



Wired Network File Server

User's Manual



Powered by OvisLink Corp.

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ABOUT THIS GUIDE

This manual provides instructions and illustrations on how to use your Network File Server, including:

- Chapter 1, **Introduction**, provides the general information on the product.
- Chapter 2, **Installation**, describes the hardware installation procedure for the product, and how to access to the file server.
- Chapter 3, Web Configuration, completes the configuration using the web browser.
- Chapter 4, **Downloading Files**, helps you to set up downloading schedule.
- Chapter 5, **Product Specification**.

Please note that the illustrations or setting values in this manual are **FOR YOUR REFERENCE ONLY**. The actual settings and values depend on your system and network. If you are not sure about the respective information, please ask your network administrator or MIS staff for help.

1

INTRODUCTION

Congratulations on purchasing your Network File Server, the easiest and fastest way to share data, file, and resource in your network.

This entry-level file server is the value-added equipment in your network that allows you to control file-sharing needs within a small office/home office (SOHO) environment. With expandable function (through its two USB ports) in a compact form-factor, the Network File Server is ideal for sharing data, rich-media files, and for storage in a small office, remote corporate office or residential gateway environments.

General Features

- Compact-sized design.
- Compliant with USB1.1 and USB2.0.
- Provide one 10/100Mbps auto-MDIX fast Ethernet LAN port.
- Support "Hot-plug" function.
- Two operating modes support: Open mode and Account mode.
- Support Auto-IP function.
- Support IP assignment for DHCP and Auto-IP.
- Support IP address filtering for Ethernet access with either DENY or ALLOW setting.
- Support external USB storage (Hard-disk, flash disk, CD-ROM, MO, and Micro Drive).
- Provide download assistance, making users download files without PC and schedule-able (support ftp and http).
- Support NTP (network time protocol).
- Web-based administrative program is stored in flash ROM of the file server.
- No setup necessary in open mode.
- Firmware upgrade-able by Web-based administrative program.
- Support Windows 98/ME/NT/2000/XP and Linux SMB.
- Provide FTP Server service.
- Support UPnP for windows XP.
- Provide an easy-search program for different IP domain setting.

Package Contents

Unpack the package and check all the items carefully, and be certain that you have:

- One Network File Server.
- One AC Power Adapter suitable for your country's electric power service.
- One Quick Installation Guide.
- One Installation CD-ROM containing the manual files (PDF).

If any item contained is damaged or missing, please contact your local dealer immediately. Also, keep the box and packing materials in case you need to ship the unit in the future.

Product View

This section describes the externally visible features of the file server.

Front View



LEDs

There are three LEDs on the front panel (four for wireless model):

LEDs	Description
Power	A steady Green light confirms that the file server is powered on.
LAN	A steady Green light confirms that the file server has a good connection to your network.
	When it blinks, the file server is receiving/transmitting data from/to the network.
WLAN (for wireless	A steady Green light confirms that the file server has a good connection to your wireless network.
model)	When it blinks, the file server is receiving/transmitting data from/to the wireless network.
Mode	Off: no devices attached to the file server.
(green/red)	Green : when you connect a USB device to the file server, it starts blinking Green slowly; when the system has detected the device, it lights Green steadily to indicate that the attached device is OK.
	Red : when you press the Unmount Button to remove the attached device, it starts blinking Red slowly. If the last connected device failed, it lights Red steadily; you have to re-connect the device.

Reset Button

Press and hold the Reset Button for 4 seconds to reset the file server.

Unmount Button

Press this button to remove the connected USB device safely.

2

INSTALLATION

Networking Application

The following diagram explains the application of your print server.



File Server in Your Network Environment

Installing the File Server

Follow these steps for a trouble-free start of file server operations with your Network File Server.

Connecting to the Network

- 1. Confirm proper operation of the gateway/hub to be connected in the network.
- 2. Connect the file server to the gateway/hub through the RJ-45 cable.
- **3.** Connect the power adapter of the file server to the wall outlet. This will supply power to the file server immediately.

Connecting to a Client Workstation

For some reasons, you may need to connect the file server to a client workstation directly. For example, you build a direct connection between your desktop PC and the file server to configure the file server. In this event, you should set up the computer's IP address as instructions in next section.

Expanding the USB Devices

The file server provides two USB ports that allow you to expand the file server's function, such as connecting a large storage device.

To connect the USB device, simply plug the USB device into one of the file server's USB ports. Alternately, you can connect the USB device through a USB cable.

Using the File Server

Configuring a Dynamic IP Address

When you connect your computer to the file server directly to configure the file server, you need to check the computer's IP address, and set up the IP address within the file server's IP address range.

