

USER MANUAL

DUAL DRIVE NETWORK CENTER

EXTERNAL REMOVABLE DUAL NETWORK HARD DRIVE / 3.5" / GIGABIT LAN / USB 2.0 HOST

Dear user!

Thank you very much for deciding on the **Freecom Dual Drive Network Center**. The Freecom Dual Drive Network Center offers you easy-to-use network storage possibilities and the facility of using the device as a DLNA/UPnP media server and as a torrent download client. Please note: this manual is a general manual which is used for several Freecom products. Product pictures shown in this manual may differ from the device you bought.

Freecom Technologies • Germany
www.freecom.com

Contents of the box

Please check the contents of the box. All articles included in this box are listed on the back side of the packaging.

**Need assistance? Have questions?**

In case you have a question about the use of this product, need information about other Freecom products or need technical assistance, please contact the Freecom Service Center for your country. See www.freecom.com for details.

Freecom offers free unlimited helpdesk support.

**Warning !**

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This device is equipment complying with EN55022 class B.

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We reserve the right to upgrade our products in keeping with technological advances.

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General Information

Your system needs to meet the following hardware and software requirements for the device to function properly.

System requirements

To use the Freecom Dual Drive Network Center, you will require the following components:

PC:

- Intel Pentium III / AMD Duron 900 MHz or higher
- 256 MB RAM (Vista / 7: 512 MB RAM) or higher
- LAN (1000Base-T full duplex connection recommended)
- CD-ROM drive
- Internet connection for online warranty registration, software updates and downloads
- Operating system: Windows XP, Windows Vista, Windows 7

Mac:

- PowerPC G4/G5 or Intel Mac
- 256 MB RAM or higher
- LAN (1000Base-T full duplex connection recommended)
- CD-ROM drive
- Internet connection for online warranty registration, software updates and downloads
- Operating system: Mac OS X v10.4 or higher

In order to enable immediate use, your Freecom Dual Drive Network Center is pre-formatted and configured as RAID 0. You therefore have the maximum storage space available. If you value maximum data security, we recommend the configuration as RAID 1. In the "RAID 1" mode, your hard disks will be mirrored, so that only half the maximum storage space will be available. If one hard disk fails, your data can then be restored from the second hard disk. Further information on hard disk configuration can be found in Section "Configuration of the hard disks" of this manual.

Precautionary measures

To ensure that your Freecom Dual Drive Network Center functions properly, please take note of the following precautions. If these are not followed, you may void your warranty and damage the Freecom Dual Drive Network Center.

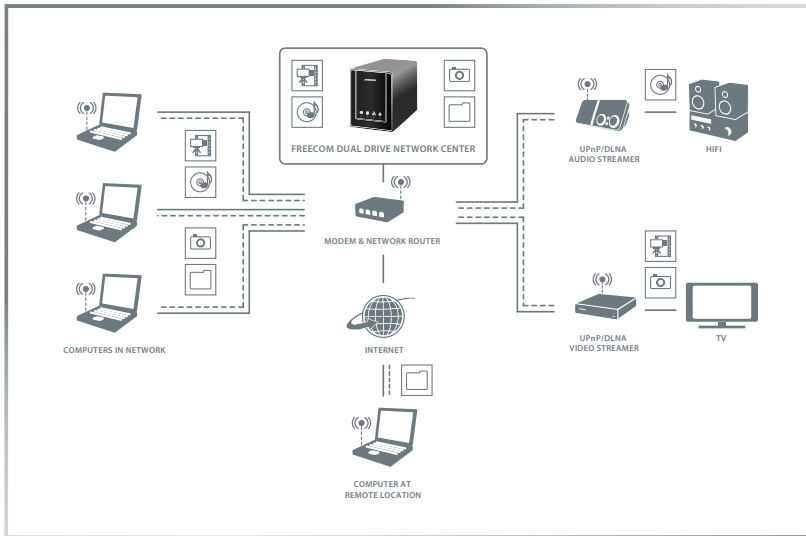
- Do not drop the Freecom Dual Drive Network Center or expose it to other kinds of sudden mechanical shocks as this may result in data loss and damage to the Dual Drive Network Center.
- Do not use the Freecom Dual Drive Network Center when the ambient temperature is below 10°C or above 35°C.
- If the Freecom Dual Drive Network Center is moved from a cool environment to a warmer environment, please allow the drive to acclimatize to the ambient temperature before operating the device. Failing to do so may lead to condensation within the drive enclosure, which in turn may cause the drive to malfunction.
- Do not place liquids or drinks on the Freecom Dual Drive Network Center. When liquids are spilled and get in contact with the electronics within the drive enclosure, it will damage the drive and will cause the drive to malfunction.
- Do not use the Freecom Dual Drive Network Center in a dusty environment. Dust inside the enclosure may damage the internal electronics and result in drive malfunction.
- Only use the power adapter that was supplied with the Freecom Dual Drive Network Center.
- Opening the Freecom Dual Drive Network Center will void the warranty.



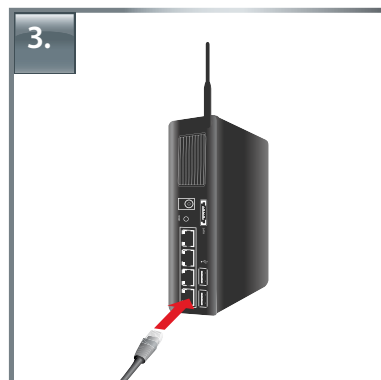
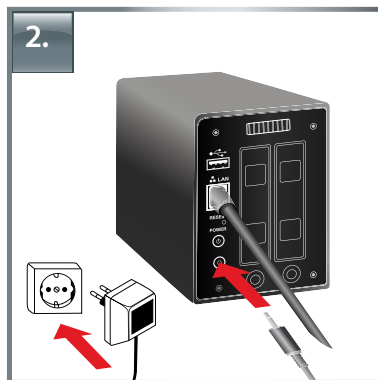
If at any point during installing and/or configuring your Freecom Dual Drive Network Center you need assistance or have questions, please contact the Freecom Support Center for your country. See www.freecom.com for details.

Freecom offers free unlimited helpdesk support.

Freecom Dual Drive Network Center – Setup overview



Chapter: Hardware Installation



1. Connect the interface cable* to the Freecom Dual Drive Network Center.
2. **Optional:** Connect the cable of the power supply to the Freecom Dual Drive Network Center and the power supply itself to the socket.
3. Connect the other end of the interface cable* to a network router.
Please note: Your router must be configured as a DHCP server. Further information on setting up the DHCP server function of your router can be found in the manual of your router.
4. **Optional:** if your device comes with a power switch, switch on the device before using it.

* Please use the interface cables that come with your device (e.g. USB, eSATA, Firewire, LAN) for connecting the device to your PC/Mac.

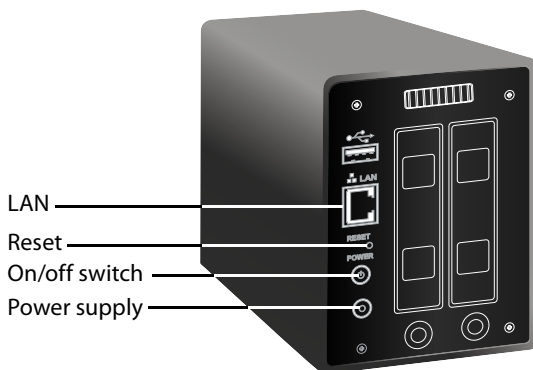
LED Description

	On	Flashing	Red	Off
1. LED: HDD 1	Formatted HDD	x	Unformatted HDD	x
2. LED: HDD 2	Formatted HDD	x	Unformatted HDD	x
3. LED: Network	Network connection	x	x	No network connection
4. LED: Power	Normal mode	Data access	System fault	Device off



Power switch

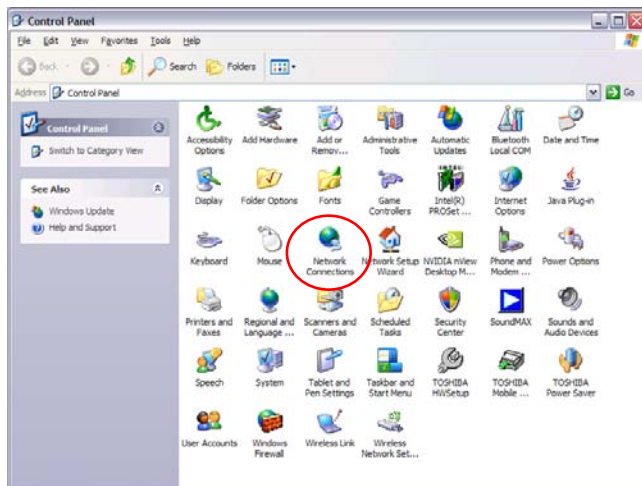
Please turn the Freecom Dual Drive Network Center off when it is not in use. This conserves electricity and extends the life of the device. The power switch is located on the rear of the Freecom Dual Drive Network Center.



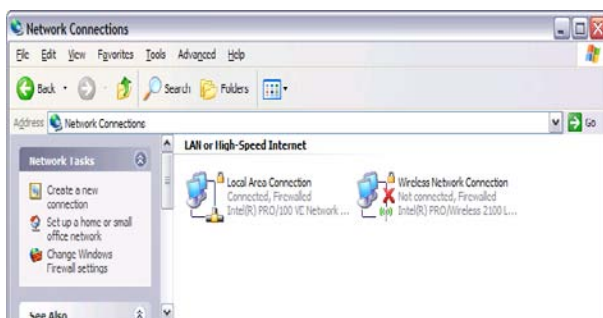
Chapter: Computer Configuration

Check TCP/IP Settings in Windows XP

1. Open "Start" -> "Settings" -> "Control Panel".



2. Double-click on "Network Connections".



3. Right-click on your "Local Area Connection" and select "Properties".

4. The following screen will appear. Select "Internet Protocol (TCP/IP)" and click on the "Properties" button.

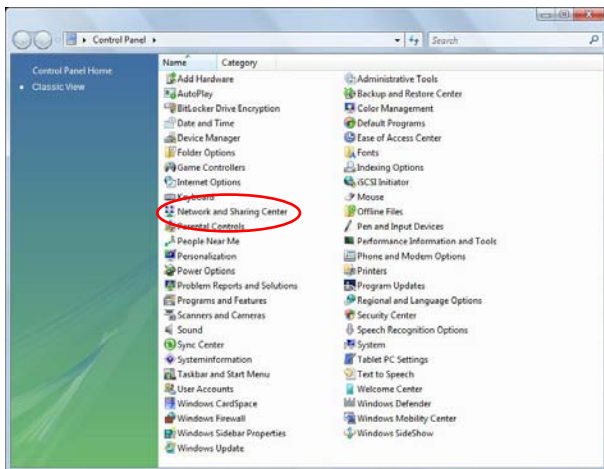


5. In the "General" tab, select "Obtain an IP address automatically" and "Obtain DNS server address automatically".

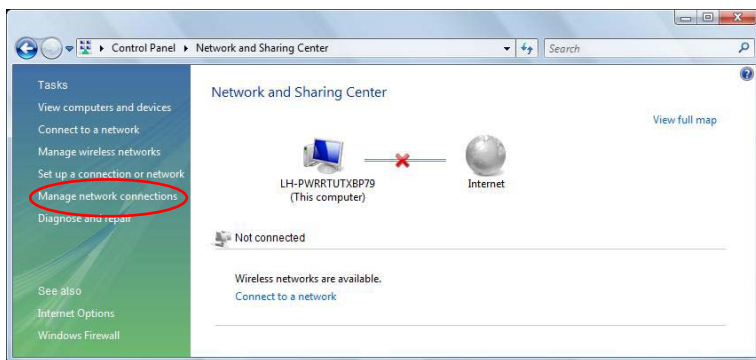


Check TCP/IP Settings in Windows Vista / 7

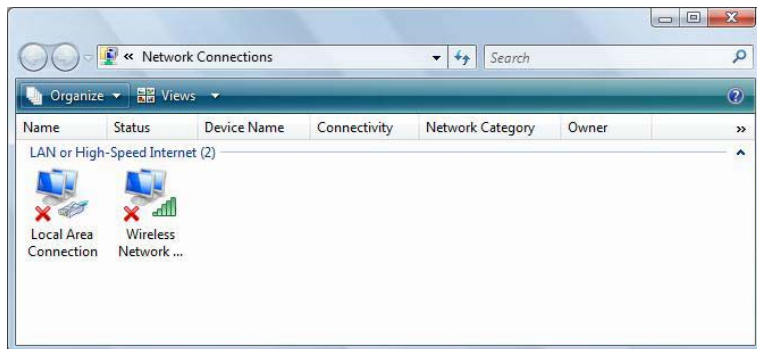
1. Open "Control Panel" -> "Network and Sharing Center".



