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Description

This application is a File Transfer Protocol (FTP) client application for Windows Sockets and was designed to take full advantage of the point and click capabilities of the Windows 3.x environment. WS_FTP provides ease of use for the beginner plus a full set of functions for the power user. WS_FTP provides features like retention of site profiles and functions like multi-file transfer using standard windows methods.

WS_FTP conforms to the WinSock interface specification making it a WinSock compliant application.

For more information on FTP and FTP sites, please refer to the many different NETNEWS groups or one of the recent books on the Internet.

Connecting to Remote Hosts

WS_FTP contains a remote host profile capability. Once the profile information is entered, you can connect to a remote host by simply clicking on the connect button, choosing the host from the name list and then clicking on the OK button.

Connection dialog

NAME
HOST
TYPE
USERID
PASSWORD
ACCOUNT
TIMEOUT
PORT
ANONYMOUS LOGIN
ANS GATEWAY
FIREWALL
SAVE PASSWORD
SAVE/DELETE BUTTONS

Name

This is a profile or configuration name and can be anything you desire to identify the connection you are creating.

Host

This is either a fully qualified Internet host name or an IP address.

Type

If you know the host type, select it from the drop down list. If you don't know, try "auto detect".

If you can connect to a remote host but don't get a directory listing, try changing the host type in the connect dialog box. I am still working on the "auto detect". It does take care of about 80% of all hosts.

IBM MVS, VM and VMS hosts will not be auto-detected and must be set at connect time!

biochemistry.cwru.edu use KA9Q/NOS
ftp.uwp.edu use WinQVT/Net

Userid

Enter the userid that you wish to use for this configuration. (or you can click on the **Anonymous Login** check box to automatically enter anonymous as the userid.)

Password

Enter the password that you wish to use for the userid that you entered.

If this is an anonymous login, you should enter your full electronic mail address. It is recommended that you place a minus (-) sign in front of your e-mail address for anonymous logins.

Instead of entering your password for anonymous logins, it is recommended that you simply click on the **Anonymous Login** checkbox.

Account

Enter the account that you wish to use for the userid that you entered if the remote host requires an account.

Timeout

This is the number of seconds before WS_FTP times out waiting for a host response to a command.

Note that the initial connection Timeout is determined by your WinSock DLL. Setting this value higher does not have any effect on the initial connection to the host unless you set it to less than the amount of time that your WinSock DLL uses.

File transfers will not time out and must be canceled to end the transfer in the case of a lost connection.

The maximum value for this option is 65 seconds.

Port

This is the port to connect to on the remote host. This is normally 21 however, it may be something different if you are going through a firewall.

Anonymous Login

Checking this box will automatically enter anonymous as your userid and enter your e-mail address as the password.

ANS Gateway

If you are behind a gateway host, click this box and you will be prompted for the gateway host name, userid and password **when you click the OK button**. Note that this makes use of the SITE FTP command to make the connection to the desired host.

(This code is provided by Jeff Welty)

FIREWALL

If you are behind a firewall host, click this box and you will be prompted for the firewall host name, userid and password **when you click the OK button**. Note that this makes use of the USER FTP command to make the connection to the desired host.

If you are behind a firewall, you have the option to logon the host before the "USER userid@host" is sent. If this box is not checked, the gateway userid and password are ignored.

(This code is provided by Robert E. Stockwell.)

Save Password

Only check this box if you are the only user of your computer and no one else has access to your Windows directory. Password are stored in the WS_FTP.INI file and even though they are encrypted, it is an easy encryption to break (especially since the source is distributed).

SAVE/DELETE BUTTONS

The SAVE and DELETE buttons are provided in order to help you manage the configurations. **A configuration is automatically saved when you select the OK button** and there is no imposed limit on the number of configurations that you may have.

The DELETE button can be used to remove unwanted entries and the SAVE button can be used to save an entry without trying to actually connect to the host. The CANCEL button exits the dialog box without saving any changes to the current configuration.

TRANSFERRING FILES

File uploads and downloads do NOT timeout. You must CANCEL the operation in the event that you lose the connection to the remote host.

During the transfer of files, the HELP button changes to ABORT if the HASH option is off or an ABORT dialog box is displayed if the HASH option is on. The current transfer may be cancelled by clicking on the CANCEL or ABORT button. File uploads will cancel immediately while file downloads may take up to 30 seconds to cancel. In both cases, the partial file is not deleted automatically.

Transferring multiple files

Transfer mode

Double clicking in list boxes

Changing Directories

HINTS

Auto Transfer of Files

AUTO TRANSFER OF FILES

It is possible to automatically transfer a file from a remote host with a command line parameter. To do this with an ICON:

1. set the "Command Line" for the icon to "**ws_ftp hostname:full_path_to_file**"
2. set the "Working Directory" to where you want the file to be placed.
3. set the "Description" to something descriptive.

