

## WS\_FTP Pro Window

When you have established a connection between your local PC and an [FTP site](#), the WS\_FTP Pro main window displays the files and folders for your PC in the **Local System** list box (on the left) and the files and folders of the FTP site in the **Remote System** list box (on the right).

- **Note:** In the 16-bit version of WS\_FTP Pro, each column contains two list boxes: the top list box shows the available folders; the bottom list box shows the files in the currently selected folder.

The current folder is shown at the top of each column. The list box below the current folder shows all of the files and folders within the current folder. Icons are used to identify files and folders. Any disk drives that you can access also appear in the list. The buttons to the right of each column provide file and folder operations for that column. These are shown below, from top to bottom.

[ChgDir](#)

[MkDir](#)

[RmDir](#) (16-bit version only; in 32-bit version, use **Delete**)

[File Mask](#)

[View](#)

[Exec](#)

[Rename](#)

[Delete](#)

[Refresh](#)

[DirInfo](#)

- **Note:** The above commands, as well as some additional commands are available from the right-mouse menu. Select a file or folder and use the right-mouse menu.

## Folder options ("classic" user interface)

To change folders in the WS\_FTP Pro classic user interface, you can edit the folder path in the text box, or you can use the **ChgDir** button. Also, if you enable [Remember directories](#) in the Session options, the drop-down list for both the local and remote current folders will show the folders you visited during the last session.

## Sort options (16-bit version)

You can use the column headings (Name, Date, Size) above the **Local System** and **Remote System** list boxes to sort the files and folders shown in the list box. See [Sorting Directories and Files](#).

## Additional Items Available from Pop-up Menu

[Sort](#) (32-bit version only)

[Edit File](#) (only in 32-bit version, remote system list box)

[Move Files](#)

[chmod \(UNIX\)](#)

## Message Log

Below the list boxes, there is a message area that logs all queries from the WS\_FTP Pro client (your PC) and all responses from the FTP site. You can double-click in this area to expand the listing. You can also click the **LogWnd** button to display the messages in a window.

**Note to Help Author:**

This document used to be the only document for building Help files for WS\_FTP Pro Classic: both the 16bit and 32 bit versions – all the way through release 5.0.

All the topics that used to be in this file have been moved to new documents as follows:

**16bit.doc**

Contains the WS\_FTP Pro Classic 16-bit context-sensitive main screens brought up by the Help buttons in

- the two panels of Site Properties (help\_connect and help\_adv\_connect),
- the one Help button in the first screen users see after clicking the Options button (help\_options), and
- the Help buttons on each of the six panels of Program Options.

**32Clasic.doc**

Contains all the context-sensitive main screens brought up by the Help buttons in WS\_FTP Classic (32) Program Options, PLUS all other topics not included in the other files in this project. This file is the bulk of what used to be in ws\_ftp.doc.

**Defs.doc**

Contains all popup definitions for WS\_FTP Pro Classic (16&32) and Explorer, and FTP Server.

**Fieldlvl.doc**

Contains all the WS\_FTP Pro Classic 16 & 32 topics that would be WhatsThis topics if we had WhatsThis help (for both 16-bit and 32-bit WS\_FTP Pro). These are the topics that pop up when you select the popup hotspots in the “context-sensitive main screens” listed above in 16bit.doc and 32Clasic.doc.

**new\_site.doc**

All topics for Add Site or New Site dialogs in WS\_FTP Classic (16&32) and Explorer.

**ritemous.doc**

All topics for WS\_FTP Classic (16&32) right-mouse menu.

**siteprop.doc**

All topics for Site Properties in WS\_FTP Pro Classic (32-bit) and Explorer. (not 16-bit)

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## **Program Options**

WS\_FTP Pro provides many options through which you can tailor its operation to meet your particular file transfer needs. To access these options, click the **Options** button in the main window. A dialog box appears with a number of options.

[Program Options.](#) General and Advanced Options affect the layout and operation of WS\_FTP Pro.

[Session Options.](#) Session options affect the current session (and session defaults).

[Pro Options.](#) Pro options affect the overall operation of WS\_FTP Pro.

[ASCII Extensions.](#) Extensions are used for Auto Mode (auto detect binary/ASCII).

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## **Options, Program Options**

Options available in this dialog affect the display and operation of WS\_FTP Pro.

[Alternate Screen Layout](#)

[Show Buttons at Top of Screen](#)

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## Options, Session Options

The settings in this dialog box can be applied in two different ways: they can affect just what you're *currently* working on, or they can *always* be in effect.

If you want the settings to remain in effect only until you exit WS\_FTP Pro, set the desired options and click **Apply** or **OK**. (Do not click **Set as default**.)

If you want the settings to remain in effect when you re-start WS\_FTP Pro, set the desired options and click **Set as default**.

### Host Type

Auto Update Remote Directories

Show Transfer Dialog

Use Passive Transfer Mode

Sorted List Boxes

Use Firewall

Force Lowercase

Convert Extensions

### **File Names:**

Send Unique (host assigns name)

Receive Unique (PC assigns name)

Prompt for Destination File Names

### Sounds

#### Transfer Modes:

ASCIIhelp\_ASCII

BINARYhelp\_binary

L8help\_l8

Auto Detecthelp\_auto\_mode

View links\_view\_links

## **Options, Pro Options**

You can use the Pro Options to enable or disable certain features of WS\_FTP Pro.

[Enable drag-and-drop between windows](#)

[Enable auto reget of failed transfers](#)

[Sort options](#)

### Specifying ASCII (Text) File Extensions

Use the **Extensions** tab to specify ASCII transfer mode for particular file extensions. When [Automatic Detect](#) is the transfer mode, WS\_FTP Pro uses [ASCII mode](#) for files having the extensions listed here. If the file extension is not listed on this tab, the file is transferred in [binary mode](#).

To add a file extension to the Auto Detect list:

- 1 In the text box, enter a file extension. (The extension can be up to ten characters long and can contain periods.)
- 2 Click the **Add** button. The extension appears in the list box. The list box shows all file extensions WS\_FTP Pro transfers in ASCII mode when using Auto Detect.

To delete a file extension from the list box:

- Select the extension and click the **Delete** button.

### Setting Up Extension Conversions

You can have WS\_FTP Pro automatically convert the extensions of transferred files. For example, if the FTP site uses *.html* for HTML files and your system uses *.htm*, you can specify that all files with the extension *.html* are converted to *.htm* on transfer. The list box shows all defined extension conversions.

**Note:** Make sure [Convert Extensions](#) is selected. (In the 32-bit version, this is on the **Session** tab of Program Options; in the 16-bit version, this setting is in the Session Options.)

To add an extension conversion:

- 1 In the **Source** text box, enter the file extension of the source file.
- 2 In the **Destination** text box, enter the file extension to convert to (destination file).
- 3 Click the **Add** button. The extension conversion appears in the list box.

To delete an extension conversion:

- Select it in the list box and click the **Delete** button.

## Setting Associations

The **Associate** tab is used to associate files of a particular extension with an executable file. This allows you to map file types to an application (executable file) that can run that type of file. When you choose the [Exec](#) button, the file is opened in the associated application.

To set up an association:

- 1 In the **Files with Extension** text box, enter the file extension to be associated with an executable program.
  - 2 In the **Associate With** text box, enter the executable program to run when the Exec button is clicked. You can use the Browse button to browse your files and folders to locate the executable program.
- **Note:** In Windows 95 and Windows NT, the "classic" interface of WS\_FTP Pro calls *ShellExecute* to execute the file through the shell. If this fails, WS\_FTP Pro uses the associations specified in this dialog. These associations are unique to WS\_FTP Pro in this environment.

## Connecting to FTP Sites

WS\_FTP Pro allows you to store basic information about an FTP site (or "Remote System") and how you want to interact with it.

To add a new site, see [Creating a New Site](#).

To [connect](#) to an FTP site, once the site has been created:

- 1 Click the **Connect** button.
- 2 In the **WS\_FTP Sites** dialog box, locate the desired site and double-click it to connect to the FTP site it represents.

You can edit the site information as follows:

[Profile Name](#)

[Host Name](#)

[Host Type](#)

[User ID](#)

[Password](#)

[Account](#)

[Anonymous \(Login\)](#)

[Save Password](#)

[Auto Save Config](#)

[Initial Directories](#)

[Comment](#)

[Advanced...](#)

**Site Properties, Advanced Tab**

[Connection Retry](#)

[Network Timeout](#)

[Remote Port](#)

[Initialize Command](#)

[Local file mask](#)

[Remote file mask](#)

[Passive transfers](#)

[Firewall Information](#)

## **Configuring FTP Sites**

WS\_FTP Pro lets you configure your favorite [FTP sites](#) so that you can connect to each one in just the way you want to. Each configured site is represented by a site icon in the list of WS\_FTP sites.

WS\_FTP Pro comes with popular preconfigured sites, each of which can connect you to an FTP site as an [anonymous](#) user.

To add a new FTP site, see [Adding a New FTP Site](#).

To customize an FTP site, choose from the following topics:

[Change the name of a site](#)

[Edit the host name, address, and/or type](#)

[Add a comment about the FTP site](#)

[Changing your User ID and/or password](#)

[Change the location you view when you first connect to a site](#)

[Issue commands to an FTP site](#)

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### Site Properties, General Tab

**Site Name.** This is the name that appears in the list of configured sites; it can be anything you like, but not longer than xx characters. *This name can (and should) be different than the Host Name/Address!*

**Host Name/Address.** This is either a fully qualified Internet [host name or an IP address](#).

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

**User ID.** If you have an account on the FTP site, enter the User ID you use to access the site. (Or, you can click the **Anonymous** check box to automatically enter [anonymous](#) as the user.)

**Anonymous** check box. Selecting this box will automatically enter anonymous as your User ID and enter your e-mail address as the **Password**.

**Password.** If you have an account on the FTP site, enter the appropriate password for the User ID that you entered. If this is an anonymous login, enter your full e-mail address. (You can place a minus (-) sign in front of the e-mail address to reduce the number of site administrator messages you receive.)

- **Note:** Instead of entering your password for anonymous logins, it is recommended that you simply click the **Anonymous** check box.

**Save Pwd.** Select this box *only if you are the only user of your computer* and no one else has access to your WS\_FTP folder. (Passwords are stored in the WS\_FTP.INI file in an encrypted form.)

**Account.** If you have an account, enter the account name here. (In most cases, you will leave this blank because most FTP sites do not use accounts. The account name is used on VM/CMS hosts for the initial password to the user's default folder. When you change folders (**ChgDir**) on a VM/CMS host you are prompted each time for the password to connect to that folder.)

**Comment.** Enter any comments you want to include with this site.

**For advanced site settings, see also:**

[Customizing an FTP site](#)

### Site Properties, Startup Tab

**Initial Remote Host Directory.** If there's a folder on the FTP site that you want to use as your starting location when you [connect](#) to this FTP site, enter the path of the folder here.

**Initial Local Directory.** If there's a folder on your PC that you want to use as your starting location when you connect to this FTP site, enter the path of the folder here.

**Initialize Command.** If you know of commands that need to be issued to the FTP site at the beginning of the session, enter them here. For example, the command SITE UMASK 022 changes the UMASK used when creating files (on a UNIX system). Separate multiple commands with a semi-colon (;).

**Local file mask.** You can enter a code here to limit the display of files and folders to just one particular type. If blank, this defaults to \*.\* to show all files and folders.

**Remote file mask.** You can enter a code here to limit the display of files and folders to just one particular type. If blank, this defaults to \*.\* to show all files and folders. For example, you can enter "-al" to display all files on a UNIX site, or something like "\*.zip".

**Time offset in hours** (32-bit version only). There is no standard for specification of date/time on FTP sites, but often it is displayed in GMT. If the time zone of the FTP site is different from yours, you can enter a number of hours to add to the file date and times to convert them to your local date and time. Use a positive number to add, or a negative number to subtract.

### **Site Properties, Advanced Tab**

**Connection Retry.** Number of times to retry establishing a connection if the first connection attempt fails.

**Network Timeout.** This is the number of seconds before WS\_FTP Pro times out waiting for an FTP site to respond 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 FTP site. Setting it to less than the amount of time that your Winsock DLL uses will cause the connection to fail in that amount of seconds.

**Remote Port.** This is the port to connect to on the FTP site. This is normally 21, however, it may be something different if you are going through a firewall, or if the site administrator has assigned the FTP service to a non-standard port.

**Passive transfers.** Select this option if you want your PC to establish the data connection to the FTP site instead of the site establishing the data connection to your PC. This is necessary for some firewall and gateway configurations and when you get failed data channel errors. **Note: not all FTP sites support passive transfers.**

### Site Properties, Firewall Tab

**Use Firewall.** If your PC is behind a [firewall](#) host, make sure this option is selected.

To enter the rest of the information on this tab, you'll need to get information about your firewall from your network administrator. Depending on the type of firewall, you'll need the following information.

- For a "SITE hostname" firewall type, you'll need Host Name and User Name (id).
- For a "Transparent" firewall type, you'll need User Name (id) and Password.
- For "USER with no logon" or "Proxy OPEN" firewall types, you'll need the Host Name. (The User Name and Password are ignored.)
- For "USER after logon," "USER remoteID@remoteHost fireID," "USER fireID@remoteHost," or "USER remoteID@fireID@remoteHost" firewall types, you'll need Host Name, User Name (id), and Password.

**Host Name.** Specify the name or IP address of the firewall.

**User ID.** Enter the firewall User ID or leave blank if not used.

**Password.** Enter the firewall password for the specified User ID or leave blank if not used.

**Save Password.** Select this box **only if you are the only user of your computer** and no one else has access to your WS\_FTP folder. Passwords are stored in the WS\_FTP.INI file and even though they are encrypted, it is an easy encryption to break.

**Port.** Specify the firewall [port](#).

**Firewall Type.** Select the firewall type from the drop-down list.

## **Customizing an FTP Site**

Once you've configured an FTP site, you can edit the Site Properties at any time. You can:

[Change the name of a site](#)

[Edit the host name, address, and/or type](#)

[Add a comment about the FTP site](#)

[Changing your User ID and/or password](#)

[Change the location you view when you first connect to a site](#)

[Issue commands to an FTP site](#)

[Display only one type of file](#)

[Adjust the file dates and times for a different time zone](#)

[Use advanced options](#)

### **Changing the Name of a Site**

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **General** tab.
- 4 Enter a new **Site Name**. (This name should be different from the **Host Name**.)