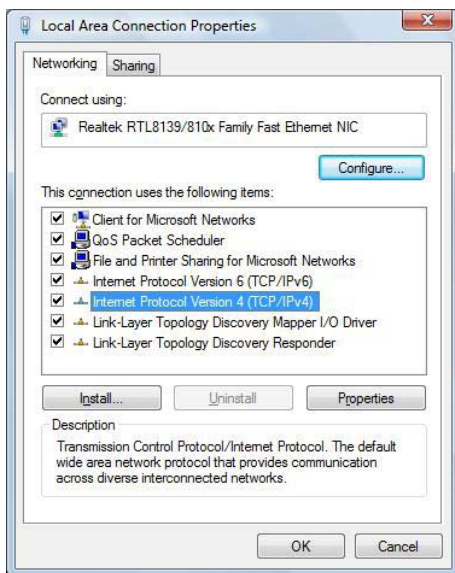
2. Click on "Manage network connections".



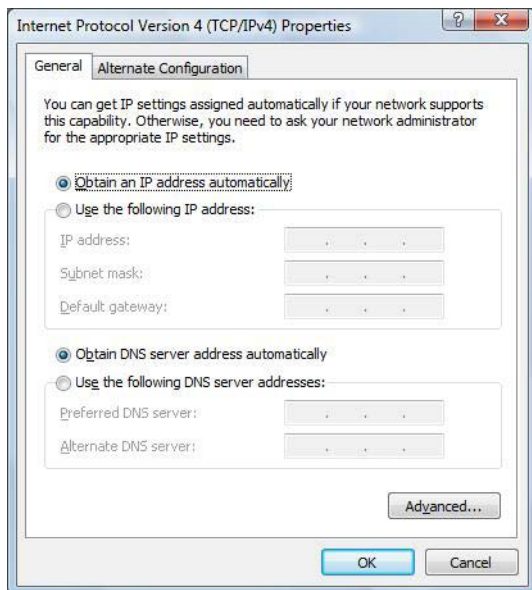
3. Right-click on "Local Area Connection" and select "Properties".



4. In the "Networking" tab, select "Internet Protocol Version 4 (TCP/IPv4)" and click on "Properties".



5. In the "General" tab, select "Obtain an IP address automatically" and "Obtain DNS server address automatically".

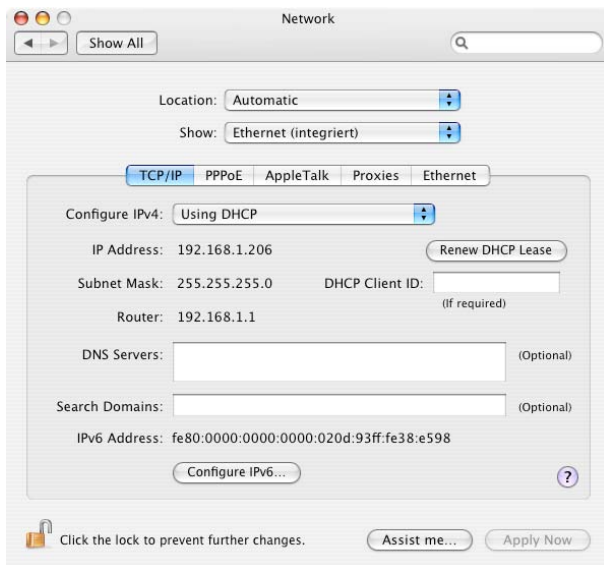


Check TCP/IP Settings in Mac OS X

1. Open "System Preferences" -> "Network".



2. In the "TCP/IP" tab, select "Using DHCP" in the "Configure IPv4" settings.



Chapter: Installation of the application software

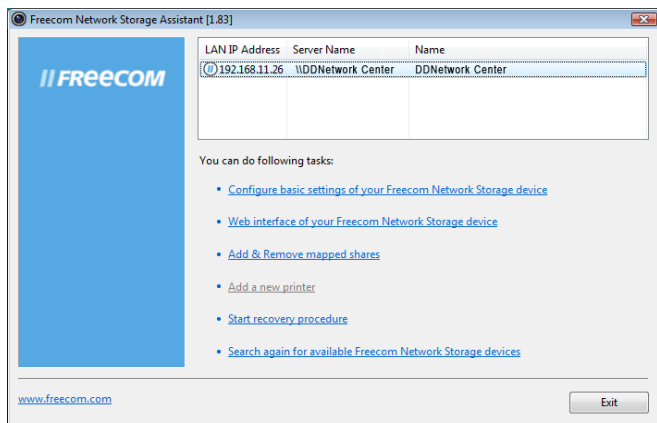
Installation of the Freecom Network Storage Assistant Software (PC)

The Freecom Network Storage Assistant quickly detects and performs the basic setup of your Dual Drive Network Center. When you start it, it displays all Freecom Network devices available in your network and helps you creating network folders.

1. Please insert the Manual & Application CD into your CD/DVD drive. It contains user manuals and software, including the Freecom Network Storage Assistant. Once the CD is inserted, a window should appear automatically on the screen. If this does not happen, please proceed as follows:
2. Open "My Computer".
3. Double-click the CD drive containing the CD. The CD window should now open.



4. Click on "Software Installation" -> "FNS Assistant". The installation starts now. Follow the instructions on the screen, confirm with "Next" in order to continue with the installation. After installation has finished, press "Quit" to exit the menu screen.
5. Start the Freecom Network Storage Assistant by clicking on the "FNSA" icon on your desktop or via "Start" -> "program files".
6. Check the Freecom Network Storage Assistant whether your Dual Drive Network Center was detected. This may take some time. If your Dual Drive Network Center is not immediately detected, click "Search again for available Freecom Network Storage devices" to repeat the search.



7. For a detailed functional description on the Freecom Network Storage Assistant, please refer to chapter "The Freecom Network Storage Assistant".

Installation of the Freecom Network Storage Assistant Software (Mac)

The Freecom Network Storage Assistant quickly detects and performs the basic setup of your Dual Drive Network Center. When you start it, it displays all Freecom Network devices available in your network and helps you creating network folders.

1. Please insert the Manual & Application CD into your CD/DVD drive. It contains user manuals and software, including the Freecom Network Storage Assistant.
2. You will now see CD icon on your Mac desktop.
3. Double-click on the CD icon. Click "Start". The CD window should now open.



4. Click on "Software Installation" -> "FNS Assistant". The installation starts now. Follow the instructions on the screen, confirm with "Next" in order to continue with the installation. After installation has finished, press "Quit" to exit the menu screen.
5. Start the Freecom Network Storage Assistant. This can be found in "Applications" -> "Utilities".
6. Check the Freecom Network Storage Assistant whether your Dual Drive Network Center was detected. This may take some time. If your Dual Drive Network Center is not immediately detected, click "Search again for available Freecom Network Storage devices" to repeat the search.
7. For a detailed functional description on the Freecom Network Storage Assistant, please refer to chapter "The Freecom Network Storage Assistant".

Chapter: Accessing the Dual Drive Network Center

Accessing data via SMB

Server Message Block (SMB) operates as a network protocol mainly used to provide shared access to files between nodes on a network.

Windows

Open Windows Explorer and enter either

\\ddnetworkcenter* or

\\IP_ADDRESS in the address bar (IP_ADDRESS is the IP address of your Dual Drive Network Center).



If you have changed the host name or the IP address, please use the new settings. Enter your username and password for accessing the Dual Drive Network Center. If you are logging on as the administrator, you will have access to all folders on the Dual Drive Network Center.

Linux

Open the file browser (Konqueror, for instance) and enter

smb://ddnetworkcenter * or

smb:// IP_ADDRESS in the address bar (IP_ADDRESS is the IP address of your Dual Drive Network Center).

Enter your username and password for accessing the Dual Drive Network Center. If you are logging on as the administrator, you will have access to all folders on the Dual Drive Network Center.

Mac OS

Mac OS X Vers.10.4 and higher

Select 'Go To' -> 'Connect to Server...' from the menu bar. The Dual Drive Network Center address is:

smb://ddnetworkcenter * or

smb:// IP_ADDRESS in the address bar (IP_ADDRESS is the IP address of your Dual Drive Network Center).



* Factory defaults. If you have changed the host name or the IP address, please use the new settings.

Click 'Connect'. Enter the workgroup, your username and password for accessing the Dual Drive Network Center. If you are logging on as the administrator, you will have access to all folders on the Dual Drive Network Center.



Note: The group name of the Freecom Dual Drive Network Center is defined under Setup - System in Freecom Dual Drive Network Center configuration menu.



Mac OS X 10.4

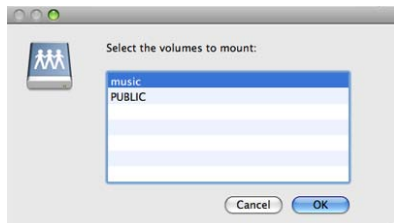


Mac OS X 10.5

You now need to select a shared folder on the next screen. Press OK to continue. After pressing OK, the Dual Drive Network Center is configured and an icon appears on your computer desktop.



Mac OS X 10.4

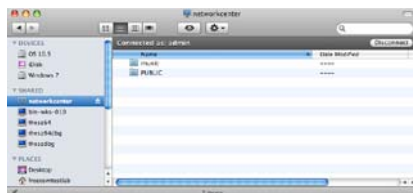


Mac OS X 10.5

To access all the Dual Drive Network Center folders that your username has been assigned user privileges, simply double-click this icon.



Mac OS X 10.4



Mac OS X 10.5

Accessing data via FTP



Note: Not all browsers can upload data via FTP. Those that can include Internet Explorer and Konqueror. We recommend using FTP client software such as WS_FTP, SmartFTP or CuteFTP.

The File Transfer Protocol (FTP) is a standard network protocol used to exchange files over an Internet Protocol (TCP/IP) computer network. The FTP protocol is built on a client-server architecture.

Local access

Enable the FTP Server option. Use any FTP client software or open your browser and enter

ftp://USERNAME:USERPASSWORD@IP_ADDRESS *

or

ftp://USERNAME:USERPASSWORD@ddnetworkcenter *

(IP_ADDRESS is the IP address of your Dual Drive Network Center)

FTP access via the Internet

Enable the FTP Server option in the Dual Drive Network Center Configuration. Your router must be configured as follows:

1. Port forwarding

Forward port 21 to the IP address of your Dual Drive Network Center.