- 1. Click **Start** and choose **Control Panel** to open the Control Panel window.
- 2. Double-click the Network Connection icon to open the Network Connection window.



3. Right-click the Local Area Connection icon and click *Properties* from the shortcut menu.



4. When the Local Area Connection Properties window appears, choose General tab and select Internet Protocol [TCP/IP], and then click *Properties* to bring up the Internet Protocol [TCP/IP] Properties window.

🕹 Local Area Connection Properties 🛛 🔹 💽		
General Authentication Advanced		
Connect using:		
B Realtek RTL8139 Family PCI Fast Ethernet NIC		
Configure		
This connection uses the following items:		
🗹 💂 QoS Packet Scheduler		
AEGIS Protocol (IEEE 802.1x) v2.2.1.0		
Internet Protocol (TCP/IP)		
Install Uninstall Properties		
Description		
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.		
Show icon in notification area when connected		
OK Cancel		

5. To configure a fixed IP address, check the "Use the following IP address" option. Then, enter an IP address into the empty field. Suggested IP Address is 192.168.1.x (x is 3~254), and suggested Subnet Mask is 255.255.255.0.

Internet Protocol (TCP/IP) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
 Obtain an IP address automatically 	,		
Use the following IP address: —			
IP address:	192.168.1.10		
Subnet mask:	255.255.255.0		
Default gateway:	· · ·		
O Obtain DNS server address automatically			
💿 Use the following DNS server add	resses:		
Preferred DNS server:			
Alternate DNS server:	· · ·		
	Advanced		
OK Cancel			

6. Click **OK** to complete the configuration.

Accessing the File Server

Since you have made the connection between your computer and the file server, and configured the computer's IP address, you can access the file server through the following steps.

1. Click Start and choose My Network Places.



2. The file server is named as **Sambe_server**. If you connect the USB device, it also appears in the window.



3. Double-click the **web_page** shared folder, and then double-click the **goweb** item to launch your web browser and enter the web configuration utility. The login window will show as below.

	Double-click	S H
🗿 Login - Microsoft Internet Explorer 👘		
File Edit: View Favorites Tools Help		
G Back * O * 🗶 🗟 🚺 🔰	🛛 Search 🏋 Favorites 😻 Media 🍪 🔯 😸	
	Please enter User name and Password. User name admin Password ••••• Download Schedule Config Cancel	Enter the User name and password, and select one option to

Login Window of Web Configuration Utility

To enter the configuration utility, type **admin** in User name box and **airlive** in Password box. Select the **Config** to login

TIP: Selecting the **Download schedule** option allows you to enter the Download page.

Easy Search

To access and manage the file server easily, the conveniently utility **Easy Search** is provided for you in the Installation CD-ROM. **Easy Search** is a tool that allows you to set up the file server's connection.

To use Easy Search:

1. Insert the Installation CD-ROM into your computer's CD-ROM drive to initiate the Auto-Run program.

Air Live	MU-5000FS_v2
User's Manual	
Easy Serach	
Acrobat Reader	illi illi
Browse CD	
EXIT	
III Utility & Manual CD	Manufacturer OvisLink Corp. www.ovislink.com.tw

Autorun Screen of Installation CD-ROM

2. Click the Easy Search item to launch the utility. The control panel will appear as below.

🚬 Easy Search						_	
-Search Dev	/ice						
Name		IP	Netmask	G	ateway		
SAMBA_S	ERVER	192.168.1.2	255.255.255	0 1	92.168.1.1		1
						Search device	
(4)			1111			Connect to webpage	
LAN							
DHCP Clien	:: Disat	bled	•				
IP:	192	2.168.1	. 2				
Netmask :	255	5 . 255 . 25	5.0				
Gateway	192	2 . 168 . 1	. 1	Modify			
-Static					D		
Share nar	ne		Connect to	-	Drive : H:	·	
1						mount	
						umount	
						Exit	

Control Panel of Easy Search

- **Search Device** when launching the utility, it will search the connected file server(s) automatically, and display the results in the list. To refresh the list, click the **Search device** button again. Clicking the **Connect to webpage** button will lead you to the web configuration utility.
- **2** LAN select one file server in the device list, and you can change its settings in this field. When you change the settings, click the *Modify* button to apply changed configuration.

B

Static – when you connect the USB device to the file server, click the *mount/umount* button to attach/remove the device to your system. Click the *Exit* button to close the utility.



