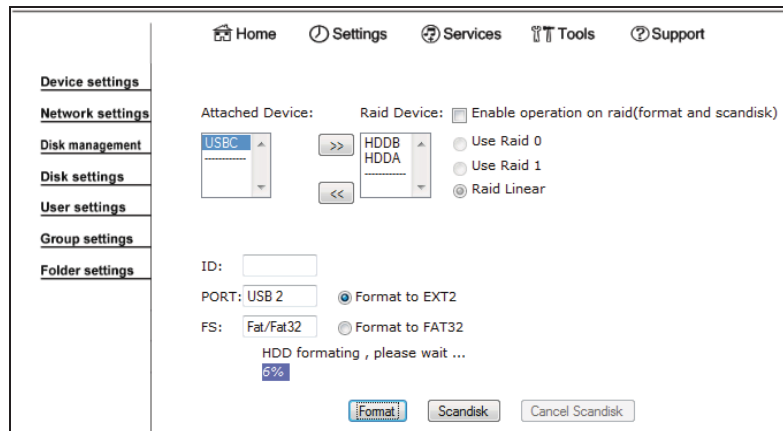
4. Select "Enable operation on RAID" box
5. Select either Raid 0, Raid 1 or Raid Linear
6. Select the format type (either XFS or FAT32)
7. Select Format

2.7 Formatting a External USB Storage Device in RAID Configuration

NOTE:

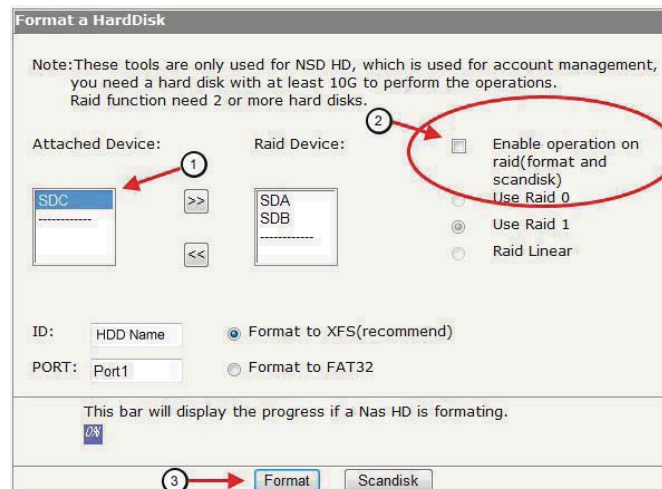
Please read this section before attempting to format an external USB Hard Disk Drive (HDD) via your VALKYRIE. If you do not follow these steps you will lose all data on your internal HDD's.

If your VALKYRIE is in RAID configuration and you attach an external USB Device you will see this under Attached Device in the Disk Management.

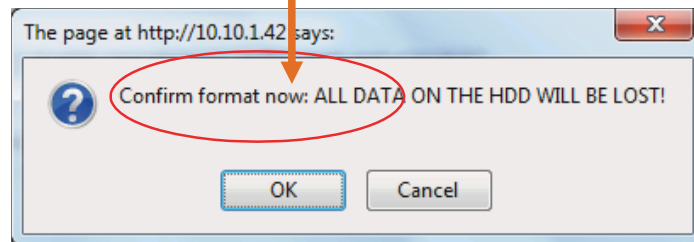


To format the external USB Device without formatting the data on the internal VALKYRIE HDDs you must do the following:

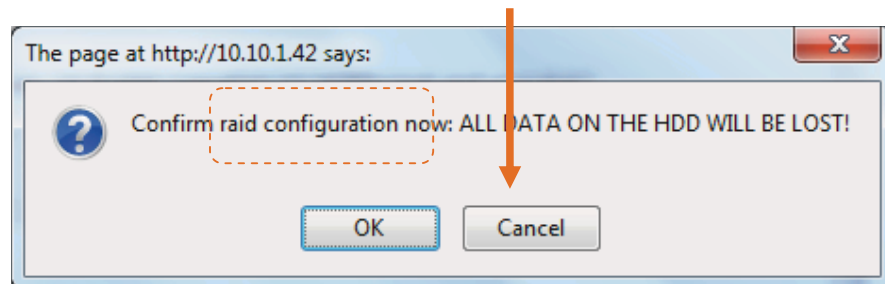
1. Highlight the external USB HDD in the "Attached Device" box
2. UNCHECK the "Enable operation on raid"
- IMPORTANT: If you do not uncheck the "Enable operation on raid" and select format the VALKYRIE will format the internal HDDs resulting in a total loss of data.
3. Then select Format



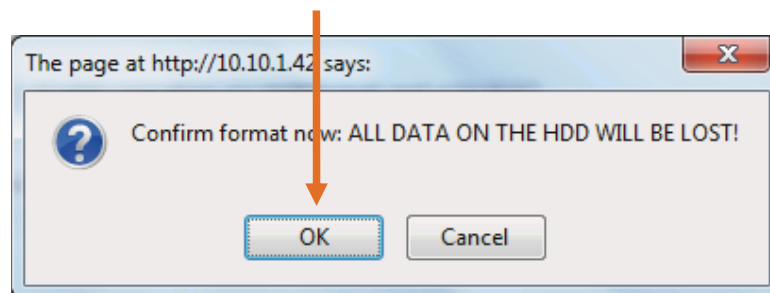
A warning window will appear asking “are you sure to format disk now?” **READ THIS WARNING** to ensure you are not formatting the HDDs in the RAID section.



If the warning window mentions **RAID**, then **CANCEL** and ensure you have **UNCHECKED** the “Enable operation on raid” box.



If the warning window does not mention RAID and looks like the one below, select OK



2.8 Users

Setting up users

From the menu
Select, **Access, Users**

The screenshot shows the PATRIOT User Management interface. On the left is a sidebar with settings categories: Device settings, Network settings, Disk management, Disk settings, User settings, Group settings, and Folder settings. The main area is titled 'User Management' and contains form fields for 'User name:', 'Password:', 'Verify password:', and 'User description:'. There are checkboxes for 'No password required' and 'With admin property'. An 'Add user' button is next to the description field. Below the form is a table with columns 'Users' and 'Description', containing one entry 'admin'. A 'Delete user' button is at the bottom.

The User Management window allows you to enter a User name, Password and Description

Other options can also be selected, if required

- 1) “No password required” User can opt to have no password
- 2) “With admin property” User can be given admin rights to folders

User name:

This is where you add the name of a person you would like to access the VALKYRIE.

This screenshot shows the PATRIOT User Management interface after adding a new user. The 'User name' field is highlighted with a red box and an arrow pointing to it. The 'User name' field now contains 'userthree'. The 'Password' and 'Verify password' fields are empty. The 'User description' field contains 'guest account with admin rights'. The 'Add user' button is visible. The table below now has three entries: 'userone', 'usertwo', and 'userthree'. The 'Delete user' button is at the bottom.

Note: Adding a user creates an FTP folder for that user, i.e. if you setup the VALKYRIE as an FTP server (See section 6.1 FTP Server) then that user can access their FTP folder via the internet (same user name and password).

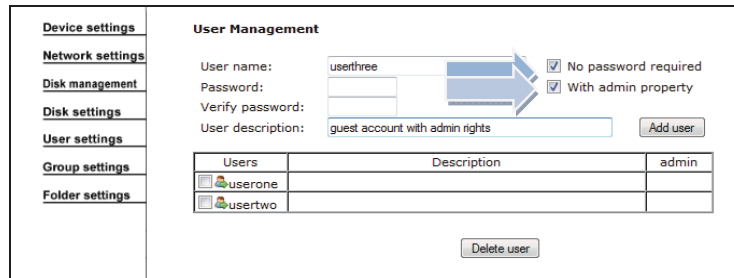
Password:

Enter Password

When you create a password, you must verify the password.

Alternatively you can select the user to have no password by checking (✓) the “No password required” box.

Additionally, you can give the user admin rights to folders, by checking the “With admin property” check box.



Device settings
Network settings
Disk management
Disk settings
User settings
Group settings
Folder settings

User Management

User name: userthree
Password:
Verify password:
User description: guest account with admin rights

☒ No password required
☒ With admin property

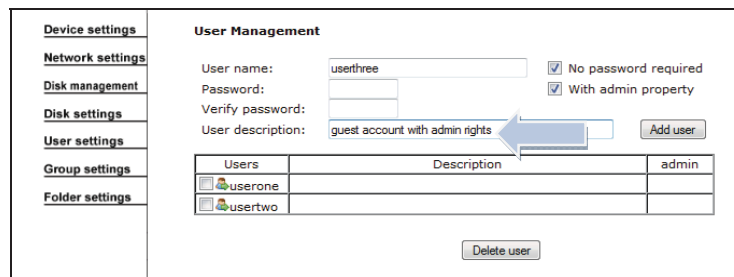
Add user

Users	Description	admin
userone		
usertwo		

Delete user

User Description:

Here you may want to add a user description (you can leave this section blank if you prefer).



Device settings
Network settings
Disk management
Disk settings
User settings
Group settings
Folder settings

User Management

User name: userthree
Password:
Verify password:
User description: guest account with admin rights

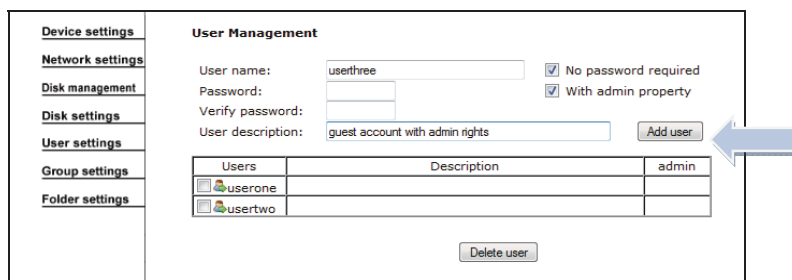
☒ No password required
☒ With admin property

Add user

Users	Description	admin
userone		
usertwo		

Delete user

Once you have entered your preferred requirements select “Add user”



Device settings
Network settings
Disk management
Disk settings
User settings
Group settings
Folder settings

User Management

User name: userthree
Password:
Verify password:
User description: guest account with admin rights

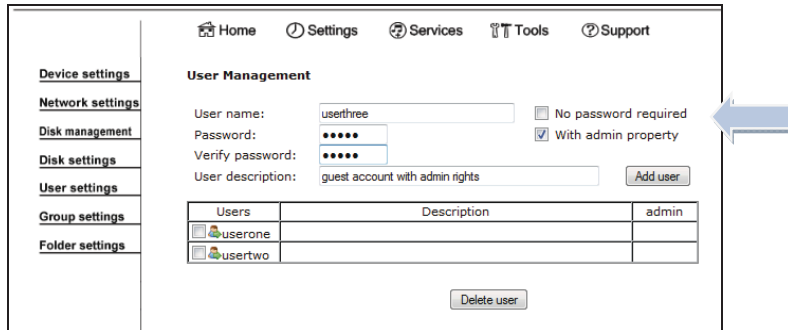
☒ No password required
☒ With admin property

Add user

Users	Description	admin
userone		
usertwo		

Delete user

Example



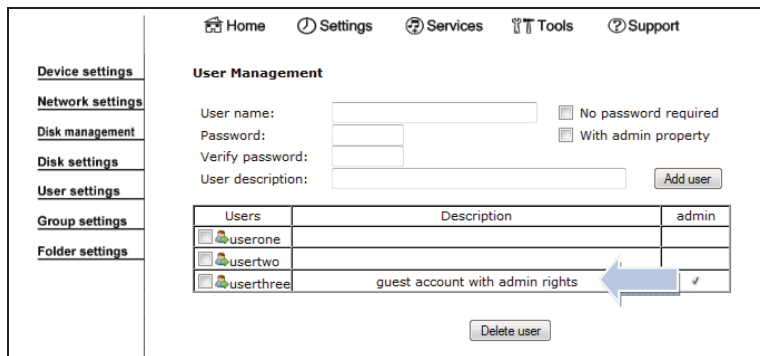
Home Settings Services Tools Support

User Management

User name: ☐ No password required
Password: ☒ With admin property
Verify password:
User description:

Users	Description	admin
userone		
usertwo		

Now you can see the user added.