* If you have changed the hostname or the IP address of the Dual Drive Network Center, please use the new settings here.

2. Dynamic DNS

Dynamic Domain Name System gives the ability to provide an official DNS name such as `www.yourname.com` to the dynamic IP address you have gotten from your ISP.

To do so, you first need to register with a DynDNS service. It updates the modified IP addresses and forwards this to the domain name. This enables you to be reached at one single domain name at any time even if your IP address changes.

If your router supports this option, we recommend using this feature, otherwise you always need to know the WAN IP of your router to access the Dual Drive Network Center via FTP from the internet.

Use any FTP client software or open your browser and enter

`ftp://USERNAME:USERPASSWORD@YOUR_INTERNET_IP`

or

`ftp://USERNAME:USERPASSWORD@YOUR_DYNDNS_HOST.`

USERNAME = your username

USERPASSWORD = your user password

YOUR_INTERNET_IP = your WAN IP address

YOUR_DYNDNS_HOST = your Dynamic DNS address

Chapter: Configuration of the Freecom Dual Drive Network Center

The Freecom Network Storage Assistant

You can use the "Freecom Network Storage Assistant" to configure the Freecom Dual Drive Network Center. This tool offers the following functions:

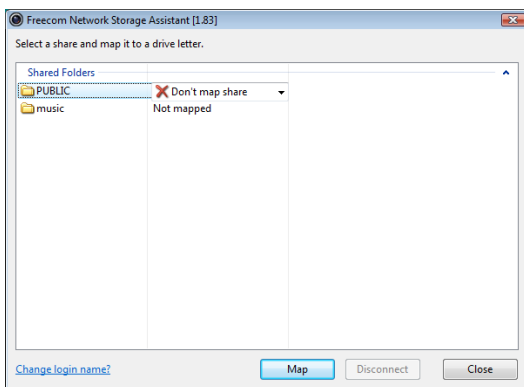


Accessing your Dual Drive Network Center web interface

When you click this menu item, the web interface for your Freecom Dual Drive Network Center opens in your default browser.

Adding and removing shared folders

You can assign a drive letter to shared folders on your Freecom Dual Drive Network Center. This allows you to access files more quickly.



Repeat search for available Freecom Dual Drive Network Center

Click here to repeat the search for your Freecom Dual Drive Network Center if it was not detected during the first search. Please make sure that your network is configured as described in this manual and that all cables are properly attached.

Contact the Freecom Support Center if all cables are connected but your device is still not recognized after several attempts.

Chapter: Freecom Dual Drive Network Center functions

This section describes the functions of your Freecom Dual Drive Network Center.

Login

Use the "Freecom Network Storage Assistant" to open the web interface of your Dual Drive Network Center, or start your browser and enter

`http://ddnetworkcenter`

in order to open the web interface.

A login window opens:

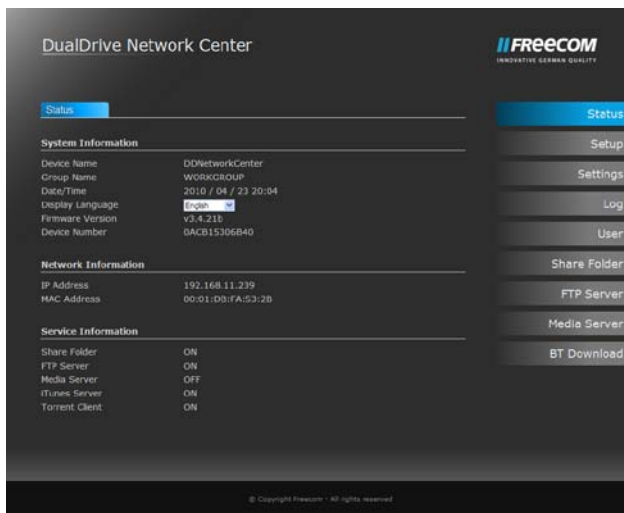
Please use the following user name and password to log in for the first time:

User name: admin

Password: admin

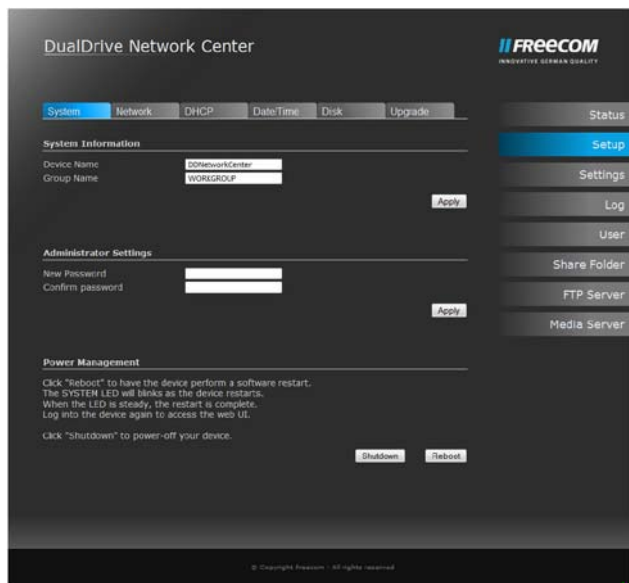
Status

If you select this option, you will be shown an overview of your device and network settings, and the hard disk status:



Setup

The section "Setup" enables the configuration of the basic settings of your Freecom Dual Drive Network Center.



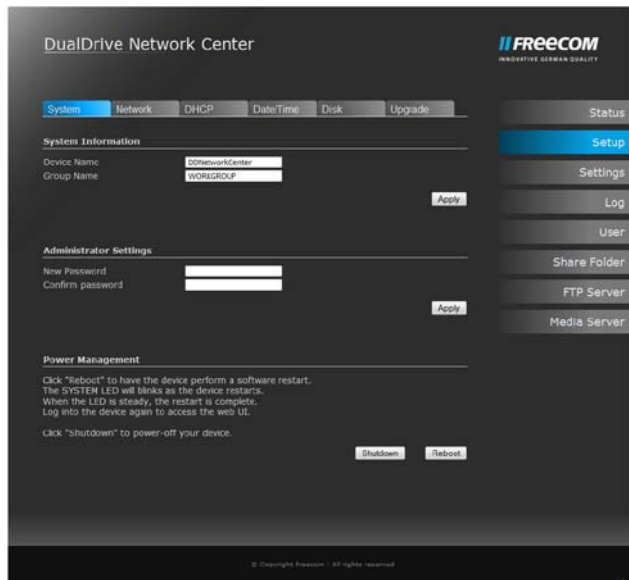
The following settings can be configured in the sub-menu "System" :

- Changing the device and group name under the menu item System
- Changing the administrator password under the menu item System
- The device can be switched off, or a restart initiated, under the menu item System
- Configuration of the network settings under the menu item Network
- Configuration of a DHCP server under the menu item DHCP
- Setting the date and time under the menu item Date/Time
- Configuration of RAID and JBOD under the menu item Disk
- Updating the system firmware under the menu item Upgrade

System

The following settings can be configured in the sub-menu "System":

- Device name
- Group name
- Administrator password



Updating the device/group name

Go to Setup -> System

Here under System Information you can change the device name and the name of the group in which your Freecom Dual Drive Network Center is located.

New name

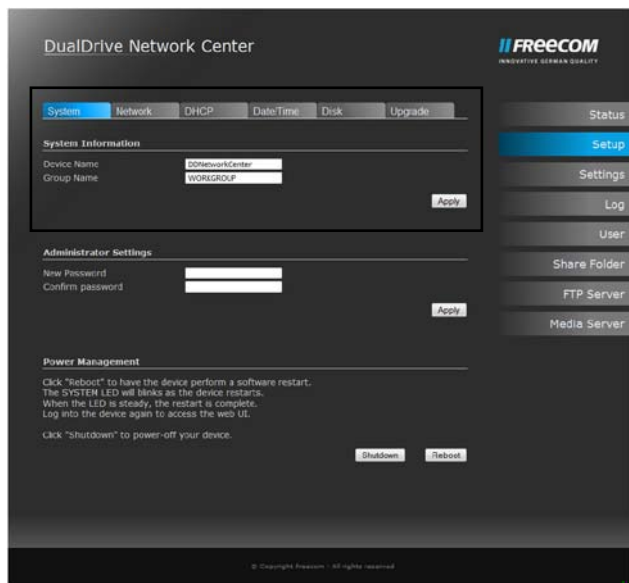
If you change the name of the Freecom Dual Drive Network Center, your device can be reached at http://NEW_NAME (NEW_NAME stands for the name you have given the device). The maximum length of the device name is 15 characters. The only characters allowed are A-Z, a-z and 0-9.

New group

Here you can change the name of the group in which your device is located.

The maximum length of the group name is 15 characters. The only characters allowed are A-Z, a-z and 0-9.

Click on "Apply" after you have changed the settings. Your Freecom Dual Drive Network Center will be restarted in order to accept the settings.

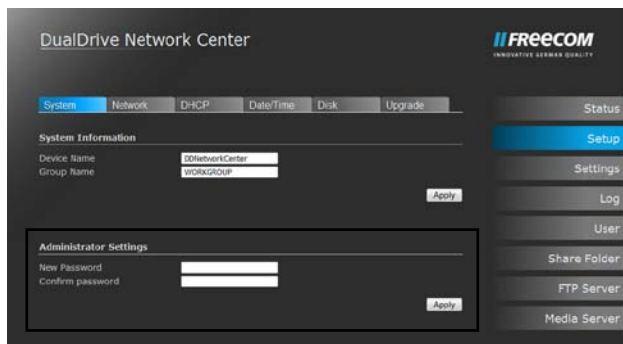


The screenshot shows the 'DualDrive Network Center' web interface. The 'Setup' tab is selected in the top navigation bar. The 'System Information' section contains fields for 'Device Name' (EDriveWorkCenter) and 'Group Name' (WORKGROUP), with an 'Apply' button. The 'Administrator Settings' section has fields for 'New Password' and 'Confirm password', with an 'Apply' button. The 'Power Management' section includes instructions for 'Reboot' and 'Shutdown' with corresponding buttons. A sidebar on the right lists various settings: Status, Setup (selected), Settings, Log, User, Share Folder, FTP Server, and Media Server. The bottom of the page displays the copyright notice: '© Copyrights Freecom - All rights reserved'.

Changing the administrator password

Here you can change your administrator password. Please enter the new password, and then repeat the new password in the second field.

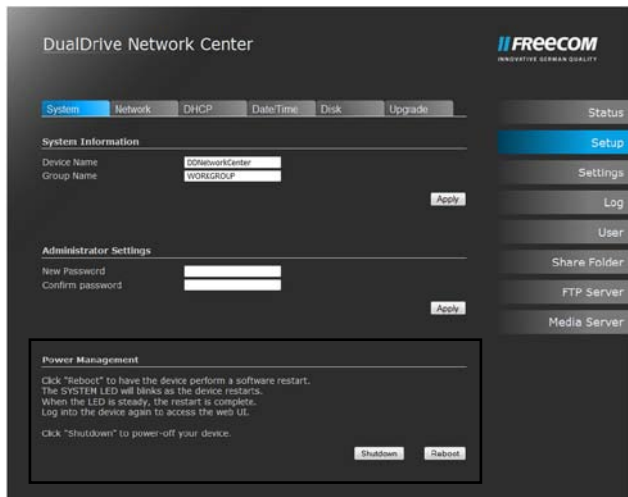
If you have forgotten your administrator password, reset the device to the works settings as described in Section "Start recovery procedure".