WEB CONFIGURATION

You can access and manage the File Server through a web browser. This chapter provides you with instructions of the Web Configuration Utility, and explains how to set up your file server with the web browser.

Web Configuration Utility

First, login the web configuration utility as described in the previous section. The Home menu will display as below.



There is a menu bar in the top of the configuration page, containing five items that allow you to set up your file server.

	tworking Solutions
HOME	BASIC ADVANCED MAINTENANCE LOGOUT
	The Menu Bar
•	Home – main screen of the utility, providing the brief instructions of the buttons on menu bar.
•	Basic – allows you to configure your file server for Internet access through a step-by-step procedure.
•	Advanced – contains more submenus that allow you to set up advanced configuration.
•	Maintenance – provides maintenance tasks for the file server, such as upgrading firmware and reloading factory

• **Logout** – clicks to exit web configuration utility.

defaults.

TIP: The computer's IP address must correspond with the file server's IP address in the same segment for the two devices to communicate. Extensive knowledge of LAN will be helpful in configuring the file server.

Configuration - Basic

The **Basic** menu contains three steps that will guide you through the basic configuration for the file server. Click **Basic** in the top menu bar to start the step-by-step configuration.

asie			P	\langle	
Basic >> LAN	LAN				
>> Samba >> Time zone	DHCP Client IP Address IP Subnet Mask	Disabled 192.168.1.2 255.255.255.0			
	Gateway IP Address DNS1 DNS2	192.168.1.1 168.95.1.1			
		Next			

Basic Menu – LAN

Basic → LAN

The first step is to configure the LAN settings. These options in this step display the current IP address and DHCP service of the file server, and can be modified manually. When complete, click **Next**.

Basic → Samba

This screen allows you to set up the Workgroup name for the file server. You can also change the name and description of the file server.

Air Live	ADVANCED MAINTENANCE LOGOUT	OvisLink Corp. www.ovislink.com.tw
Basic		ی کې 🎨 🚱
Basic >> LAN >> Samba	Samba	
>> Time zone	Work Group workgroup Server Name SAMBA_SERV Server Description Samba Server	ER
	Back Ne	xt

Basic Menu – Samba

When complete, click *Next*.

Basic → Time Zone

This screen displays the current time setting of the file server. For system management purpose, a correct time setting is critical to have accurate time stamps on the system logs.

Air Live	DVANCED MAINTENANCE LOGOUT HELP	M		DvisLin vww.ovisli	k Corp. nk.com.tw
Basic			?	S	٢
Basic >> LAN >> Samba >> Time zone	Time 2 : 42: 33 Date 1970/ 1 / 1			_	
	Method Get time from time server Test Time zone (GMT+08:00) Hong Kong, Perth, Singapore Back Apply	e, Taipei	¥		

Basic Menu – Time Zone

The *Method* pull-down menu allows you to set up the correct time by getting time from the computer or time server (need an Internet connection). In the *Time Zone* pull-down menu, select a time zone according to your location.

When complete, click *Apply*.

Configuration - Advanced

The Advanced menu contains six submenus: *Account*, *Samba*, *LAN*, *Time zone*, *FTP server*, and *Status*.

Advanced → Account

The *Account* submenu contains the options that allow you to add/delete users. Also, you can manage the users of the file server.

Air Live			OvisLin www.ovisli	k Corp. nk.com.tw
Advanced	VANCED MAINTENANCE LOGOUT HELP		S	
Account >> Add user >> Remove user >> Modify user >> User list	Add user User Name Password Retype Password Apply Cancel	_		
	Advanced Menu – Account			

- Add user: You can add user of the file server by entering a name in the User name box, and the corresponding password in the Password box. When complete, click *Apply* to activate the user's account.
- **Remove user:** You can delete an existing user's account in this option. Check the box associated to the user you want to delete and click *Apply*.
- **Modify user:** You can change the password of an existing user's account. Select the radio button associated to the user you want to modify and click *Apply*. Enter the original password in the Old password box, and then enter a new password twice in the New password and Retype new password boxes. When complete, click *Apply*.
- User list: Click this item to display the existing users of the file server.

NOTE:

1. The file server uses four pre-defined accounts in the firmware, which cannot be used as the users' account names, including: **root**, **admin**, **ftp**, and **nobody**.

2. The password you entered in the Password box must be longer than five characters.

Advanced → Samba

The *Samba* submenu allows you to set up the Workgroup name for the file server, and change the name and description of the file server. You can also manage the session in this submenu.