Home Settings Services Tools Support

User Management

User name:
Password:
Verify password:
User description:

Users	Description	admin
userone		
usertwo		
usethree	guest account with admin rights	<input checked="" type="checkbox"/>

Note: If you create a user and “No password required” is checked (✓), that user would still be required to enter their user name when entering a folder via the network.

Checking (✓) the “With admin property” box, gives the user admin rights

To modify a user

Click on the small user icon



The Modify User Properties window appears

Here you can modify User Name, Password and Description. You can also decide to set “No password required”, or you can select to give this user administrator access by checking (✓) the “With admin property” box.

Note: Giving a user administrator access, allows that user to enter and amend, via the network all folders created on your VALKYRIE.

Example

Change name to New Name

Enter same password (you can change password if required)

Change description: Your New Description

Select Update

You will now see user name and description have been changed

Users	Description	admin
userone		
usertwo		
userthree	guest account with admin rights	✓

At the bottom right is a 'Delete user' button.

To delete user

Check (✓) the box next to the user you wish to delete

Select "Delete user"

Users	Description	admin
userone		
usertwo		
userthree	guest account with admin rights	✓

Note: Deleting a user will also delete that user's FTP folder

Admin user

Default user name: admin

Default password: root

The admin user is the administrator. The administrator has full rights to all folders on the network.

This user cannot be deleted.

The admin user name cannot be modified.

The admin User description cannot be modified.

Features that can be modified:

Password

The default password is **root**. You can change this password to one of your choice

If you change the password, and at a later date forget its setting, it is possible to create a new password without knowing the previous value.

Admin Folder Management

☐ Make admin folder invisible to non-admin users.

Save

"No password required" check box can be selected (✓). This allows the user to enter the admin user name, without entering a password when viewing folders via the network, giving full administration rights to folders on the network.

2.9 Groups

Setting up Groups

The Group section allows you to setup a number of users into a group. You can then give this group user rights to folders (allowing all members of the group the user rights you have set)

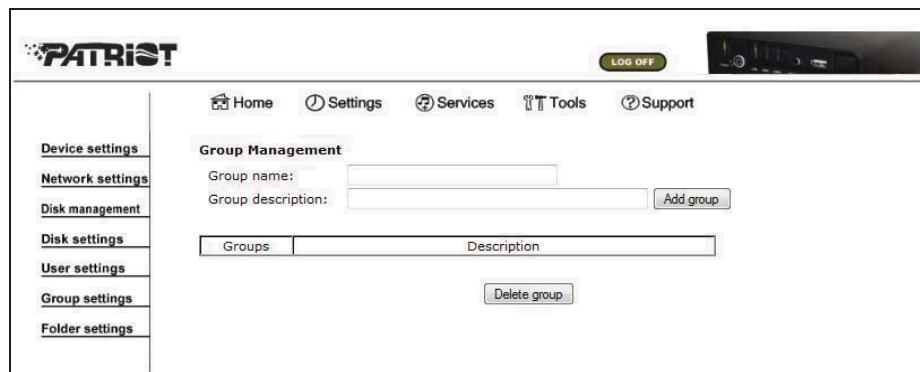
From the menu
Select, **Access, Groups**

In the Group Management window

Enter a Group name

Enter Group description (you can leave this section blank if you prefer)

Select “**Add Group**”










The screenshot shows the PATRIOT Group Management interface. At the top, there is a navigation bar with the PATRIOT logo, a LOG OFF button, and a menu with Home, Settings, Services, Tools, and Support. On the left, there is a sidebar with links to Device settings, Network settings, Disk management, Disk settings, User settings, Group settings, and Folder settings. The main content area is titled "Group Management" and contains two input fields: "Group name:" and "Group description:". Below these fields is an "Add group" button. At the bottom, there is a table with two columns: "Groups" and "Description". Below the table is a "Delete group" button.

Groups	Description
--------	-------------

To add users to a group

Click on the small user icon



Home Settings Services Tools Support

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

Group Management

Group name:






Group description:

Groups	Description
<input type="checkbox"/> GroupOne	The first group

A window appears showing all users you have created

Check the box next to users you want added to group

Select **“Apply”**



Home Settings Services Tools Support

Device settings

Network settings

Disk management

Disk settings

User settings

Group settings

Folder settings

Group Name **GroupOne**

New group name:


Group description:

User list of group

Users	Description
<input checked="" type="checkbox"/> userone	
<input checked="" type="checkbox"/> usertwo	
<input type="checkbox"/> userthree	guest account with admin rights

The selected users are now part of that group

You can modify the name and description of a group simply by opening that group

(Click on the small user icon ) , enter a new name or description and select “Update”

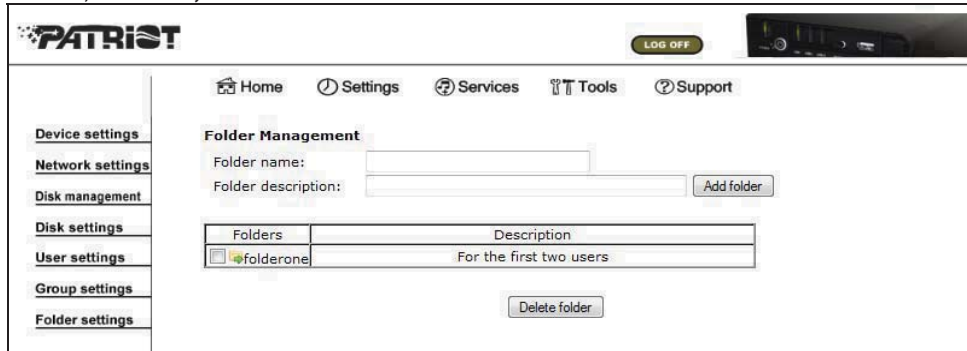
To delete a group, check (✓) the box next to the group name and select **“Delete group”**

2.10 Folders

Creating folder

From the menu

Select, **Access, Folders**



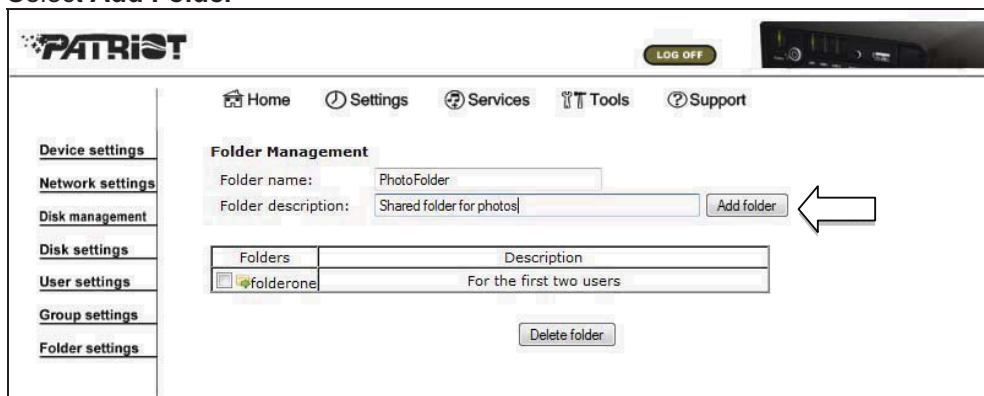
The screenshot shows the PATRIST web interface. On the left is a sidebar menu with options: Device settings, Network settings, Disk management, Disk settings, User settings, Group settings, and Folder settings. The main content area is titled 'Folder Management'. It contains two input fields: 'Folder name:' and 'Folder description:', followed by an 'Add folder' button. Below these is a table with two columns: 'Folders' and 'Description'. The table contains one entry: a folder icon, 'folderone', and 'For the first two users'. At the bottom of the table is a 'Delete folder' button. The top of the interface includes a 'LOG OFF' button and a navigation bar with links: Home, Settings, Services, Tools, and Support.

In the Folder Management window

Enter a Folder name

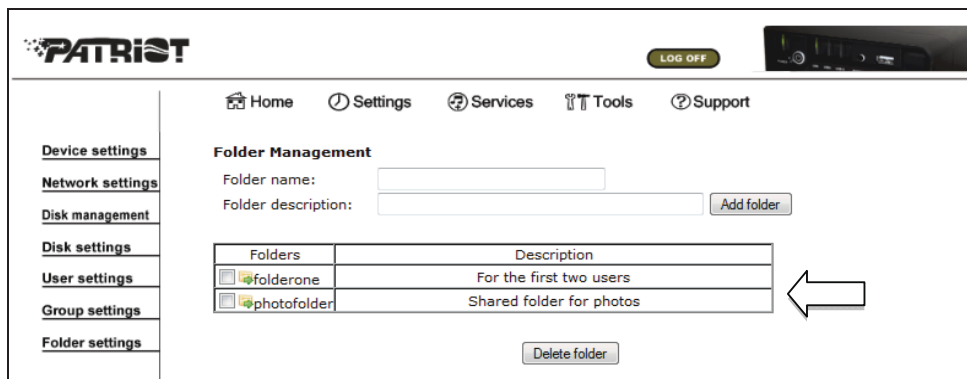
Enter Folder description (you can leave this section blank if you prefer)

Select **Add Folder**



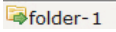
This screenshot shows the 'Folder Management' window with the 'Folder name' field containing 'PhotoFolder' and the 'Folder description' field containing 'Shared folder for photos'. A white arrow points to the 'Add folder' button. The table below now shows two entries: 'folderone' with description 'For the first two users' and 'photofolder' with description 'Shared folder for photos'. The 'Delete folder' button remains at the bottom.

You will now see the folder you have added



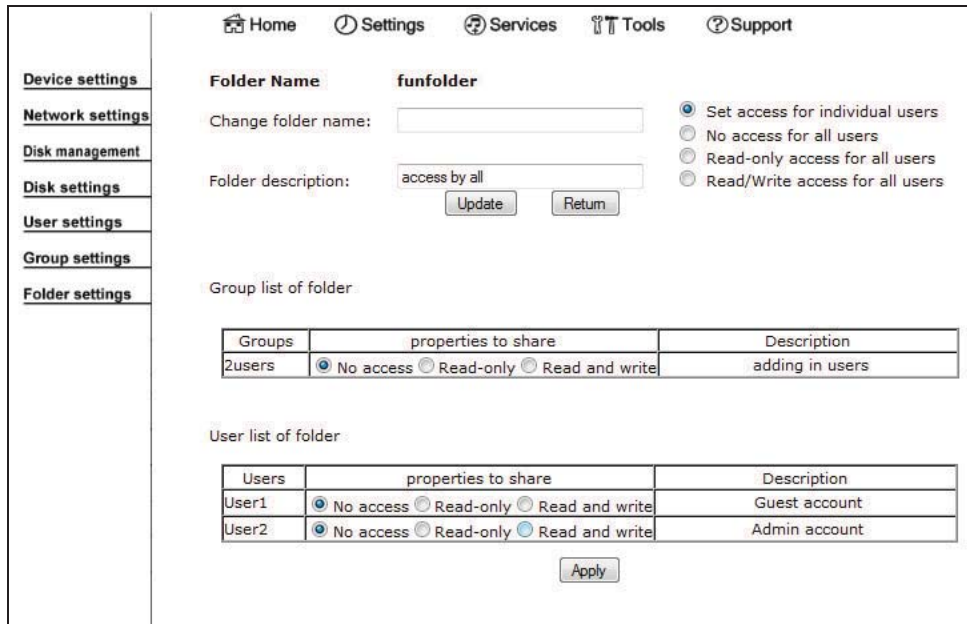
This screenshot shows the 'Folder Management' window after the folder has been added. The 'Folder name' and 'Folder description' fields are empty. The table now lists three folders: 'folderone' (description: 'For the first two users'), 'photofolder' (description: 'Shared folder for photos'), and a third folder with a folder icon and no text. A white arrow points to the 'Delete folder' button.

