



# Software Product Description

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**PRODUCT NAME: File Transfer Spooler for Open Systems, Version 1.6**

**SPD 54.34.06**

## **DESCRIPTION**

*Compaq®* File Transfer Spooler for Open Systems (FTSO) is a client/server e-business software application, which enables automated, reliable, secure, and scheduled file transfers between systems utilizing the TCP/IP network protocol. FTSO operates on multiple operating system platforms.

FTSO's robust and flexible architecture enables you to quickly and easily implement a file transfer mechanism that will help you to quickly meet your e-business goals; for example;

- Integrate front-end web based e-business applications with an existing legacy production environment
- Automate all regular or repeat file transfers thereby freeing up expensive IT staff for other more valuable activities
- Transfer files in a mixed computing environment enabling you to take improved advantage of existing IT infrastructure
- Exchange data seamlessly, reliably and securely with your e-business partners
- Manage the distribution and collection of critical financial or production data to all your worldwide business locations
- Roll out data files or even software applications across the entire enterprise
- Schedule all these file transfer requirements to run at prearranged times, or on demand as the requirements dictate.

FTSO V1.6 supports the following software platforms:

- *Compaq* OpenVMS™ for Alpha™ processor-based systems and *Compaq* OpenVMS for VAX® systems
- Microsoft Windows 2000 and Windows NT

FTSO V1.6 is soon to be released on the following platforms:

HP-UX  
*Compaq* Tru64™ UNIX  
SOLARIS for SPARC  
IBM AIX

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**AE-RP3CA-TE**

## FEATURES

### *Reliable File Transfers*

FTSO provides error recovery and restart mechanisms allowing file transfers to recover and continue after a recoverable error has been detected. If an error occurs as a file is being transferred, the recovery mechanism automatically restarts the transfer at the point of failure once the recoverable error has been corrected. You can tune the recovery mechanism by changing the retry interval and the number of retries.

A number of pre-file transfer checks are carried out, which include:

- 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 completed successfully.
- FTSO checks file permissions to ensure that the specified input files can be read and that the output files can be created before the copying begins.
- FTSO checks the availability of disk space on the target system before a file transfer takes place.
- FTSO verifies whether or not the file to be transferred already exists on the remote system. Where it does exist, the user can override this verification.

### *Secure File Transfers*

The user name and password are encrypted. In standard FTP, passwords are in clear text. Sensitive data, such as user names, passwords, aliases, and configuration parameters are stored in an encrypted format on both the FTSO client and server. FTSO supports the assignment of access rights to users' accounts to control client access to files and folders. Every access to a resource, such as a file, directory, or application, is controlled by the FTSO server on behalf of a user account. The FTSO server uses that user name while attempting to read, write, or execute the resource for the client. This mechanism allows a system administrator to restrict the activities of clients.

FTSO implements the Remote Passphrase Authentication (RPA) mechanism, which authenticates the client and the server without either knowing the other's passwords.

FTSO can act as a firewall. A network administrator can configure an FTSO firewall with various security rules that control which FTSO clients/accounts can access particular FTSO servers, and control the access rights that such clients/accounts have on those FTSO servers.

FTSO allows you to control access to your server by specifying that certain users be allowed to log on to your computer into an account without providing a password. This is useful in environments where passwords change frequently. It is also possible to configure FTSO to allow anonymous file transfer. This allows open access without a password for all clients logging into an account on the server. These security features may be used in combination.

### *Scheduled File Transfers*

FTSO allows you to schedule file transfers for a specified time. FTSO queues requests for file transfers between the different systems. The file transfers occur simultaneously in a background mode, freeing the user to use the system for other tasks. You can also pause and then restart a file transfer and, when required, the file transfer can be cancelled. FTSO can start a specified script or procedure on the local and/or remote systems before an FTSO file transfer has started and/or after the FTSO file transfer has completed. The post-transfer procedures can be conditional on whether the transfer result is a success or a failure. It can also be unconditional. This is a very powerful mechanism that allows you, for example, to compress or encrypt your files before transferring them, and then to decompress or decrypt them after they have arrived at their destination.

### *Delete File after Successful Copy*

FTSO allows you to delete the source file after the file has been successfully transferred.

### *Compress/Decompress*

You can compress/decompress files prior to and after transfer by setting up an FTSO pre-procedure to compress files using a compression tool, and an FTSO post-procedure to decompress the file after the file copy has successfully completed. The

Info-Zip compression tools are supplied as part of the FTSO package. Licensing and copyright information for Info-Zip can be viewed at the following URL: <ftp://ftp.info-zip.org/pub/infozip/license.html>.

