

DATASHEET

FUJITSU Software openFT (Unix Systems) V12.0

MANAGED FILE TRANSFER

openFT (Unix Systems)

About 80 percent of the total amount of data exchanged within a company or between a company and its customers and business partners is transferred in the form of files. In E-Business the requirements placed on an administered company-wide file transfer solution (Managed File Transfer) become even more important: openness, automation, security, reliability, availability, monitoring, visibility and performance. The Fujitsu openFT product family fulfils these requirements to the utmost and also provides a series of additional useful functions such as file administration for the local and remote system. Furthermore, openFT is very easy to install and administrate and can contribute significantly to the reduction of the TCO (Total Cost of Ownership).

openFT is a high-performance solution for complex, heterogeneous IT environments that can be used to fully automate the file transfer process. openFT is especially suited for companies and government agencies that require a totally reliable and secure provision of large quantities of business-critical data. The use scenarios of openFT extend beyond numerous areas of application in mobility and business critical computing. For many application integration projects, openFT represents a widely used and proven solution with solid benefits. openFT has proven its flexibility and reliability day in day out, even under extreme loads, in over 100,000 server installations.

openFT is part of the comprehensive openSEAS product offering.

openFT (Unix Systems) V12.0C

The current release V12.0 is enhanced with some features.

- The security on the basis of the exchange of key files and mechanisms using them is increased. Partner authentication and data encryption is more effective.
- An openFT instance can demand a minimum length of RSA key to negotiate AES key for encryption of openFT session.
- Restart function can be deactivated globally or partner specifically.
- Request tracking over system boundaries are supported by a common identification criterion.
- The logging function is added up by the possibility to change current log file at run time, offline retrieval and automatic deletion of old logging records.
- The basic transport system is connected directly without any need of external access functions.
- FarSync X25 cards of producer FarSite are supported directly in Linux. Connection method XOT is supported in Linux.
- openFT can be run in single user mode.
- Platform Linux for System z is supported.



FEATURES AND BENEFITS

MAIN FEATURES

BENEFITS

VISIBILITY

- Fast and easy installation
- Easy to use GUI
- Central administration of local and remote partner
- File Management of local and remote partner
- Virtualization and failover-cluster

- Ready for processing immediately after installation
- Intuitive handling for users and administrators
- Single point of administration
- Management of local and remote file systems
- Advanced availability

MONITORING

- Monitoring of operating states of the openFT instance
- Logging of all requests
- Request storing and management

- Actual retrieving and presentation of metered values to benchmark the openFT processing
- Audit compliant logging
- Granted data delivery

SECURITY

- Management of access rights via FTAC
- Encryption of meta data and file contents
- Authentication by cryptographic means
- File consistency

- Independence of OS access rights
- Security by transferring encrypted data
- Mutual check via cryptographic means to make sure the connection is with the right partner instance
- Protection from man-in-the-middle-attack

REPORTING AND AUDITING

- Logging all requests
- Central trap server to gather all traps of an openFT network

- Audit compliant logging
- Analysis of all traps of an openFT network on a single server

ADAPTABILITY

- Support of different system platforms
- Support of different protocols and networks
- Code conversion of text files of different codes
- Scaling from a desktop to high-end server

- Connectivity to different operating systems
- Connectivity to different networks and communication via openFT, FTAM- or FTP-communication possible
- Processing files with different source and encoding
- Optimized use of existing resources

PROVISIONING

- Dynamic partner list
- Dynamic changes of configuration

- Immediate access to partners
- Configuration is immediately effective

AUTOMATION AND WORKFLOW

- Start of follow up processing in local or remote system
- Prepare and further treatment of transfer data via pre- and post-processing
- Command execution in remote operating system

- Possible reaction to finished transfer
- Dynamic preparation of data at request time and direct further processing
- Remote control of the partner system is possible

CHANGES SINCE PREVIOUS VERSION V11.0

- Enhanced security of mechanisms on the basis of the exchange of key files
- Common identification criterion of requests
- Logging functions are more efficient
- Direct access to the transport system without external access functions
- Under Linux FarSync X25 cards of producer FarSite and connection method XOT are supported directly
- openFT can be run in single user mode
- Platform Linux for System z is supported

- Partner authentication and data encryption are more efficient
- Comfortable request tracking over system boundaries
- Current logging improved by different means
- Independence from availability of an external product
- Direct use of these communication means
- Processing of openFT in a not privileged user id
- Use of the additional platform