If this is not an anonymous ftp session and a password is required by the host and not specified in the configuration, you will be prompted for the password (and account if applicable).

During the transfer of files an ABORT dialog box is displayed. The current transfer may be cancelled by clicking on the CANCEL button. File downloads may take up to 30 seconds to cancel after clicking on CANCEL. The partial file is not deleted automatically.

Processing rules for this are to use the host, userid, password, account and gateway/firewall information specified in the configuration **hostname** if one exists. If one doesn't exist, it is assumed that the **hostname** is an actual host and the userid will be anonymous and the password will be the specified e-mail address.

Hints

Change default local directory

Overcoming name conversion problems

Changing Directories

Double clicking

Transfer Mode

Saving a "displayed" file

Drag and Drop

No directory listing

Access to debug commands

CHANGING THE DEFAULT LOCAL DIRECTORY

To set the default local startup directory to be something other than where WS_FTP is located

- a. Highlight the WS_FTP icon and press ALT-ENTER (or select File Properties) in the Program Manager.
- b. Change the Working Directory to your desired directory.

OVERCOMING NAME CONVERSION PROBLEMS

If you have problems with remote to local file name conversions, check the Prompt option in the **Options** dialog box. You will then be shown the proposed file name and allowed to change it.

CHANGING DIRECTORIES

To change directories, click on the desired directory and press the **ChgDir** button.

If you want to change to a directory without traversing the full tree, make sure there is no name selected in the list box and click on **ChgDir** (works with **RmDir** also). When changing drives on a remote system, you usually have to enter a directory name in addition to the drive letter.

You can also double click on a directory name to change to that directory.

DOUBLE CLICKING

You can double click on a directory name to change to that directory or double click on a file name to transfer that file (or to execute the file depending on the options).

Double Click Options

Transfer

Execute

Nothing

FILE TRANSFER MODE

Use **Binary** mode to transfer all files unless you know the file only contains text, then use **ASCII**.

If you KNOW that the host that you are transferring to or from is the same as your local host, you CAN always use BINARY mode and never use ASCII.

Transfer Modes

ASCII

BINARY

L8

SAVING A "DISPLAYED" FILE

If you use **Display** to display a remote file and then wish to save that file and have the viewer set to **NOTEPAD**, you can select the **SaveAs** menu option and save the file to whatever name you want.

TRANSFERRING MULTIPLE FILES

To transfer multiple files, use the SHIFT or CTRL keys when selecting filenames. (this is a standard windows method).

To select two or more items in sequence

1 Click the first file that you want to select and drag the mouse pointer down, releasing the mouse button on the last file in the group.

- OR -

1. Click the first file that you want to select.
- 2 Press and hold down SHIFT while you click the last file in the group.

To select two or more items out of sequence

Press and hold down CTRL while you click each file.

To cancel a selection

Press and hold down CTRL while you click the selected file.

After selecting the desired files, press the desired transfer direction button.

DRAG AND DROP FEATURE

You can drag one or more files from the Windows File Manager and drop them anywhere on the main window (or when iconized) and they will be transferred to the current directory of the remote host using the current transfer mode (ASCII/binary).

You cannot drag and drop directories, nor can you drag or drop from the remote host to another application.

DIRECTORY DISPLAY PROBLEMS

If you can connect to a remote host but don't get a directory listing, try changing the host type in the connect dialog box. I am still working on the "auto detect". It does take care of about 80% of all hosts.

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DEBUG MENU

You can bring up a popup menu by clicking the right mouse button when the cursor is pointing at the gray area of the main window. This gives you access to some additional FTP commands. **(NOT RECOMMENDED FOR THE BEGINNER!)**

Options

VIEWER

EMAIL

AUTO CONNECT

VERBOSE

PROMPT

STORE UNIQUE

RECEIVE UNIQUE

PORT CMDS

BELL

HASH

Double Click

Transfer

Execute

Nothing

Transfer Modes

ASCII

BINARY

L8

Viewer (Option)

This is the program that is invoked for **LongDir** and **Display** buttons. The default value is **notepad**.

EMail (Option)

This is used as the default password for anonymous logins as required by most anonymous ftp sites.

It is recommend that you place a minus (-) sign as the first character of your email address in order to turn off descriptive messages on the remote host.

Auto Connect (Option)

Controls whether or not WS_FTP displays the connect dialog box when it first starts.

Verbose (Option)

Should be labeled debug! This enables extra debug messages in the message window at the bottom of the main window. (These messages generally are of no value to the user as all error messages are displayed even when the verbose option is off.)

Prompt (Option)

Enables local/remote filename prompting. For each file that is transferred, you will be shown the proposed destination file name and allowed to change it. You CAN enter a full pathname to a different directory if you wish.