### *Management Features*

FTSO supplies the following management features:

- Aliases – FTSO allows you to create a simple, short alias name in place of full remote file specification. This increases its ease of use because you can avoid the specifics of different file specifications for each operating system on the network by creating aliases for remote file specifications.
- URL file naming – FTSO allows you to define remote file specifications using the URL format.
- User notification – FTSO can notify a specified user of the completion of a file transfer by terminal broadcast. On OpenVMS, FTSO can also notify a permanent mailbox.
- Grouping file transfers – FTSO can copy a group of files by allowing you to create an input file containing the names of the files you want to copy. Several input files can be used in a single FTSO job. By using this mechanism, FTSO is able to copy a number of files (up to 49) to different destinations. This is useful when a group of files with the same source and destination are to be copied repeatedly.
- Customisable FTSO configuration functions – FTSO provides the capability to configure the FTSO system for flexibility, ease of use, recovery, and performance.
- History file – all transfers are recorded in the main FTSO log file. By default, a file per job is created, but you can turn this feature off.
- Multiversion file support on OpenVMS – FTSO supports multiversion file functionality on OpenVMS AlphaServer SC Management Utilities.

### *Command Line Interface*

FTSO implements a consistent Command Line Interface (CLI) across all supported platforms. Using the CLI, you can manage all your file transfers; set up anonymous, ACL, and nopassword access; configure a firewall; and set up authentication.

### *Graphical User Interface*

A Graphical User Interface (GUI) for FTSO is available on Windows platforms only. The GUI resembles the Microsoft Windows Explorer Utility and offers Windows users a method for transferring files and configuring FTSO other than the CLI. The FTSO components are included as a service on the Windows platform.

### *Application Programming Interface*

FTSO provides an Application Programming Interface (API) to allow application programs to interface with FTSO. Through the API, FTSO provides programmers with a set of routines to write programs to create, execute, and monitor FTSO file transfer jobs. FTSO also provides a function (FTSO\$FTSO) to allow a program to create a file transfer easily, by creating CLI-like commands, and sending these commands to the CLI. The FTSO CLI and GUI components are based on this FTSO API. The API may also be used by a customer application wishing to take advantage of the complete set of FTSO features.

### **Note:**

The reliability, security and pre- and post-transfer commands depend on the FTSO or FTP protocols used by the client side and the type of protocol used by the server side. The following table summarizes the availability of these features according to the protocol in use at each side. The availability of features described previously is conditional on the presence of an FTSO client.

	From FTSO Client to FTSO Server	From FTSO Client to UCX FTP Server	From FTSO Client to any FTP Server	From any FTP Client to FTSO Server
<b>RELIABILITY</b>				
Restart at point of failure	Yes	Yes but from beginning of file	If provided by FTP server	If provided by FTP client
Pre-file transfer checking	Yes	Yes	If provided by FTP client	If provided by FTP client
Use of temporary file	Yes	Yes	If provided by FTP client	If provided by FTP client
RMS files supported	Yes	Yes	If provided by FTP client	If provided by FTP client
Segmentation	Yes	Yes	If provided by FTP client	If provided by FTP client
<b>SECURITY</b>				
Encrypted user/password	Yes	No	No	If provided by FTP client
RPA Authentication	Yes	No	No	No
Transfer through Firewall	Yes	Yes	Yes	Yes
Transfers without password	Yes	No	No	No
<b>PRE/POST PROCEDURES</b>				
Local	Yes	Yes	Yes	Not applicable
Remote	Yes	Yes with REXEC	Yes with REXEC	Not applicable

## CONFORMANCE TO STANDARDS

FTSO conforms to the FTP protocol, RFC 959.

## HARDWARE REQUIREMENTS

### Processors and Systems Supported

Compaq processors supported:

- VAX
- Alpha

PC processors supported:

- Intel

### Disk Space Requirements

OpenVMS Alpha: 8MB

Windows: 8MB

### Memory Requirements

For PCs, a minimum of 32MB of RAM is required.

Windows 2000:

- 64MB is recommended

Windows NT:

- 48MB is recommended

## SOFTWARE REQUIREMENTS

The warranty applies only if the following software is installed and configured as specified in the *File Transfer Spooler for Open Systems Installation Guide*.