### **Commenting on an FTP Site**

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **General** tab.
- 4 Enter a **Comment** about the site.

### **Editing the Host Name, Address, and/or Type**

1 Select the site.

2 Select **Properties**.

3 Click the **General** tab.

4 Edit the **Host Name** or **IP Address**.

This is either a fully qualified Internet [host name or IP address](#).

5 Edit the **Host Type**.

If you know the host type, select it from the drop down list. Otherwise, try "automatic detect."

### Editing Your User ID for an FTP site

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **General** tab.
- 4 Do one of the following:
  - (Recommended) To [log in as an anonymous user](#), select **Anonymous**. WS\_FTP Pro enters your e-mail address as your password.
  - If you have an account on the site and must use a User Name, make sure **Anonymous** is clear, and then enter **User Name**, **Password**, **Confirm Password**, and [Account](#) (if applicable).

**Note:** Do not check the **Save Password** box unless you are the only user of your computer and no one else has access to your Windows directory!

### Changing the Location You View on an FTP Site

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **Startup** tab.
- 4 In the **Initial remote folder** text box, enter the path of the folder you'd like to view when you first connect to this site.

### Issuing Commands to an FTP Site

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **Startup** tab.
- 4 In the **Initialization command** text box, enter any commands you want to issue to the FTP site at the beginning of the session. Separate multiple commands with a semi-colon (;).

For example, the command SITE UMASK 022 changes the UMASK used when creating files (on a UNIX system).

### Displaying Only One Type of File

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **Startup** tab.
- 4 To limit the files you see to just one type, enter an asterisk and period followed by the file extension in the **Remote file mask** text box. For example, to display only text files, enter `*.txt`.  
To display all files on a UNIX FTP site including hidden (.) ones, enter `-al` or `-la`. Or, use `-altr` to receive file names in date sequence. (*For those familiar with DOS FTP clients:* You can also enter any argument string you would use with a "Dir" command.)

### **Adjusting for a Different Time Zone**

WS\_FTP Pro can adjust the display of file dates and times on an FTP site so they represent the times and dates in *your* time zone. For example, if an FTP site is in a time zone three hours earlier than your time zone, you can have WS\_FTP Pro adjust a date and time of 11/10/97 1:00 AM to 11/9/97 10:00 PM.

- 1 Select the site.
- 2 Select **Properties**.
- 3 Click the **Startup** tab.
- 4 In the **Time offset in hours** text box, enter the difference in whole hours between the time zone of your PC and the time zone of the FTP site. Use a positive number if the site is in an earlier time zone (west), a negative number for a later time zone (east).

### Creating a New FTP Site

- 1 Click **Connect** to display the WS\_FTP Sites dialog box (if it's not already displayed).
- 2 Click **New** to display the New Site/Folder dialog box.
- 3 Make sure **Site** is selected.
- 4 Enter a name for the site and click **Next**.
- 5 Enter the Host Name or IP Address and click **Next**.
- 6 Do one of the following:
  - Select **Anonymous** to connect to the FTP site using an anonymous log in.
  - Enter a **User ID** and **Password** to log on to an account on the FTP site.
- 7 Click **Finish**.

The new site appears in the list of WS\_FTP Sites. Double-click it to connect to the site.

### **New Site/Folder**

This dialog box allows you to create either a new site or a new folder for organizing your configured sites.

To create a new site,

- 1 Click **Site**.
- 2 Enter a name for the site and click **Next**.

To create a new folder,

- 1 Click **Folder**.
- 2 Enter a name for the folder and click **Finish**.

**Host Name/IP Address**

Each system on the Internet must have both a host name and an Internet (IP) Address. Each host name corresponds to one unique IP address; likewise, each IP address corresponds to one unique host name. In WS\_FTP Pro, you can use *either* the host name *or* the IP address to specify a particular system.

For example, a system might have a host name of *superserv.ipswitch.com* and an IP address of 156.21.50.1. (Each IP address is a 32-bit designation consisting of four numbers from 1 to 255 separated by dots.)

**Logon Information**

**Anonymous.** Selecting this box automatically enters [anonymous](#) as your **User ID** and your e-mail address as the **Password**.  
**User ID.** If you have an account on the FTP site, enter the User ID you need to use to access your account.

**Password.** Enter the Password you want to use for the User ID you entered. If this is an anonymous login, enter your full electronic mail address. (Place a minus (-) sign in front of the e-mail address to reduce the number of site administrator messages you receive.)

**Save Password.** If you have an account on the FTP site, you can also save your password by clicking **Save Password** and entering your password in the text box.

**File Transfer Protocol**

FTP stands for File Transfer Protocol, one of the standard protocols defined for use on the Internet.

FTP is a client/server based protocol, whereby a client program on one system, usually your PC, sends requests to a server program on another system, an [FTP site](#), and receives replies from the site.

## FTP Sites

An FTP site consists of an FTP server program located on an Internet host computer.

Many companies and organizations maintain FTP sites (also known as “FTP servers”). These are file repositories from which you can copy files such as free programs and evaluation versions of software. WS\_FTP Pro provides a number of popular FTP sites that have already been configured for you

- **Note:** When you [connect](#) to an FTP site, look for a file called *readme*, *readme.txt*, *index*, or *00index*. Such files provide descriptions of the files available on the site as well as other useful information.

### **Configured FTP Site**

A configured FTP site is an FTP site about which you have saved some information in the Site Properties dialog box in WS\_FTP Pro:

The **General** tab contains the following site properties: site name, host name/IP address, host type, user ID, password, and account.

The **Startup** tab specifies the startup folders for the FTP site and your PC, any initialize commands, the local and remote file masks, and the time offset.

The **Firewall** tab contains your firewall user ID and password, as well as the firewall's host name, port, and type.

The **Advanced** tab contains settings for retrying the connection, network timeout, remote port, and passive transfers.

**FTP Client**

An FTP client is a computer that is running [FTP](#) client software. When you use FTP to download files from an FTP site, you are actually running an FTP client (such as WS\_FTP Pro) on your PC.

**Upload**

To transfer a file *from* your local PC *to* an FTP site.

**Download**

To transfer a file *to* your local PC *from* an FTP site.

**Connect**

When you "connect" to an FTP site, WS\_FTP Pro sends messages to the FTP site and -- if the connection is successful -- receives messages back from the site. These messages use the Internet's File Transfer Protocol.

### **Temporary Directory**

The temporary directory is the folder on your PC to which WS\_FTP Pro copies files you open.

**TBD: How does this work for Classic and Explorer in Version 6? Both use same folder?????**

In Version 5 of Explorer: By default, this folder is named WS\_FTPE and is created by default under your System TEMP folder when you first install WS\_FTP Pro. To check the location of your temporary folder, select **WS\_FTP Pro Properties** from the File menu and click the **General** tab. To change the temporary folder, enter a new path in the **Temporary Directory** text box.

**Internet Address**

An Internet address, or IP address, is a unique identifier that defines a system's location on the Internet. IP addresses are 32-bit designations consisting of four numbers from 1 to 255 separated by dots (.), for example, 156.21.50.1.

Each IP address is also represented by a unique name. For example, the IP address 156.21.50.1 maps to the computer named superserv.ipswitch.com.

**Windows Registry**

The registry is part of the Microsoft Windows operating system that keeps track of which applications work with which file types.

**Transfer Mode**

Transfer mode refers to the way the elements of the file are transferred from one computer to another. [Binary](#) files must be transferred in [binary transfer mode](#); [ASCII](#) (text) files must be transferred using [ASCII transfer mode](#).  
Select the transfer mode from the Options menu.

**ASCII**

ASCII. Text file format. Text files have end-of-line characters; the end-of-line character is different on different types of computers.)

**Binary**

A file format that is used for non-text files such as executable programs, word processing documents, spreadsheets, databases, graphics files, and sound files.

**Binary Transfer Mode**

The binary transfer mode transfers a file as an exact copy of the original, and should be used for transferring all [binary](#) files. (Binary mode contrasts with ASCII mode which treats a file as text, translating the end-of-line characters during transfer.)

**ASCII Transfer Mode**

The ASCII transfer mode treats a file as text, and should be used for all [ASCII](#) (text) files. ASCII transfer mode translates the end-of-line characters during transfer so that the file can be read on the destination system. (ASCII mode contrasts with binary mode in which characters are not translated, but are transferred as exact duplicates of the original.)

**Open or Execute a File (TBD: same for Classic & Explorer?)**

When you double-click a file on an FTP site, WS\_FTP Pro copies the file to the [temporary directory](#) and then executes or opens the file according to Windows standards: if the file is executable (.exe, .com, .bat, or .pif), Windows executes the file. If the file is not an executable, the file is opened in whatever application is associated with the file extension in your [Windows registry](#). If there is no file extension or the file extension is not associated with an application, you are prompted to select an application to open the file.

**Right Mouse Menu**

The menu that appears when you press the right mouse button.

**Local System**

Your PC.

**Remote System (or Remote Host)**

A remote system is the host computer, or [FTP site](#), to which your PC [connects](#); the remote system can be located in your office or somewhere else.



The site icon represents a collection of information about an FTP site that WS\_FTP Pro uses to locate and log in to the site.

**Host Name**

The official name of a computer on the Internet that represents the IP Address. For example, the host name, superserv.ipswitch.com, maps to the IP address 156.21.50.1.

**Overwrite**

To replace a file with another file having the same filename.

**Access Privileges**

The permissions you have on an FTP site. The administrator of an FTP site controls the privileges associated with each account on the site, including the privileges for "Anonymous" logins.

**Disconnect**

To disconnect your local system from an FTP site, WS\_FTP Pro closes any open connection between the local machine and the FTP site.

**Account**

Some FTP sites, notably VM/CMS hosts, require an account in order to authenticate the client and provide access to a default directory for the user. For most sites, however, no account is required.

**Firewall**

Some organizations separate their networks from the rest of the world by installing a "firewall" or "gateway." A firewall is a system or software which is configured to prevent particular types of access/information from entering the network. Most firewalls block the flow into the local area network, but allow individuals to access most resources outside of the network.

Some types of router-based firewalls will not allow an FTP site to establish a data connection to your local PC. You'll want to use [passive transfers](#) for if you local area network is behind these types of firewalls.

**Winsock DLL**

The Winsock (Windows Sockets) dynamic link library is a specification for the Microsoft Windows API (applications programming interface). Software providers use Winsock as a guideline for developing network software.

**Remote port**

The remote port is the port on which an FTP site, is "listening" for an FTP request. The default remote port number for FTP is 21.

**Passive Transfers**

Normally, when you connect to an FTP site, the site establishes the data connection to your PC ([the client](#)). However, if the site allows passive transfers, you can have your PC establish the data connection.

**Host Name/Address**

Each system on the Internet must have both a host name and an Internet (IP) Address. Each host name corresponds to one unique IP address; likewise, each IP address corresponds to one unique host name. In WS\_FTP Pro, you can use *either* the host name *or* the IP address to specify a particular system.

For example, a system might have a host name of *superserv.ipswitch.com* and an IP address of 156.21.50.1. (Each IP address is a 32-bit designation consisting of four numbers from 1 to 255 separated by dots.)

**Anonymous**

Most FTP sites support anonymous logins where you do not have to have an account on the FTP site in order to transfer files. For most anonymous logins, the User ID is the word "anonymous" and the password is your e-mail address.

**URL**

Uniform resource locator. For example the URL of an Ipswitch ftp site is <ftp://lpswitch.com>.

**FTP Menu**

You can bring up a menu by pressing the right-mouse button when the cursor is pointing at the *gray area* of the main window. The commands on this menu are the following:

**Connection.** Same as clicking the Connect button.

**Options.** Same as clicking Options button in main window.

**Show Log.** Same as clicking LogWnd button in main window.

**Help.** Same as clicking Help button in main window.

**About.** Same as clicking About button in main window.

**FTP Commands.** CWD, PWD, HELP, SYST, SITE, QUOTE, LIST, NLST, RETR, STOR.

## Right Mouse Menu

You can bring up a menu by pressing the right-mouse button when the cursor is in the list boxes of the main window. The commands on this menu are the following:

**Sort.** xxx

**Change Directory.** Same as clicking ChDir button in main window.

**Make Directory.** Same as clicking Mkdir button in main window.

**Delete Directory.** Same as clicking Delete button in main window.

**Transfer file/directory.** xxx

**Append file.** xxx

**View file.** Available only if file selected.

**Edit file.** Available only if file selected.

**Execute file.** Available only if file selected. Same as clicking Exec button in main window.

**Rename file/directory.** Available only if file/directory selected. Same as clicking Rename button in main window.

**Move files/directory.** Available only if file/directory selected.

**Delete files.** Available only if file selected. Same as clicking Delete button in main window.

**chmod (UNIX).** Available only if file selected.

**Refresh list.** xxx

**Directory list.** xxx

**FTP Commands.** CWD, PWD, HELP, SYST, SITE, QUOTE, LIST, NLST, RETR, STOR.

**Sort...**

The **Sort...** command appears only in the 32-bit version of WS\_FTP Pro. It allows you to change the sort order of the files displayed in the selected list box. File names can be sorted by name, extension, date, or size. Sort order can also be reversed. The **Show Full Directory Information** option on the **Advanced** tab of the Program Options must be enabled for sort to work properly.

Note that information necessary to build a standard list is not available for all host types. If your host type does not sort properly send a description and the **DirInfo** window contents to [support@ipswitch.com](mailto:support@ipswitch.com).

### **Appending Files**

You can select one or more files on the source system and transfer those files to the destination system, appending them to a destination file.

- 1 Select one or more files on the source system.
- 2 In the source system list box, select **Append files** from the right-mouse menu. A dialog box prompts you to enter the destination file name.
- 3 Enter the name of the file to which you want to append files, and then click **OK**. The selected source files are copied to the end of the destination file.