This screenshot is identical to the one above, showing the 'DualDrive Network Center' web interface with the 'Setup' tab selected. It displays the 'System Information' and 'Administrator Settings' sections, where the administrator password can be changed. The sidebar on the right lists various settings: Status, Setup (selected), Settings, Log, User, Share Folder, FTP Server, and Media Server. The bottom of the page displays the copyright notice: '© Copyrights Freecom - All rights reserved'.

Power Management

Here you can shut down or restart the device via the web interface. This is done by clicking with the mouse pointer on the Shutdown button or clicking the Reboot button.



The screenshot shows the 'DualDrive Network Center' web interface. The 'System' tab is selected. The 'Power Management' section is expanded, showing instructions for 'Reboot' and 'Shutdown'. The 'Reboot' button is highlighted.

DualDrive Network Center

System | Network | DHCP | Date/Time | Disk | Upgrade

System Information

Device Name: COHNetworkCenter
Group Name: WORKGROUP

Administrator Settings

New Password:
Confirm password:

Power Management

Click "Reboot" to have the device perform a software restart. The SYSTEM LED will blink as the device restarts. When the LED is steady, the restart is complete. Log into the device again to access the web UI.

Click "Shutdown" to power-off your device.

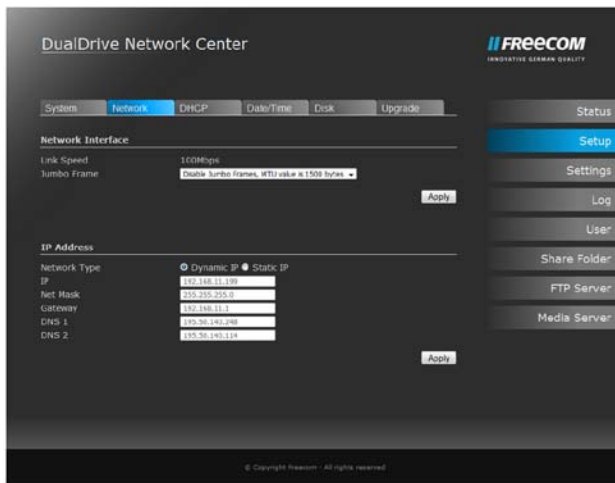
Shutdown Reboot

Configuration of the network settings

Go to Setup -> Network

The following settings can be configured in the sub-menu "Network":

- Size of the Jumbo data packets
- Configuration of the network settings



The screenshot shows the 'DualDrive Network Center' web interface. The 'Network' tab is selected. The 'Network Interface' section is expanded, showing settings for Link Speed, Jumbo Frame, IP Address, and Network Type. The 'Dynamic IP' radio button is selected.

DualDrive Network Center

System | Network | DHCP | Date/Time | Disk | Upgrade

Network Interface

Link Speed: 100Mbps
Jumbo Frame: Double Jumbo Frames, MTU value is 1500 bytes

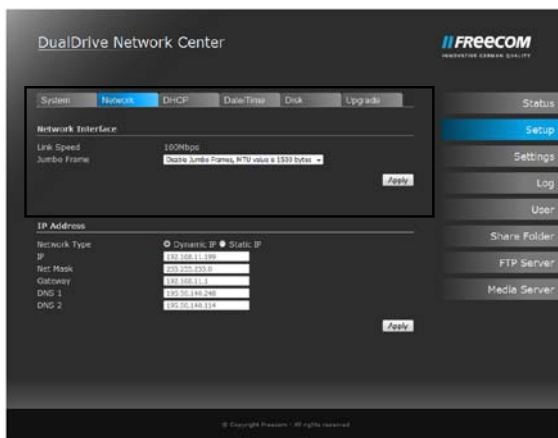
IP Address

Network Type: ☒ Dynamic IP ☐ Static IP

IP: 192.168.1.100
Net Mask: 255.255.255.0
Gateway: 192.168.1.1
DNS 1: 192.168.1.1
DNS 2: 192.168.1.1

Network Interface

Under Network Interface, you can select the size of the Jumbo data packets. You can make the network settings either manually or automatically.

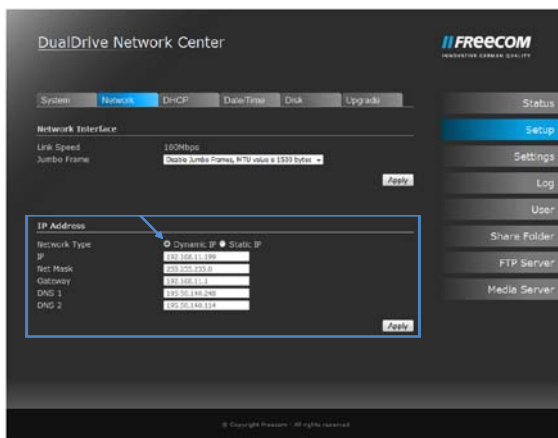


Note: Changing the size of the Jumbo frames is recommended only to experienced users.

Automatic configuration

If you select "Dynamic IP", your Freecom Dual Drive Network Center will automatically receive an IP address from a DHCP server (normally your router).

In the first step, please select "Dynamic IP" and then click on "Apply" in order to accept the changes. Your Freecom Dual Drive Network Center will then be restarted.



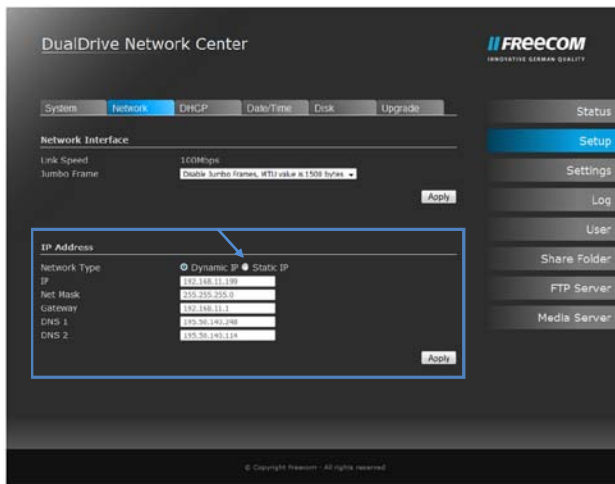
Manual configuration



Note: Do not use the manual configuration if you are not sure what is to be done here.

The manual configuration enables you to configure your Freecom Dual Drive Network Center with a static IP address.

In the first step, please select "Static IP" and then click on "Apply" in order to accept the changes. Your Freecom Dual Drive Network Center will then be restarted.



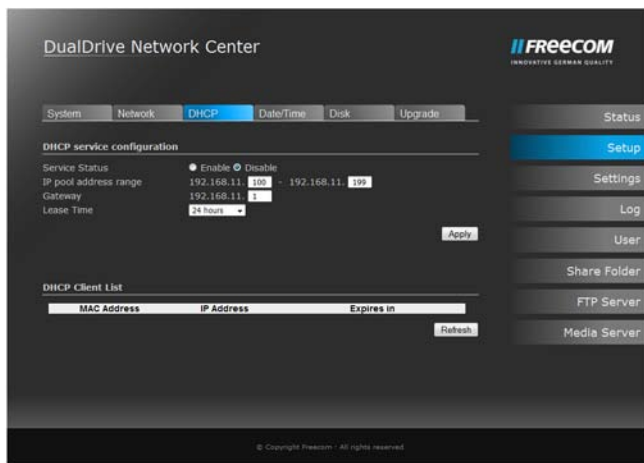
The screenshot shows the 'DualDrive Network Center' web interface. At the top, there are tabs for 'System', 'Network', 'DHCP', 'Date/Time', 'Disk', and 'Upgrade'. The 'Network' tab is selected. Below the tabs, there's a 'Network Interface' section with 'Link Speed' set to '100Mbps' and 'Jumbo Frame' set to 'Disable Jumbo Frames, MTU value is 1500 bytes'. An 'Apply' button is next to it. On the right side, there's a vertical menu with 'Status', 'Setup' (highlighted), 'Settings', 'Log', 'User', 'Share Folder', 'FTP Server', and 'Media Server'. The main content area is titled 'IP Address' and contains a 'Network Type' section with two radio buttons: 'Dynamic IP' (selected) and 'Static IP'. A blue arrow points to the 'Static IP' button. Below this, there are input fields for 'IP' (192.168.11.100), 'Net Mask' (255.255.255.0), 'Gateway' (192.168.11.1), 'DNS 1' (192.168.140.100), and 'DNS 2' (192.168.140.100). An 'Apply' button is at the bottom right of this section. At the very bottom of the interface, there is a small copyright notice: '© Copyright Freecom - All rights reserved.'

Configuration of the DHCP server

Go to Setup -> DHCP

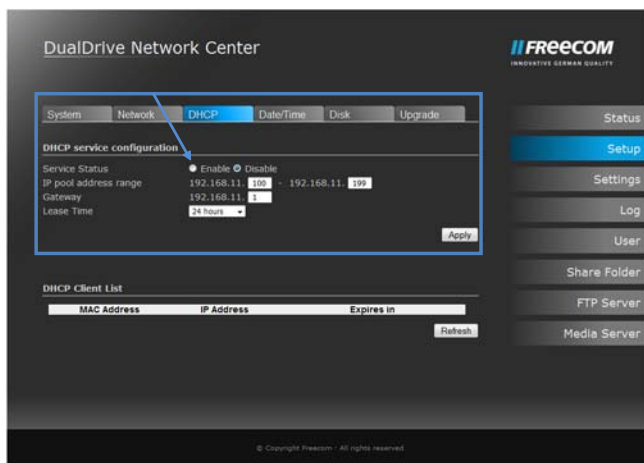
The following settings can be made under the sub-menu item DHCP:

- Configuration of the DHCP server
- Administration of clients



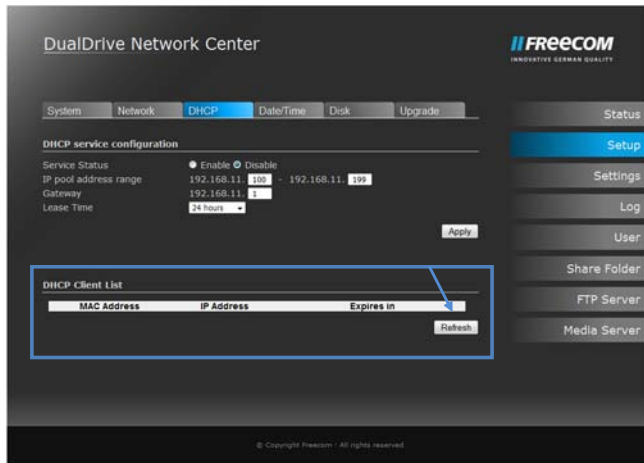
DHCP Server

You must select "Enable" in order to switch on the DHCP server. Now select the address area of the DHCP server and specify the standard gateway. The lease time determines how long an IP address will be reserved for a client. Click on "Apply" in order to accept the changes.



DHCP Client List

DHCP Client List shows you all the clients who access the DHCP server when you click on "Refresh". This function also displays the MAC and IP addresses of the clients, and the remaining lease time per client.