Setting user access rights to a folder

Click on folder icon 

A window will appear allowing you to setup user access rights to that folder

By default, access rights are set to “Set access for individual users” with “No access” selected for each group & user (this means you can select the rights for each group & user on an individual basis)



The screenshot shows a window titled 'funfolder' with a sidebar on the left containing navigation links: Device settings, Network settings, Disk management, Disk settings, User settings, Group settings, and Folder settings. The main area has a top navigation bar with Home, Settings, Services, Tools, and Support. Below this, the 'Folder Name' is 'funfolder'. There are input fields for 'Change folder name:' and 'Folder description:' (containing 'access by all'), with 'Update' and 'Return' buttons. To the right, there are radio buttons for 'Set access for individual users' (selected), 'No access for all users', 'Read-only access for all users', and 'Read/Write access for all users'. Below these are two tables: 'Group list of folder' and 'User list of folder'. Each table has columns for 'Groups' or 'Users', 'properties to share', and 'Description'. The 'Group list of folder' table has one row for '2users' with 'No access' selected and description 'adding in users'. The 'User list of folder' table has two rows: 'User1' with 'No access' selected and description 'Guest account', and 'User2' with 'Read and write' selected and description 'Admin account'. An 'Apply' button is at the bottom.

Groups	properties to share	Description
2users	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	adding in users

Users	properties to share	Description
User1	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	Guest account
User2	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input checked="" type="radio"/> Read and write	Admin account

With “Set access for individual users” and “No access” selected, you can change each group & users “Properties to share” by selecting either

No access (that group or user has no access to this folder)
Read-only (that group or user has read only access to this folder)
Read and write (that group or user has read and write access to this folder)

Note:

If you change the “Share properties” in Groups, select “Apply” under Groups

If you change the “Share properties” in Users, select “Apply” under Users

If changes are required in both the Groups and Users sections, then complete each section separately

Global Settings

<input checked="" type="radio"/>	Set access for individual users
<input type="radio"/>	No access for all users
<input type="radio"/>	Read-only access for all users
<input type="radio"/>	Read/Write access for all users

You can change these global settings by selecting one of the following options (as above): -

- ☐ No access for all users
- ☐ Read-only access for all users
- ☐ Read/Write access for all users

Then select "Update"

Set access for individual users

Allows you to set access rights to individual groups or users

No access for all users

Allows you set no access to that folder (only accessible via admin in network)

Read-only access for all users

Allows all users and groups read-only access to that folder

Read/Write access for all users

Allows all users and groups Read/Write access to that folder

Group Settings

Group list of folder		
Groups	Properties to share	Description
group-1	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	
<input type="button" value="Apply"/>		

No access: All users within that group will have no access to that folder

Read-only: All users within that group have read-only access to that folder

Read and Write: All users within that group have Read/Write access to that folder

User Settings

User list of folder		
Users	Properties to share	Description
user-1	<input checked="" type="radio"/> No access <input type="radio"/> Read-only <input type="radio"/> Read and write	

No access: For that user to this folder

Read-only: For that user to this folder

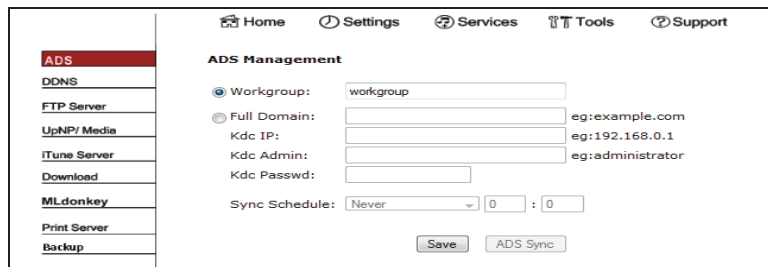
Read and write: For that user to this folder

Section 3: Services

3.1 ADS (Active Directory Service)

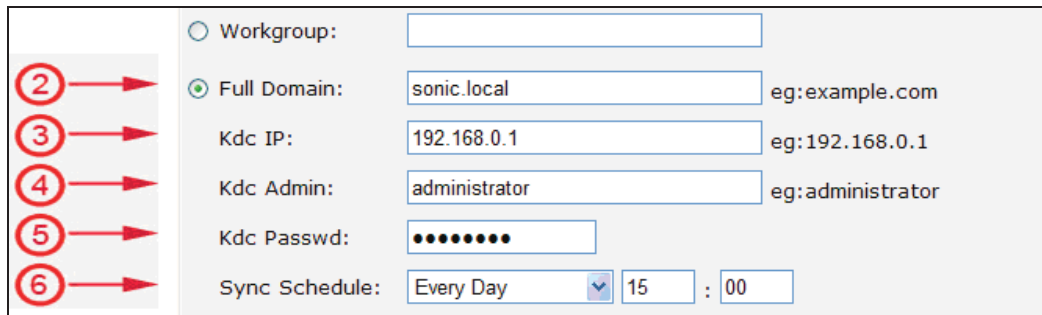
First, ensure that the date and time settings on your VALKYRIE (section 2.1) are in sync with your server i.e. VALKYRIE date and time settings must match the AD Server.

- 1) Under Access, select **ADS**



The screenshot shows the 'ADS Management' configuration page. On the left is a sidebar with a menu containing 'ADS' (highlighted in red), 'DDNS', 'FTP Server', 'UpNP/ Media', 'iTune Server', 'Download', 'MLdonkey', 'Print Server', and 'Backup'. The top navigation bar includes 'Home', 'Settings', 'Services', 'Tools', and 'Support'. The main content area is titled 'ADS Management' and contains the following fields: 'Workgroup' (radio button selected, text box 'workgroup'), 'Full Domain' (radio button selected, text box 'sonic.local', example 'eg:example.com'), 'Kdc IP' (text box '192.168.0.1', example 'eg:192.168.0.1'), 'Kdc Admin' (text box 'administrator', example 'eg:administrator'), 'Kdc Passwd' (password field), and 'Sync Schedule' (dropdown menu 'Never', time boxes '0' and '0'). At the bottom are 'Save' and 'ADS Sync' buttons.

- 2) Select, Full Domain [enter the domain name of your server]
- 3) Kdc IP [enter the IP address of your server]
- 4) Kdc Admin [enter administrator]
- 5) Kdc Password [enter your administrator password]
- 6) Sync Schedule [from pull-down menu select a sync schedule day, and then type in a suitable time]
- 7) Save and confirm settings



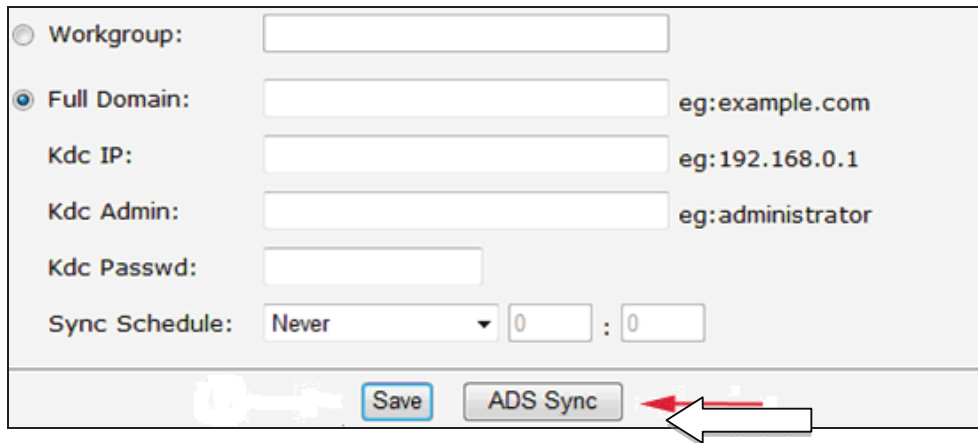
This screenshot is identical to the previous one but includes numbered callouts on the left side, each with a red arrow pointing to a specific field: 2 points to the 'Full Domain' radio button, 3 points to the 'Kdc IP' text box, 4 points to the 'Kdc Admin' text box, 5 points to the 'Kdc Passwd' password field, and 6 points to the 'Sync Schedule' dropdown menu. The values entered in the fields are: 'sonic.local' for Full Domain, '192.168.0.1' for Kdc IP, 'administrator' for Kdc Admin, and 'Every Day' for Sync Schedule, with '15' and '00' in the time boxes.

Once you have completed the setup of ADS, all users and groups on your server can be seen on your VALKYRIE

User and Group access can then be setup as previously described in the folders section 5.3

Note: In ADS mode, Users & Groups cannot be created or modified via your VALKYRIE
Adding /modifying users and groups must be carried out on the server

When you add /remove users or groups on your server, you can update that information to your VALKYRIE immediately by selecting “**ADS Sync**”.



The screenshot shows the VALKYRIE GUI configuration for ADS. It features a 'Workgroup' section with a radio button and a text field. Below it, the 'Full Domain' radio button is selected, followed by a text field with the example 'eg:example.com'. Further down are fields for 'Kdc IP' (example: 192.168.0.1), 'Kdc Admin' (example: administrator), and 'Kdc Passwd'. A 'Sync Schedule' section includes a dropdown menu set to 'Never' and two input fields for hours and minutes, both set to 0. At the bottom of the configuration area, there are two buttons: 'Save' and 'ADS Sync'. A red arrow points to the 'ADS Sync' button.

Note:

- a) Resetting your VALKYRIE to factory default, will reset the ADS function to OFF (default setting). In this case, you must reconnect to ADS as above. Please check the AD connectivity status in the VALKYRIE GUI (Access, ADS menu).
- b) The local samba admin account is disabled whilst in AD mode.

Please see appendix A for a guide to AD connectivity

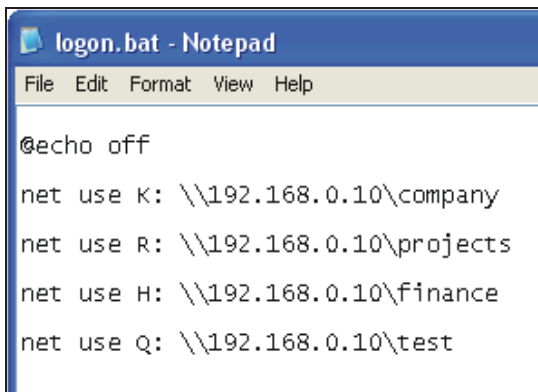
ADS Mode Recommended Folder Access methods

Method 1

This method involves the use of a logon script and is a method system administrators will be familiar with. It also offers an easy and convenient folder access process, particularly for users who experience difficulty in accessing VALKYRIE folders via My Network Places / Neighborhood. For those of you who are new to this process, please review the following information.

A sample logon script has been provided for your information.

Note: The content of a logon script can vary from business to business, and can contain other options not illustrated in our example e.g. mapping network printers. The sample is provided for illustration purposes only, and should not be taken as a recommendation.



```
logon.bat - Notepad
File Edit Format View Help

@echo off
net use K: \\192.168.0.10\company
net use R: \\192.168.0.10\projects
net use H: \\192.168.0.10\finance
net use Q: \\192.168.0.10\test
```

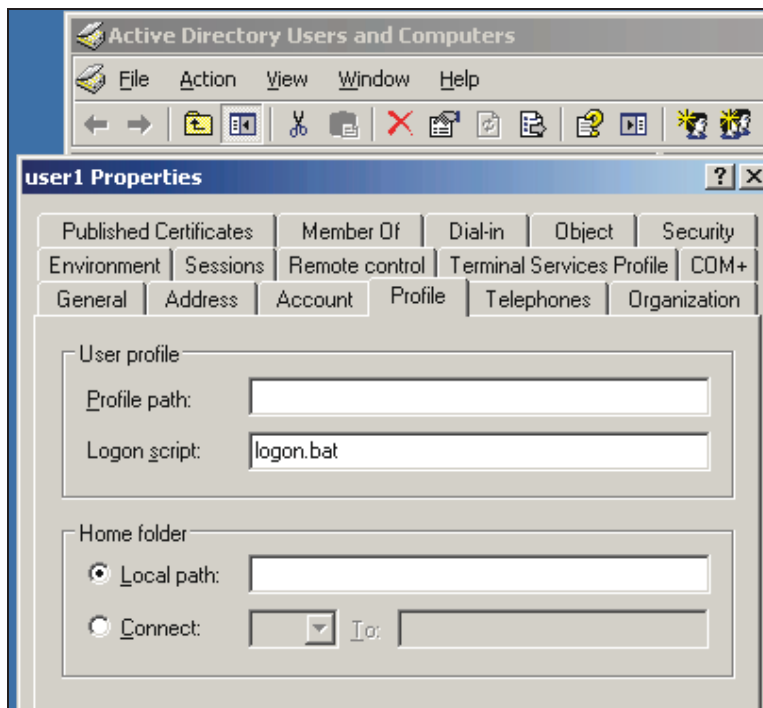
This file can be created in notepad, then saved with a .bat extension i.e. logon.bat

The file contains mappings to VALKYRIE folders created by the system administrator, and to which users should have access permissions. Please note that drive letters cannot be used more than once and cannot already be in use. In the sample file, folders will be mapped to the following drive letters K: R: H: and Q:

It is important to use the IP address for the VALKYRIE in the login script file, and mappings can be created in the form illustrated above. (Obviously the IP address and folder names are dependant on your own particular setup).