### **Editing files**

The **Edit file** command allows you to edit a remote file locally. It appears only in the 32-bit version of WS\_FTP Pro when a file is selected. When you select **Edit file**, WS\_FTP Pro transfers the file to the local system and opens the appropriate application. When you close that application, WS\_FTP Pro transfers the file back to the [FTP site](#).

Note that your FTP session *may* timeout if you take an excessive amount of time to edit the file, normally more than four minutes. In the event of a timeout, the file is not updated on the FTP site and your edits may be lost. You can go back to the WS\_FTP Pro window and refresh the folder listing every couple of minutes to keep the session alive.

Files on the local system can be directly edited via the **View** or **Execute** buttons.

### **chmod (right-mouse menu)**

The chmod (UNIX) command appears only when one or more files or folders are selected in the **Remote System** list. When you select chmod, you see a dialog box where you can specify the most common UNIX file attributes.

- **Note:** You must have write permission on the FTP site and the site must support the "SITE chmod" command. This is normally valid only on UNIX-based systems. The selected items do not reflect the current permissions of the file.

## Moving Files

You can move files from one folder to another folder on the same system.

- 1 Select one or more files.
  - 2 Right-click one of the selected files and select **Move files...** from the right mouse menu. You are prompted for the folder to which you want to move the files (the folder must be on the same system).
  - 3 Enter the complete folder path and click **OK**. The selected files are moved to the new location.
- **Note:** To move files on an [FTP site](#), you must have write privileges and the site must support the movement of files. Note that most sites will allow you to overwrite a file without giving you a warning.

### **FTP Commands (Overview)**

File Transfer Protocol provides a number of commands you can use to interact with an FTP server. You can use some of these from WS\_FTP Pro.

- 1 Connect to an FTP site.
- 2 Place the cursor in the file and folder list of the **Remote System**.
- 3 Select **FTP commands** from the right-mouse menu.
- 4 Select the desired command.

**SITE Command (right-mouse menu)**

Enter a remote site specific command. WS\_FTP Pro prefixes your entry with the word SITE and sends your entry to the FTP site without any editing. It is up to you to determine what is valid input for this command by reading the documentation for the FTP site.

**QUOTE Command (right-mouse menu)**

Enter any command you want. WS\_FTP Pro sends it to the FTP site, unedited. It is up to you to determine the command syntax depending on the FTP site you are connected to. You should not send any commands that need to open a secondary channel.

### **Alternate Screen Layout**

This check box controls the layout of the main window. The standard layout shows the **Local System** on the left, and the [Remote System](#) on the right.

The "alternate layout" shows the local system and file list on top and the remote system and file list on the bottom.

**Show Buttons at Top of Screen**

Controls the placement of the buttons that are normally across the bottom of the window.

**Hide Directory Buttons (32-bit version)**

If selected, hides the column of buttons (**ChgDir**, **MkDir**, etc). These functions are then available only from the right-mouse menu.

**Show Full Directory Information**

When this option is selected, additional file information is displayed when possible. However, WS\_FTP Pro does not attempt to decipher or interpret this information; it is shown only for informational purposes.

- **Note:** This may not work on all types of FTP sites.

**Auto Save Host Configurations**

If selected, WS\_FTP Pro automatically saves the site configuration when you click the **OK** button in the Session Properties dialog box.

**Verify Deletions**

If selected, WS\_FTP Pro prompts you for confirmation when you delete files.

**Show Connect Dialog on Startup**

When this option is selected, WS\_FTP Pro displays the connect (Session Properties) dialog box when WS\_FTP Pro first starts.

**Debug Messages**

When this option is selected, extra debug messages are included in the message window at the bottom of the main window.

**Text Viewer**

Enter the name of the program that is invoked when you click the [DirInfo](#) or [View](#) buttons. The default text viewer is the Windows Notepad.

**Log Filename**

When the **Enable log** option is enabled, WS\_FTP Pro writes the [FTP](#) message log to this file.

By default, this file is named `Ws_ftp.log`, and it is automatically placed in every folder to which you download files. If you *don't* want log files in every folder, specify a full path for this file.

**Enable Log**

When selected, [FTP](#) messages between your PC and the FTP site are written to the log file specified in the **Log filename** text box.

**E-Mail Address**

This is used as the default password for [anonymous](#) logins as required by most anonymous [FTP sites](#).

You can place a minus (-) sign in front of the e-mail address in order to minimize the number of descriptive messages you'll receive from the FTP site administrator.

### **Remote Edit Uses ShellExecute**

Select this box if, when selecting a remote file for editing, you want to open the selected file in its associated application without transferring the file to a temporary file on your local system. The file will be opened in the application associated with its extension (for example, a *.doc* file will be opened in Microsoft Word). See [Associations](#) for more information.

- **Note:** When this box is not selected, a remote file selected for editing will be transferred and given the extension *.tmp*, thus the transferred file (such as a *.doc* file) will not open in its associated application.

To edit a file, select it, and then select **Edit File** from the right-mouse menu.

**Reset Window Location**

Resets the current main window size and location to the original settings.

**Save Window Locations**

Saves the current main window size and location. Note that this works only if the main window is not maximized.

**List Box Font**

Changes the font used in list boxes.

*System Variable*, which is a variable font, is the default.

*System Fixed* is the fixed system font and will improve the alignment of columns in the boxes.

*ANSI Variable* is a narrower font than the System font.

*ANSI Fixed* is the ANSI fixed font.

Selecting *Custom Font* displays the Windows font dialog box from which you can select a specific font family, style, and size.

**(Auto) Scale Fonts**

When selected, the font in dialog boxes (excluding list boxes) is the ANSI variable font. Its size is reduced when the window is made smaller.

**Double-click Action: Transfer**

When you double-click a filename, the file is transferred to the system whose information is displayed in the opposite side of the window. Therefore, if you double-click a file on the local side, it is uploaded to the FTP site; and if you double-click a file on the remote side, it is downloaded to the local system.

**Double-click: View (file)**

When you double-click a filename, the file is opened in the [viewer](#) you have defined in the [Program Options](#) (16-bit version) or on the [General tab](#) of the Program Options (32-bit version). If you double-click a remote file, it is transferred in the [selected file transfer mode](#) to the Windows temporary folder on the local system and opened in the viewer.

**Double-click: Nothing**

When you double-click a filename, nothing happens.

**Network Buffer Receive Size (32-bit version)**

Recv Bytes (16-bit version)

This option controls how many bytes are read from the network in each "Read" ("recv"). The value can vary from 80 to 4096. You should see the best results with this set to 4096. Note that the actual number of bytes in each "recv" is determined by the TCP/IP stack and by the amount of information available.

**Network Buffer Transmission Size (32-bit version)**

Send Bytes (16-bit version)

This option controls how many bytes are written to the network in each "send." The value can vary from 80 to 4096. The optimum value to place here depends on your TCP/IP stack. If you have a direct connection, 4096 is best. If you have a SLIP or PPP connection, you probably want to set it to the MTU size.

**Enable Drag and Drop Between Windows**

When selected, you can transfer files and folders between systems by dragging them with the mouse from one list box to another.

**See also:**

[Drag-and-drop](#)

**Enable Auto Reget of Failed Transfers**

When selected, WS\_FTP Pro asks if you want to resume an interrupted transfer when you reconnect to the FTP site. An interrupted transfer is one that is stopped because of a lost connection or because it was cancelled.

**See also:**

[Resuming file transfers](#)

**Preserve file time on transfer from remote**

When selected, a downloaded file maintains its original creation date and time. If not selected, a downloaded file is updated to the the date and time of the transfer. Note that this option does not apply to uploaded files.

**Prompt for Overwrite of Same or Newer Files**

When selected, WS\_FTP Pro asks if you want to overwrite a file when you attempt to transfer a file or folder to a destination where there is the same or newer version (by date and time). Note that this feature will not work with some FTP sites.

**Don't Transfer Older or Same Files**

When selected, WS\_FTP Pro transfers only those files in a folder for which there are not the same or newer versions (by date and time) in the destination folder.

**Auto Update Remote Directories (16-bit version)**

Update Directories After Transfer (32-bit version)

When selected, the list of files and folders is refreshed after uploading a file, deleting a file or folder, or creating a folder. (Note that you can always click the **Refresh** button to update the list.)

**Show Transfer (Progress) Dialog**

When selected, a Transfer Progress dialog box appears during file transfers. It displays the status of the transfer and shows a percent done bar (if the file size is sent by the FTP site).

- **Note:** You can click the **Cancel** button in the dialog box at any time to cancel the transfer. If you cancel a transfer, you will have a partial file in the transfer destination. You should delete the partial file.

**Initialize Command**

Enter any commands that need to be issued to the FTP site at the beginning of the FTP session. For example, the command `SITE UMASK 022` changes the UMASK used when creating files (on a UNIX system). Separate multiple commands with a semi-colon (;).

**Local File Mask**

Enter the initial startup arguments for the listing files on the local system. For example, \*.zip will show all .zip files in the startup folder. If blank, this defaults to \*.\* to show all files and folders.

**Remote File Mask**

Enter the initial startup arguments for the remote LIST command. This could be "-al" or "-la" to display all files on a UNIX system or something like "\*.zip".

**Use Passive Transfer Mode**

By default, FTP data connections are established by the FTP site. Passive Mode forces the data connections to be established by the client. Passive mode may be required for users who are behind some types of router-based firewalls or behind a gateway requiring passive transfers.

**Send Unique (host assigns name)**

This option makes sure the transmitted file names do not conflict with existing files *if the FTP site supports* the FTP command, STOU. The new filename is determined by the FTP site.

**Receive Unique (PC assigns name)**

This option makes sure the received file names do not conflict with existing files. The new filename is changed so that the sixth through eighth characters of the filename are a number between 000 and 999.

**Prompt for Destination File Names**

When this option is selected, WS\_FTP Pro prompts you to confirm or change the destination path and filename. For each file that is transferred, WS\_FTP Pro shows you the proposed destination file name and allows you to change it. You can enter a full pathname to a different folder if you want.

- **Note:** When this option is selected, you can bypass the prompt by holding down the Ctrl key when you click the transfer arrow.

**Sounds**

Plays the specified sound on connection success, on file transfer success, or on an error. This will be the Default Beep sound.

**None.** No sounds

**Beeps.** Use system sounds

**Wave.** Play the specified WAV files (*connect.wav*, *complete.wav*, and *error.wav*)

**Sorted List Boxes**

If this box is selected, the **Remote System** list box is automatically sorted alphabetically. Otherwise the files are presented in the order the FTP site transmits them.

**See also:**

Sort options in the [Pro options](#)

**(Startup) Transfer Mode: ASCII**

Used for text file transferring. (The end-of-line character is different on different types of computers; using ASCII mode ensures that the end-of-line character is translated properly.)

- **Note:** If you know that the FTP site you are transferring to or from is running the same operating system as your local system, you can always use binary mode and never use ASCII.

**(Startup) Transfer Mode: Binary**

Binary mode is used for transferring files that are not text (ASCII files). Executable programs, word processing documents, spreadsheets, databases, graphics files, and sound files are some examples of files that must be transferred in binary mode. If you know that the FTP site you are transferring to or from uses the same operating system as your local system, you can always use binary mode and never use ASCII.

**(Startup) Transfer Mode: L8**

Used for VMS non-text file transferring.

**Use Firewall**

When selected, the Firewall properties are activated. Select this and click the **Set as default** button to make it the default value for all sites. You can also set this property on a per site basis in the **Firewall** tab of the Site Properties dialog box.

**Force Lowercase (Remote Names)**

When selected, the names of files are converted to all lower case letters when you transfer files from your PC to an FTP site.

**Convert Extensions**

When select, the extensions of all transferred files are compared with the list on the Extensions tab. If the file extension is found in this list, the destination file name is changed to match the desired extension. For example:

htm=html

or,

html=htm

**Remember Directories**

If selected, the drop-down list for both the **Local System** and [Remote System](#) shows the folders you visited during the session. These folders are saved if you click the **Close** button before exiting the session.

**Save Current Directories as Connection Directories**

Saves the local and remote folder names in the current Site Properties.

**(Startup) Transfer Mode: Automatic Detect**

When selected, all files are transferred in binary mode unless the extension is listed on the Extensions tab. (WS\_FTP Pro stores the ASCII extensions in the ws\_ftp.txt file). Extensions can be up to ten characters long and can contain periods.

- **Note:** These are not DOS extensions! Rather they are the ending characters of a filename. If you expect it to match on a period, you *must* put the period in. Some samples are shown below.

.LST  
.TXT  
.ME  
README

**View Links**

If this option is selected, you can view links on the FTP site (for example, UNIX symbolic links) as *directories* or as *files*.

- **Note:** This option does not appear in the 32-bit versions of WS\_FTP Pro because links are handled automatically there.

**Transfer Rate Display**

The transfer rate is displayed in the Transfer Status dialog box. It can be displayed in bits per per second or in bytes per second.

### **Set as Default**

The settings on the Session and Session (cont'd) tabs of the Program Options can be applied in two different ways. They can be:

- Set for the current site *and* until you **Exit** the program  
or,
- *Always* in effect.

If you want the settings to apply to the current site *and* until you **Exit** the program, set the desired options and click **Apply** or **OK**.  
(Do not click **Set as default**.)

If you want the settings to remain in effect all the time, set the desired options and click **Set as default**.

**Date Format**

Dates can appear a number of different ways in WS\_FTP Pro. You can display:

- Years as two digits (for example, 98) or four digits (for example, 1998).
- Dates as year, month, day (for example, June 9, 1998 would be 980609).
- Dates as month, day, year (for example, June 9, 1998 would be 060998).
- Dates as day, month, year (for example, June 9, 1998 would be 090698).

**Internet Address**

An Internet address or IP address is a unique identifier that defines a system's location on the Internet network. IP addresses are 32-bit addresses that are commonly specified in Internet dot notation, which consists of four numbers from 1 to 255 separated by dots (.), for example: 156.21.50.1

Each IP address is mapped to a unique hostname as it is easier for people to remember names than it is to remember strings of numbers. For example, the IP address 156.21.50.1 maps to the system named superserv.ipswitch.com.