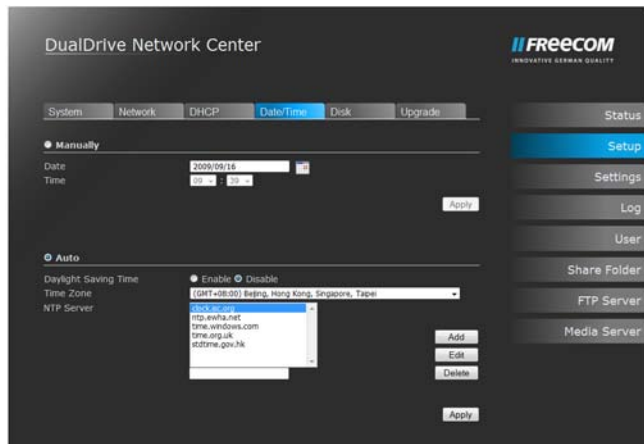


Configuration of the date and time

Go to Setup -> Date/Time

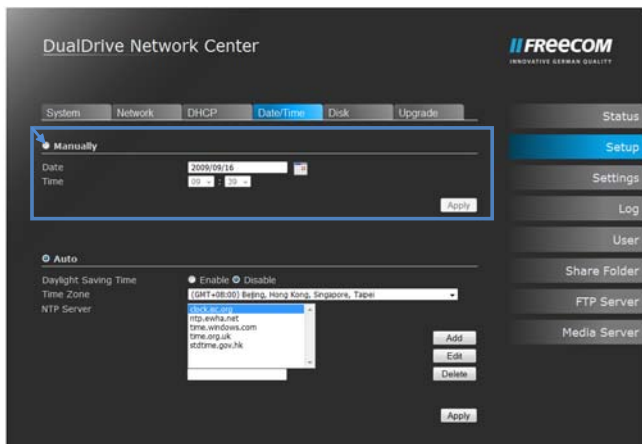
The following settings can be configured in the sub-menu "Date/Time":

- Manual settings of date and time
- Automatic setting of date and time



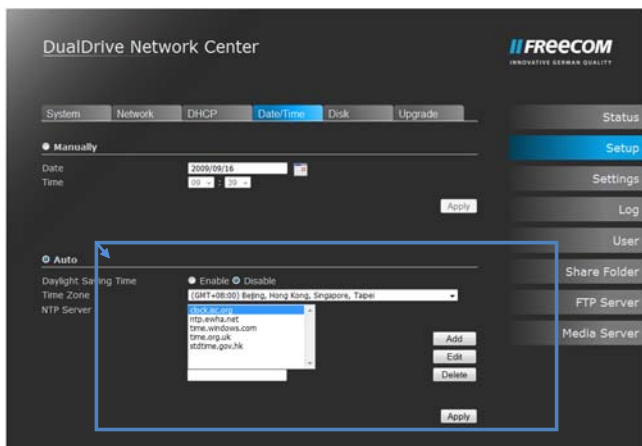
Manual setting

Select "Manually" in order to enter the date and time manually. Click on "Apply" in order to accept the changes.



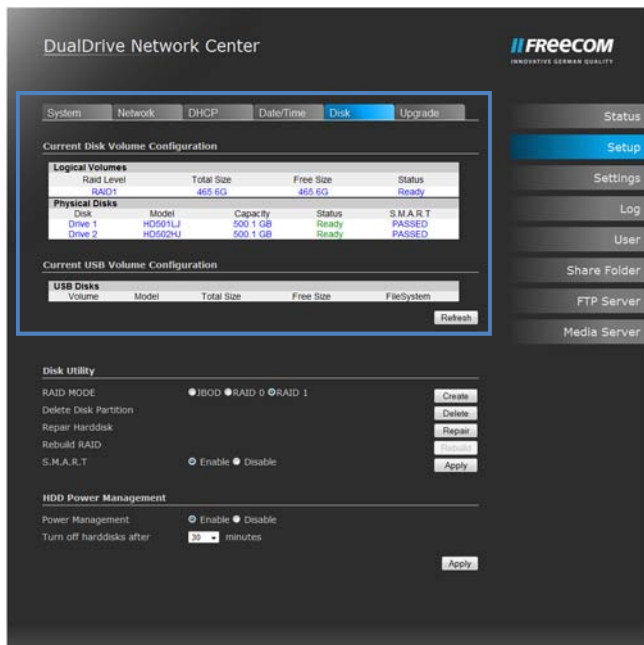
Automatic setting

Select "Auto", "Enable" and your time zone under Time Zone for the device to set the time itself. Click on "Apply" in order to accept the changes.



Configuration of the hard disks

Go to Setup -> Disk



DualDrive Network Center

FreeCOM
INNOVATIVE GERMAN QUALITY

System Network DHCP Date/Time **Disk** Upgrade

Status
Setup
Settings
Log
User
Share Folder
FTP Server
Media Server

Current Disk Volume Configuration

Logical Volumes		Total Size	Free Size	Status
RAID1		455 GB	455 GB	Ready

Physical Disks				
Disk	Model	Capacity	Status	S.M.A.R.T
Drive 1	HD501LJ	500.1 GB	Ready	PASSED
Drive 2	HD502HJ	500.1 GB	Ready	PASSED

Current USB Volume Configuration

USB Disks	Volume	Model	Total Size	Free Size	FileSystem
Refresh					

Disk Utility

RAID MODE: ☒ JBOD ☐ RAID 0 ☐ RAID 1 Create

Delete Disk Partition Delete

Repair Harddisk Repair

Rebuild RAID Rebuild

S.M.A.R.T: ☒ Enable ☐ Disable Apply

HDD Power Management

Power Management: ☒ Enable ☐ Disable

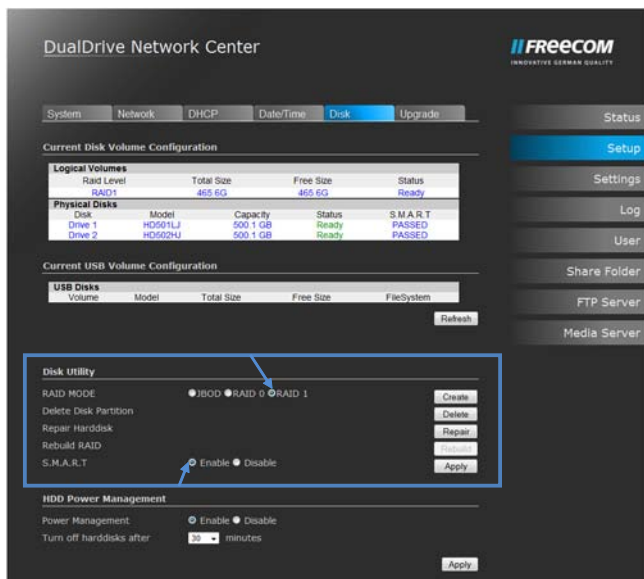
Turn off harddisks after: 30 minutes Apply

Current Disk Volume Configuration/Current USB Volume Configuration

Here you are shown an overview of the logical and physical drives and the current organisation of your logical drives. The overview will be updated if you click on "Refresh".

Disk Utility

Here you can select the organisation of your logical drives, for example by selecting "RAID 1". Select an organisation schematic and either "Enable" or "Disable" S.M.A.R.T. S.M.A.R.T. stands for Self-Monitoring, Analysis and Reporting Technology and monitors your hard disk operation. Now click on "Create" in order to create your required organisation schematic.



RAID Modes

You can configure the hard disks of your Dual Drive Network Center in various RAID modes:

JBOD: In this mode, the hard disks of your Dual Drive Network Center are configured as individual drives.

RAID 0: In the mode "RAID 0", the hard disks of your Dual Drive Network Center are combined, and data is always distributed alternately between both hard disks. This offers the advantage that reading and writing takes place significantly more quickly than with individual hard disks. The disadvantage of this mode however is that if one of the two hard disks fails, all data on the Dual Drive Network Center will be lost.

RAID 1: If you use the mode "RAID 1", all data on the first hard disk will be mirrored onto the second hard disk. This means that only half of the total storage space of your Dual Drive Network Center is usable. The advantage however is the high data security, since all data is saved twice. In case of failure of one of the two hard disks, your data are still usable from the second hard disk.

HDD Power Management

The hard disks can be configured so that they are shut down after a certain time if they are not being used. This saves energy and increases the working life of the hard disk. This option is deactivated as standard.

Activate/deactivate the power management with Enable/Disable. Then select from the pull-down menu the time after which the hard disk will be switched to standby. You can select from the following settings:

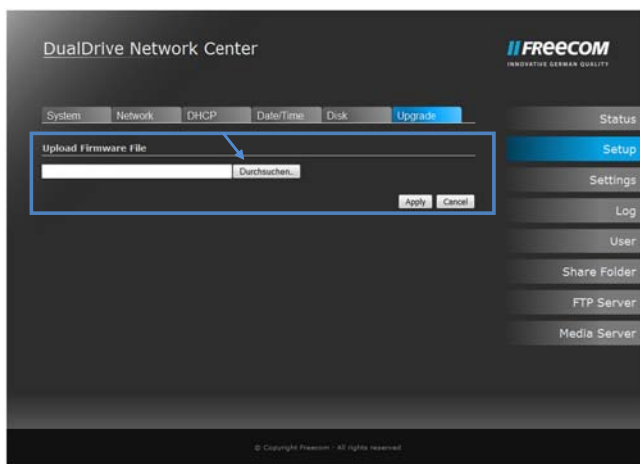
- 10 min
- 20 min
- 30 min
- 60 min
- 120 min

Updating the Firmware

Go to Setup -> Upgrade

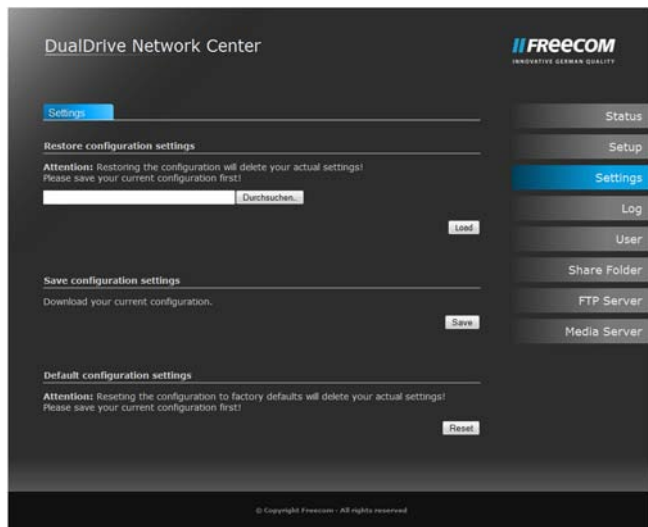
Upgrade

Click on "Browse" and select the downloaded file from <http://www.freecom.com>. Mit The new firmware is installed by clicking on "Apply". The device then restarts automatically



New firmware normally rectifies faults and extends the functions of your Dual Drive Network Center. Check at <http://www.freecom.com> whether new firmware updates are available.

Settings



The section "Settings" enables the loading, saving and resetting of configuration settings.

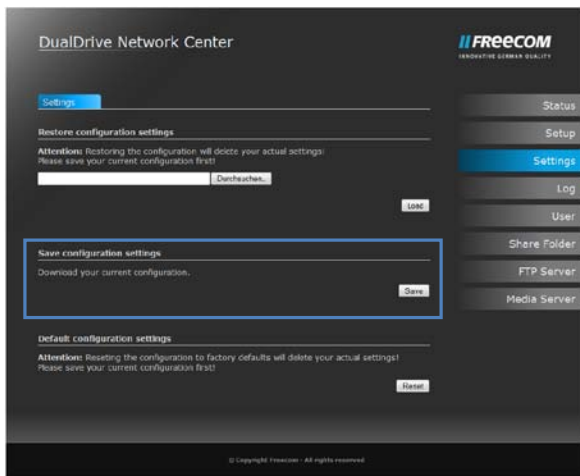
Save configuration

In this menu, you can save the current configuration file on your computer.