For *Compaq VAX* systems:

- OpenVMS for VAX Operating System V5.5-2, 6.2, 7.1 and 7.2

For *Compaq Alpha* processor-based systems running OpenVMS:

- OpenVMS for *Alpha* Operating System V6.2, 7.1, 7.2

For Personal Computers or Workstations:

- Windows NT Version 4.0, and Windows 2000

## GROWTH CONSIDERATIONS

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

## DISTRIBUTION MEDIA

Software and documentation for FTSO are available on CD-ROM for all platforms.

## YEAR 2000 READY

FTSO is Year 2000 ready.

"Year 2000 Ready" products are defined by Compaq as products capable of accurately processing, providing, and/or receiving date data from, into and between the twentieth and the twenty-first centuries, and the years 1999 and 2000, including leap year calculations, when used in accordance with the associated Compaq product documentation and provided that all hardware, firmware, and software used in combination with such Compaq products properly exchange accurate date data with the Compaq products. For additional information visit Compaq's Year 2000 program visit: <http://www.compaq.com/year2000>.

## SOFTWARE DOCUMENTATION

FTSO documentation is included on the distribution media. Hardcopy documentation is also available.

The kit comprises the following component manuals:

- *File Transfer Spooler for Open Systems Installation Guide*
- *File Transfer Spooler for Open Systems User Guide*
- *File Transfer Spooler for Open Systems Application Programming Interface Manual*
- *File Transfer Spooler for Open Systems Reference Manual*
- *File Transfer Spooler for Open Systems System Administrator Guide*

## SOFTWARE LICENSING

This software is furnished under license only. For more detailed information about Compaq licensing terms and policies, contact your Compaq representative.

FTSO V1.6 is licensed on a System basis. Each license grants unlimited usage of FTSO on the designated single system. For OpenVMS VAX, OpenVMS Alpha, and Tru64 UNIX a Traditional license is required for each system on which FTSO is to be installed and operated. For all other platforms, a System license is required for each system on which FTSO is to be installed and operated.

### Upgrade Licenses

Upgrade or Update licenses grant the right to use the latest version of the software. To be eligible to purchase Upgrade or Update Licenses for this version, you must already have an equivalent initial license for a previous version of FTSO.

### License Management

*OpenVMS Alpha, OpenVMS VAX and Tru64 UNIX*

The Compaq File Transfer Spooler for Open Systems supports the OpenVMS License Management Facility (LMF) on these platforms. A Product Authorisation Key (PAK) will be supplied with the License Certificate when the product is ordered. This PAK is required to enable use of the FTSO software.

For information about the License Management Facility, see the OpenVMS Operating System Software Product Description (SPD 41.87.xx) or the OpenVMS documentation.

*Windows NT/2000; HP-UX, Solaris SPARC and IBM AIX*

An access key is required to enable use of the software on these platforms. This key is not supplied with the license. It must be requested separately. Please refer to the Instruction Sheet enclosed with your CD-ROM package for details on how to obtain an access key.

You can also send e-mail to [ftso.product.support@compaq.com](mailto:ftso.product.support@compaq.com) in order to request a key.

Install this key as described in the relevant chapter of the *File Transfer Spooler for Open Systems Installation Guide*.

## SOFTWARE WARRANTY

This software is provided by Compaq with a 90-day conformance warranty in accordance with the Compaq warranty terms applicable to the license purchase.

**SOFTWARE PRODUCT SERVICES**

A variety of service options are available from Compaq. For detailed information about the service options, contact your local Compaq office, or send an e-mail to [ftso.product.support@compaq.com](mailto:ftso.product.support@compaq.com)