Air Live	NCED MAINTENA	INCE LOGOUT HEL	.p	OvisLinl www.ovislin	Corp.
Advanced			1	🔇 🏈	٢
Samba >> Global >> Add Session >> Modify Session >> Remove Session >> Security	Work Group Server Name Server Description	workgroup SAMBA_SERVER Samba Server Apply Cancel			

Advanced Menu – Samba

- **Global:** Enter the Workgroup name for the file server; and you can change the name and description of the file server
- Add/Modify/Remove Session: You can add/modify/remove the tasks in these relative options.

• Security: You can configure the security function by selecting *NO*, *Allow IP*, and *Deny IP* through the Filter Action pull-down menu.

Advanced \rightarrow LAN

The *LAN* submenu displays the current IP address and DHCP service of the file server, and can be modified manually.

Air Live		XO			OvisLin www.ovisl	k Corp.
HOME BASIC ADVAN	CED MAINTENANCE	E LOGOUT H	IELP			
Advanced			<u></u>	<u></u>	$\langle \mathbf{S} \rangle$	
L	AN					
	DHCP Client	Disabled 🚩				
	IP Address IP Subnet Mask	192.168.1.2 255.255.255.0				
	Gateway IP Address	192.168.1.1				
	DNS1 DNS2	168.95.1.1				
	Арр	ly Cancel				

Advanced Menu – LAN

Advanced → Time Zone

The *Time zone* submenu displays the current time setting of the file server. For system management purpose, a correct time setting is critical to have accurate time stamps on the system logs.

Air Live	DVANCED MAINT	TENANCE LOGO	DUT HELP		R.	OvisLin www.ovisli	k Corp. nk.com.tw
Advanced				0		٢	٢
	Time 2010 Time 0 : 46 : 31 Method [Time zone [Cet time from time se (GMT+08:00) Hong Ko (Apply	1 nver v Test ong, Perth, Singapo	ore, Taip	ei 💌		

Advanced Menu – Time Zone

The *Method* pull-down menu allows you to set up the correct time by getting time from the computer or time server (need an Internet connection). In the *Time Zone* pull-down menu, select a time zone according to your location.

Advanced → FTP Server

The *FTP server* submenu contains the options that allow you to enable/disable the FTP service of the file server, as well as the relative FTP settings.

Air Live				0. 	visLink Corp. w.ovislink.com.tw
HOME BASIC A	DVANCED MAINT	TENANCE LOGOU	T HELP		
Advanced			<u></u>	()	S
FTP Server >> Start / Stop >> Setting	Start / Sto Status Path Port Max user Flow Idle time Anonymous	Stop /home/ftp 21 5 Unlimited 2 minutes Yes Start FTP Server			

Advanced Menu – FTP Server

• Start/Stop: Click Start FTP Server to enable the FTP server of the file server. The status field displays the information of your FTP server settings. Once you enabled the FTP server, click Stop FTP Server to disable the service.

• **Setting:** This option contains the relative FTP server settings.

- Path: Choose a destination for your FTP server.
- **Port:** Assign a port (1~65535).
- Max user: The users allowed to connect to the FTP server (1~10).
- Anonymous: Choose *Yes* will allow the user connect to the FTP server anonymously.
- Idle time: Set up the idle time for the FTP server (1~10 minutes).
- Flow: Give limit on transmission flow of the FTP server.

Advanced → Status

The *Status* submenu contains information of the file server, including its basic status and the Samba server status.

Air Live			Ph.		DvisLin ww.ovisli	k Corp. nk.com.tw
HOME BASIC AD	VANCED MAINTENA	NCE LOGOUT HEL	.P			
Advanced			- 🔗	~	$\langle \mathbf{S} \rangle$	3
	Status					
	Basic Status					_
	Firmware Version	1.52.0727.2004				
	IP Address	192.168.1.2				
	IP Subnet Mask	255.255.255.0				
	Gateway IP Address	192.168.1.1				
	Samba Status					
	Workgroup	workgroup				
	Server Name	SAMBA_SERVER				
	Server Description	Samba Server				
	Path	Permissions	Mo	de		

Advanced Menu – Status

Configuration - Maintenance

The Maintenance menu contains two submenus: *Firmware upload* and *Configuration*.

Maintenance → Firmware Upload

The *Firmware upload* submenu allows you to update the firmware of your file server once you obtained a latest version of firmware. Click *Browse* to point to the firmware file, and then click *Upload*.



Maintenance Menu – Firmware Upload

Maintenance → Configuration

The *Configuration* submenu allows you to reload the factory default settings of the file server. Also, you can set up the Idle time in this submenu.