The name of the configuration file will be generated after clicking the button "Save". Click on the name of the file in order to save it.

Restoring the configuration

Click on "Browse", select the previously saved Bin file and then click on "Load" in order to restore your saved settings.

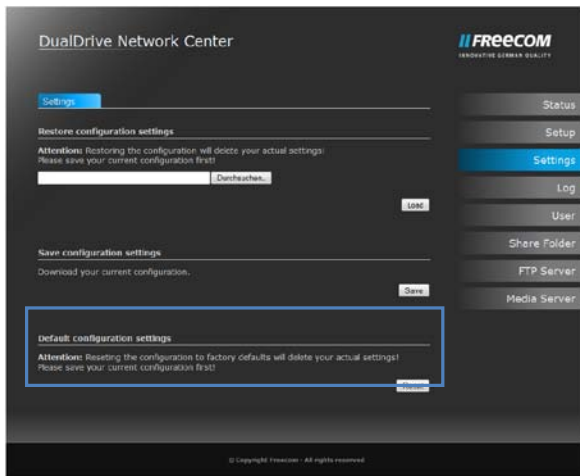


Resetting to factory default settings

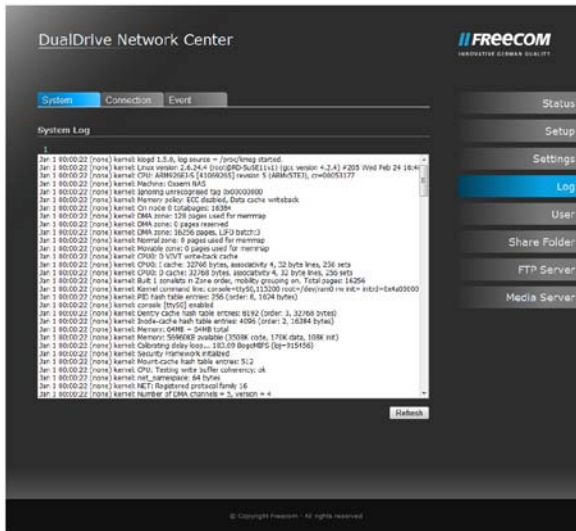
Click on "Reset" in order to reset the device to the factory default settings.



Note: All previously made settings will be lost.



Log

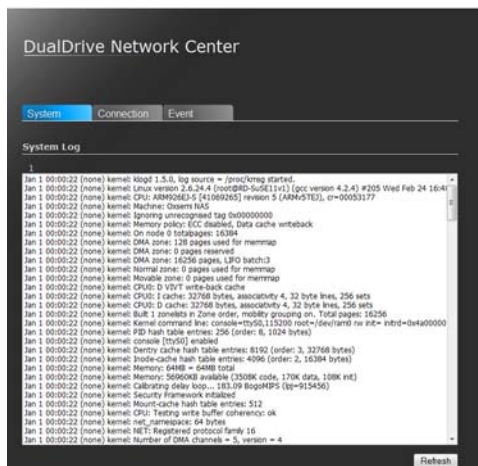


The section "Log" shows you an overview of the system operations.

System Log - Overview of the Kernel Log

Go to Log -> System

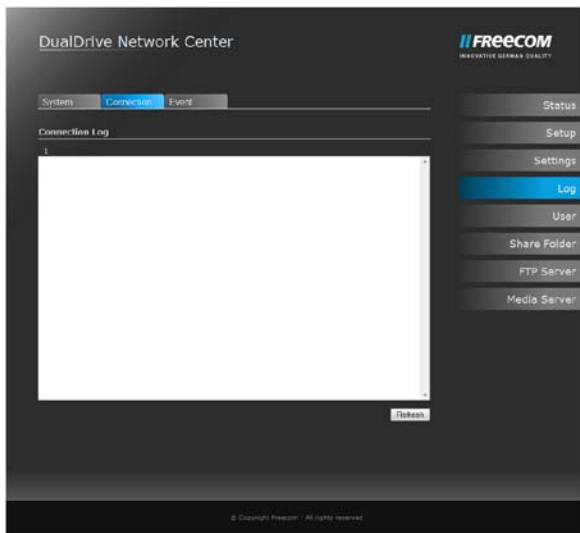
All events relating to the Kernels are displayed in the Kernel Log.



Connection Log

Go to Log-> Connection

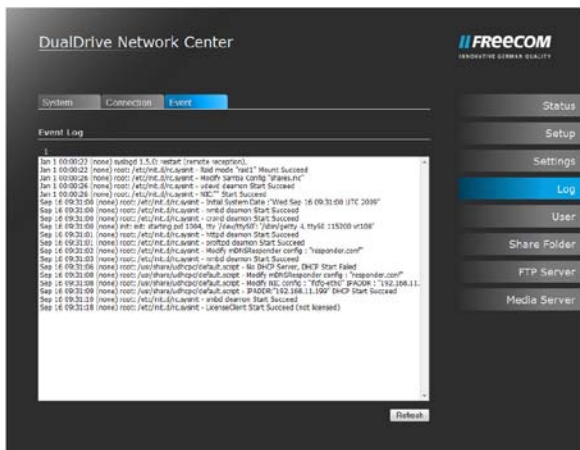
All FTP connection events are displayed in the Connection Log.



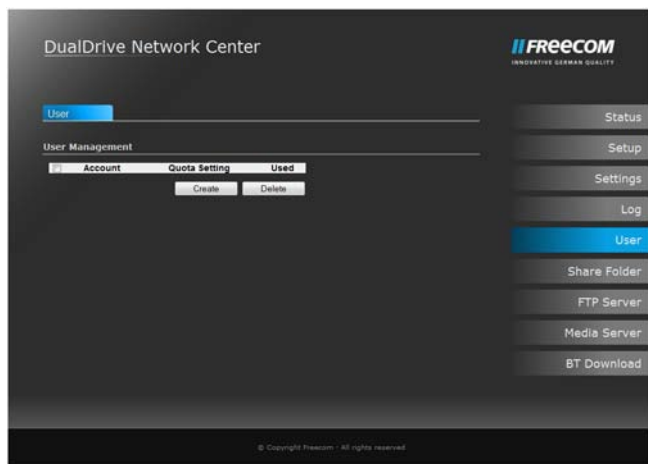
Event Log - Overview of the Event Log

Go to Log-> Event

All service events (e.g. Samba) are displayed in the Event Log.



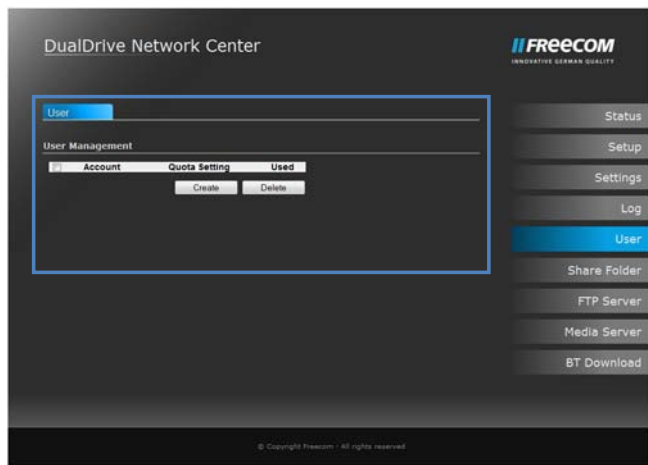
Users (User administration)



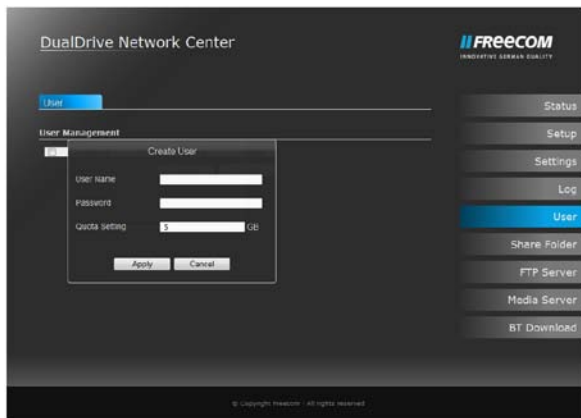
The section "Users" shows you an overview of all user accounts, the storage capacity used, and provides the facility of adding new users.

Creating users

To create a new user, click on "Create".



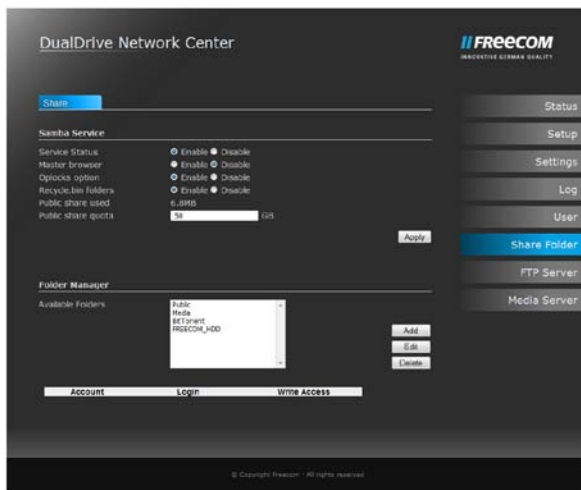
A pop-up menu appears, in which you can assign the user name, password and storage space.



Folder Release

The section "Folder release" provides you with the facility of activating various services ("Enable") or deactivating them ("Disable"), and defining the size of the "Public" folder.

The utilisation of the "Public" folder is also displayed, and you can manage folders.



The following services are available:

Service Status

This activates or deactivates the SMB function.

Master Browser

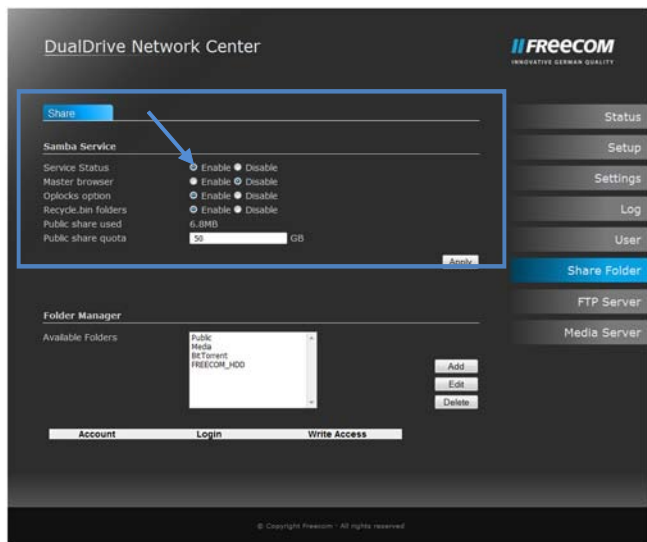
The Master Browser manages all computer names on the network. In Windows networks, Windows provides the Master Browser. In the normal case, the activation of the Master Browser is not necessary.