When the file is completed and saved, System Administrators should add this to the C:\Windows\SYSVOL\domain\scripts folder on their windows AD server. The script file name must also be configured within the user account properties for all users who require access to the folders via the login script.

This is done in the user account profile tab, which can be found within Active Directory Users and Computers (illustrated below)



Simply add the logon script file name as shown.

Now when this user logs on to their system, the folders will be mapped in My Computer / Windows Explorer. This should make folder access simple and convenient.

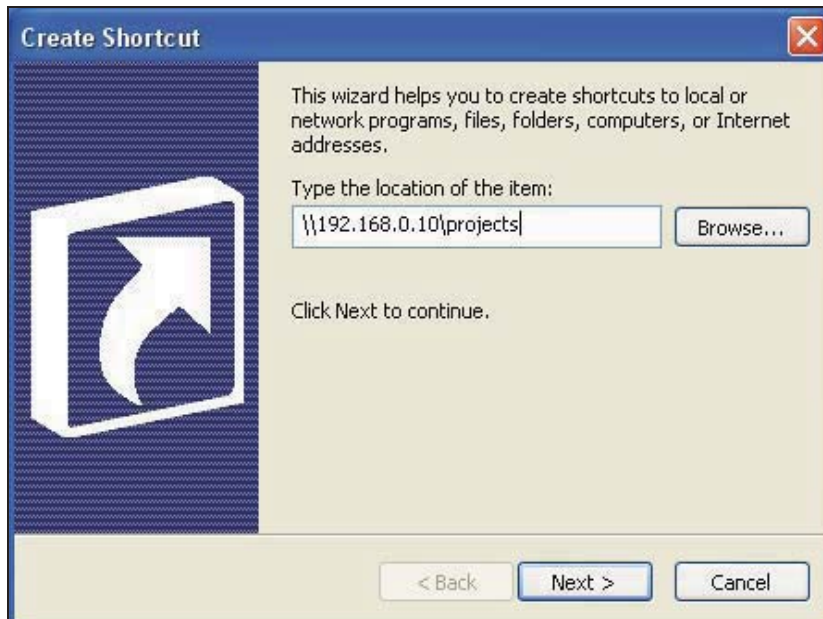
Employing these methods will require a static IP address for the VALKYRIE

Method 2

This section will provide details on accessing folders using the shortcut method, which offers both desktop accessibility and drive mapping to your VALKYRIE folders.

The process begins as follows: -

Right click on your desktop and select new, then shortcut. This will bring up this window:



Enter the IP address of your VALKYRIE and specify the folder you wish to connect to (e.g. projects). Please note you must have permission to access the folder, which can be setup via the VALKYRIE GUI. Don't forget to use the double backslash \\ at the beginning.

Click next, then type in a name for your shortcut that has a meaning for you (e.g. Projects shortcut), or accept the default name, then click finish. This will create a desktop shortcut to the projects folder.

After the shortcut has been created, it can then be added as a mapped drive (if required).

Please see Appendix B for further information i.e. Drive Mapping

3.2: More ADS Settings

More options to enhance productivity when using the Valkyries Active Directory Server.

3.2.1 ADS Connectivity

This is a simple step by step connectivity guide which will help with initial VALKYRIE / AD Server connectivity.

- 1) Ensure that the AD Server is fully up and running.
- 2) Install the NetTool (found on the provided CD) onto the server.
- 3) Connect VALKYRIE to the AD server network (via RJ45 LAN cable), and switch on.
- 4) Ensure that the AD server provides a DHCP IP address lease to the VALKYRIE (viewable from the server DHCP console).
- 5) Open the NetTool, and click "refresh list". Then select the VALKYRIE from the left hand pane device list, and click access via web.
- 6) In the web GUI select the appropriate language from the drop down list, and then move to the "System" - "General Setup" menu located in the left hand pane (use **admin root** in the presented login box). In here you can select the appropriate time zone that matches the AD Server (time and date need to match). At this point it is also possible to adjust the Device Name and Description (if required). Remember to click "Apply" after making any changes. (See note 1 below).
- 7) In the "Interfaces - Network" menu you have the opportunity to check that the AD Server has provided the required IP address information to the VALKYRIE. Note: it is common practice for network storage devices to be given a static IP address. If this is required, please refer to your system administrator for guidance.
- 8) There is an opportunity to configure / format the VALKYRIE HDDs from the "Disks - Management" menu (if not already configured). If you need to complete this now, please refer to the user manual (Section 4 Disks).
- 9) You are now ready to complete the information in the "Access - ADS Management" window (see note 2 below), then click "Save" and confirm.
- 10) When the connection is successful, the VALKYRIE will now have a computer account on the AD Server, and AD users and groups will have synchronized and be visible in the VALKYRIE. You can check this in the Access users, and Access group's menus respectively. This will provide the opportunity to grant permissions to VALKYRIE folders for these users and groups on completion of the VALKYRIE folder setup.

Note 1:

Occasionally when changes are made to settings, it may appear that the settings have reverted to their original values. If you suspect that this has occurred, you should refresh the view before attempting further changes.

- a) To refresh the view it is normally a case of clicking another menu item, and then returning to the menu where you made your changes. This is often enough to refresh the view and your new settings will now be visible.
- b) In rare cases, it may also be necessary to delete your browsing history in Internet Explorer (IE) from the page menu, (selecting delete all, including add-ons) and then reopen both the NetTool and GUI.

Note 2:

Most of the required information is self explanatory, but it is important that all fields are completed, including the sync schedule.

When completing the domain field it is not necessary to enter the FQDN. I have provided an example below.

If your windows server hostname is Alpha, and the Domain is named Beta, then this will create the following full name on the server alpha.beta.local
In this case it is only necessary to enter beta.local in the domain field to allow connection to take place.

3.2.2 ADS Folder Access via Shortcut (Drive Mapping)

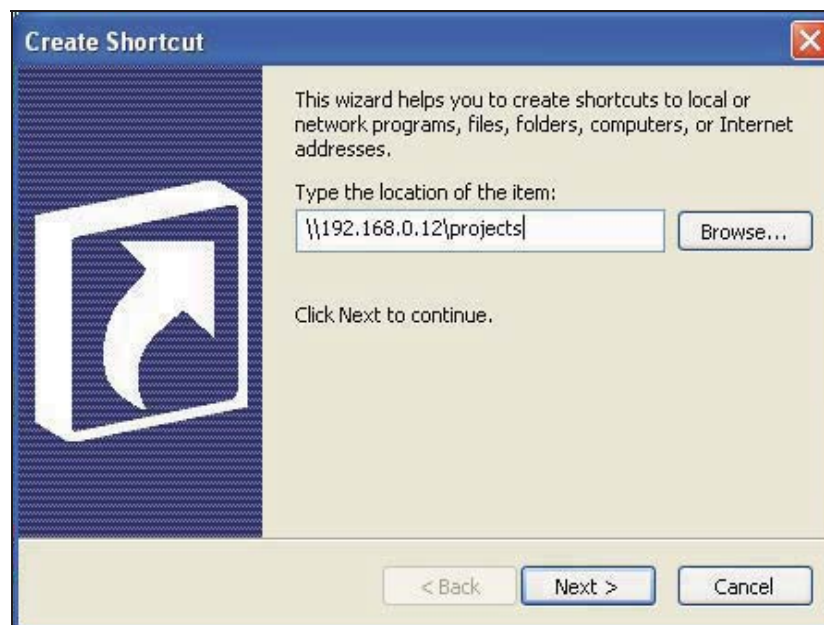
This section will provide details on mapping folders using the shortcut method, which offers both desktop accessibility and drive mapping to your VALKYRIE folders.

To reiterate: on the setup method shown in Section 5.5 ADS (Active Directory Service – Method2), please see below, along with further detail on how to then map your VALKYRIE folders, offering greater flexibility

This section will provide details on accessing folders using the shortcut method, offering both desktop accessibility and drive mapping to your VALKYRIE folders.

The process begins as follows: -

Right click on your desktop and select new, then select shortcut. This will bring up this window



Enter the IP address of your VALKYRIE and specify the folder you wish to connect to (e.g. projects). Please note you must have permission to access the folder, which can be setup via the VALKYRIE GUI. Don't forget to use the double backslash \\ at the beginning.

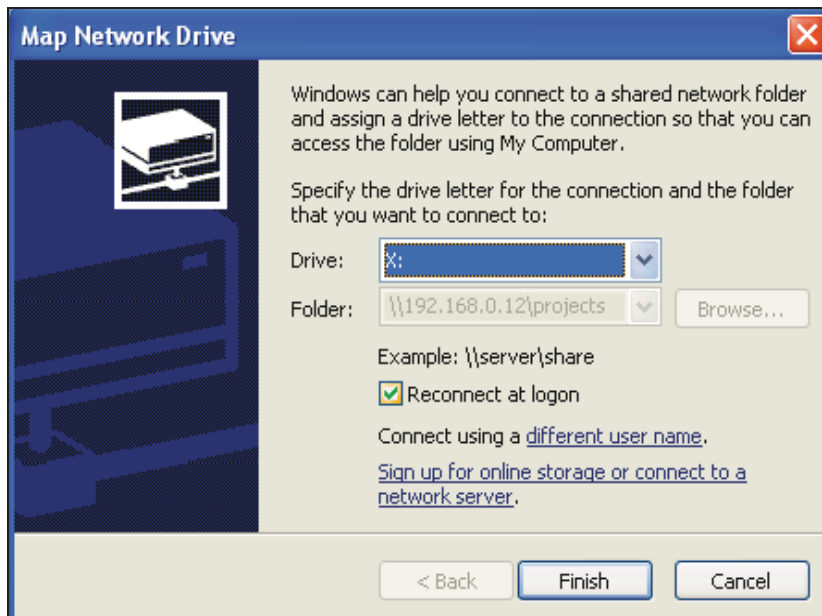
Click next, then type in a name for your shortcut that has a meaning for you (e.g. Projects shortcut), or accept the default name, then click finish. This will create a desktop shortcut to the projects folder.

After the shortcut has been created, it can then be added as a mapped drive (if required).