**ORDERING INFORMATION**

<b>FTSO for OpenVMS VAX</b>	
FTSO V/V CD-ROM & DOCUMENTATION	QA-6Q7AA-H8
FTSO V/V TRADITIONAL LICENSE	QL-6Q7A9-AA
FTSO V/V TRADITIONAL UPDATE LICENSE	QL-6Q7A9-RA
FTSO V/V 60-DAY LOAN LIC	QL-6Q7A9-LD
<b>FTSO for OpenVMS Alpha</b>	
FTSO V/A CD-ROM & DOCUMENTATION	QA-6Q8AA-H8
FTSO V/A TRADITIONAL LICENSE	QL-6Q8A9-AA
FTSO V/A TRADITIONAL UPDATE LICENSE	QL-6Q8A9-RA
FTSO V/A 60-DAY LOAN LIC	QL-6Q8A9-LD
<b>FTSO for Windows NT/2000</b>	
FTSO WIN NT/2000 1 SYSTEM LICENSE/CD-ROM PACKAGE	QB-6QCAA-SA
FTSO WIN NT/2000 1 SYSTEM LICENSE	QM-6QCAA-AA
FTSO WIN NT/2000 5 SYSTEM LICENSE	QM-6QCAA-AB
FTSO WIN NT/2000 20 SYSTEM LICENSE	QM-6QCAA-AC
FTSO WIN NT/2000 50 SYSTEM LICENSE	QM-6QCAA-AD
FTSO WIN NT/2000 100 SYSTEM LICENSE	QM-6QCAA-AE
FTSO WIN NT/2000 UPGRADE LIC/CD-ROM PACKAGE	QB-6QCAA-MA
FTSO WIN NT/2000 1 SYSTEM UPGRADE LIC	QM-6QCAA-CA
FTSO WIN NT/2000 5 SYSTEM UPGRADE LIC	QM-6QCAA-CB
FTSO WIN NT/2000 20 SYSTEM UPGRADE LIC	QM-6QCAA-CC
FTSO WIN NT/2000 50 SYSTEM UPGRADE LIC	QM-6QCAA-CD
FTSO WIN NT/2000 100 SYSTEM UPGRADE LIC	QM-6QCAA-CE
FTSO WIN NT/2000 LOAN LIC/CD-ROM PACKAGE	QB-6QCAA-LD
FTSO WIN NT/2000 1 LOAN 60-DAY LIC	QM-6QCAA-LD

<b>FTSO for Tru64 UNIX</b>	
FTSO U/A CD-ROM & DOCUMENTATION	Soon to be released
FTSO U/A TRADITIONAL LICENSE	Soon to be released
FTSO U/A TRADITIONAL UPDATE LICENSE	Soon to be released
FTSO U/A 60-DAY LOAN	Soon to be released
<b>FTSO for HP-UX</b>	
FTSO UX 1 SYSTEM LICENSE/CD-ROM PACKAGE	Soon to be released
FTSO UX 1 SYSTEM UPGRADE LIC/CD-ROM PACKAGE	Soon to be released
FTSO UX LOAN LIC/CD-ROM PACKAGE	Soon to be released
FTSO UX 1 SYSTEM LICENSE	Soon to be released
FTSO UX 1 SYSTEM UPGRADE LIC	Soon to be released
FTSO UX 1 60-DAY LOAN	Soon to be released
<b>FTSO for Solaris SPARC</b>	
FTSO SPA LICENSE/CD-ROM PACKAGE	Soon to be released
FTSO SPA UPGRADE LIC/CD-ROM PACKAGE	Soon to be released
FTSO SPA LOAN LIC/CD-ROM PACKAGE	Soon to be released
FTSO SPA 1 SYSTEM LICENSE	Soon to be released
FTSO SPA 1 SYSTEM UPGRADE LIC	Soon to be released
FTSO SPA 1 60-DAY LOAN	Soon to be released
<b>FTSO for IBM AIX</b>	
FTSO AXR LICENSE/CD-ROM PACKAGE	Soon to be released
FTSO AXR UPGRADE LIC/CD-ROM PACKAGE	Soon to be released
FTSO AXR LOAN LIC/CD-ROM PACKAGE	Soon to be released
FTSO AXR 1 SYSTEM LICENSE	Soon to be released
FTSO AXR 1 SYSTEM UPGRADE LIC	Soon to be released
FTSO AXR 1 60-DAY LOAN	Soon to be released

## MIGRATION LICENSES

Customers who already have licenses for Compaq's DECnet-based file transfer product, File Transfer Spooler for OpenVMS VAX /Alpha, (**FTSV**) can trade up to Compaq's TCP/IP-based intelligent file transfer product, File Transfer Spooler for Open systems (**FTSO**) on the OpenVMS VAX, OpenVMS Alpha or Tru64 UNIX licenses.



<b>FTSV to FTSO Special Offer Upgrades licenses</b>	
From FTSV to FTSO for OpenVMS VAX Traditional Migration License	QL-6QDA9-AA
FTSV to FTSO OpenVMS Alpha Traditional Migration License	QL-6QEA9-AA
FTSV to FTSO Tru64 UNIX Traditional Migration License	Soon to be released

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