### **Local System vs. Remote System**

In networking terms, the **Local System** refers to your PC. The **Remote System** is any FTP site you [connect](#) to via a modem or local-area network.

**Profile Name**

This is the name of the FTP site information you are saving, and can be anything you desire to identify the connection you are creating. The length of this name is restricted as it is used as a section name in the *WS\_FTP.INI* file.

You can select from a number of preconfigured popular [FTP sites](#). Click the **Profile Name** list box to show the choices.

**Host Name/Address**

This is either a fully qualified Internet host name or an [IP address](#).

**Host Type**

If you know the host type, select it from the drop down list. If you don't know, try "Automatic detect," which takes care of about 90% of all FTP sites.

**User ID**

If you have an account on the FTP site, enter the **User ID** you need to use to access your account. Or, you can click the **Anonymous** check box to automatically enter [anonymous](#) as the **User ID**.)

**Password**

Enter the **Password** you want to use for the **User ID** you entered.

If this is an [anonymous](#) login, enter your full electronic mail address. You can place a minus (-) sign in front of the e-mail address to reduce the number of site administrator messages you receive.

**Account**

If the FTP site requires an account, enter the account that you want to use for the **User ID** you entered. Note that the account is used for VM/CMS hosts for the initial password to the user's default folder. When you change folders (**ChgDir**) on a VM/CMS host you are prompted each time for the password to connect to that folder.

**Connection Retry**

Number of times to retry establishing a connection if the first connection attempt fails. This can be from 0 to 40 times.

**Network Timeout**

This is the number of seconds before WS\_FTP Pro times out waiting for an FTP site to respond to a command.

Note that the initial timeout is determined by your Winsock DLL. Setting this value higher does not have any effect on the initial connection to the FTP site. Setting to less than the amount of time that your Winsock DLL uses causes the connection to fail in that amount of seconds.

**Port**

This is the **Port** to [connect](#) to on the FTP site. This is normally 21 for FTP, however, it may be something different if you are going through a firewall, or if the site administrator has assigned the FTP service to a non-standard port.

**Anonymous**

Selecting this box automatically enters [anonymous](#) as your **User ID** and your e-mail address as the **Password**.

**Save Password**

Optionally, select this box to save your password with the site information. If you do not save the password, WS\_FTP Pro will prompt you for one when you initiate the connection. (Passwords are stored in the WS\_FTP.INI file and even though they are encrypted, it is an easy encryption to break.)

**Auto Save Host Configurations (Auto Save Configs)**

When enabled, automatically saves the site information when you click **OK**. You can also set this option in the Program Options so it will be enabled for all new sites you create.

**Initial Directories**

**Initial Remote Host Directory.** If there's a folder on the FTP site that you want to use as your starting location when you [connect](#) to this FTP site, enter the path of the folder here.

**Initial Local (PC) Directory.** If there's a folder on your PC that you want to use as your starting location when you connect to this FTP site, enter the path of the folder here.

**Comment**

Enter any comments you want to include with this site.

**ChgDir (Change Directory)**

The **ChgDir** button allows you to change the current folder from the one displayed in the text box under either **Local System** or [Remote System](#) to another folder on the system. This command works only on systems that implement the concept of directories.

If you select a folder name in the folder list box and choose this command, WS\_FTP Pro changes the current folder to the one selected.

If no name is highlighted, you will be prompted for the folder to change to. When prompted for a folder, you can also enter a drive letter followed by a colon (for example, d:) to change to a different disk drive.

**MkDir (Make Directory)**

The **MkDir** button allows you to create a folder if possible. (Not all [FTP site](#) allow you to create folders; you must have an account on the site and "create" privileges.)

When you select this command, you are prompted for a folder name that is valid for the current system.

**Rmdir (Remove Directory)**

The **Rmdir** button allows you to remove a folder if possible. (Not all [FTP site](#) allow you to make and delete folders remotely; you must have an account on the site and "delete" privileges.)

When you select this command, you are prompted for a folder name.

### **File Mask Text Box**

The File Mask text box is located just below the **MkDir** button. It allows you to limit the files displayed in the lists for either the **Local System** or [Remote System](#); this is handy if there are a large number of files and folders.

In the **File Mask** text box, enter a filter that is valid for the system, and then press Enter. For example, to display only files with the extension `.txt`, enter `*.txt` in the **File Mask** text box and press Enter. The corresponding list box is refreshed to display only the files with the extension `.txt`.

If you are connected to a UNIX FTP site, you can use:

- `-al` or `-la` in the **File Mask** text box on the **Remote System** side of the window to view hidden (`.`) files
- `-altr` in the **Remote System** side of the window to view file names in date sequence (in the 32-bit versions of WS\_FTP Pro only)

*Note to those familiar with FTP command line clients:* You can use any argument string you would use with a "Dir" command in a command line FTP client.

**View**

The **View** button allows you to view a file in ASCII format by whatever [viewer](#) you have defined on the **General** tab of [Program Options](#) (in the 32-bit version of WS\_FTP Pro) or in the [General properties](#) (16-bit version).

When you view a file on an [FTP site](#), the file is transferred according to the transfer mode settings in the FTP Pro main window to the Windows temporary folder and opened in the viewer.

## **Execute**

The **Exec** button allows you to execute, or open, a file.

- If you select a local filename and then click **Exec**, the file is executed using the same rules as if it were executed in Windows.
- If you select a filename on an [FTP site](#) and then click **Exec**, the file is transferred in the [selected file transfer mode](#) to the Windows temporary folder and is executed 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 Windows file associations are used. If the extension has no association, you are allowed to specify the association at run time. This association is saved in the WIN.INI file in the Extensions section and is also valid for Windows.

You can set associations by clicking the **Options** button and then selecting [File Associations](#).

## **Rename**

The **Rename** button allows you to rename a file or folder, if possible. Not all [FTP site](#) allow you to rename files and folders; you must have an account on the site as well as renaming privileges.

To rename a file or folder:

- 1 Select the file or folder.
- 2 Click the **Rename** button.
- 3 Enter the new name for the file or folder.
- 4 Click **OK**.

**Note:** Some systems allow you to rename a file over the top of an existing file.

## **Delete**

The **Delete** button allows you to delete a file or folder on the [FTP site](#), if (a) deletions are allowed on the site, and (b) you have an account on the site as well as "delete" privileges.

To delete a file or folder:

- 1 Select the file or folder.
- 2 Click the **Delete** button.

**Refresh**

The **Refresh** button allows you to refresh the folder and file list box to display any recent changes to the current folder.

**DirInfo**

The **DirInfo** button opens a window that displays the files and folders in the current folder, as well as the file sizes, and dates and times last edited.

**Allow Deletion of Non-Empty Folders**

When this option is selected, WS\_FTP Pro deletes all the contents of a folder when you select the folder and then click **Delete**.

**Beta Help for Reviewers**

Yes, this is the correct file for your Beta Help review. Now, get to work!

## 32bit context sensitive topics (for Help Author Reference only)

### 32-bit Program Options (context-sensitive)

[All of them](#)Options\_H2MwindowI  
[General Tab](#)help\_options\_general  
[Advanced Tab](#)help\_option\_advanced  
[Display Tab](#)help\_option\_display  
[Sounds Tab](#)help\_option\_sound  
[Sort Tab](#)help\_options\_sort  
[Pro Tab](#)help\_options\_pro  
[Session Tab](#)help\_options\_session  
[Session \(cont'd\) Tab](#)  
[Convert Tab](#)setting\_ext\_convert  
[Extensions Tab](#)help\_options\_extensions  
[Associations Tab](#)help\_options\_associations

### 32-bit Site Properties (context-sensitive)

[General Tab](#)help\_connect\_general  
[Startup Tab](#)help\_connect\_startup  
[Advanced Tab](#)help\_connect\_advanced  
[Firewall Tab](#)help\_connect\_firewall

## Sorting Files and Folders

You can sort the files and folders in the **Local System** or [Remote System](#) list boxes by using the column headings (**Name**, **Date**, **Size**) above each list or the **Sort** command on the right-mouse menu.

### Using column headings to sort (32-bit version):

Click a column heading to sort the files and folders as follows:

- 1 **Name**. Click the column heading, **Name**, to toggle the alphabetical list between ascending and descending order. Click **Ctrl+Name** to sort the file names by file extension.
- 2 **Date**. Click the column heading, **Date**, to toggle the alphabetical list between ascending and descending order.
- 3 **Size**. Click the column heading, **Size**, to toggle the alphabetical listings between ascending and descending order.
- 4 ^ Click the button to the left of the column heading, **Name**, to toggle the listing of folders from on bottom (after all files), on top (before all files), or mixed with files.

### Sorted list boxes option (16-bit version):

If this option is turned on, the Remote System list is automatically sorted alphabetically. Otherwise the files are presented in the order the [FTP site](#) transmits them.

- 1 Click the **Options** button.
- 2 Click the **Session** tab.
- 3 Select **Sorted list boxes**.

### Using the right-mouse menu to sort (all versions):

- 1 Place the cursor over either list box.
- 2 Select **Sort** from the right-mouse menu. The Sort dialog box appears.
- 3 Select the desired options and click **OK**.

### Transfer Mode Settings

When you view, execute, or edit a file on an [FTP site](#), WS\_FTP Pro (both Classic and Explorer?) transfers the file to the [Windows temporary folder on your local system](#), then opens the file in the associated application. The file is transferred as follows, depending on the transfer mode settings in the WS\_FTP Pro main window.

**Auto mode on.** WS\_FTP Pro checks to see if the file extension is registered (in the [Extensions](#) properties). If the extension is registered, the file is transferred in [ASCII mode](#). If it is not registered or no file extension is found, the file is transferred in [binary mode](#).

**Auto mode off.** Transfers the file in either binary or ASCII mode, depending on which is selected.

- If ASCII mode is selected and the file is clearly not in [ASCII format](#), WS\_FTP Pro prompts for confirmation that you want to transfer the file in ASCII format. This provides a verification step to ensure that you do not transfer a binary file in ASCII format, which could damage the file.

### **What is WS\_FTP Pro?**

WS\_FTP Pro is a Windows-based application for transferring files between your PC (the "Local System") and an [FTP site](#) (the "Remote System"). Using WS\_FTP Pro, you can [connect](#) to another system from your PC, browse files and folders on both systems, and transfer files between the systems. WS\_FTP Pro comes with a number of preconfigured popular FTP sites.

WS\_FTP Pro provides ease of use for the beginner plus a full set of functions for the power user. See [WS\\_FTP Pro features](#) for some of the features available.

WS\_FTP Pro is a File Transfer Protocol ([FTP](#)) client application that complies with the Windows sockets standard ([Winsock](#)).

WS\_FTP Pro can connect to any system that has a valid Internet Address and contains an FTP server program, allowing you to transfer files between a wide variety of systems, including Windows, OS/2, and UNIX systems.

In addition to the *Pro* version, there is also a *Limited Edition*, WS\_FTP LE. The Pro version of WS\_FTP offers additional functionality and additional applications for a low cost.

See [WS\\_FTP Versions](#) for more information. Some of the functions described in this help file are available only in WS\_FTP Pro and are identified as such.

For more information on FTP and FTP sites, please refer to the network newsgroups or one of the recent books on the Internet.

### New in Version 6

- Ability to store sites in folders
- Ability to delete non-empty folders
- Wizard interface for adding new sites
- Graphic interface for connecting to [FTP sites](#)
- Improved firewall support
- Improved host types support

### The following capabilities were new in the previous version:

- Support for custom applications developed using the [WS\\_FTP Pro Development Kit](#).
- You can disable the **Save Password** function in the Session dialog box by entering the line SPFLAGS=1 in one of the following:
  - the [config] section of the *WS\_FTP.INI* file in the WS\_FTP folder
  - the [WS\_FTP] section of the *WIN.INI* file in the Windows folder
- New [Uninstall](#) option for cleanly removing the WS\_FTP Pro application from a system
- Can now [change folders](#) by entering the folder path directly in the text box under "Local System" or "Remote System."
- Can remember the folders you visit during a session and saves the folder paths in a drop-down list you can access quickly.
- The new [Append file](#) command lets you transfer a file or files and have them appended to a selected file on the other system.
- Provides Year 2000 support through Dec 31, 2037.
- The 16-bit version of WS\_FTP Pro now has [sorting capabilities](#) for the list of files and folders.
- The **View**, **Execute**, and **Edit** commands now honor the Extensions settings if Auto transfer mode is enabled. (32-bit version only)
- Support for new firewall types.
- Ability to associate file extensions of more than three characters

### **WS\_FTP Pro Development Kit**

The WS\_FTP Pro Development Kit lets you create programs to work with WS\_FTP Pro for transferring files to or from FTP sites or between FTP sites. For example, you can use the Development Kit to create an application that automates your regular downloads or uploads from an authoring system or a database system. The Development Kit provides the basic functionality to develop custom applications that use the File Transfer Protocol (FTP) and frees the developer from the intricacies of network programming.

The WS\_FTP Pro Development Kit lets you use your choice of languages including C++, C, and Visual Basic. Developers can create stand-alone FTP applications or add network file transfer functionality to existing applications. Users can have specialized interfaces to FTP services that are simple to understand and use.

#### **The WS\_FTP Pro Development Kit provides:**

- Support of passive and normal file transfers
- Automatic detection of WS\_FTP Pro host type
- Asynchronous and threaded versions of standard routines
- Ability to use any FTP command
- Programmer's guide with sample code

Some suggested applications:

- Posting frequent updates to Internet or intranet servers
- Automatic download of documents or programs
- Regular updates of distributed databases
- Automated mirroring of multiple FTP sites

For more information about the WS\_FTP Pro Development Kit, see the Ipswitch web site at: <http://www.ipswitch.com>.

## WS\_FTP Versions

The WS\_FTP "classic" user interface is available as both WS\_FTP Pro and WS\_FTP Limited Edition (LE). WS\_FTP LE is a shareware version of WS\_FTP that is made available free to non-commercial users. Read the WS\_FTP LE license for information about free use of the LE version.

**Note:** This help file documents the WS\_FTP Pro version, so if you are using the LE version, you will not have some of the features documented.