Oplocks Option

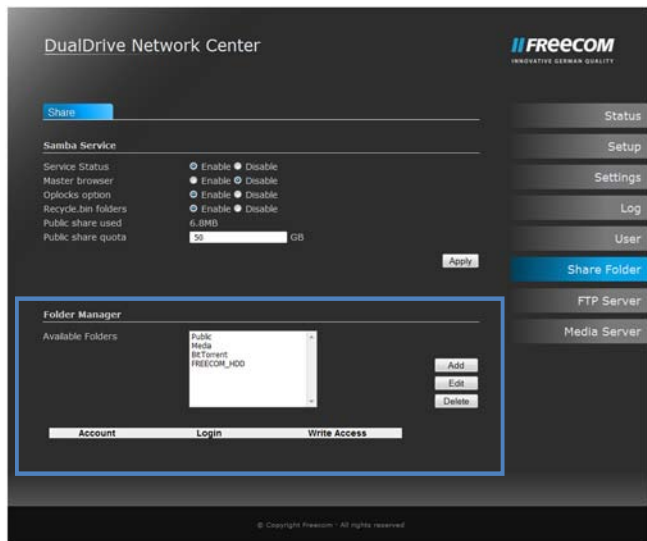
Oplocks ("Opportunistic locking") is a file locking mechanism in the SMB protocol, which was designed in order to improve the performance by means of controlled caching of files.

Recycle.bin folders

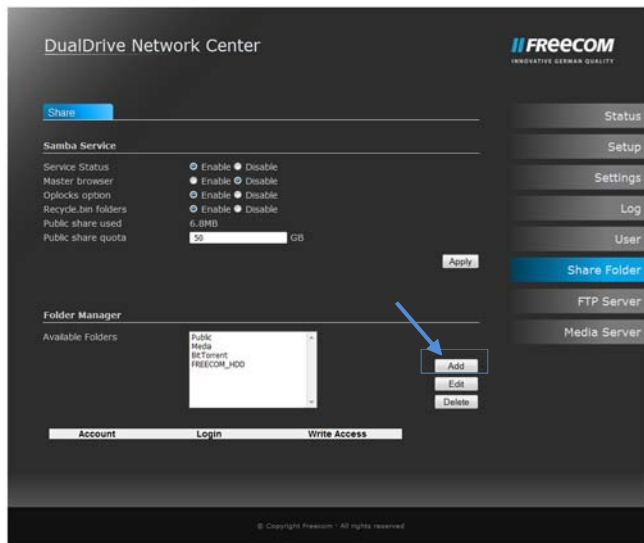
Recycle.bin folders in SMB releases are created or not created.



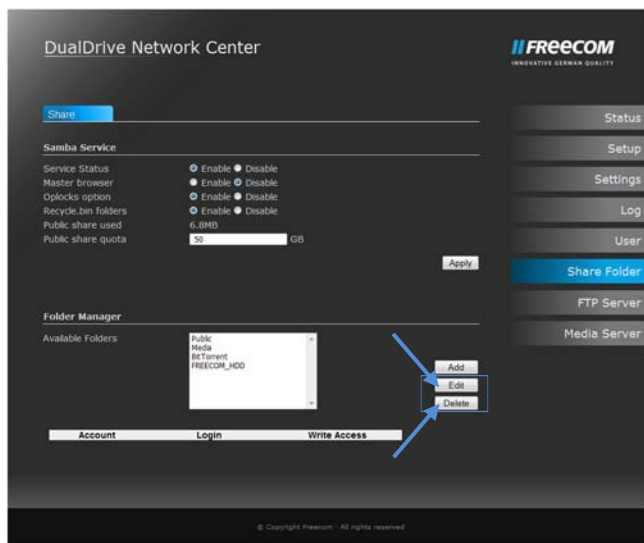
In the Folder Manager you can add new folders, edit folders or delete them.



Click on "Add" in order to create a new folder. Then select the access authorisation and click on "Apply" in order to accept the change.

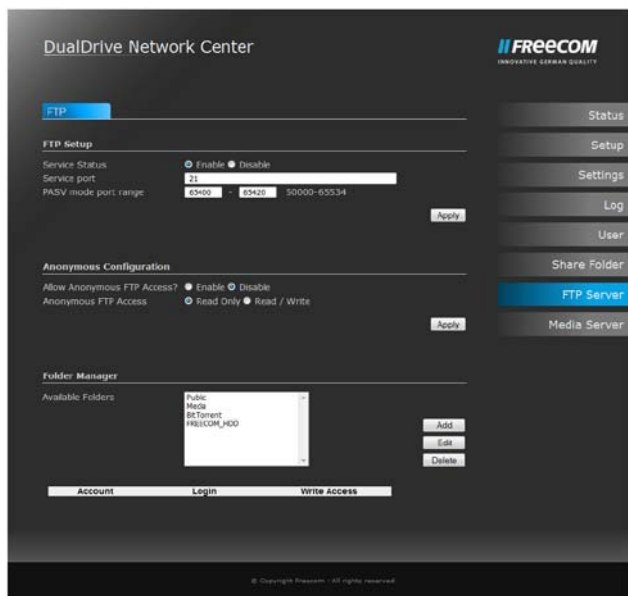


If you click on "Edit" or "Delete", you can then edit or delete the created folders.



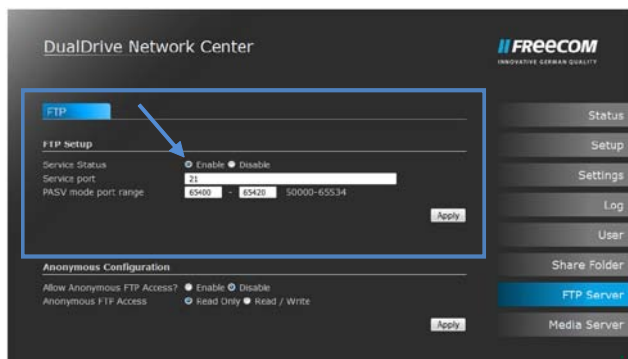
FTP Server

The section "FTP" gives you the facility of setting up and managing an FTP server.



FTP Setup

Under FTP Setup you can activate ("Enable") and deactivate ("Disable") the FTP server, assign the service port and set the passive mode port range for the FTP server.

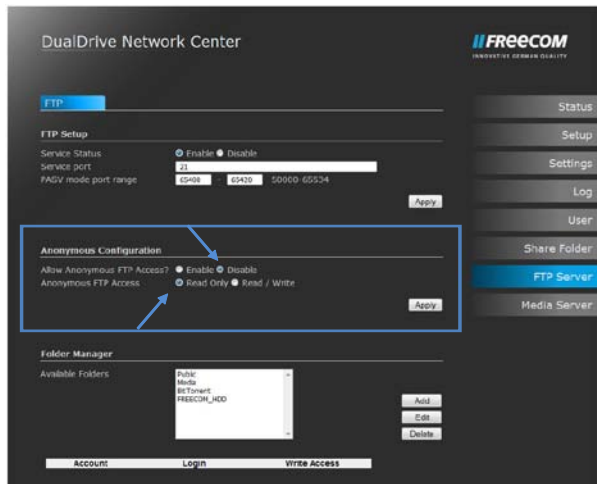


Anonymous Configuration

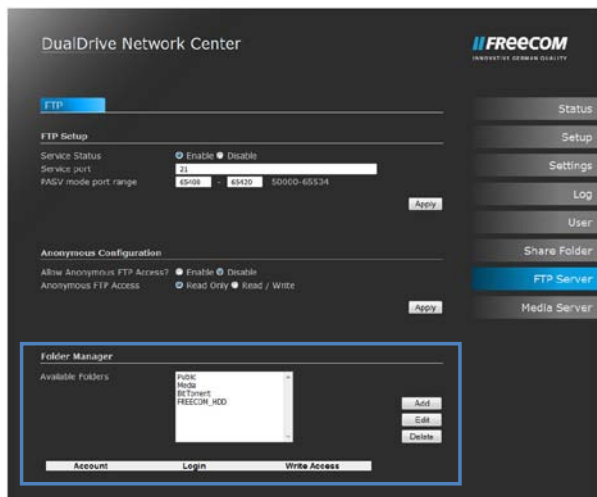
Under "Anonymous Configuration" you can enable or disable the FTP access of anonymous users. You can also specify whether anonymous users will have read-and-write rights or only read rights to your FTP server.

Click on "Apply" in order to accept the changes.

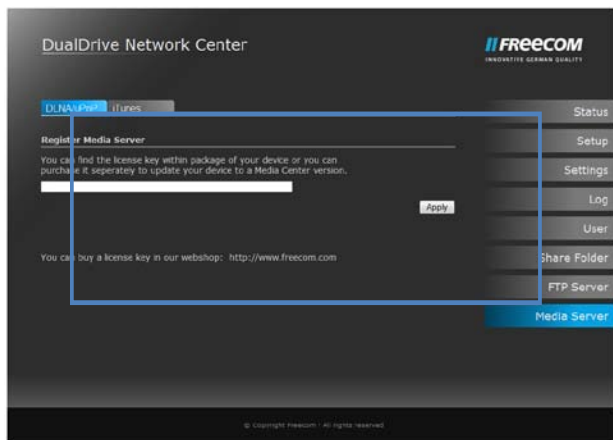
Anonymous users log in with the user name Anonymous and use an e-mail address as the password.



Under "Folder Manager", you can release, add, edit or delete folders for your FTP server.



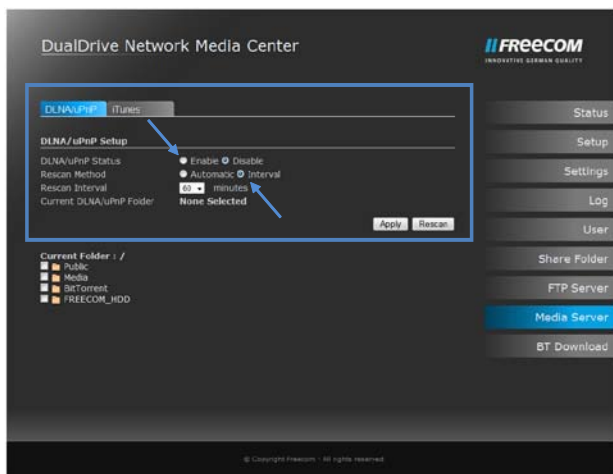
Media Server



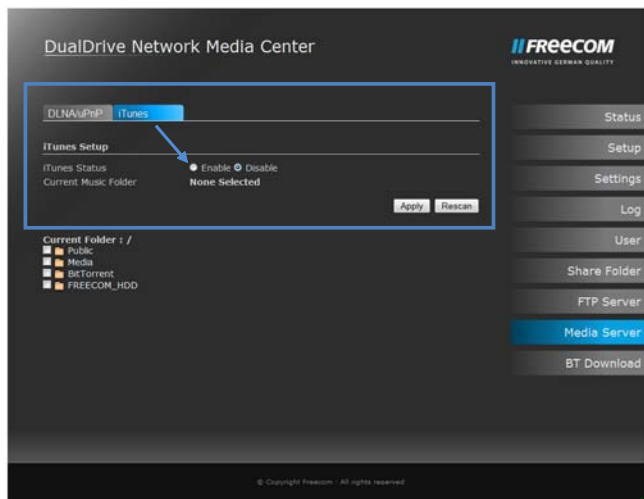
The section "Media Server" offers you the facility, after entering the license key, to use the device as a media server or use the bit torrent client of the device.

DLNA/uPnP

After entering the key, you can use and configure the DLNA/uPnP service. Click on "Enable" in order to activate the service. Then select the scan method. For "Interval", you must select the interval time under "Rescan Interval". Select one or more folders with multimedia contents and click on "Apply" in order to accept the changes.

