



# Software Product Description

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**PRODUCT NAME:** File Transfer Spooler for Open Systems, Version V1.2  
54.43.01

**SPD**

## DESCRIPTION

File Transfer for Open Systems (FTSO) is a software product offering automatic, reliable, scheduled and secure file transfers between mixed manufacturer systems. FTSO allows users to queue requests for file transfers between the many different systems in a network. The file transfers occur in a background mode freeing the user to use the system for other tasks.

FTSO employs the standard TCP/IP and FTP protocols. FTSO currently supports the following software platforms:

- OpenVMS VAX
- OpenVMS AXP
- Digital UNIX
- HP-UX
- OS/400

FTSO implements three modes of operation:

- **NORMAL mode** provides all FTSO features. FTSO is needed on both local and remote sides.
- **BASIC mode** provides all FTSO features except the file segmentation. A file will be fully re-transferred later when an error transfer occurs.
- **FTP mode** provides all FTSO features except the file segmentation and the use of temporary files. A file will be fully re-transferred when an error transfer occurs and temporary destination file name are not used.

In either FTP or Basic mode, FTSO can transfer files between a local FTSO system and remote systems such as UNIX-based systems, Windows NT and in general any system that is capable of running FTP server.

## Features

### *Reliable File Transfers*

FTSO provides error recovery and restart mechanisms. In NORMAL mode, file segmentation is implemented and if error transfer occurs on any segment of the file being transferred, the recovery mechanism automatically restarts transfer at the beginning of the erroneous segment. Only ongoing file transfers have to be manually restarted in the event of complete system crashes.

In NORMAL mode, FTSO checks the availability of disk space on the target system before a copy take place.

In both NORMAL and BASIC modes, FTSO copies the source file to the destination file using a temporary destination file name, allowing your application to "see" the final destination file name only if the transfer is successfully completed.

### *Secure File Transfers*

In NORMAL mode, FTSO verifies whether or not the file to be transferred already exists on the remote system. Where it does exist, the destination can be overwritten via a command parameter ensuring that only the up-to-date version exists.

FTSO also supports a transfer access control mechanism on the remote host. This mechanism is based on user name and user password authentication.

### *Automatic File Transfers*

FTSO allows users to queue requests for file transfers between different systems on a network. They are allowing users to continue with their work while files are being transferred automatically in background mode.

### *Scheduled File Transfers*

FTSO allows users to schedule the file transfers at a specified time, for example, end-of-day or end-of-week transactions.

### *History File*

By default, FTSO logs the result of each FTSO copy command in a general history file.

#### *Programmable Recovery*

With FTSO installed, programmable recovery mechanism gives the system manager the flexibility to set parameters in the way which best suits the load on the system or the needs of users:

- The retry delay when a file transfer error occurs.
- The maximum number of retries per job
- The time limit for the execution of a job

#### *Grouping File Transfers*

FTSO can copy a group of files specified by users within a specific file (input file). Several input files can be used in a single FTSO job. When using an input file, FTSO is able to copy several files (up to 50) to different destinations. This is particularly useful when moving feeder files between applications or for other system management reasons. Multiple input files are not supported on the OS/400 Operating system.

#### *File Format*

FTSO supports the transfer of ASCII, BINARY and EBCDIC files. The transfer of EBCDIC files is only supported on FTSO for OS/400.

#### *Post-Transfer Commands*

FTSO can start a specified script or procedure on the local or/and remote systems after the FTSO job is completed and transfer results in either "success" or "failure". Remote post-transfer commands are not supported on the OS/400 Operating system.

#### *User Notification*

FTSO can notify a specified user of the completion of the copy job by terminal broadcast. FTSO can also notify a mailbox (OpenVMS mailbox only).

#### *File Transfer Abort*

FTSO includes an ABORT command to stop any specified job upon request.

#### *Command Line Interface*

FTSO implements a similar command line interface for all systems. The simplest commands include:

- **FTSO:** To invoke FTSO utility,
- **COPY:** To copy a file to/from a remote system,
- **CANCEL:** To abort a FTSO job currently running or to remove a FTSO job from the FTSO queue,
- **SHOW:** To display information about an FTSO job and default parameters setting,

- **SET DEFAULT:** To define system-wide parameters,
- **HELP:** To list On-line Help Information,
- **EXIT:** To exit FTSO Utility.

#### *Alias Name*

A simple alias name can be used in place of the full remote node access file information. This allows the user to avoid the comprehension and utilization of different file specifications for each operating system on the network.

#### *Callable Interface*

FTSO provides a callable interface. A FTSO\$FTSO routine can be used within an application program to execute an FTSO command acting as the command line interface.

#### *Heterogeneous systems environment support*

FTSO currently supports, OpenVMS VAX, OpenVMS AXP, Digital UNIX, HP-UX, and OS/400 AS/400 platforms.