Store Unique (Option)

This option causes the transmitted file names to not conflict with existing files *if the remote host supports the STOU FTP command*. The new filename will be determined by the remote host.

Receive Unique (Option)

This option causes the received file names to not conflict with existing files. The new filename will be changed so that the sixth through eighth character of the filename will be a number from 000 to 999.

PORT Cnds (Option)

This causes the PORT nn,nn,nn,nn,nn,nn command to be sent to the remote system each time a file is transferred.

This should always be left on. This option is NOT saved along with the other program options.

Bell (Option)

Causes bell to sound at end of each file transfer.

Hash (Option)

When this option is off, the HELP button changes to ABORT during file transfers. When the option is on, an ABORT dialog box will be displayed during file transfers that displays the status of the transfer.

Double Click Transfer (Option)

When you double click on a filename, the file is transferred to the opposite side. (If you double click on a file on the local side, it is uploaded to the remote system. If you double click on a file on the remote side, it is downloaded to the local system.)

Double Click Execute (Option)

When you double click on a filename, the file is executed using the same rules as if double clicked on in the file manager. If you double click on a remote file, it will be transferred in binary mode to the Windows temporary directory and will be executed from the current directory using the same rules as if double clicked on in the file manager.

Execute Buttons

Double Click Nothing (Option)

When you double click on a filename nothing happens.

ASCII (Transfer mode)

Used for TEXT file transferring. The end of line character that is different on different type of computers. This will insure that the end of line character is translated properly.

If you KNOW that the host that you are transferring to or from is the same as your local host, you CAN always use BINARY mode and never use ASCII.

Binary (Transfer mode)

Used for non-TEXT file transferring. Executable programs, word processing documents, spreadsheets, databases, graphic and sound are some examples of files that **MUST** be transferred in BINARY mode.

If you **KNOW** that the host that you are transferring to or from is the same as your local host, you **CAN** always use BINARY mode and never use ASCII.

L8 (Transfer mode)

Used for VMS non-TEXT file transferring.

Execute Buttons

When you click on a filename in the local side and then click on execute, the file is executed using the same rules as if it were executed in the file manager.

If you click on a remote filename and then click on execute, it will be transferred in binary mode to the Windows temporary directory and will be executed from the current directory using the same rules as if executed in the file manager.

If the filename has an extension other than .EXE, .COM, .BAT or .PIF, then the file associations from the file manager are used. If the extension has no association, you will be allowed to specify the association at run time. This association is saved in the WIN.INI file in the Extensions section and will also be valid for the file manager.

You can set associations by clicking the right mouse button in a gray area of the screen and selecting Associate from the popup menu.

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ANS Gateway code written by Jeff Welty.
Firewall code written by Robert E. Stockwell.

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This program executable and all source code is released into the public domain. If you use this code in your program, the following statement must be included in your source code and in the documentation:

This program uses source code written by John A. Junod.

LATEST VERSION

The "home" site (where to get the latest version) of **WS_FTP** is FTP.USMA.EDU. **WS_FTP** is located in the **/pub/msdos/winsock.files** directory. The configuration information is:

NAME: WS_FTP
HOST: FTP.USMA.EDU
TYPE: AUTO DETECT
USERID: anonymous
PASSWORD: *your_email_address*
DIRECTORY: /pub/msdos/winsock.files

INSTALLATION

Place WS_FTP.EXE, WS_FTP.HLP and WS_FTP.INI in your Windows directory or in any directory you choose.

The easiest way to add WS_FTP to your Program Manager is to drag the program name out of the File Manager into the desired Program Manager window.

-OR-

In the Windows Program Manager, select the File New menu option and create a new program item.

Enter a command line with the full path to ws_ftp.exe and set the working directory as desired.

Click on OK.

Note that you currently must have WS_FTP.HLP and WS_FTP.INI in your working directory OR in the Windows directory.

ANONYMOUS

Most FTP sites support **anonymous** logins where you do not have to have an actual account on the system in order to access the system to transfer files. Normally the userid is the word **anonymous** and the password is your full e-mail address. Usually, you can place a minus (-) sign as the first character of your e-mail address to reduce the number of messages that come from the host FTP process.

FIREWALLS

Some organizations have chosen to separate their networks from the rest of the world while still allowing certain users the ability to access resources outside of that organization's network. This access is provided through a "gateway" or "firewall" host system and is generally uni-directional.

FTP

FTP stands for File Transfer Protocol. This is one of the standard protocols defined for use on a TCP/IP network.

WINSOCK

WinSock is a specification that network software providers use as a guideline for the standard application programming interface to their network software.

UPLOAD

Transferring a file **FROM** your local workstation **TO** a remote host or workstation.

DOWNLOAD

Transferring a file **TO** your local workstation **FROM** a remote host or workstation.