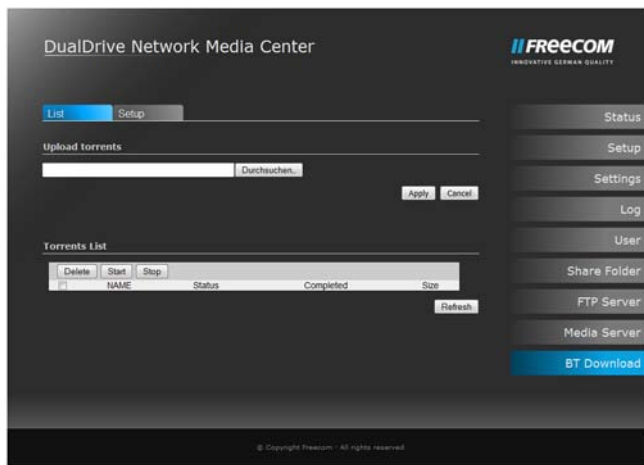


iTunes



Activate the service by clicking on "Enable". Select one or more folders with multimedia contents and click on "Apply" in order to accept the changes. Your media releases must be in subsidiary folders of the released folders.

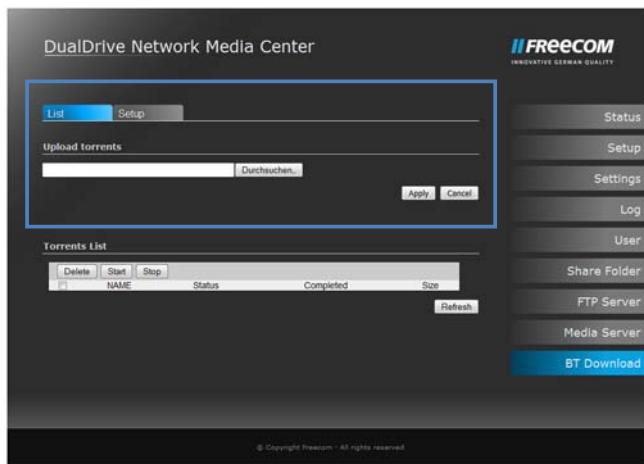
BT Download



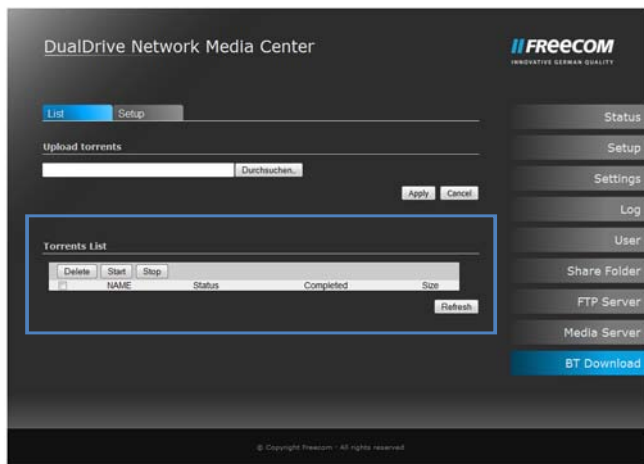
The bit torrent client of the device is located in the section BT Download. Here you can add and download Torrent files.

List

Under "List", you can add torrent files by clicking on "Upload torrents" and "Browse". Then click on "Apply" in order to accept the changes.



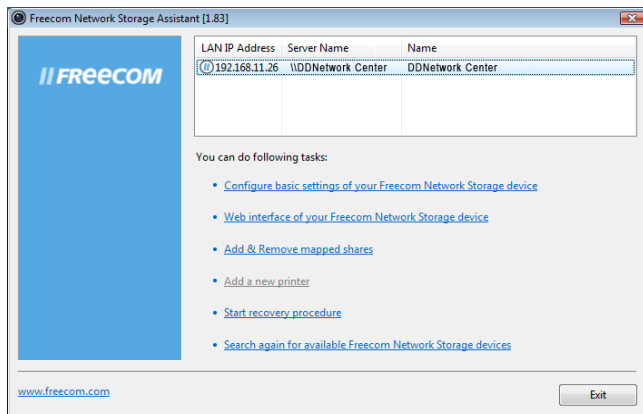
"Torrent List" shows you an overview of the torrent files in the bit torrent client which have just been downloaded. Click on "Refresh" in order to update the overview.



Chapter: The Freecom Network Storage Assistant

Features of the Freecom Network Storage Assistant (PC)

The Freecom Network Storage Assistant helps you to locate each Dual Drive Network Center in your network. When started, it displays all Dual Drive Network Center available in your network and helps you to create network folders. You may also perform any of the functions of the Freecom Network Storage Assistant manually.



The preset password and login name for the Dual Drive Network Center are:

Login Name: admin

Password: admin

Configure basic settings of your Dual Drive Network Center

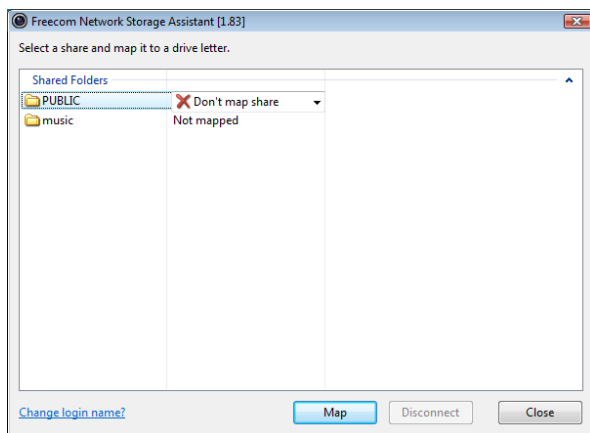
In this screen, you can set an IP address, subnet mask, device name and workgroup name for your Dual Drive Network Center. With this information, it is easy to locate your Dual Drive Network Center in the network without the FNSA. To change the settings, you have to enter the administrator password.

Accessing your Dual Drive Network Center web interface

When you click this menu item, the web interface for your Dual Drive Network Center opens in your default browser.

Adding and removing mapped network shares

You can assign a drive letter to shared folders on your Dual Drive Network Center. This allows you to access files in Windows more quickly.



Start recovery procedure

This procedure can reset and repair a Dual Drive Network Center to factory default settings if you cannot access your Dual Drive Network Center anymore.

To restore your settings, please proceed as follows:

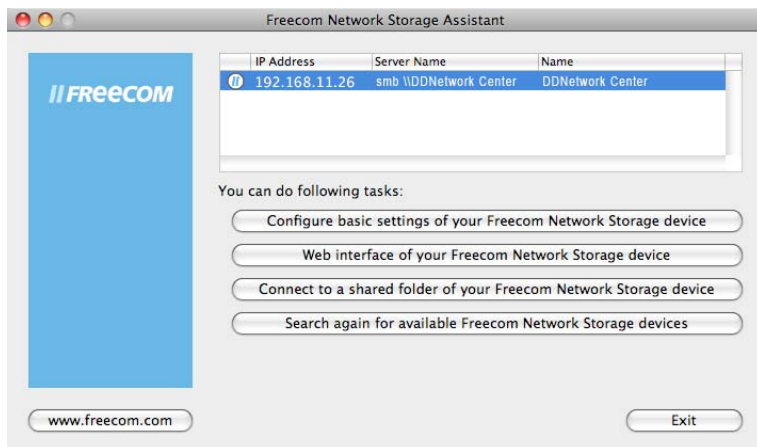
- Enable the Recovery mode by clicking 'Start the recovery procedure' in the Freecom Network Storage Assistant.
- Turn the Dual Drive Network Center off.
- Use a pointed object to carefully press the 'Reset' button. It is located next to the AC power slot on the back of the Dual Drive Network Center.
- Keep the 'Reset' button pressed down and turn device on again.
- Wait until white LED goes off (ca. 1 second), the release the 'Reset' button.

Repeat search for available Freecom Network Storage devices

Click here to repeat the search for your Dual Drive Network Center if it was not detected during the first search. Please make sure that your network is configured as described above in this manual and that all cables are properly attached.

Features of the Freecom Network Storage Assistant (Mac)

The Freecom Network Storage Assistant helps you to locate each Dual Drive Network Center in your network. When started, it displays all Dual Drive Network Center available in your network and helps you configure the Dual Drive Network Center and that create network folders. You may also perform any of the functions of the Freecom Network Storage Assistant manually.



The preset password and login name for the Dual Drive Network Center are:

Login Name: admin

Password: admin

Configure basic settings of your Freecom Dual Drive Network Center

In this screen, you can set an IP address, subnet mask, device name and workgroup name for your Dual Drive Network Center. With this information, it is easy to locate your Dual Drive Network Center in the network without the wizard. To change the settings, you have to first enter the administrator password.

Web interface of your Freecom Network Storage device

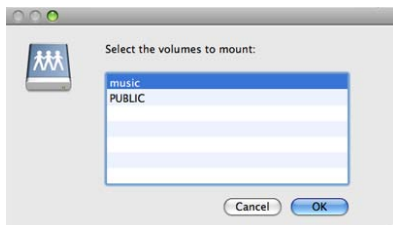
When you click this menu item, the web interface for your Dual Drive Network Center opens in your default browser.

Connect to a shared folder of your Freecom Network Storage device

This window allows you to mount any folder of your Dual Drive Network Center on your Mac. This allows fast accesses to this folders.



Mac OS X 10.4



Mac OS X 10.5

Search again for available Freecom Network Storage devices

Click here to repeat the search for your Dual Drive Network Center if it was not detected during the first search. Please make sure that your network is configured as described above in this manual and that all cables are properly attached.

We thank you for purchasing this Freecom product and hope you will enjoy using it. In order to avoid unnecessary inconvenience on your part, we suggest reading the quick install guide, instruction manual and any additional electronic and or printed manuals. When problems occur we have a database with Frequently Asked Questions (FAQ) on our Freecom website (www.freecom.com), please check this site before you contact the helpdesk.

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U-Boot: version 1.1.2	GPLv2
Linux Kernel version: 2.6.24.4	GPLv2
BusyBox version: 1.10.3	GPLv2
Samba version: 3.0.25	GPLv2
Xfsprogs version: 2.7.11	GPLv2
howl version: 1.0.0	GPLv2
mt-daapd version: 0.2.4.2	GPLv2
djmount version: 0.71	GPLv2
Dropbear version: 0.51	MIT
mtd version: 1.1.0	GPLv2
mdadm version: 2.6.4	GPLv2
ntfs-3g version 2009.4.4	GPLv2
ProFTPD version: 1.3.1	GPLv2
Smartmontools version: 5.33	GPLv2
Udevd version: 115	GPLv2
uShare version: 1.1a	GPLv2
openssl version: 0.9.7e	OpenSSL License/Original SSLeay License
efsprogs version: 1.41.3	GPLv2 / LibGPLv2
libid3tag version: 0.15.1b	GPLv2
coreutils version: 6.9	GPLv2
findutils version: 4.2.31	GPLv2
logrotate version: 3.7.8	GPLv2
LPRng version: 3.8.33	GPLv2
sysklogd version: 1.5	GPLv2
ffmpeg-checkout version: 2009-02-17	GPLv2/LGPLv2.1
fuse version: 2.6.1	GPLv2
gettext version: 0.16.1	GPLv2
libltdl version: 0.2.3	GPLv2
libupnp version: 1.6.6	Intel Copyright

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Availability of source code

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GPLv2 License text

The LGPLv2.1 License text

GNU Library GPLv2

The MIT license text

OpenSSL License

Original SSLeay License

Porchdog Software License

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Version 2, June 1991

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