## DOCUMENTATION

FTSO includes the following documentation:

- FTSO Installation and System Management Guide,
- FTSO User's Guide,
- FTSO Release Notes.

## HARDWARE REQUIREMENTS

#### *Processors Supported:*

##### *Digital Processor Supported:*

- Digital VAX systems
- Digital AXP systems

##### *IBM Processors Supported:*

- IBM AS/400

##### *HP Processors Supported:*

- HP 9000 Station series 700/800

##### *Disk-Space Requirements:*

- OpenVMS VAX Disk Space Requirements: 1100 Kilobytes
- OpenVMS AXP Disk Space Requirements: 1500 Kilobytes
- Digital UNIX Disk Space Requirements: 1500 Kilobytes
- OS/400 AS/400 Disk Space Requirements: 2000 Kilobytes

- HP-UX HP9000 Disk Space Requirements: 800 Kilobytes

## SOFTWARE REQUIREMENTS

Warranty applies only if the following software is installed and configured as specified in the FTSO Installation Guide:

*For Digital VAX Platforms:*

- OpenVMS VAX Operating System V5.5-2 or higher,
- DEC TCP/IP Services for OpenVMS V3.2 or higher,

*For Digital AXP Platforms running OpenVMS:*

- OpenVMS AXP Operating System V6.1 or higher,
- DEC TCP/IP Services for OpenVMS V3.2 or higher,

*For Digital AXP Platforms running Digital UNIX:*

- Digital UNIX Operating System V2.0 or higher.

*For IBM AS/400 Platforms:*

- OS/400 V2R2, V2R3 and V3R1
- TCP/IP for OS/400 Version V2.2

*For HP HP9000 Platforms:*

- HP-UX V9.0

## GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the requirements for the current version.

## DISTRIBUTION MEDIA

This product is available on the following media:

- Streaming Tape for Digital VAX systems,
- QIC Tape for IBM AS/400 systems,
- DAT Tape for both HP systems and Digital AXP systems,
- CD-ROM for Digital VAX and AXP systems

## ORDERING INFORMATION

*OpenVMS VAX Operating Systems:*

Software Licenses: Q2-373A9-\*A

Temporary Software Licenses: Q2-373A9-O\*

Software Media & Documentation: Q2-373AA-H\*

Documentation Only: Q2-373AA-GZ

Software Orientation & Implementation Services: QS-373A9-A9

*OpenVMS AXP Operating Systems:*

Software Licenses: Q2-374A9-\*A

Temporary Software Licenses: Q2-374A9-O\*

Software Media & Documentation: Q2-374AA-H\*

Documentation Only: Q2-374AA-GZ

Software Orientation & Implementation Services: QS-374A9-A9

*Digital UNIX AXP Operating Systems:*

Software Licenses: Q2-372A9-\*A

Temporary Software Licenses: Q2-372A9-O\*

Software Media & Documentation: Q2-372AA-H\*

Documentation Only: Q2-372AA-GZ

Software Orientation & Implementation Services: QS-372A9-A9

*OS/400 AS/400 Operating Systems:*

Software Licenses: Q2-GQ7A9-\*A

Temporary Software Licenses: Q2-GQ7A9-O\*

Software Media & Documentation: Q2-GQ7AA-H\*

Documentation Only: Q2-GQ7AA-GZ

Software Orientation & Implementation Services: QS-GQ7A9-A9

*HP-UX HP9000 series 700/800 Operating Systems:*

Software Licenses: Q2-GQ8A9-\*A

Temporary Software Licenses: Q2-GQ8A9-O\*

Software Media & Documentation: Q2-GQ8AA-H\*

Documentation Only: Q2-GQ8AA-GZ

Software Orientation & Implementation Services: QS-GQ8A9-A9

\* Denotes variant fields. For additional information on available licenses, services, and media, refer to the appropriate price book.

## SOFTWARE LICENSING

This Software is furnished under the licensing provisions of Digital Equipment Corporation's Standard Terms and Conditions. For more information about Digital Licensing Terms and Policies, contact your local Digital office.

### *License Management Facility Support:*

FTSO for OpenVMS VAX and FTSO for OpenVMS AXP support the OpenVMS License Management Facility. FTSO for Digital UNIX supports the Digital UNIX License Management Facility.

License Units for this software application Product are allocated on an Unlimited System Use basis.

There is no LMF support provided for any OS/400 and HP-UX Operating Systems.

For more information on the License Management Facility, refer to the Digital UNIX Operating System Software Product Description or the OpenVMS Operating System Software Product Description.

## SOFTWARE PRODUCT SERVICES

A variety of service options are available from Digital. For more information, contact your local Digital office.

## SOFTWARE WARRANTY

A 90 day warranty for this software application product is provided by Digital with the purchase of this product.

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