Maintenance Menu – Configuration

- **Default:** Clicking **Reset** allows you to resume the factory default settings of the file server. This function is the same as pressing the **Reset** button on the machine.
- Idle time: If the user does nothing within the specified time in this option, then, the system would automatically logout. The idle time must be larger than **0**.

Configuration - Logout

Click the **Logout** button to exit the web configuration utility, and it will return to the login screen of the utility.

	a ducin
User name	admin
Password	••••

You can re-login using the **admin** User name. Alternately, if you set up a new user for the file server, you can login the utility using the given user account.



DOWNLOADING FILES THROUGH FILE SERVER

Entering Download Page

1. If you are in the configuration mode, click **Logout** to exit the web configuration utility, and re-login the utility's download page by selecting the **Download schedule** item on the login dialog box.

User name	admin	
Password		

TIP: If the administrator has added users of the file server, the users can login the Download page with their user name and password.

2. The Main menu of Download page will display as below.

Air Live	OvisLink Corp. www.ovislink.com.tw
HOME DOWNLOAD SC	HEDULING SCHEDULE LIST LOGOUT
Main menu	
	 Welcome to the embedded web configuration. Click DOWNLOAD SCHEDULING to set your schedule. Click SCHEDULE LIST to list your download scheduling. Click LOGOUT to exit the web configuration.

- **Home** main screen of the download page, providing the brief instructions of the buttons on menu bar.
- **Download Scheduling** clicks to set up your download schedule.
- Schedule List contains the information of scheduled download tasks.
- **Logout** clicks to exit the download page.

Scheduling Download Task

Click the **Download Scheduling** menu to set up your download tasks. Enter the required information in the relative fields.

Air Live	NG SCHEDULE LIST LOGOUT HELP
Download Schedul	ng 💫 🌍 💮
Dot	vnload Scheduling
Logi Metl	n Anonymous Viser Name ***** Password *****
URL	Test Local File Folder
Save	To Open
Whe	Date: 2004 V / 01 V / 01 V Time: 01 V: 16 V
Opti	on Overwrite (Only for download ftp or http file)
Bac	 None O Every Day O Every Week MON O Every Month 01 Time : 00 O Every Week MON O Every Month 01 Time : 00 O Every Week MON O Every Month 01 Backup Difference (Only for local backup)
	Apply Cancel

Setup Screen of Download Scheduling

- Login Method: According to the settings of target server, choose *Anonymous* or *Account* from pull-down menu. When you choose *Account*, you have to enter the correct User name and Password.
- URL: Enter the URL address of target server. Click *test* to test the connection.

• Save to: Click open to bring up the following window that allows you to assign the destination folder to save the downloaded files. When completed, click OK.



- When: You have to set up the start-up time to download files from the pull-down menu of the *Date* and *Time* options.
- **Overwrite:** When the downloaded files have the same filename as the files in the destination folder, checking this option will overwrite the old file in the folder.

When completed, click **Apply** to save this download task to the Schedule List.

Schedule List

Click the **Schedule List** menu to display the scheduled download tasks as below.

Air Live		OvisLink Corp. www.ovislink.com.tw
HOME DOWNLOAD SC	HEDULING SCHEDULE LIST LOGOUT HELP	
Schedule List		😼 🌍 🌍 💿
	Schedule List	
	# Status Del % Speed	Download Path
	1 🛛 Download	http://www.ovislink.com.tw/i
	Apply Cancel Back Refresh	

Scheduled Download Tasks

You can edit, delete and view these download tasks from the list. When you change the settings of selected task, click **Apply** to save the configuration. Click **Refresh** to reload the status of these tasks.

Logout

Click the **Logout** button to exit the download page, and it will return to the login screen of the utility.

User name	admin	
Password		

5

PRODUCT SPECIFICATION

Standards

Network Standards: IEEE 802.3, IEEE 802.3u.

USB Interface: USB 2.0, USB 1.1.

Connecting Ports

- One 10/100 RJ-45 connector (Auto MDI-X).
- Two USB 2.0 ports.
- One Power jack.

Buttons

Reset Button and Mode Button.

LEDs

Power, LAN, Mode, and WLAN (for wireless model).

Management

- Web-based administrative program
- Easy Search

Operating System Support

- Windows 98/ME, Windows NT, Windows 2000/XP;
- Linux SMB.

Environmental and Physical

Power Supply: 5VDC, 2.4 Amp.

Operating Temperature: 0°C to 50°C.

Storage Temperature: -20°C to 50°C.

Humidity: 10% to 90%, non-condensing at 30°C.

EMI Compliance

FCC Class B, CE Class B, VCCI.