To map a network drive, right click on the shortcut and select “Map Network Drive”



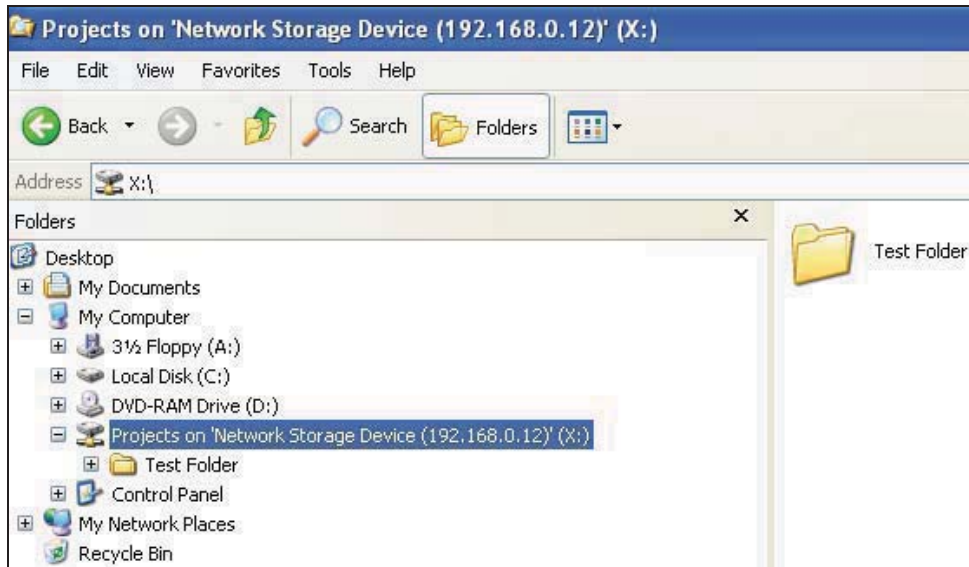
This will map the Project folder in “My Computer” and can be setup as follows



The default drive letter can be changed if required (ensure the drive letter does not conflict with other mappings on your system), then click Finish, ensuring that the “Reconnect at logon” box is checked, as this should ensure the mapped folder is available at logon

My Computer View

The mapped folder can now be seen below

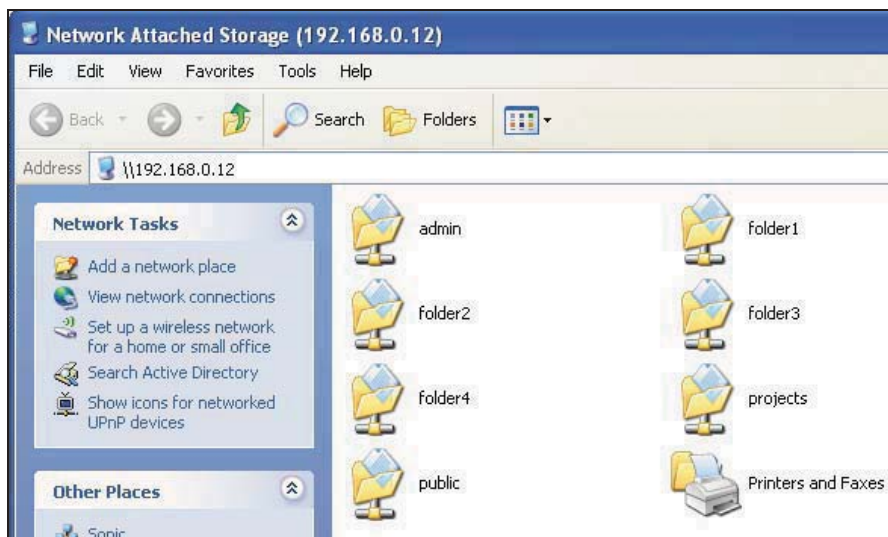


Note: It is also possible to create a shortcut allowing visibility of all VALKYRIE folders. However, you will only be able to gain access to folders if you have access rights

This view can be setup by not specifying a particular folder name when creating the shortcut

i.e. \\192.168.0.12\

This then provides the following view of all VALKYRIE folders; unfortunately this shortcut cannot be mapped.

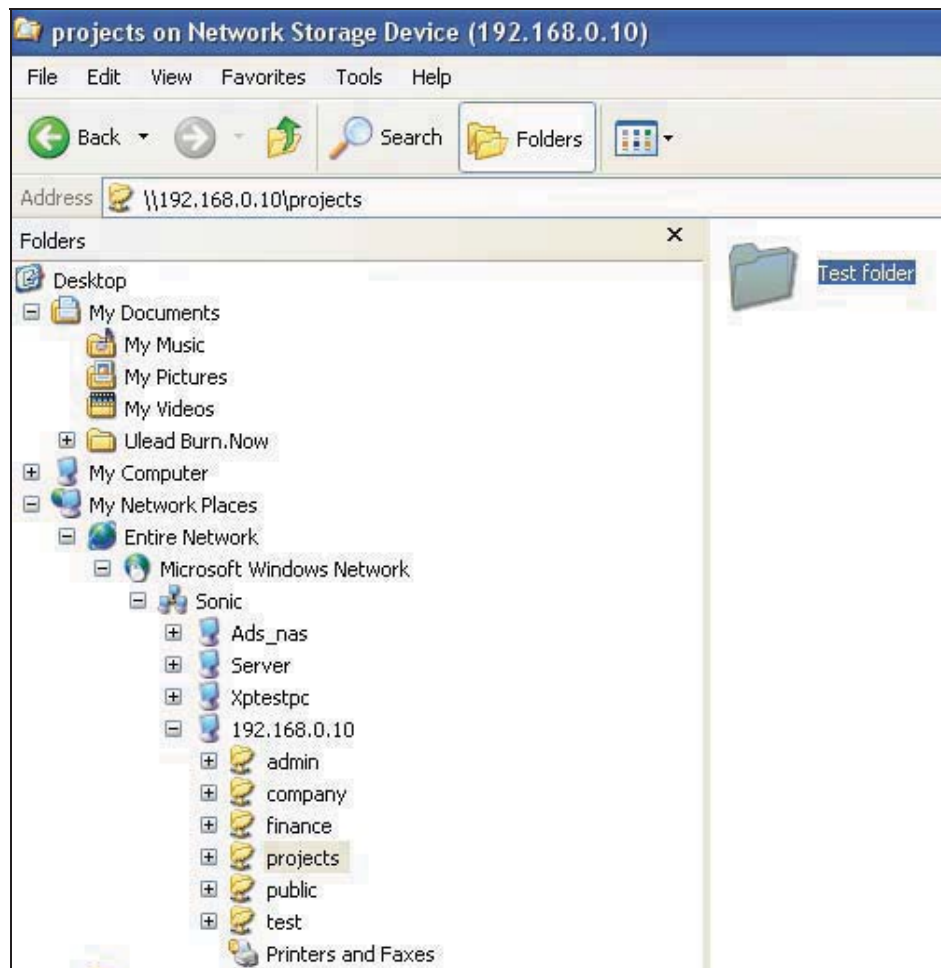


However, VALKYRIE folders shown in this view can be mapped directly without the need to firstly create a short cut. Simply right click on a folder and select “Map Network Drive”

This can be a quick and convenient folder access method, which offers VALKYRIE folder accessibility both from the desktop, and also from a mapped drive

Method 3

In Windows Explorer or Internet Explorer you can type in the address of the folder you wish to access. (Again you need folder access permission) i.e. [\\192.168.0.10\projects](http://192.168.0.10/projects). Obviously the address will depend on your particular setup.



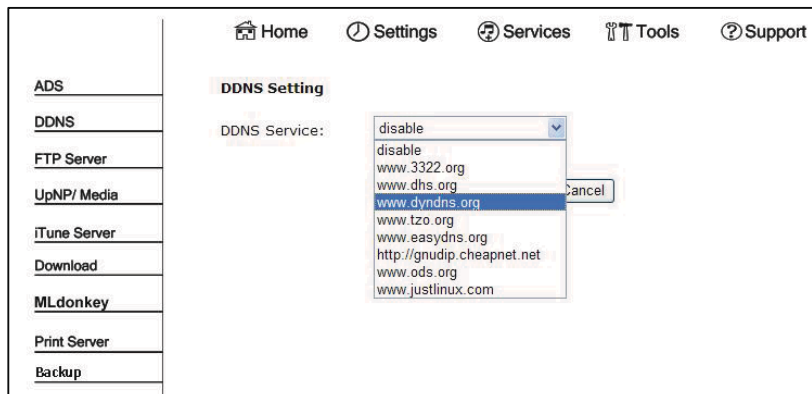
This should allow you access to the Projects folder.

3.3: DDNS (Dynamic Domain Name Server)

Why set up DDNS? For most home users, broadband connectivity is provided to the customer via a dynamic IP address. The name describes that the IP is always changing. For users that need to access files at home via Remote Desktop, an IP address associated with "your" computer/home network is needed. Since the IP is always changing, it would not be possible to track down that IP. This is when DDNS becomes helpful.

Simple step by step for enabling DDNS on your VALKYRIE NAS.

Step 1: Create an account with any DDNS host service. Some are free and some require a maintenance fee. You can find them in a general web search for "free DDNS". Create an account with one that is listed in the drop-down box in the DDNS menu of the VALKYRIE:



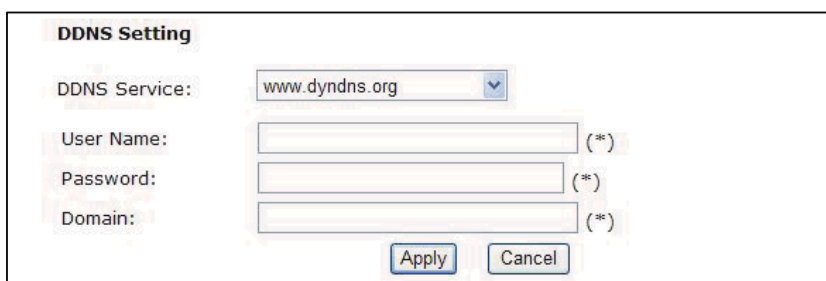
The screenshot shows the VALKYRIE web interface. On the left is a sidebar menu with links: ADS, DDNS, FTP Server, UpNP/ Media, iTunes Server, Download, MLdonkey, Print Server, and Backup. The main content area is titled "DDNS Setting". It contains a label "DDNS Service:" followed by a dropdown menu. The dropdown menu is open, showing a list of options: "disable", "www.3322.org", "www.dhs.org", "www.dyndns.org" (which is highlighted), "www.tzo.org", "www.easydns.org", "http://gnudip.cheapnet.net", "www.ods.org", and "www.justlinux.com". A "Cancel" button is visible to the right of the dropdown list.

Step 2: The DDNS host will normally require you to then login with your username and password once you receive the authentication email.

Step 3: On the Account Services page, click on “Add Host Services” and then “Add Dynamic DNS Host”.

Step 4: You will be able to choose from several domain names. Example: PT123dns.com. Pick a domain name and then come up with a sub-domain. Example: yourname. Your unique domain name looks like yourname.PT123dns.com. You will use this hostname to access your server or home computer. Leave the IP address field blank.

Step 5: Now set up the VALKYRIE by setting up the DDNS section. Pick your DDNS host from the list. Enter your Username and Password.

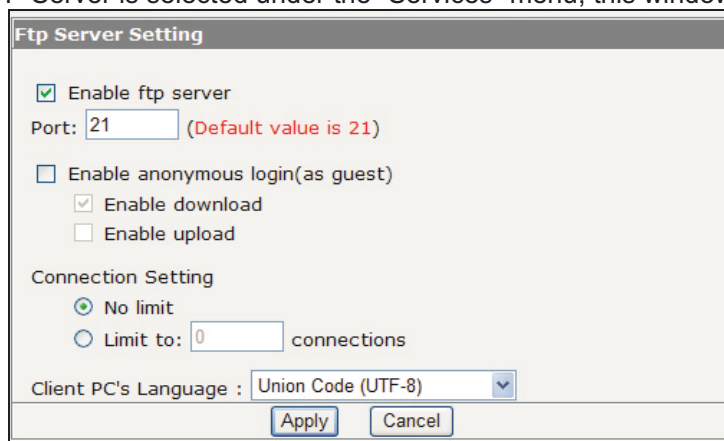


The screenshot shows the "DDNS Setting" page. The "DDNS Service:" dropdown menu now has "www.dyndns.org" selected. Below this are three input fields: "User Name:" with a text box and an asterisk (*) to its right, "Password:" with a text box and an asterisk (*) to its right, and "Domain:" with a text box and an asterisk (*) to its right. At the bottom of the form are two buttons: "Apply" and "Cancel".

3.4 FTP Server

NOTE: Please be aware that by setting up VALKYRIE as an external FTP server, this may disable the VALKYRIE as an internal NAS device.

When the FTP Server is selected under the “Services” menu, this window appears:



The device has an embedded FTP server that allows you and other users to access this device by an FTP client. To setup the FTP server properties, please refer to the following table and click “**Apply**” to execute your settings

Enable FTP Server:	Enabled by default – To disable you must Uncheck “ <input type="checkbox"/> ” the “Enable ftp Server” check box
Port:	The Port number of the FTP server Default value is 21
Enable anonymous login (as guest):	This allows FTP clients to connect with the device without username/password authentication allowing access to a public folder “Enable download” is selected by default allowing users who enter the FTP to read/download from the FTP folder “Enable upload” can be selected allowing users to upload documents to the FTP folder
Connection setting	Selects the number of users that can access the FTP site at one time
Client PC’S Language:	Select client pc’s language

NOTE : The FTP admin username and password are the same as admin user
Username: admin
Password: (default) root (if you have changed the password for the admin user, then use that password)

When a user is created (section 5.1 of this manual) an FTP user account (folder) is also created with the same user name and password. The FTP user account can only be accessed via an ftp client or via the admin / FTP folder on the network.