**WS\_FTP Pro** offers the following features not found in the LE version:

- You can choose between the "Classic" interface, which is similar to the WS\_FTP LE interface, and the "Explorer" interface, which integrates with Windows Explorer.
- Technical support is available for WS\_FTP Pro.
- You can use folders to manage your FTP sites.
- You can do remote-to-remote transfers.
- Includes WS\_FTP Pro Utilities to manage files and automate transfers:
  - WS\_FTP Find Utility – lets users search an FTP site for files that match the user's criteria.
  - WS\_FTP Scripting Utility - automates the transfer and management of files by letting you create scripts that use basic FTP commands.
  - WS\_FTP Synchronize Utility - allows you to "mirror" folders and directories between your PC and a remote FTP server.
- You can perform multiple file transfers using WS\_FTP Pro commands from a DOS prompt.
- You can use the [WS\\_FTP Pro Development Kit](#) (available separately) to write custom file transfer applications to automate regular uploads or downloads. See the Ipswitch web site at <http://www.ipswitch.com> for more information.

## Executable Files

The WS\_FTP Pro executable files are FTP95PRO.exe (for 32-bit operating systems of Windows 95, Windows NT, and Alpha processors) and FTPPRO.exe (designed for 16-bit environments but will work in *any* environment).

The WS\_FTP LE works in both 16-bit and 32-bit environments. The executable names of the *Limited Edition* configurations are WS\_FTP.exe for 16-bit environments, and WS\_FTP95.exe for 32-bit environments.

## Related Topics

[WS\\_FTP Features](#)

## **WS\_FTP Features**

You can use any version of WS\_FTP (including the Limited Edition) to:

- Create a connection between your local system and an FTP site
- Create and retain sites to automate the logon and connection to frequently used FTP sites
- Display and browse files and folders on both the local system and the FTP site
- Transfer one or more files between the local system and an FTP site (in either direction) using Windows point-and-click capabilities
- Access the vast store of information on [anonymous FTP](#) sites
- Resume interrupted file transfers.
- Preserve file date/time on transfer (Windows 95 and NT).
- Prevent overwrite of newer files (Windows 95 and NT).

**In addition to the above features, the 32-bit version also lets you:**

- Drag-and-drop between a local system and an FTP site.
- Perform multiple file transfers using WS\_FTP Pro commands from a DOS prompt.
- Use the [WS\\_FTP Pro Development Kit](#) (available separately) to write custom file transfer applications to automate regular uploads or downloads. See the Ipswitch web site at <http://www.ipswitch.com> for more information.

### Using a Firewall

If you are behind a [firewall](#), select **Use Firewall** and enter the firewall information. To enter firewall information, you'll need to get information about your firewall from your network administrator; depending on the type of firewall, you'll need the following information.

- For a "SITE hostname" firewall type, you'll need Host Name (or Address) and User Name (ID).
- For a "Transparent" firewall type, you'll need User Name (ID) and Password.
- For "USER with no logon" or "Proxy OPEN" firewall types, you'll need the Host Name (or Address). (The User Name and Password are ignored.)
- For "USER after logon," "USER remotelD@remoteHost fireID," "USER fireID@remoteHost," or "USER remotelD@fireID@remoteHost" firewall types, you'll need Host Name (or Address), User Name (ID), and Password.

**Host Name.** Specify the name or IP address of the firewall.

**User ID.** Enter the firewall User ID or leave blank if not used.

**Password.** Enter the firewall password for the specified User ID or leave blank if not used.

**Save Password.** Select this box ***only if you are the only user of your computer*** and no one else has access to your Windows folder. Passwords are stored in the WS\_FTP.INI file and even though they are encrypted, it is an easy encryption to break.

**Port.** Specify the firewall port.

**Firewall type.** Select the firewall type from the drop-down list.

### Passive Mode

For some router-based firewalls, you will want to use [passive mode](#), in which the "data" connections are established by the client rather than by the FTP site. The passive mode of operation can be turned on from the Options screen.

## Transferring Files or Folders

To transfer files or folders:

- 1 [Select the files or folders](#) on the source system.
- 2 Open the folder to which you want to transfer files on the destination system.
- 3 Select the [file transfer mode](#).
- 4 Transfer the files using the left and right arrow buttons located between the list boxes.

Click the **left arrow** button to transfer files from the remote to the local system.

Click the **right arrow** button to transfer files from the local system to the FTP site.

File [uploads](#) and [downloads](#) do timeout. You can **Cancel** the operation in the event that you lose the connection to the FTP site.

During the transfer of files, the **Help** button changes to **Cancel** if the [Show transfer dialog](#) option is not selected. If this option *is* selected, a Transfer Status dialog box appears. The current transfer can be cancelled by clicking the **Cancel** 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. You may have to click **Cancel** a second time!

- **Note:** You can hold the Ctrl key down when you click the transfer arrow to be prompted for a destination filename. You can also click a transfer arrow when no file is selected and you will be prompted for the source file name. This can then be a full pathname or a simple name.

### See also:

[Transferring multiple files](#)

[Appending Files](#)

[Transfer mode](#)

[Resuming a File Transfer After Failure](#)

[Double-clicking in list boxes](#)

[Changing Directories](#)

[HINTS](#)

[Auto Transfer of Files](#)

### Resuming File Transfer (Auto reget)

Most, but not all, FTP sites allow the "auto reget" option. It works like this: when a file transfer is interrupted while in progress because of a lost connection or because it was cancelled, WS\_FTP Pro can resume the transfer when you reconnect to the FTP site. When you reconnect, WS\_FTP Pro asks if you want to resume the transfer.

Do one of the following:

- Click **Yes** to resume the transfer.
- Click **No** to cancel the transfer.
- **Note:** If you choose *not* to resume the transfer, you will be left with a partial file (from the interrupted transfer) in the destination folder. You should delete this file.

The resume transfer feature is enabled by default. You can disable this feature by toggling off the check box for the [Enable auto reget of failed transfers](#) option in the Pro options.

**Hints**

- If you have problems transferring files, try changing the MTU of your stack to 576.
- Make sure you use binary mode to transfer *.zip* or *.exe* files.
- Make sure your modem is set to hardware flow control if you are using a SLIP or PPP connection.
- If you get a "Can't open file for write" message from Windows, exit to DOS, enter SET and make the folders specified by your TMP and TEMP environment variables.
- Hold the Ctrl key down when you click a transfer arrow to be prompted for a destination file name.
- For additional functions, use the right-mouse menu anywhere in the main window.

**See also:**

[Changing the Default Folder on the Local System](#)

[Overcoming Name Conversion Problems](#)

[Changing Folders](#)

[Execute](#)

[Double-click](#)

[Transfer Mode](#)

[Saving a "Viewed" File](#)

[Drag and Drop](#)

[No directory listing](#)

[Access to Debug Commands](#)

### Changing the Default Folder (Directory)

To set the default folder on your PC to be something other than where WS\_FTP Pro is located:

- Highlight the WS\_FTP Pro icon and press Alt-Enter (or select Properties) in Windows.
- Change the **Start in** folder to the desired folders.

In the 32-bit version, you can also save the current folders (when connected) to be the default folders when you next connect to the FTP site (see [Session Options](#)).

### **Overcoming Name Conversion Problems**

If you have problems with remote to local file name conversions, select the [Prompt for destination file names](#) option on the **Session (cont'd)** tab of Program Options. You will then be shown the proposed file name and allowed to change it. Alternatively, you can hold the Ctrl key down when you initiate the transfer and you will be prompted for each destination filename.

## Changing Folders

To change folders, click on the desired folder and click the **ChgDir** button.

If you want to change to a folder without scrolling and moving up and down the folder structure, make sure there is no name selected in the list box and click the **ChgDir** button (works with **RmDir** button also). When changing drives on an FTP site, you usually have to enter a folder name in addition to the drive letter.

You can also double-click a folder name to change to that folder.

To change folders in the 32-bit version, edit the folder path in the current folder box, or use the **ChgDir** button. Also, if you enable the [Remember directories](#) option, the drop-down list for both the **Local System** and **Remote System** current folders will show the folders you visited during the last session.

See also [Changing the Default Local Directory](#)

### **Double-clicking**

You can double-click a **folder name** to make that folder current.

You can double-click a **file name** to transfer that file (or to execute the file), depending on the how you set up the double-click options. You can choose to have the double-click action for files activate one of the following:

[Transfer file](#)

[View file](#)

[Nothing](#)

**File Transfer Modes**

Use [binary](#) mode to transfer all files unless you know the file contains only text, then use [ASCII](#).

If you know that the FTP site you are transferring to or from is the same host type as your PC, you can always use Binary mode and never use ASCII.

**Transfer Modes:**

[ASCII](#)

[BINARY](#)

[L8](#)

[Auto Detect](#)

**Saving a "viewed" file**

If you use **View** to display a remote file and then want to save that file and have the [viewer](#) set to Notepad, you can select the **Save As...** 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 file names. (These are the standard Windows methods of selecting files.)

To select two or more items in sequence:

- 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,

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

To select two or more non-contiguous files:

- Press and hold down Ctrl while you click each file icon.

To de-select a selected file icon:

- Press and hold down Ctrl while you click the selected file icon.

After selecting the desired files, click the left arrow or right arrow button.

**Drag and Drop Feature in WS\_FTP Pro (not in LE)**

You can drag and drop one or more files from the source system to the destination system within the main window. You can also drag-and-drop between WS\_FTP Pro and the desktop, or between WS\_FTP Pro and other applications. Note that the ability to use the enhanced dragging and dropping in the Pro version is controlled by an option on the **Pro** tab of the Program Options.

**Notes on 16-bit version**

In the 16-bit version, you can *move* files by dragging a file or group of files to a folder on the same system. However, you cannot drag and drop folders in the 16-bit version of WS\_FTP Pro, nor can you drag and drop from the FTP site to another application.

### Folder Display Problems

If you can [connect](#) to an FTP site but don't get a folder listing, try changing the host type in the Session Properties or on the **Session** tab of Program Options. "Automatic detect" takes care of about 90% of all FTP sites; however, some sites may not be properly auto-detected and must be set at connect time.

If you are dealing with an FTP site that won't display correctly, use the following procedure.

If the FTP site is available via anonymous FTP or if you can create a test account for us, send access information to <junodj@ipswitch.com>

If the FTP site is not available via anonymous FTP,

- 1 Go to General Options (Program Options in the 16-bit version) and select **Debug Messages**.
- 2 Exit WS\_FTP Pro and restart.
- 3 Connect to the FTP site.
- 4 Press the **LogWnd** button and save the log window to a file.
- 5 Press the **DirInfo** button and save the file listing to a file.
- 6 Mail both files to <junodj@ipswitch.com> along with as much of a description of the FTP site as possible.

## Program Options

In the WS\_FTP Pro window, click the **Options** button. The properties dialog box appears with the following tabs.

[General tab](#). Settings for basic operations of WS\_FTP Pro.

[Advanced tab](#). Settings for advanced operations of WS\_FTP Pro.

[Display tab](#). Settings for the layout of the main window.

[Sounds tab](#). Settings for sounds that notify you of FTP events.

[Sort tab](#). Settings for sorting the folder and file names in the list boxes.

[Pro tab](#). Settings for Pro only features.

[Session tab](#). Settings for how you're currently transferring, or how you always transfer.

[Convert tab](#). Lets you convert file extensions on transfer.

[Extensions Tab](#). Lets you specify extensions to be transferred in ASCII format when using Auto Mode file transfer.

[Associations Tab](#). Lets you associate file extensions with an executable program.

**Program Options, General Tab**

[E-Mail Address](#)

[Text Viewer](#)

[Log Filename](#)

[Enable Log](#)

[Verify Deletions](#)

[Debug Messages](#)

[Remote Edit uses ShellExecute](#)

[Reset Window Locations](#)

[Save Window Locations](#)

**Program Options, Advanced Tab**

[Show Full Directory Information](#)

[Auto Save Host Configurations](#)

[Show Connect Dialog on Startup](#)

[Double-click Action](#)

[Network Buffer Receive Size](#)

[Network Buffer Transmission Size](#)

[Transfer Rate Display](#)

**Program Options, Display Tab**

Options available in this dialog affect the display of WS\_FTP Pro.

[Alternate Screen Layout](#)

[Show Buttons at Top of Screen](#)

[Hide Directory Buttons](#)

[Auto Scale Fonts](#)

[Date Format](#)

[List Box Font](#)

**Program Options, Sounds Tab**

**Connection Success.** If selected, the specified wave file (or beep) is sounded when a connection is made to an FTP site.

**Connection Failure.** If selected, the specified wave file (or beep) is sounded when a connection fails.

**Transfer Complete Success.** If selected, the specified wave file (or beep) is sounded when a transfer succeeds.

**Transfer Complete Failure.** If selected, the specified wave file (or beep) is sounded when a transfer fails.

**Other Failures.** If selected, the specified wave file (or beep) is sounded when any error occurs during the retrieval of folders, renaming or deleting files or folders, or during other FTP errors. To have the same sounds as earlier versions of WS\_FTP Pro, make sure this box is cleared.

**Sounds**

*None* - no sounds

*Beeps* - use system sounds

*Wave* - play the specified WAV files

### Program Options, Session Tab

The settings on the Session and Session (cont'd) tabs of the Program Options can be applied in two different ways. They can be:

- Set for the current site *and* until you **Exit** the program

or,

- *Always* in effect.

If you want the settings to apply to the current site *and* until you **Exit** the program, set the desired options and click **Apply** or **OK**.

(Do not click **Set as default**.)

If you want the settings to remain in effect when you re-start WS\_FTP Pro, set the desired options and click **Set as default**.

[Host Type](#)

[Update Directories After Transfer](#)

[Show Transfer Progress Dialog](#)

[Use Passive Transfer Mode](#)

[Use Firewall](#)

[Force Lowercase Remote Names](#)

[Convert Extensions](#)

[Remember Directories](#)

[Save Current Directories as Connection Directories](#)

[Set as Default](#)

For more session settings see [Session \(continued\)](#).

### **Program Options, Session (cont'd) Tab**

The settings on the Session and Session (cont'd) tabs of the Program Options can be applied in two different ways. They can be:

- Set for the current site *and* until you **Exit** the program

or,

- *Always* in effect.

