FTPD Service for Windows NT
by Software Innovations Incorporated

ORDER INFORMATION and FAST-START DOCUMENTATION

This document describes release 1.00 of Software Innovations Incorporated's FTP service for Windows NT. Be sure to read this document carefully as the security of your system is an issue when using this version of FTPD. This document accompanies evaluation copies of SII's FTP service. This evaluation copy will run for 15 days following its first installation. Reinstalling the evaluation copy will not reset this timer.

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FTPD Features
    Implemented as a true Windows NT service.
    Multi-threaded operation
    Full integration with NT facilities
    Logging recorded in the event logger
    Configuration stored in the registry - no external config files
    Connection limits
    Support for a welcome message and .message files
    ACL control of FTP connections

Manifest

Your release kit contains the following files:
    ftpdserv.exe   The actual service program
    ftpdmsgs.dll   Message file for the NT event logger
    ftpdctl.cpl   The control panel applet
    ftpd.wri   This document
    ftpdinst.exe   An installer program
    ftpddel.exe   A de-installer

Installation

To install the ftpd server:
    1.   Log in as Administrator
            Make sure that neither the control panel, service manager, or event logger are
            running on your desktop (close their windows). If you have an earlier version of
    FTP, stop that service via the Service Manager or by typing `NET STOP FTPD' in
    any DOS window.

    2.   Unzip the files in a temporary directory. The unzip program can be acquired
from
            ftp.iastate.edu pub/nt/*(processor)*/unzip.exe
                unzip iftpd.zip

    3.   Use `CD' to enter your temporary directory and execute the installation script :
                INSTALL

To delete the service:
    1.   Run the de-installer:

ftpddel

This program will un-register the service with the service manager.

2.　　　You may delete the files:
\winnt\system32\ftpdserv.exe
\winnt\system32\ftpdctl.cpl

3.　　　You may also delete the file \winnt\system32\ftpdmsgs.dll *after* clearing the event logger application log of any FTPD messages.

Configuration

The FTPD service is configured using a control-panel applet. Double click on the FTPD icon to set the following values. Configuration changes affect only future connections. Existing ftpd client-server connections will continue using the settings in effect when they where initiated.

Log Connections　　　　　Check this box if you wish to log all new connections and logins to the event logger.

Log Transfers　　　　　Check this box to log all files stored or retrieved

FTP Access is Available to: This list box shows the names of all uses and groups who will be allowed to initiate ftp connections into your system. You can add new groups and users by pressing the Add button. You can delete groups and users by highlighting them and pressing the Delete button. If you wish to limit access, be sure to delete the entry `Everyone', and then add the names of the groups and users you wish to allow access.

Anonymous FTP account: If you wish to support anonymous FTP access (access by users who do not have accounts on your system), then you must enter the user name to be used for anonymous access. Usually, this is Guest. Be sure that this account has FTP access via the listbox described above.

Password: This is the password that goes with the Anonymous FTP account specified above.

Maximum number of simultaneous connections　　　　　Enter the maximum number of simultaneous ftp client-server sessions that you wish to support at one time. This can be used　　　　　to limit the load which FTPD places on your system during busy
periods. If you don't want to limit the number of connections, set this value to 0.

Default session timeout　　　This sets the default idle timeout. Any session which is idle (no commands issued for this number of seconds) will be disconnected.

Maximum session timeout　　　This sets the maximum idle timeout that a client may request. A client may request a longer timeout value. This field represents the maximum allowable timeout value that may be requested.

Path to 'welcome' message   When a new connection is established, the text file indicated by this path will be displayed prior to the prompt for a login name and password.

Whenever a client sets the current working directory using the cd command, the service checks for the existance of a file named '.message' or 'FTPD.MSG'. If a message file is found, it will be sent to the client each time s/he enters that directory. This is useful for presenting a brief descriptive message, disclaimer, or copyright notice for items in that directory. These messages should be kept as short as possible as they are displayed *each* time the client enters that directory.