OFFERING

Visibility

- **Fast and easy installation**
openFT is very easy to install and can be used immediately after installation without any further modifications.
- **Easy to use GUI**
The graphical interface permits "drag & drop" file transfers. The local and the remote systems are displayed in the same format as in the Windows Explorer and can be operated identically. File management tasks, such as renaming files, are just as easy as the efficient comparison of different file trees or the transfer of files between two remote systems. When local files are copied, the progress of the copy procedure is displayed and it is also possible to cancel the copy. Finally, local and remote files can be loaded into the openFT editor. The graphical interface permits the administration of an FT system, e.g. user-friendly management of the FTAC authorization profiles and records. The administration functions can also be used for partner systems so that remote systems can be administered centrally via the local graphical interface (single point of administration). Detailed information on the graphical interface can be found in the corresponding online help system.
- **Central administration of local and remote partner**
A complete openFT network with the permitted administrators can be managed on a dedicated administration. An administrator has only to authenticate on the admin server and can manage all openFT instances that are assigned to him. Central administration is independent of normal transfer processing.
- **File management of local and remote partner**
The file systems on the local and remote partners can be modified via File Management. You can remove, rename files or modify their access rights. File directories can be created, removed and renamed.
- **Virtualization and failover-cluster**
In openFT you can run several openFT instances on a computer at the same time, and each openFT instance has its own resources. There are interfaces available for creating, managing and deleting instances. This enables you to switch the functionality of openFT to a different computer where openFT is already installed when the original computer fails or when there is a resource bottleneck.

Monitoring

- **Monitoring operating states of the openFT instance**
Thanks to collecting and displaying metered values an administrator is able to evaluate critically the operating state of an openFT instance and to control it. Monitoring can be configured for special needs.
- **Logging all requests**
The log file contains comprehensive information about all the access checks and file transfers performed so that an audit can be performed as required.
- **Request storage and administration**
Requests can still be accepted even if a partner system is not available when the request is issued. They are also accepted if openFT is not available locally. These requests are stored and automatically processed once the network or partner system becomes available. Thanks to request storage, the transfer can be initiated at any time desired, for example to reduce transmission costs (time control). It is also possible to specify a time at which the request is to be deleted or

the transfer is to be aborted (cancel timer). The sequence in which requests are processed can be modified via the priority control.

Security

In addition to the protection functions of the local system, openFT also offers enhanced access protection for file transfer and hence increased security.

- **File Transfer Access Control (FTAC)**
With this integrated add-on module, openFT also offers comprehensive and individually adjustable protection functions. Thus, openFT works with an access authorization that is independent of the operating system. The rights associated with this access authorization can be set on a highly differentiated basis. Furthermore, the user can precisely restrict and set the authorizations of the remote partner systems with respect to file transfers. The access rights can be restricted to specified tasks for each individual partner so that particular functions are no longer allowed (e.g. follow-up processing or file management functions).
- **Encryption**
The description data for file transfer and file management requests are encrypted with the RSA/AES algorithm. This prevents unauthorized reading of sensitive data at network level, such as user IDs or passwords. The contents of the files transferred can be encrypted using the same procedure. This functionality is subject to export restrictions. Due to protocol restrictions, it is possible to exchange data encrypted by openFT only with openFT partners or FTP partners if openFT initiates the connection and FTP server supports encryption.
- **File consistency**
It is possible to specify that the data transferred as a result of a file transfer request can be checked for integrity to avoid a man-in-the-middle-attack.
- **Authentication**
openFT instances can mutually check with cryptographic means that they are connected with the right partner instance. It is thus possible to securely identify both the partner of a request and the own system in the partner system. Prerequisite for the authentication is the exchange of public keys. If the public key of a partner system is available in an openFT instance, then all connections with this partner system are processed with authentication.
- **Logging**
The log file contains comprehensive information on all access checks and file transfers performed so that an audit can be performed as required.

Reporting and Auditing

- **Logging all requests**
The log file contains comprehensive information about all the access checks and file transfers performed so that an audit can be performed as required.
- **Central trap server to capture all traps of an openFT-network**
You may configure a dedicated trap server to send to all generated traps. An administrator has to authenticate on this server and can manage all traps related to him.

Adaptability

openFT supports a wide range of system platforms and protocols while maintaining a uniform interface.

- **System platforms**
Computers from different manufacturers running different operating systems can be connected with openFT. For example, openFT is available for all Windows platforms (Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows Server 2008, Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2), numerous Unix platforms (including Solaris and Linux), as well as all BS2000 and z/OS systems.
- **Protocols and networks**
openFT can also be used in a network in which computers with different protocols communicate with each other. openFT supports networks and network protocols such as TCP/IP, ISO, NEA, X.21/X.25, and ISDN resp.
- **Data formats**
openFT can process and transfer files with different characteristics (depending on the file type and operating system in which the files were created).
- **Encoding of character data**
openFT is able to handle and transfer text files with various encodings. openFT supports the conversion of encoding of standard Unicode variants (UTF-8, UTF-16, UTF-E), standard 8-bit character sets (ISO8859nn, EDF04nn) and any user defined 8-bit character set.
- **FTAM support**
The full integration of the FTAM protocol (file transfer based on the ISO 8571 protocol) by means of the openFT-FTAM add-on product means that the communications options are extended to some important systems. The add-on module openFT-FTAM is integrated into the openFT product. It must be ordered separately as a license.
- **FTP support**
The communications options are extended to practically all major systems by the integration of the ftp protocol by means of the openFT-FTP add-on product. The add-on module openFT-FTP is integrated into the openFT product. It must be licensed separately too. For secure connection to FTP partners SSL/TLS interface is supported on outgoing connections.