If you want the settings to apply to the current site *and* until you **Exit** the program, set the desired options and click **Apply** or **OK**. (Do not click **Set as default**.)

If you want the settings to remain in effect when you re-start WS\_FTP Pro, set the desired options and click **Set as default**.

### **File Names**

[Send Unique](#) (host assigns name)

[Receive Unique](#) (PC assigns name)

[Prompt for Destination File Names](#)

### **Startup Transfer Mode**

The **Startup Transfer Mode** is the default transfer mode when you transfer a file. You can change this for individual transfers.

[ASCII](#)

[BINARY](#)

[L8](#)

[Auto Detect](#)

[Set as Default](#)

**Program Options, Pro Tab**

Use the **Pro** tab to enable or disable certain features of WS\_FTP Pro.

[Enable drag and drop between windows](#)

[Enable auto reget of failed transfers](#)

[Preserve file time on transfer from remote](#)

[Prompt for overwrite of same or newer files](#)

[Don't transfer older or same files during directory transfer](#)

[Allow deletion of non-empty folders](#)

### **Sorting List Boxes**

You can sort the files and folders in the **Local System** or [Remote System](#) list boxes from here. Simply select the desired sort order from the list.

#### **See also:**

[Sorting Directories and Files.](#)

### Converting File Extensions

The list box on the **Convert** tab shows all defined extension conversions. Use this tab to have WS\_FTP Pro automatically convert the extensions of transferred files. For example, if the FTP site uses *.html* for HTML files and your system uses *.htm*, you can specify that all files with the extension *.html* are converted to *.htm* when they are transferred.

**Note:** Select [Convert Extensions](#) in the **Session** tab.

To add an extension conversion:

- 1 In the **Source** text box, enter the file extension of the source file.
- 2 In the **Destination** text box, enter the file extension to convert to (destination file).
- 3 Click the **Add** button. The extension conversion appears in the list box.

#### **To delete an extension conversion:**

- Select it in the list box and click the **Delete** button.

### Setting Auto Detect Extensions

When [Auto Detect](#) is selected as the transfer mode, WS\_FTP Pro transfers all files in binary mode, unless the extension is listed here -- in which case the file is transferred in [ASCII \(text\) mode](#).

To add a file extension to the Auto Detect list:

- 1 In the text box, enter a file extension. (The extension can be up to ten characters long and can contain periods.)
- 2 Click the **Add** button. The extension appears in the list box.

To delete a file extension from the list box:

- Select the extension and click the **Delete** button.

## Setting Associations

The **Associations** tab is used to associate files of a particular extension with an executable file (application) that can run that type of file. When you choose the [Exec](#) button, the file is opened in the associated application.

To set up an association:

- 1 Click the **Options** button, and click the **Associations** tab (if it's not already visible).
  - 2 In the **Files with Extension** text box, enter the file extension to be associated with an executable program.
  - 3 In the **Associate With** text box, enter the executable program to run when the **Exec** button is clicked. You can use the **Browse** button to browse your files and folders to locate the executable program.
- **Note:** The 32-bit version of WS\_FTP Pro calls *ShellExecute* to execute the file through the shell. If this fails, WS\_FTP Pro uses the associations specified in this dialog. These associations are unique to WS\_FTP Pro in this environment.

**Author Information**

Copyright 1992-1998, Ipswitch, Inc.

Written by John Junod, Joe O'Connor, Mary Jane Soule.

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There have been a lot of people that have contributed ideas and information to support WS\_FTP Pro. It is no longer possible to keep up with this list of people. Sorry!

Some code concepts are based on code that is copyrighted by the Regents of the University of California or code published in *UNIX Network Programming* by W. Richard Stevens or published in *Programming Windows* by Charles Petzold or in the Microsoft manuals/samples or code in WATTCP or other public sources. The rest is based on my knowledge of Windows programming and my interpretation of RFC 969 and the Windows Sockets API version 1.1.

- John Junod

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**Latest Version**

The latest version of the Limited Edition can be found through the Web on <http://www.ipswitch.com> or at the "home" FTP site **FTP1.IPSWITCH.COM**.

The **WS\_FTP Pro** web home pages are at <http://www.ipswitch.com>.

### Installing WS\_FTP Pro

The installation procedure is the same for new users as it is for upgraders.

To install WS\_FTP Pro,

- 1 Insert the WS\_FTP Pro disk into a floppy disk drive.
  - 2 If you are running Windows 95 or NT 4.0 or later, click the **Start** button and select **Run**. If you are running Windows 3.x or NT 3.51, select **Run** from the File menu.
  - 3 Enter the drive letter followed by install.exe. For example, a:install.exe.
  - 4 When asked, choose **WS\_FTP Pro Installation**.
  - 5 Follow the instructions on your screen.
- **Note:** If you are upgrading from a previous version of WS\_FTP Pro, do not replace the WS\_FTP.ini file, as this file contains all your sites.

## Troubleshooting

This section lists some of the common FTP connection and file transfer problems. For more solutions to common questions, see the Support area of our Web site. Go to <http://www.ipswitch.com> and click the **Support** link.

### Problems Connecting to an FTP Site

**Problem:** I cannot connect to an FTP site.

**Solution:** Make sure you have an active dial-up or direct Internet connection. WS\_FTP Pro is not a dialer. It calls the Winsock DLL and uses the dialer or direct connection specified there.

**Problem:** I installed the 32-bit or Windows 95 version of WS\_FTP Pro on Windows 95, then started WS\_FTP Pro but cannot connect to another system.

**Solution:** Check to see if you are running the Windows 95 TCP/IP stack. If not, install the 16-bit version of WS\_FTP Pro, start WS\_FTP Pro and try to make the connection. (If this works, you are running a 16-bit TCP/IP stack.)

**Problem:** I cannot log on to the FTP site.

**Solution:** Check your folder and file access privileges on the FTP site. These permissions are set by the site administrator and cannot be changed by WS\_FTP Pro.

**Problem:** My connection closes after n minutes of inactivity.

**Solution:** The FTP site determines the connection timeout. Most FTP sites will close the connection after a few minutes of inactivity. You can change this setting only on the FTP site, not from WS\_FTP Pro.

**Problem:** WS\_FTP Pro doesn't work with my AOL connection.

**Solution:** AOL uses a 16-bit TCP/IP stack and will not work with 32-bit TCP/IP applications. For more information on AOL's Winsock support, see the FTP section in your AOL application. You will need to run the 16-bit version of WS\_FTP (FTP.PRO.EXE).

**Problem:** WS\_FTP Pro can connect to an Ipswitch site and nothing else.

**Solution:** Configure the DNS (Domain Name Server) in your stack. Talk with your network administrator or your internet provider for the proper values for DNS.

### Problems Viewing Files and folders

**Problem:** I can connect to an FTP site, but the folder and file display is blank or unreadable.

**Solution:** Change the host type. Try looking in the message log to see if the host type of the FTP site is identified. If you can't figure out the host type, you can try common types such as "UNIX (standard)," "Sun Solaris," or "Win QVT/Net." If those don't work, try "Auto-detect." If you are still having problems, see [Directory Display Problems](#).

**Problem:** I cannot open a folder on the FTP site or transfer a file.

**Solution:** Check that you have a valid login name and password. If you do not, try selecting the **Anonymous** check box in the Site Properties; or, contact the system administrator of the FTP site to which you are trying to connect.

**Problem:** When I connect to an FTP site, the list box for the FTP site is blank. In the status window the last thing I see is "DoDirList returned 4."

**Solution:** Contact your Internet provider to get the proper setting for the Maximum Transfer Unit (MTU) of your network stack. (You can try 552 or 576 as they seem to be common proper values.)

### Problems Transferring Files

**Problem:** The files I transferred are corrupted.

**Solution:** You may have transferred a binary file in ASCII [transfer mode](#); this can damage the file. Make sure you transfer text files in ASCII mode and most other files in BINARY mode. If you still have problems, verify that you have hardware flow control enabled on your modem. If you are not using the Microsoft TCP/IP stack (part of the Windows 95 or NT operating system), contact your stack vendor.

**Problem:** I keep getting "failed data channel" errors.

**Solution:** Try [passive transfers](#).

**Problem:** How can I transfer a hidden file or a file with a filename containing special characters?

**Solution:** Make sure nothing is selected, and then click the transfer arrow; you will be prompted for the filename.

**Problem:** WS\_FTP Pro does not always return a complete file and leaves off from 50 to 512 bytes.

**Solution:** Some network stacks do not properly handle data packets that have the FIN flag set. If you're not using the Microsoft TCP/IP stack (part of the Windows 95 and NT operating systems), contact your network stack provider for an updated version of the network stack.

**Problem:** WS\_FTP Pro only returns NNNNN bytes of a file and can never retrieve the whole file.

**Solution:** Set the Maximum Transfer Unit (MTU) in your program stack to 576.

**Problem:** I am running Windows 3.x, and I find that uploading any file over 25K often takes more than 30 minutes, after which I am timed out and disconnected.

**Solution:** You can solve the slow transfer problem by adding the following to your SYSTEM.INI file (for WIN3.x):

```
[VNTSPSD]
MaxFramesSize=1000
```

**Problem:** I receive one or more "Blocking call cancelled" messages and the file transfer is incomplete.

**Solution:** If you are using the Microsoft TCP/IP stack (part of the Windows 95 and NT operating systems), try setting the Maximum Transfer Unit (MTU) to 576.

#### **Problems with Program Settings**

**Problem:** WS\_FTP Pro won't save the internal window sizes when I click the **Save Window Locations** button.

**Solution:** Un-maximize the main window and resize it as you like. Then, click **Save Window Locations**. (WS\_FTP Pro does not save window locations when the window is maximized.)

#### **Problems Renaming and Deleting Files**

**Problem:** I can't rename a file on an FTP site.

**Solution:** You may not have renaming privileges on the site.

**Problem:** I can't rename a file on an FTP site, even though I have renaming privileges.

**Solution:** You may be trying to use a long name on an FTP site that doesn't allow long names. Try a name of eight characters or less.

**Problem:** I can't delete a file from an FTP site.

**Solution:** You may not have deletion privileges on the FTP site.

### Downloading Software Patches and New Versions

On occasion, Ipswitch provides a software patch to fix a bug in the currently shipping version of WS\_FTP Pro. You can check our download FTP folder or our download folder on our web site for current software patches.

To access download software on the Ipswitch FTP site:

- 1 In the WS\_FTP Pro window, click the **Connect** button. The Session Properties dialog box appears.
- 2 In the Session Properties dialog box, select **Ipswitch** from the **Profile Name** drop-down list, and then click **OK**.  
WS\_FTP Pro connects to the download folder.
- 3 Select the patch file for your platform type: Intel = x86; DEC Alpha = AXP. The last three digits of the filename indicate the version number. For example, x86\_404.exe is the patch file for the Intel platform. 404 indicates version 4.04.
- 4 Transfer the patch file and place it in your WS\_FTP Pro folder. Run the patch file to update the software.

To access download software on the Ipswitch web site:

- 1 In your web browser, go to: <http://www.ipswitch.com>
- 2 Click the **Downloads** link.
- 3 Click **Patches and Upgrades**, and then click the link for your platform type: Intel or DEC Alpha.
- 4 Save the patch file in your WS\_FTP Pro folder.
- 5 Run the patch file to update the software.

## **Working with Files and Folders**

After connecting to an FTP site, you can use the file and folder commands to browse files and folders.

Just to the right of each list box (one under **Local System** and one under [Remote System](#)) is a column of buttons you can use to perform file and folder operations. See [WS FTP Pro window](#) for more information.

You can also access these commands by placing the cursor over the appropriate list box and using the right mouse menu.

### **File functions:**

[Transferring Files](#)

[Moving Files](#)

[Finding Files and Folders](#)

[Viewing Files](#)

[Executing Files](#)

[Editing Files](#)

[Renaming Files](#)

[Deleting Files](#)

[Changing Permissions on a UNIX file](#)

[Associations Options](#)

[Converting File Extensions](#)

### **Folder functions:**

[Changing the Drive](#)

[Changing Folders](#)

[Creating and Removing Folders](#)

[Refreshing the Display](#)

[Displaying File and Folder Information](#)

[Sorting Files and Folders](#)

### **See also:**

[Selecting Files and Folders](#)

### **Selecting Files and Folders**

To select a file or folder in the current folder, select the file or folder name in the **Local System** or [Remote System](#) list.

To select multiple files or folders:

- If the files or folder are contiguous in the list, click the first one you want to select, and then Shift-click the last one.
- If the files or folders are not contiguous, click the first one you want to select, and then Ctrl-click any others you want to select.

To de-select all files and folders, click the **Refresh** button.

### Changing the Drive

The folders shown at the top of the main window under **Local System** and [Remote System](#) also indicate the disk drive on which the folder is located. To change the disk drive:

- Scroll down the list box and double-click the appropriate drive. In Windows 95, disk drives are indicated by a drive letter (for example, a:, c:, d:) and a disk icon.  
or,
- With nothing selected in the list box, click the **ChgDir** button. When you are prompted for a folder to change to, enter the drive letter followed by a semicolon (for example, d:), and then click the **OK** button.

**Note:** Do not enter a trailing slash (\).

### Creating and Removing Folders

Not all FTP sites allow you to create and remove folders; you must have an account on the FTP site and write access privileges. For those that do, use the following procedures.

#### Creating Folders

- To create a folder, click the **MkDir** button. You are prompted for a folder name and must supply a name that is valid for the current system.

#### Removing Folders

In the 32-bit version:

- Select the folder and click the **Delete** button. Or, click the **Delete** button with nothing selected and enter a folder name when prompted.

**Note:** If the folder is not empty, you will not be able to delete it unless you have selected [Allow deletion of non-empty folders](#) on the **Pro** tab of Program Options.

In the 16-bit version:

- Select the folder and click the **Rmdir** button. Or, click the **Rmdir** button with nothing selected and enter a folder name when prompted.

**Refreshing the Display**

To refresh the current display for either the **Local System** or [Remote System](#), click the **Refresh** button. The list displays any recent changes to the current folder.