Operation

When serving out files via FTPD, please take care to respect all copyright, license, and shareware terms and conditions on the files you are making accessible.

Starting the FTPD Service
- o   Open the control panel (in the group: Main).
- o   Double-click the Services icon
- o   Insure that the following services are started. You may wish to use the Configuration button to make them `automatic' such that they start each time the system is booted.
     - LanmanWorkstation
     - LanManServer (may not be require in future releases)
     - TCP/IP
- o   Select the FTPD service and click on `Start'
     If you wish FTPD to be started each time your system boots, click on Configure and make FTPD `automatic'.

Stopping the FTPD Service
- o   Open the control panel and double click on the Services icon.
- o   Select FTPD from the list of services
- o   Click on `Stop' and confirm your selection by clicking on Yes in the confirmation dialog
- o   You may change FTPD to `manual' startup (such that it won't start automatically at each reboot) by clicking on Configure and then selecting Manual.

Viewing the Activity Log
- o   Open the Event Logger (available to the administrator in the Administrative Tools group.
- o   Select Application from the Log menu to see FTPD event.
- o   As FTPD runs, you may press F5 to refresh the event logger's display.

See the Messages section of this document for a list of the possible log messages.

Client Operations
All normal FTPD server operations are supported. Because FTP was created for and exists primarily in the UNIX domains, some concessions to NT are required. Those include:

Directory delimiters. The following are all valid directory specifications:
     cd d:\xxx\yyy
     cd \\skyhawk\projects\ftp
     cd /foo/bar
     cd f:/foo/bar

Directory listings:

The client command `ls' will print a simple list of filenames.

The client command `dir' will print a more complete list of filenames and information:

```
ftp> dir
200 PORT command successful.
150 Opening ASCII mode data connection for file list.
d    Administrators  11-Feb-1993  3:02p            bash
d    Administrators   8-Feb-1993  5:16p            bison
d    Administrators   2-Feb-1993  3:00p            compress
     Administrators  29-Apr-1991  4:57p       4245 CRON.C
d    Administrators  17-Feb-1993  4:19p            dialit
d    Administrators  11-Feb-1993 12:49p            diff
          :
          :
d    Administrators  16-Feb-1993  9:55p            tcsh-6.03
d    Administrators   2-Feb-1993 12:27p            unzip
d    Administrators   1-Feb-1993  5:39p            UUCP
d    Administrators   1-Feb-1993  5:38p            WINNEWS
d    Administrators   1-Feb-1993  3:26p            zip
226 Transfer complete.
1725 bytes received in 2.32 seconds (0.74 Kbytes/sec)
```

The first column may contain one or more of:

d	This is a directory
R	a read-only file
S	a system file
T	a temporary file

Column 2 contains the name of the owner.

Note that you may get three question marks (???) for the owner field. This usually means that you did not have sufficient access to read the file owner from the file or directory's security descriptor.

Column 3 contains the date last written

Column 4 contains the time last written

Column 5 (blank for directories) contains the size of the file

Column 6 contains the name of the item

The appearance of the directory listing differs slightly for FAT and HPFS volumes.

Messages

The following messages are currently supported. Some will not appear unless the proper logging options are selected in the control panel applet.

```
The FTP service has started successfully.
The FTP service has shut down successfully.
A new connection has been received from %1.  This connection is being
serviced by thread %2.
FTP login by %2 at %1
Anonymous FTP login from %1, %2
User %1 timed out after %2 seconds.
User %1 logged out from FTP.
```

```
User %1 has stored file %2.
User %1 has retrieved file %2.
Repeated login failures from %1.
Unable to create communication management thread.
The TCP/IP library reports it is not ready for use.
The requested WinSock API version is not available.
The specified WinSock version is not supported by this DLL.
CreateThread failed while trying to service a new connection.
getpeername() failed on new connection
getsockname() failed on new connection
Unable to allocate thread local storage index.
Unable to malloc thread local storage space.
```