To access the ftp server:

There are two ways to access the ftp server; internally and externally.

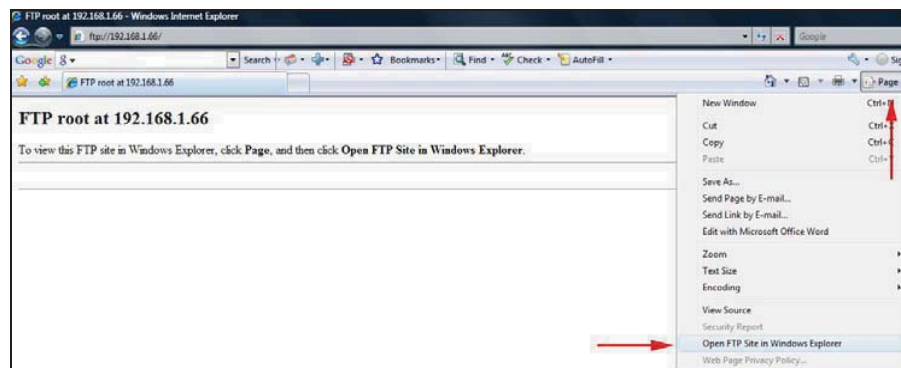
Internally

1. Enter your web browser and type in VALKYRIE IP address
You must put ftp:// in front (i.e. <ftp://192.168.16.3>)



2. Enter the Username (user name of FTP user account you want to open)
3. Enter the Password (password of FTP user account you want to open)
4. Press Log On

You might get the message to open the FTP site in Windows Explorer, click Page and then click Open FTP Site in Windows Explorer



Re-enter user name and password

External

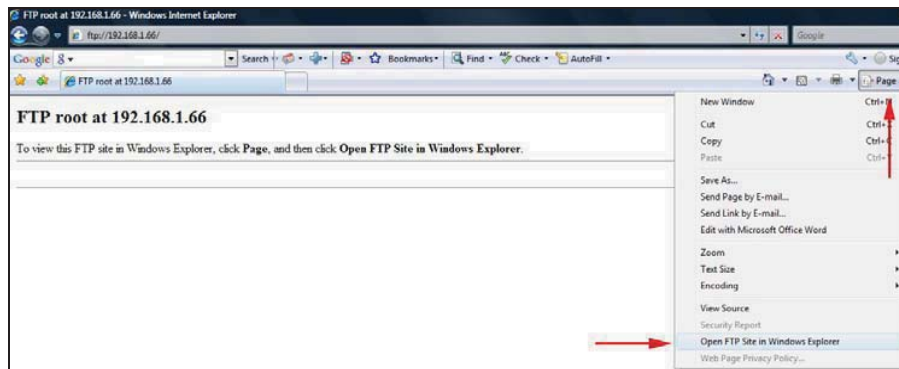
NOTE: To allow external access to your VALKYRIE FTP Server, please consult your Router user manual to setup access rights, this might involve putting your VALKYRIE in the DMZ of your router.

1. Enter your web browser and type in the external IP address, as provided by your router software.
You must put ftp:// in front (i.e. <ftp://81.154.93.250>)



2. Enter the Username (user name of FTP user account you want to open)
3. Enter the Password (password of FTP user account you want to open)
4. Press Log On

You might get the message to open FTP site in Windows Explorer, click Page and then click Open FTP Site in Windows Explorer.



Re-enter user name and password.

External

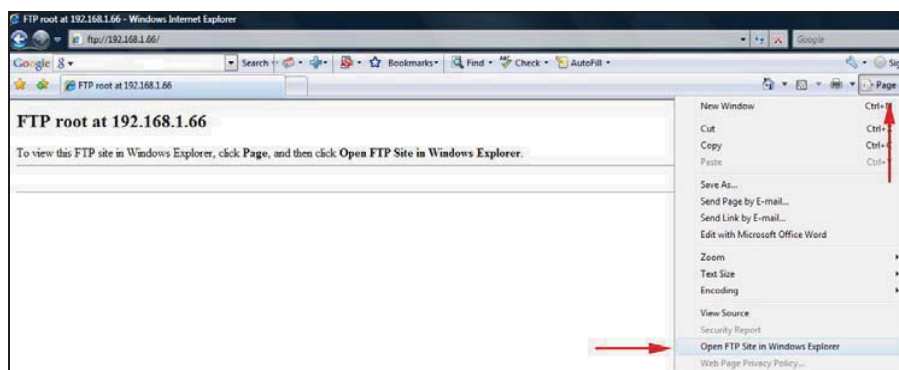
NOTE: To allow external access to your VALKYRIE FTP Server, please consult your Router user manual to setup access rights. This might involve putting your VALKYRIE in the DMZ of your router.

1. Enter your web browser and type in the external IP address, as provided by your router software.
You must put “ ftp:// ” in front (i.e. <ftp://81.154.93.250>)



2. Enter the Username (user name of FTP user account you want to open)
3. Enter the Password (password of FTP user account you want to open)
4. Click “ Log On”.

You might get the message to open FTP site in Windows Explorer. Click “Page” and then click “Open FTP Site in Windows Explorer.”.



Re-enter user name and password.

3.5 Media

This device supports UPnP AV server, which allows users to play media files with UPnP client (ex. DMA devices). Follow the steps below to enable this function:

- To Enable UPnP AV Server (✓) the check box
- From the pull-down menu, select a folder containing media
- If necessary type in the name of a sub-folder
- From the pull-down menu, select a rescan time (the server checks the folder at selected time for updates)
- Select **“Save”**

The screenshot shows the 'Media Function Setting' page of the VALKYRIE interface. On the left is a sidebar menu with options: ADS, DDNS, FTP Server, UPnP/Media (highlighted), iTunes Server, Download, MLdonkey, Print Server, and Backup. The main content area is titled 'Media Function Setting' and contains the following fields:

- UPnP AV Server: Radio buttons for 'Enable' and 'Disable' (selected).
- Server Name: Text field containing 'PCNASVK35S2'.
- Set time interval to rescan: A dropdown menu.
- Search media files in: A dropdown menu.
- Server Status: Text indicating 'Stopped'.
- Buttons: 'Apply' and 'Cancel'.

At the bottom right, there is a 'Language: English' dropdown menu. The VALKYRIE logo is centered at the bottom of the page.

When you want to play your chosen media files on a network PC.
Open your Media Player
Locate your media files on your
VALKYRIE Select Play

Note: UPnP compliant media player software required for successful playback

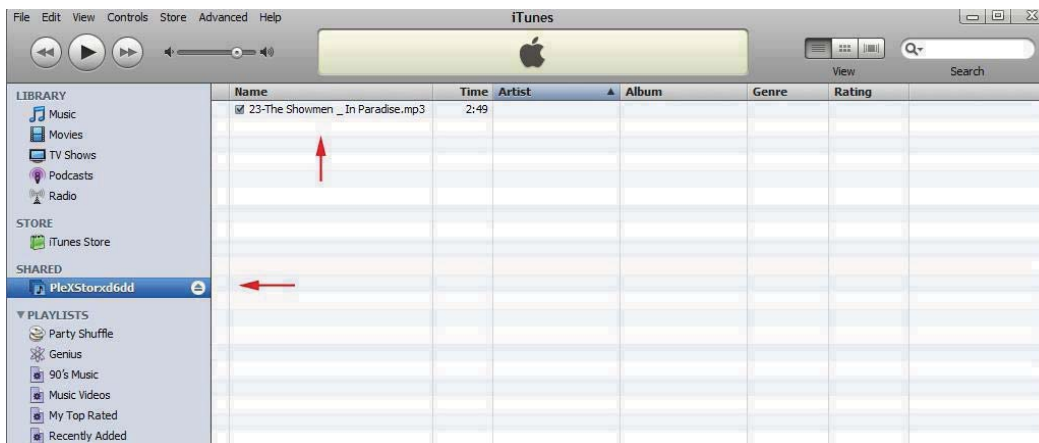
3.6 iTunes

iTunes Server

- 1) Check ☒ to "Enable" iTunes
- 2) From the pull-down menu select a folder containing media on the selected server (enter sub folder if necessary)
- 3) Select "Apply"



Note: iTunes compliant media player software required for successful playback

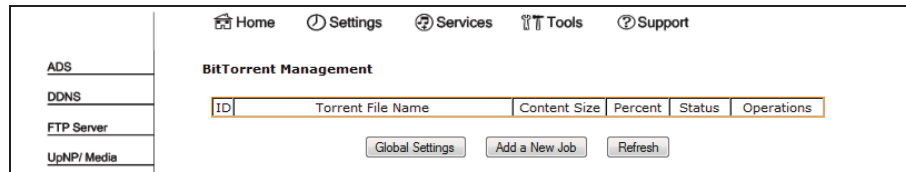


3.7 BitTorrent

Your VALKYRIE can download and upload Torrent files, however, your VALKYRIE cannot go onto the internet and find Torrent files for you. You must find the torrent seed file, and then add that seed file as a new job to your VALKYRIE. Your VALKYRIE will then run in the background, downloading and storing the torrent file.

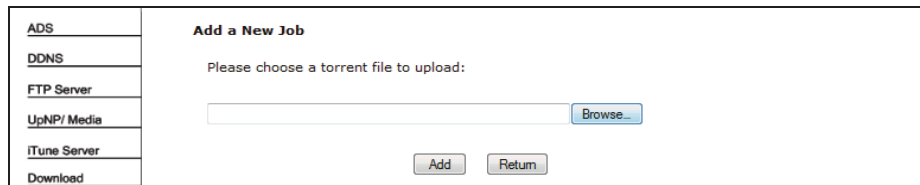
How to download a Torrent file:

- 1) Open the BitTorrent client on your VALKYRIE and select “Add a New Job”







The screenshot shows the BitTorrent Management interface. On the left is a sidebar with links: ADS, DDNS, FTP Server, and UpNP/ Media. The main area has a top navigation bar with Home, Settings, Services, Tools, and Support. Below this is the title "BitTorrent Management". A table with columns ID, Torrent File Name, Content Size, Percent, Status, and Operations is shown. Below the table are three buttons: Global Settings, Add a New Job, and Refresh.

- 2) Select **Browse** to find the Torrent seed files that you have on your PC and select “Add”



The screenshot shows the "Add a New Job" dialog box. It has a sidebar with links: ADS, DDNS, FTP Server, UpNP/ Media, iTunes Server, and Download. The main area has the title "Add a New Job" and the text "Please choose a torrent file to upload:". Below this is a text input field and a "Browse..." button. At the bottom are two buttons: "Add" and "Return".

3) Select **"Start job"**

ID	Torrent File Name	Content Size	Percent	Status	Operations
1		-----	-----	ready	   

The Torrent file will start downloading. You can see the progress by selecting "Refresh".

There are four operations you can do:

Start: If you want to start the job

Stop: If you want to stop the job

Detail: Shows detailed information of the job

Delete: Stop and delete the job



Global Settings

The User can choose in which folder (public or user's) to place the downloaded torrent files.

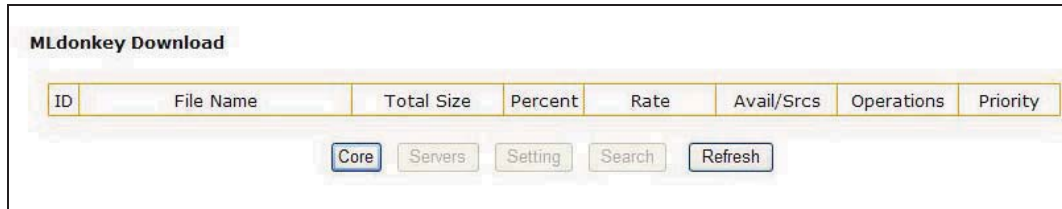
The maximum download and upload rate can be limited to the rate you select.

Seed infinitely – After the download has finished: the file will seed until you stop seeding, or you can set the percentage of share ratio, or how long (in minutes) to share. The user can also choose whether or not to start the next job automatically.