You can also use the **Refresh** button to de-select any selected files or folders.

### **Displaying File and Folder Information**

To display file and folder information,

- Click the **DirInfo** button.

The Windows Notepad appears and lists the files and folders in the current folder with the size, creation date and time, and protections.

You can:

- Save the folder listing
- Print the folder listing
- Specify a different editor (The Windows Notepad is the default) by using the [Text Viewer](#) option in the **General** properties of the Program Options.

### Finding Files and Folders

If either the local system or the FTP site contains a large number of folders and files, you can limit the items displayed by using the **File Mask** text box, located below the **MkDir** button in the WS\_FTP Pro window. There are two **File Mask** boxes: one for the local system (your PC) and one for the remote system ([FTP site](#)).

In the **File Mask** text box, enter a file mask and then press Enter. For example, to display only files with the extension `.txt`, enter `*.txt` in the **File Mask** text box and press Enter. The corresponding list box is refreshed to display only the files with the extension `.txt`.

If you are connected to a UNIX FTP site, you can use:

- `-al` or `-la` in the **File Mask** text box to view hidden (`.`) files
- `-altr` to view file names in date sequence (in the 16-bit versions of WS\_FTP Pro only)

*For users familiar with command line FTP clients:* You can use any argument string that is valid with a "Dir" command in a command line FTP client.

### Viewing Text Files

Select the file and click the **View** button. The file is opened in the viewer you have specified in the [Text Viewer](#) option on the **General** tab of the Program Options. The default text viewer is the Windows Notepad.

Select **Ctrl+View** to display a prompt where you can enter the executable file name for another viewer program.

If you select the **View** button for the [Remote System](#) list box, the file is downloaded to the Windows temporary folder (defined with the DOS TMP environment variable). If it is a large file, it may take some time to transfer the file from the FTP site.

- **Note:** Do not try to view a binary file.

### Executing Files

Select the file and then click the **Exec** button. WS\_FTP Pro executes the file according to its file extension. You can associate any file extensions with an application (executable program) in the [Associations properties](#). For example, you can specify that any files with the extension *.pdf* are opened by the Adobe Acrobat (tm) Reader.

Press **Ctrl-Exec** to display a prompt where you can enter the executable file name for the application.

If you select the **Exec** button for the [Remote System](#) list box, the file is downloaded to the Windows temporary folder (defined with the DOS TMP environment variable). If an association does not exist, you can provide that association at execution time. This association is saved in the *win.ini* file in the Extensions section and is also valid for Windows. Files are automatically downloaded in binary mode.

## Editing Files

You can edit a file on an FTP site if you have an account on the site as well as write access privileges to the file and its folder. If you associate a file extension with an editor program (see the [Associations options](#)), you can open a remote file and edit it. Right-click the file and select **Edit** from the pop-up menu.

The [Remote Edit uses ShellExecute](#) option in the **General** tab of the Program Options (32-bit version) lets you open the remote file without transferring it to your PC.

## Renaming Files

Not all FTP sites allow you to rename files and folders remotely. You can rename files only if you have an account on the FTP site and renaming access privileges.

To rename a file:

- 1 Select one or more files
- 2 Click the **Rename** button. You are prompted for the new name.
- 3 Enter the new name for the item and click **OK**.

If you selected multiple files, you are prompted to rename the next file.

You can also use [Prompt for Destination File Names](#) on the **Session** tab of the Program Options to get a prompt that allows you to rename a file as you transfer it.

### **Deleting Files and Folders**

Not all FTP sites allow you to delete files and folders. You can delete only if the site administrator has given "delete" privileges to the account you logged on with. To delete a file or folder, select it and then click the **Delete** button.

- **Note:** You will not be able to delete non-empty folders unless you have selected **Allow deletion of non-empty folders** on the Pro tab of Program Options.

### **Changing the Permissions for UNIX Files**

You can change modes for a UNIX file on an FTP site, provided you have file-access permission.

- 1 Right-click the file and select **chmod** from the pop-up menu.
- 2 Select any of the options and click the **OK** button.

## **Uninstalling**

To uninstall WS\_FTP Pro,

- 1 Insert the WS\_FTP Pro disk into a floppy disk drive.
- 2 If you are running Windows 95 or NT 4.0 or later, click the **Start** button and select **Run**. If you are running Windows 3.x or NT 3.51, select **Run** from the File menu.
- 3 Enter the drive letter followed by install.exe. For example, a:install.exe.
- 4 When asked, choose **Uninstall WS\_FTP Pro**.
- 5 Follow the instructions on your screen.

### **Organizing Sites in Folders**

You can organize your configured sites in folders. For example, you might have one folder for FTP sites that offer free games, and another folder for FTP sites from which you download software updates.

To create a folder for sites,

- 1 Click **Connect** to view the WS\_FTP Sites dialog box (if you're not already there).
- 2 Click **New**.
- 3 Click **Folder**.
- 4 Enter a name for the folder and click **Finish**. The new folder appears in the list of **Configured Sites**.

To place sites in the folder,

- 1 Click **Connect** to view the WS\_FTP Sites dialog box (if you're not already there).
- 2 Drag sites and folders around in the dialog box using standard Windows techniques.

**Overview: Connecting to FTP Sites**

Before you transfer files to or from an [FTP site](#), you must first [connect](#) to the site.

To connect to an FTP site, click the **Connect** button (unless the **WS\_FTP Sites** dialog box is already displayed). The **WS\_FTP Sites** dialog appears.

If you already have configured the FTP site to which you want to connect, you connect to it by double-clicking the site name.

If you *don't* have an FTP site already configured and expect to go to that site repeatedly, click **New**.

If you *don't* have an FTP site already configured, but want to connect to the site just this once, click **Quick Connect**.

**See also:**

[Organizing Sites in Folders](#)

### **Quick Connect**

**Quick Connect** provides a means for you to [connect](#) to an FTP site without configuring site properties for it; for example, you might use **Quick Connect** to connect to a site that you want to visit just once.

[Host Name/IP Address](#)

[Host Type](#)

[Anonymous \(Login\)](#)

[User ID](#)

[Password](#)

## WS\_FTP Sites

You can configure FTP sites that you expect to visit more than once; [the FTP sites you have configured](#) are listed in this dialog box, along with some pre-configured sites that come with WS\_FTP Pro.

To [connect](#) to an FTP site,

- 1 Locate the desired site in the list.
- 2 Double-click it (or select it and click **OK**).

You can also use the buttons on the right side of the dialog box:

**Quick Connect.** Lets you connect to an FTP site you don't want to configure for future connections.

**New.** Lets you create a new FTP site or a new folder in which to group sites.

**Delete.** Deletes the selected site.

**Rename.** Allows you to rename the selected site.

**Properties.** Lets you edit the site properties.

**Cancel.** Closes the dialog box.

**See also:**

[Organizing FTP Sites in Folders](#)

**Passwords and ini file**

The **Save Password** check box can be removed from the options by entering the line SPFLAGS=1 in one of the following:

- the [config] section of the *WS\_FTP.INI* file in the WS\_FTP folder
- the [WS\_FTP] section of the *WIN.INI* file in the Windows folder

### Host Type Problems

If you can [connect](#) to a FTP site but don't get a folder listing, try changing the host type.

- **Note:** Check the messages log (click the **LogWnd** button) to see if the Host Type is identified there. Then, select the corresponding host type from the drop-down list.

## **Monitoring what's going on**

You can:

[Monitor the progress of a transfer](#)

[Get an alert when you're about to overwrite a file](#)

[Get a confirmation before you delete a file](#)

### **Monitoring the progress of a transfer**

- 1 To monitor the progress of transfers to or from a particular site, click **Options**.
- 2 Click the **Session** tab.
- 3 To display a status indicator showing the progress of a transfer, select **Show Transfer Progress Dialog**.
- 4 TBD: How to apply setting to just the current site or to all sites, or only until you quit, etc.

Displaying a notice when a transfer is complete (I think this option is gone; feature on by default?)

**Getting an alert before you overwrite a file (TBD: update for Classic)**

- 1 To get an alert when you are about to [overwrite](#) a file during a transfer to or from a particular site, click **Options**.
- 2 Click the **Pro** tab.
- 3 Select **Prompt for overwrite of same or newer files**.
- 4 TBD: How to apply setting to just the current site or to all sites, or only until you quit, etc.

**Getting a confirmation before you delete a file**

- 1 To get a confirmation before you delete a file, click **Options**.
- 2 Click the **General** tab.
- 3 Select **Verify deletions**.
- 4 TBD: How to apply setting to just the current site or to all sites, or only until you quit, etc.

## Overview of the WS\_FTP Pro Command Line

You can use the command line from the MS-DOS prompt to run the WS\_FTP Pro classic interface under Windows 95, Windows 98, or Windows NT. (If you are a Windows 3.1 user, click [here](#).)

When you use the command line, you are actually running a *subset* of the functionality of the WS\_FTP Pro classic interface. Using the command line, you can:

- Upload and download files
- Specify ASCII or binary transfer mode
- Convert filenames to lowercase when uploading
- Set up pre-scheduled (“automated”) transfers

However, the command line doesn’t provide the means to rename files on an FTP site, delete files from an FTP site, or create folders on an FTP site. Nor can you preserve time stamps or convert file extensions when transferring files.

- **Note:** In order to be able to use the command line from any location on your hard disk, we recommend that you place the WS\_FTP Pro folder in the Path statement in your *Autoexec.bat* file – if you are running Windows 95 or Windows 98. If you’re using Windows NT, add the WS\_FTP Pro folder to the path variable in the System Environment. Otherwise, change to your *.ini* file folder before you enter the commands.

### See also:

[Basic Command Line Syntax](#)

[Using a Batch File](#)

[Transferring Multiple Files From the Same Location](#)

[Doing Pre-Scheduled \(Automatic\) Transfers](#)

[File Transfer Modes](#)

[Transferring a Folder with Subfolders](#)

[Windows 3.1 Users](#)

## Basic Syntax

To use the command line, you type the command name (**ftp95pro** for the 32-bit version of WS\_FTP, **ftppro** for the 16-bit version) followed by whatever arguments you need to complete your task. For example,

```
ftp95pro -p Damion -s local:c:Tag.doc -d Damion:/Tag.doc
```

The three arguments used most often are -p, -s, and -d. These three arguments tell WS\_FTP Pro, respectively, the [name of the configured site](#), the source of the transfer, and the destination of the transfer.

- **Note:** The -p argument must be the first argument after the ftp95pro command, unless you have [more than one ws\\_ftp.ini](#) file on your computer.

WS\_FTP automatically logs you off the FTP site when the transfer is done.

## See also:

[Overview](#)

[Downloading Files](#)

[Uploading](#)

[File Transfer Modes](#)

[Using an IP Address, Host Name, or URL](#)

[Using a Batch File](#)

[Transferring Multiple Files From the Same Location](#)

[Transferring a Folder with Subfolders](#)

[Doing Pre-Scheduled \(Automatic\) Transfers](#)

[Transferring Files with Spaces in the File Names](#)

[Windows 3.1 Users](#)

### **Using the Names of Configured Sites**

You can use names of [configured sites](#) to do FTP transfers from the command line. If your site names have no spaces in them, you don't need to do anything special. If, however, your site names have spaces, enclose the entire command in quotes, or see [Transferring Files with Spaces in the File Names](#).

#### **See also:**

[Using an IP Address, Host Name, or URL](#)

[Using FTP Site Accounts and Passwords](#)

## Uploading Files

Let's suppose that in the classic interface of WS\_FTP Pro, you have a configured site named Damion. This site name logs you on to an FTP site whose host name is ftp.Damion.com. Let's also suppose that on your C: drive, you have a folder named *Sports* and a file named *Tag.doc* in that folder. To upload the *Tag.doc* file to a folder named *Drop* on the Damion site, you enter the command name followed by the site name, the source location, and the destination location. At the MS-DOS prompt, type:

```
ftp95pro -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/Tag.doc
```

or,

```
ftp95pro -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/
```

You'll notice that the second option omits the file name from the destination location. You can do this when you want the transferred file to have the same name as it does in the source location. However, note that you must enter the trailing slash after the destination folder in order for this to work.

## See also:

[Downloading Files](#)

[Renaming Files](#)

[File Transfer Modes](#)

## Downloading Files

Use the [basic syntax](#) for downloading files, except that, for clarity, you might want to place the FTP site before the local system. (WS\_FTP Pro transfers the file from the location following -s to the location following -d, no matter which you enter first in the command line.)

For example, let's suppose you want to download a file named War.doc from a folder named Pub on the Damion site, and let's assume you want to copy it to the Games folder on your hard disk. Type:

```
ftp95pro -p Damion -s Damion:/Pub/War.doc -d local:c:\Games\War.doc
```

- **Tip:** You can leave off the -s and -p, but when you do so, you must enter the source location first, and the destination second. For example,

```
ftp95pro -p Damion Damion:/Pub/War.doc local:c:\Games\War.doc
```

## See also:

[Uploading Files](#)

[Renaming Files](#)

[File Transfer Modes](#)

### **Renaming Files**

To rename a file as you upload it, use the [basic command line syntax](#), being sure to enter a new file name after the destination folder. For example, to upload a file named *Tag.doc* file and rename it *NewTag.doc* on an FTP site named Damion, type:

```
ftp95pro -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/NewTag.doc
```

### **See also:**

[Uploading Files](#)

[Downloading Files](#)

[File Transfer Modes](#)

### Using FTP Site Accounts and Passwords

When you reference a [configured site](#) from the command line, WS\_FTP Pro uses the user ID, password, and account you saved in the site configuration.

**Account.** If you have saved an account name in the site configuration, the command line logs you on using the account name. If you have not saved an account name, you can use the `-c` argument to specify the account name when you enter the command line. Assuming you are trying to transfer a file named *Tag.doc* to the Damion FTP site, and want to use an account named *pisa*, you would enter:

```
ftp95pro -p Damion -c pisa -s local:c:\Sports\Tag.doc -d Damion:/Drop/Tag.doc
```

**Password.** If you have saved a password with the site, the command line logs you on using the saved password. If you have not saved a password with the site, you will receive the the regular password prompt.

## Using a Batch File

Instead of typing a command line at the MS-DOS prompt, you may find it more expedient to enter the command line into a batch file (a text file with the file extension *.bat*). This makes it easier to correct mistakes and to run the same command again.

You run the command by invoking the *.bat* file at MS-DOS prompt, double-clicking the icon for the *.bat* file from within Windows, or running the *.bat* file from another application (such as a program scheduler).

Suppose a batch file named *Tag.bat* contains the following text:

```
ftp95pro -p Damion -s local:c:Tag.doc -d Damion:/Tag.doc
```

When you run the batch file named *Tag.bat*, WS\_FTP Pro uploads the *Tag.doc* file to the Damion FTP site.

- Note: Using a batch file involves placing the command name (ftp95pro or ftppro) at the beginning of each line in the file. Since each instance of the command name starts the WS\_FTP Pro application (and connects to the FTP site), you would only use a batch file to work with *one command at a time*. If, on the other hand, you want to issue a group of commands, see [Multiple Folders or Commands](#).

Remember that if a file name has a space in it, you must enclose the entire command in quotes. Furthermore, you must include the *-i* argument if the WS\_FTP Pro folder is not in your path statement, or if the *wsftp.ini* file you want to use is not in the same folder as the WS\_FTP Pro application. See [Specifying Which .ini File to Use](#).

### See also:

[File Transfer Modes](#)

[Transferring a Folder with Subfolders](#)

### File Transfer Modes

You can transfer files in [binary mode](#) or in [ASCII mode](#). You'll want to use binary mode to transfer all files unless you know the file contains only text, then you'll want to use ASCII mode.

To specify the transfer mode, you use the `-binary` or `-ascii` argument in the command. To be sure that you transfer a file named *Tag.doc* using binary mode, enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/Tag.doc -binary
```

If however, the file were a text file named *Tag.txt*, and you want to be sure it is transferred correctly, you'd enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Sports\Tag.txt -d Damion:/Drop/Tag.txt -ascii
```

- **Note:** When you don't specify the transfer mode in the command line, WS\_FTP Pro transfers the file in whatever file transfer mode is the default in the WS\_FTP Pro classic interface. Therefore, if you plan on using the command line more than just occasionally, set the [Startup Transfer Mode to Auto Detect](#).

### **Transferring Multiple Files from Same Location**

If all the files you want to transfer are in the same folder, you can use the wildcard characters, \* and ?, in the file name. To transfer all files in a local folder named *Sports* to the *Drop* folder on an FTP site named Damion, enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Sports\*. * -d Damion:/Drop/
```

Or, to transfer all *.doc* files in the same folder, enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Sports\*.doc -d Damion:/Drop/
```

To transfer multiple files not in the same folder, see [Working with Multiple Folders or Commands](#).

#### **See also:**

[File Transfer Modes](#)

[Transferring a Folder with Subfolders](#)

### Working with Multiple Locations or Commands

To transfer files to or from multiple source or destination folders, or to issue multiple commands, use the -m argument followed by the name of a text file that contains the commands. For example, to transfer files from several locations on your PC to an FTP site named Damion, you might enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -m xferall.txt
```

where the content of xferall.txt is:

```
-p Damion -s local:c:\Sports\Frisby.doc -d Damion:/Drop/  
-p Damion -s local:c:\Party\Invite.bmp -d Damion:/ToPrint/  
-p Peapod -s local:c:\Recipes\Goulash.txt -d Peapod:/Incoming/
```

#### Note that:

- The command name (ftp95pro or ftp90) must *not* appear in the text file
- Each line of text must contain only one command line.
- Each command line can contain any command line arguments.
- If a file name has a space in it, the entire command line must be enclosed in quotes.

#### See also:

[File Transfer Modes](#)

[Transferring a Folder with Subfolders](#)

### Doing Pre-Scheduled (Automated) Transfers

You can use the command line to set up transfers that you want to run automatically at a certain time. To do this, you create a [batch file](#), and then run the batch file using a scheduler such as the AT command in Windows NT, the Task Scheduler in Windows 98 or Internet Explorer 4, or the System Agent in Windows 95 w/plus.

You can use the `-quiet` parameter in pre-scheduled transfers to prevent WS\_FTP Pro from displaying a message box if and when an error occurs. This is particularly useful for avoiding a situation in which WS\_FTP Pro might otherwise prompt for user input, such as clicking the **OK** button in an error message. This way, you can pre-schedule transfers to run automatically when you're not at your computer. (When you return to the computer, you can always check the log file to see if there were any problems.)

For example, you could create a batch file named `auto10.bat` with the following content:

```
ftp95pro -m xferall.txt
```

as well as the following text file:

```
-p Damion -s local:c:\Sports\Frisby.doc -d Damion:/Drop/  
-p Damion -s local:c:\Party\Invite.bmp -d Damion:/ToPrint/  
-p Peapod -s local:c:\Recipes\Goulash.txt -d Peapod:/Incoming/
```

Then, you could run the `auto10.bat` file at 10:00 PM each night using a scheduler.

Remember that if a file name has a space in it, you must enclose the entire command in quotes.

#### See also:

[File Transfer Modes](#)

[Transferring a Folder with Subfolders](#)

### Transferring a Folder with Subfolders

Since you can't create folders using the command line, you won't be able to transfer a folder by simply specifying the folder name in the command line, or by using wildcards.

To transfer a folder using the command line, you'll need to use some other method to create the folder and its subfolders in the destination location. Then, you can use the procedure described in [Multiple Folders or Commands](#). In the text file, you'll have one command line for each subfolder.

For example, let's suppose you want to transfer the entire folder named *Sports* to the *Damion* FTP site. The *Sports* folder contains a number of files as well as three subfolders named *News*, *Stats*, and *History*.

Once you have created the *Sports* folder and its subfolders in the destination location, create the following text file named *DirStruct.txt*:

```
-p Damion -s local:c:\Sports\*.* -d Damion:/Sports/  
-p Damion -s local:c:\News\*.* -d Damion:/Sports/News/  
-p Damion -s local:c:\Sports\Stats\*.* -d Damion:/Sports/Stats  
-p Damion -s local:c:\Sports\History\*.* -d Damion:/Sports/History/
```

The command you then enter (at the MS-DOS prompt or in a batch file) is:

```
ftp95pro -DirStruct.txt
```

**See also:**

[File Transfer Modes](#)

### Converting File Names to Lower Case

When uploading files, you can have WS\_FTP Pro convert file names to lower case by adding the `-lower` argument at the end of the command line. For example, if you want to transfer a file named *Tag.doc* from your PC to a folder named *Drop* on an FTP site named Damion, WS\_FTP Pro can upload it as *tag.doc*. To do this, enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:Tag.doc -d Damion:/Drop/ -lower
```

- **Note:** When you use the `-lower` argument, the argument must be at the very end of the command line.

### See also:

[Transferring Files with Spaces in the File Names](#)

### Transferring Files with Spaces in the File Names

If you are transferring a file whose name has spaces in it, you have three options. You can enclose the entire command line in quotes, use the MS-DOS name of the file, or you can do a wildcard transfer using asterisks.

**Enclosing the command line in quotes.** If the file you want to transfer from your PC to a server named Damion is named *Tag Top.doc*, enter (at the MS-DOS prompt or in a batch file):

```
"ftp95pro -p Damion -s local:c:\Tag Top.doc -d Damion:/Tag Top.doc"
```

**Using the MS-DOS name.** If the file you want to transfer is named *Tag Top.doc* in Windows 95, but appears as *Tag~1.doc* when you use the Dir command at the MS-DOS prompt, you can use the MS-DOS file name to transfer the file. To do this, enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Tag~1.doc -d Damion:/Tag~1.doc
```

This creates a file on the FTP site named *Tag~1.doc*.

**Doing a wildcard transfer.** If the file (with spaces in its file name) is the only file in its folder, you can use a wildcard transfer to retain the Windows name (with the spaces). So, if *Tag Top.doc* were the only file in the *Sports* folder on your hard disk, you could transfer the file to the Damion FTP site by entering (at the MS-DOS prompt or in a batch file):

```
ftp95pro -p Damion -s local:c:\Sports\*. * -d Damion:/
```

This creates a file named *Tag Top.doc* on the FTP site.

### Using an IP Address, Host Name, or URL

Instead of using the name of a [configured site](#) in the command line, you can use an IP address, host name, or URL. Note, however, that when you do this, you will be logged on *anonymously* to the FTP site; you will *not* be logged on to an account, nor will you be prompted for a password. So, if you want to log on to an account, you must use the name of a configured site.

For example, suppose you have a configured site named Damion and that the host name of this site is ftp.Damion.com and its IP Address is 111.222.333.444. You can transfer files by omitting the `-p` (site name) argument shown as part of the [basic command syntax](#), and, instead type the host name, IP Address, or URL in place of the site name. You could enter one of the following (at the MS-DOS prompt or in a batch file):

```
ftp95pro -s local:c:\Sports\Tag.doc -d ftp.Damion.com:/Drop/Tag.doc
ftp95pro -s local:c:\Sports\Tag.doc -d 111.222.333.444:/Drop/Tag.doc
ftp95pro -s local:c:\Sports\Tag.doc -d ftp://ftp.damion.com:/Drop/ Tag.doc
ftp95pro -s local:c:\Sports\Tag.doc -d ftp://damion:/Drop/Tag.doc
```

### See also:

[Using the Names of Configured Sites](#)

### Specifying Which .ini File to Use

The `-i` argument lets you specify the `.ini` file that the WS\_FTP Pro command line will use. You need to use the `-i` argument to identify the WS\_FTP Pro `.ini` file if:

- You have more than one `.ini` file for WS\_FTP Pro on the same computer
- The `.ini` file you want to use is in a different folder than the WS\_FTP Pro application
- You are running a batch file and the WS\_FTP Pro folder is not in your Path statement

For example, you might enter (at the MS-DOS prompt or in a batch file):

```
ftp95pro -i C:/Programs/WS_FTP/mywsftp.ini ftp95pro -p Damion  
-s local:c:\Sports\Tag.doc -d Damion:/Drop/Tag.doc
```

**Note:** If you use the `-i` argument, it must be the very first argument following the `ftp95pro` command.

### Extras

There are a few extra arguments and uses of the command line that some users have found helpful. These are listed below.

- To have WS\_FTP Pro display a dialog box that prompts you for the command line, type: `ftp95pro -ask`
- To launch the WS\_FTP Pro classic interface and default to the site configuration for the Damion site: `ftp95pro -p Damion`
- To prevent WS\_FTP Pro from displaying error messages, use the `-quiet` argument. This is useful if you want to do automated transfers when noone is around to repond to a message. An example:

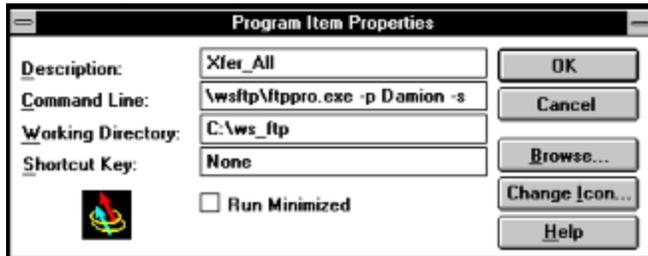
```
ftp95pro -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/Tag.doc -quiet
```

### Windows 3.1 Users

If you are running Windows 3.1, you can use the WS\_FTP Pro command line by creating a **Program Item** and setting its properties to run a WS\_FTP Pro command. When you double-click the icon, the command line runs.

- 1 In the Windows 3.1 File Manager, open the Program Group where you want to create the icon.
- 2 Select **New** from the File menu, and then select **Program Item**.
- 3 Select the icon and then set its properties. Use the [basic command syntax](#) to enter the command into the **Command Line** text box.

For example, to transfer a file named *Tag.doc* from your PC to a [configured FTP site](#) named Damion, you might enter the following for the Program Item Properties:



In the example above, the full contents of the **Command Line** text box are:

```
\wsftp\ftppro.exe -p Damion -s local:c:\Sports\Tag.doc -d Damion:/Drop/
```

## Command Summary

Here is a list of all arguments you can use in the command line. Note that the `-i` argument must precede the `-p` argument when both are used, and that both of these arguments must precede any other arguments.

Arguments (alphabetical)	When to use	Important restrictions
<code>-ascii</code>	Use <code>-ascii</code> when transferring text files.	
<code>-binary</code>	Use <code>-binary</code> when transferring non-text files such as executable programs, word processing documents, and so on.	
<code>-c account</code>	Use <code>-c</code> to work with servers that require an account for the user to log in, or to access partitions. <i>account</i> is the name of your account on the FTP server.	
<code>-d path_and_filename</code>	Use <code>-d</code> to indicate the destination path and desired file name of the file you want to upload or download.	
<code>-i inifile</code>	Use <code>-i</code> if you have more than one <i>.ini</i> file for WS_FTP Pro, the <i>.ini</i> file is in a directory other than that of WS_FTP Pro, or you are running a batch file and the WS_FTP Pro path is not in your Path statement. <i>inifile</i> is the path and name of the <i>.ini</i> file.	If you use the <code>-i</code> argument, it must precede all other arguments.
<code>-lower</code>	Use <code>-lower</code> to have WS_FTP Pro convert file names to lower case letters when you transfer from your local system to a remote FTP system.	If you use the <code>-lower</code> argument, it must be at the very end of the command line.
<code>-m text_file</code>	Use <code>-m</code> to do transfers that involve multiple source locations, multiple destinations, or multiple commands. <i>text_file</i> is the name of the file that contains the commands.	
<code>-p sitename</code>	Use <code>-p</code> to connect to a <a href="#">configured site</a> , where <i>sitename</i> is the name of the configured site. The configured site must be in the default <i>.ini</i> file or in the <i>.ini</i> file specified with the <code>-i</code> argument.	The <code>-p</code> argument must precede all arguments except <code>-i</code> .
<code>-quiet</code>	Use <code>-quiet</code> to prevent WS_FTP Pro from displaying message boxes.	
<code>-s path_and_filename</code>	Use <code>-s</code> to indicate the source path and filename of the file you want to upload or download.	

### See also:

[Extras](#)