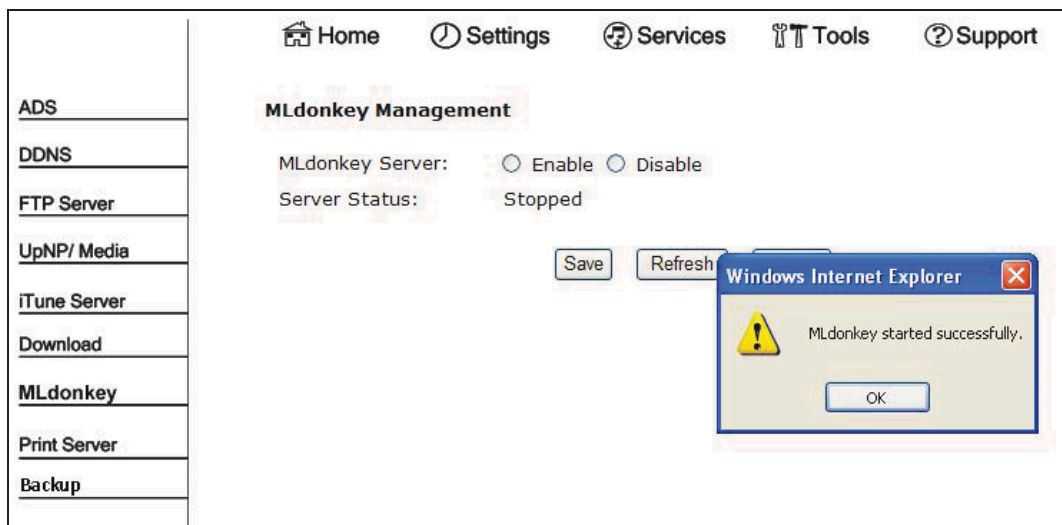
<input checked="" type="checkbox"/> Place torrent file in "public" share folder	
<input type="checkbox"/> Place torrent file in folder	<input type="text"/>
Max download rate per job(0 = no limit, -1 = automatic):	<input type="text" value="0"/> KB/s
Max upload rate per job(0 = no limit, defaults to 0):	<input type="text" value="0"/> KB/s
<input type="checkbox"/> If within <input type="text" value="1 hour"/> no <input type="text" value="download"/> proceeds, switch to next uncompleted job automatically.	
Seed Options:	
<input checked="" type="checkbox"/> Seed infinitely	
<input type="checkbox"/> Seed until share ratio reaches <input type="text" value="80"/> %, or for <input type="text" value="300"/> minutes, whichever comes first. (share ratio = Bytes uploaded / Bytes downloaded).	
<input type="checkbox"/> Start next uncompleted job automatically.	
Download Option:	
<input type="checkbox"/> Continue downloading the uncompleted jobs automatically when BT starts up.	
<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Return"/>	

3.8 MLDonkey

Click on "Core".



Activate "Core" by selecting Enable and Saving.



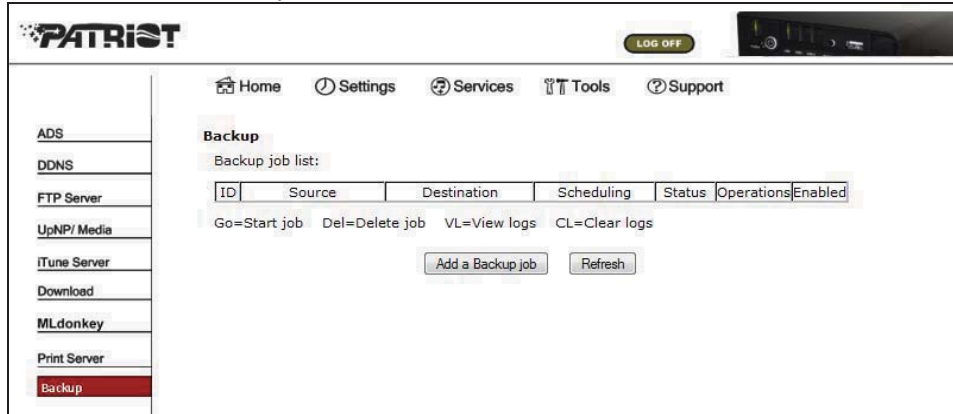
Click "OK" and then the "RETURN" button.

Use the "Search" feature to search.

3.9 Backup

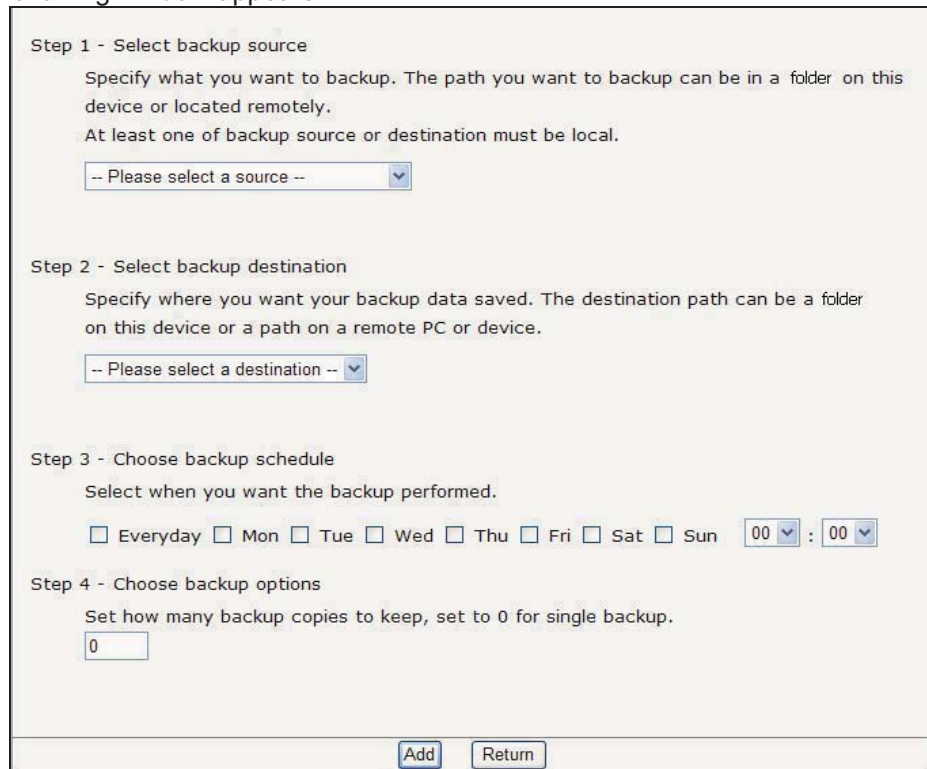
In this section you can backup folders and sub-folders from VALKYRIE to an external USB hard disk drive. This feature is located in "Services -> Backup".

Click on "Add a Backup Job"



The screenshot shows the PATRIOT web interface. At the top, there is a navigation bar with links for Home, Settings, Services, Tools, and Support. A "LOG OFF" button is also present. On the left side, there is a sidebar menu with options: ADS, DDNS, FTP Server, UpNP/ Media, iTunes Server, Download, MLdonkey, Print Server, and Backup (which is highlighted in red). The main content area is titled "Backup" and contains a "Backup job list:" section. Below this, there is a table with columns: ID, Source, Destination, Scheduling, Status, Operations, and Enabled. Below the table, there are links: Go=Start job, Del=Delete job, VL=View logs, and CL=Clear logs. At the bottom of the main content area, there are two buttons: "Add a Backup job" and "Refresh".

The following window appears:



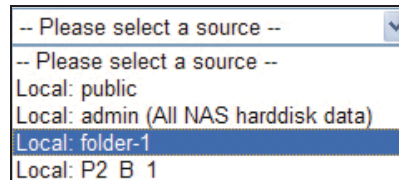
The screenshot shows a configuration window for adding a backup job. It is divided into four steps:

- Step 1 - Select backup source**
Specify what you want to backup. The path you want to backup can be in a folder on this device or located remotely.
At least one of backup source or destination must be local.
A dropdown menu is shown with the text "-- Please select a source --".
- Step 2 - Select backup destination**
Specify where you want your backup data saved. The destination path can be a folder on this device or a path on a remote PC or device.
A dropdown menu is shown with the text "-- Please select a destination --".
- Step 3 - Choose backup schedule**
Select when you want the backup performed.
There are checkboxes for Everyday, Mon, Tue, Wed, Thu, Fri, Sat, and Sun. To the right, there are two dropdown menus for time, both set to 00.
- Step 4 - Choose backup options**
Set how many backup copies to keep, set to 0 for single backup.
A text input field is shown with the value 0.

At the bottom of the window, there are two buttons: "Add" and "Return".

Step 1 - Select backup source

From the pull-down menu, select the folder you wish to backup.



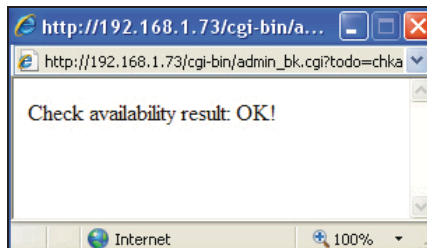
If you wish to backup a sub-folder (a folder within a folder) select that folder from the second drop down menu.



You can check that the VALKYRIE has recognized the folder or path of sub-folder by selecting "Test Availability".

If VALKYRIE can find that folder the availability result will be OK.

If VALKYRIE cannot find the folder, the availability result will be 'Path is invalid!'. If this occurs please check that you have entered the correct folder.



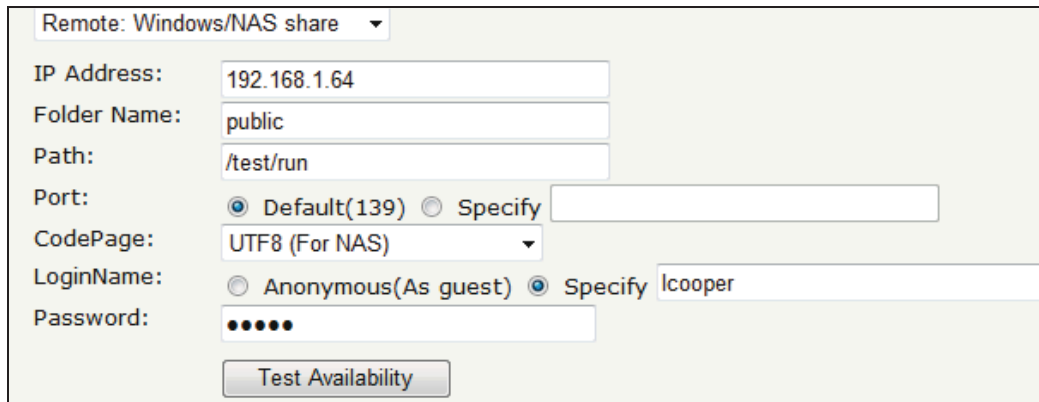
To go back one step, select the "Back Off" button.



Step 2 – Select backup destination

Same procedure as step 1 (except this time select backup destination. e.g. external hard disk drive)

It is also possible to select the Remote: Windows/NAS share (shown below)



The screenshot shows a configuration window for a remote backup destination. At the top, a dropdown menu is set to 'Remote: Windows/NAS share'. Below this are several input fields: 'IP Address' with the value '192.168.1.64', 'Folder Name' with 'public', 'Path' with '/test/run', 'Port' with radio buttons for 'Default(139)' (selected) and 'Specify' (with an empty text box), 'CodePage' with a dropdown set to 'UTF8 (For NAS)', 'LoginName' with radio buttons for 'Anonymous(As guest)' and 'Specify' (selected, with the text 'lcooper' in the adjacent text box), and 'Password' with a masked field of six dots. A 'Test Availability' button is located at the bottom center of the form.

This allows backup from one VALKYRIE to another VALKYRIE

IP Address: Enter the IP address for the remote destination VALKYRIE
Folder Name: Enter the name of a root (top level) share folder on the destination VALKYRIE (where the backup will go)
Path: Add the path and name of the folder which will be used for storing the backup on the destination VALKYRIE (if required). In the example “test” is a sub-folder of public, and “run” is a sub-folder of test. **(Use “/” as a separator)**
Port: Use default, or specify a port
CodePage: Select an appropriate CodePage
LoginName: This is a login account on the destination VALKYRIE which allows access (Note: Account details are required to backup to the public folder)
Password: This is the Password associated with the above account

Notes: -

- a) No spaces are allowed in the backup folder name, as this will cause the “Test Availability” to fail.
- b) After specifying an existing Folder Name (i.e. Public), the Path details can then be entered (if required). You will find that the path is automatically created if it does not already exist.

Step 3 – Choose backup schedule

NOTE: The NTP Server (time.windows.com) may occasionally be out of sync due to Daylight Saving Time (DST). Please ensure you check date & time after a restart or before you start a backup.

Schedule when you want the backup to be performed

☐ Everyday ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☒ Fri ☐ Sat ☐ Sun 17 : 00

Check (✓) the box in front of the day you want the backup to take place, and choose the time from the drop down menu (Example: Backup set for Fri at 17.00 hours)

Step 4 – Choose backup options

Set how many backup copies to keep. Set to 0 for a single backup.

As an example you might want to backup a folder every week, and additionally decide to keep the last 5 weeks of backups before the VALKYRIE starts to over-write the first week. In this case you would enter the number 5 in the box. The 6th week backup will then over-write the first week's backup

Once you have completed setting your backup select **"Add"**

The backup details will then appear, as illustrated below.

If, at any time, you want to backup immediately, select **"Go"**.

Backup

Backup job list:

ID	Source	Destination	Scheduling	Status	Operations	Enabled
1	Type: local Path: /mnt/data/folder-1/test-folder	Type: local Path: /mnt/port2/P2_B_1/target-folder	17:00@Fri	Idle	<div>Go Del VL CL Edit</div>	<input checked="" type="checkbox"/>

Go=Start job Del=Delete job VL=View logs CL=Clear logs

Status Operations Enabled Buttons

Go: Backup immediately

Del: Deletes that job

VL: View Log

CL: Clear Log

Edit: Edit that job

Section 4: Tools

4.1 Firmware upgrade



The screenshot displays the PATRIOT web interface. At the top left is the PATRIOT logo. At the top right is a 'LOG OFF' button. Below the logo is a navigation menu with icons and labels: Home, Settings, Services, Tools (highlighted in red), and Support. On the left side, there is a sidebar menu with the following items: System, Firmware update (highlighted), Admin config, and System log. The main content area is titled 'Firmware Upgrade'. It contains a red note: 'Note: Please do not power off the device while upgrading, in this progress, some device functions will be disabled!'. Below the note, it shows 'Current FW version: V01R01'. There is a text input field for the new firmware file, followed by a 'Browse...' button. Below the input field is a 'Start Upgrade' button.

When new firmware becomes available, you can download it to your PC

To upgrade your VALKYRIE to the new firmware, use the “Browse” function to find the new firmware you have just downloaded. Select the file, and click open. You should now see the new firmware file location in the Browse box

Select “Start Upgrade” and the VALKYRIE will upgrade and restart automatically

4.2 Restart

The screenshot shows the PATRIST web interface. On the left is a sidebar with links: System (highlighted), Firmware update, Admin config, and System log. The main content area has a top navigation bar with Home, Settings, Services, Tools, and Support. Below this, the 'Restart Device' section is active, showing a 'restart Now' button. The 'Scheduling' section below it has a 'Restart:' label, a dropdown menu set to 'Never', and two input fields for hours and minutes, both set to '0'. 'Apply' and 'Cancel' buttons are at the bottom of the scheduling section.

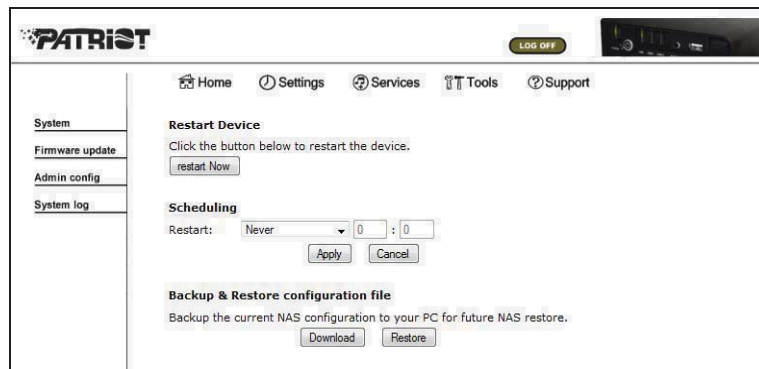
You can restart your VALKYRIE immediately (“Restart Now”), or you can schedule an automatic restart by setting a date and time in the “Scheduling” box.

From the pull-down menu, select a schedule day, and then type in a time you would like to restart your VALKYRIE automatically. Select “Apply”.

This screenshot is a close-up of the 'Scheduling' section from the previous image. It includes three purple arrows pointing to the 'Restart:' dropdown menu, the hour and minute input fields, and a green arrow pointing to the 'Apply' button.

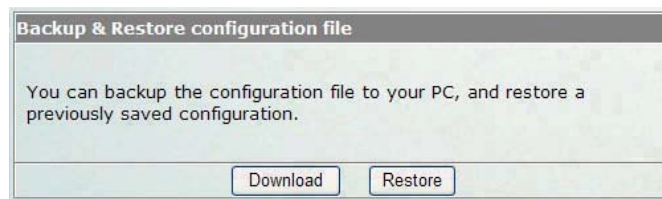
This screenshot shows the 'Scheduling' section with the 'Restart:' dropdown menu open. The menu lists the following options: Never, Every Day, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday, and Every Saturday. The 'Apply' button is visible below the menu. To the right, a partially visible 'Backup & Restore' section shows a 'Restore' button.

4.3 Backup & Restore



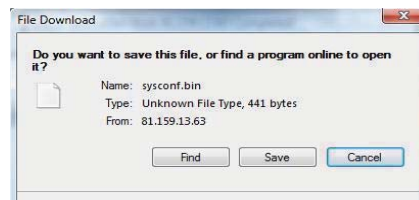
Once you have setup / configured your VALKYRIE to your requirements, “Backup and Restore” allows you to save this configuration information to your PC so you can restore these settings at a later date. You may want to create a folder on your PC to store the Config file.

(Settings saved in the configuration file includes, Network, System General Setup, Restart Schedule, Login, Admin folder visibility, FTP Server, Media and iTunes)

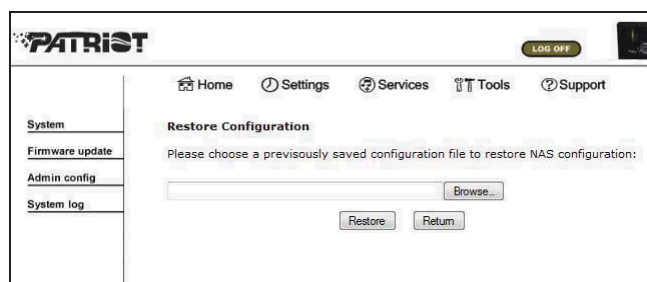


Windows firewall security settings might ask for confirmation to download file onto PC.

Download: When you select save, the configuration file will be saved to your PC, after you have chosen / created a suitable folder.



Restore: This function allows you to restore previously saved settings. Select Browse; find and open previously saved file, then select Restore.



4.4 Factory Default

Only use this function when you want to reset your VALKYRIE back to the factory default settings or reset the default IP address and login settings.

The screenshot shows the VALKYRIE web interface with a navigation bar at the top containing links for Home, Settings, Services, Tools, and Support. On the left, a sidebar menu lists System, Firmware update, Admin config, and System log. The main content area is titled 'Backup & Restore configuration file' and includes a description: 'Backup the current NAS configuration to your PC for future NAS restore.' Below this are 'Download' and 'Restore' buttons. The 'Factory Default' section contains two options: 'Restore NAS to factory defaults' with a 'Restore Default Settings' button, and 'Restore Default IP and Admin Setting' with a 'Restore IP and Admin' button. The 'Language Support' section shows a red message 'Language module not installed.' and an 'Install / Uninstall' button.

Restore Default Settings

This will restore: Network, System General Setup, Restart Schedule, Login, Admin folder visibility, FTP Server, Media and iTunes settings.

Restore IP and Admin

This will restore: IP address back to default 192.168.16.1 and Admin login settings to "admin" "root".

Your VALKYRIE will restart for the new settings to take effect.

4.5 Admin Config

Here you can change the administrator login settings.

(Default User Name: admin / Default Password: root)

Type in the old password

Type in new name

Type in new password

Confirm new password

Select "Apply"

The screenshot shows the 'Admin Config' page in the VALKYRIE web interface. The navigation bar and sidebar are the same as in the previous screenshot. The main content area is titled 'Login Setting' and includes a red message: 'Change the administrator's password.' Below this are input fields for 'User Name:' (pre-filled with 'admin'), 'Old Password:', 'New Password:', and 'Confirm New Password:'. There are 'Apply' and 'Cancel' buttons. The 'Admin Folder Management' section has a checkbox labeled 'Make admin folder invisible to non-admin users.' and a 'Save' button.

To continue using the menu, you will need to enter the new user name and password.

4.6 Admin Folder

When you enter the VALKYRIE via the network you will see all folders that have been created, including the default admin folder

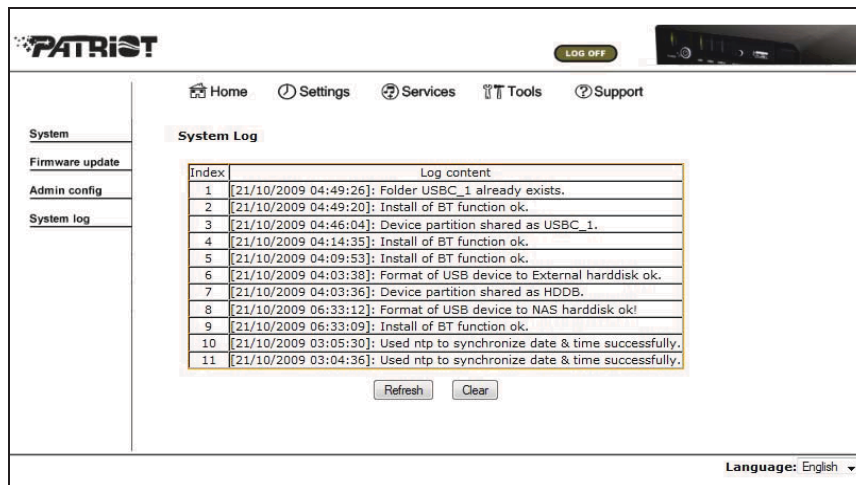
You can make the admin folder invisible to users with no administration rights

Check the “Make admin folder invisible to none-admin users” box.

Select **“Save”**

4.7 System Log

Here you can view recent actions carried out by VALKYRIE



The screenshot shows the PATRIOT web interface. At the top, there is a navigation bar with links for Home, Settings, Services, Tools, and Support. A 'LOG OFF' button is also present. On the left side, there is a sidebar menu with options: System, Firmware update, Admin config, and System log. The 'System log' option is selected, and the main content area displays the 'System Log' table. The table has two columns: 'Index' and 'Log content'. It contains 11 entries, each with a timestamp and a description of a system action. Below the table, there are 'Refresh' and 'Clear' buttons. At the bottom right, there is a language dropdown menu set to 'English'.

Index	Log content
1	[21/10/2009 04:49:26]: Folder USBC_1 already exists.
2	[21/10/2009 04:49:20]: Install of BT function ok.
3	[21/10/2009 04:46:04]: Device partition shared as USBC_1.
4	[21/10/2009 04:14:35]: Install of BT function ok.
5	[21/10/2009 04:09:53]: Install of BT function ok.
6	[21/10/2009 04:03:38]: Format of USB device to External harddisk ok.
7	[21/10/2009 04:03:36]: Device partition shared as HDDB.
8	[21/10/2009 06:33:12]: Format of USB device to NAS harddisk ok!
9	[21/10/2009 06:33:09]: Install of BT function ok.
10	[21/10/2009 03:05:30]: Used ntp to synchronize date & time successfully.
11	[21/10/2009 03:04:36]: Used ntp to synchronize date & time successfully.