Provisioning

- **Dynamic partner list**
Thanks to partner list remote instances are accessible immediately. The partners can be configured in different properties in order satisfy security features or set the tracing.
- **Dynamic changes of configuration**
Any change of configuration will be active immediate. Current working processes are not affected

Automation and Workflow

openFT offers the following functions and features for integration into business processes or applications:

- **Follow-up processing**
It is possible to attach a request for follow-up processing in the local or remote system to a file transfer request. If the transferred file is a job, for instance, it can be started by means of the follow-up processing. Further examples of use comprise printing out transferred files and automatic updating of databases.
- **Pre- and post-processing**
Operating system commands that process or dynamically create the data before transmission can be started when sending or receiving a file. This means, for instance, that it is easy to access databases and transfer results, perform conversions and integrate customer-specific security tools. With post-processing, the data transferred can be processed further in a similar manner on the receiving end in programs or scripts. In order to perform pre- and post-processing in the partner system, the partner must use an openFT version that supports pre- and post-processing.
- **Remote command execution**
With openFT it is possible to run system commands or programs of remote systems from a local system and thus integrate them

into scripts. The output of the commands and programs (in BS2000 SYSLST/SYSOUT, in z/OS SYSPRINT /SYSTSPRT and on Unix systems stdout/stderr) are mapped onto stdout and stderr and can be easily processed further and output using Windows tools. The same functionality is available initiated in BS2000, Unix systems and z/OS for remote command execution on Windows systems. The resulting remote functionality is also completely secured by FTAC protection functions and the encryption feature.

- **Integration in job scheduling**
Using pre-, post- and follow-up processing, procedures can be easily realized because all functions can be called from the command line.
- **openFT script functionality**
With openFT script functionality (ftscript) it is possible to define and control groups of asynchronous openFT tasks which depend on each other.

Changes since the preceding version V11.0

- **Security functions**
Mechanisms basing on the exchange of key files are shaped more effective. An expiration date of a key can be configured as well as its minimum length. The rule only to use encrypted transfers can be set up.
- **Tracking**
Visibility and manageability of transfer requests are supported. Requests will get a common identification criterion with the global request id.
- **Logging function**
Current logging file can be exchanged at runtime. The retrieval of logging records can take place on offline log files. It's possible to delete older records automatically.
- **Transport system**
The underlying transport system is accessed directly. So independence exists from additional access interfaces. Easier diagnosis is possible by integration of transport system trace data into the known openFT trace files.
- **FarSite X25 cards**
These communication means and XOT can be used directly.
- **Single User Mode**
openFT can be processed in a not privileged user id.
- **Linux for System z**
openFT is provided on this additional platform.

TECHNICAL DETAILS

TECHNICAL REQUIREMENTS HARDWARE		
CPU	Platform Oracle Solaris Linux HP-UX AIX	Architecture SPARC x86 x86-64 System z Itanium POWER
Memory requirements HDD	60 - 75 MB incl. std instance 30 MB each further instance	
TECHNICAL REQUIREMENTS SOFTWARE		
Operating system	openFT for Unix systems executable as of the stated OS versions: <ul style="list-style-type: none"> ▪ Solaris (SPARC): as of Solaris 10 ▪ Solaris (x86): as of Solaris 10 ▪ Linux (x86/x86-64): as of SLES10 SP3 or RHEL 5 with kernel 2.6.18 or Oracle Enterprise Linux 5 with Unbreakable Enterprise Kernel 2.6.32 or a Linux distribution that is compatible to the above ▪ Linux on System z ▪ HP-UX (Itanium): as of 11iv3 V11.31 and fully compatible versions ▪ AIX: as of V6.1 and fully compatible versions ▪ Others: as e.g. Linux on System z on request 	
USER INTERFACE		
Language	English and German, others on request.	
INSTALLATION		
Installation	By the customer on the basis of the release notice.	
DOCUMENTATION		
Manuals	Manuals (English and German) for users and system administrators as PDF files; also available on the Internet via http://www.ts.fujitsu.com/openft	
DEMANDS ON THE USER		
Demands on the user	Unix knowledge and if necessary knowledge of the partner system	
TRAINING		
Training	Courses are held in the Technical Training Academy of Fujitsu under the currently valid conditions.	
CONDITIONS		
Condition	This software product is supplied to the customer under the conditions for the use of software products against instalments or a single payment. Only in connection with openFT the use of PCMX does not need to be licensed separately.	
ORDERING AND DELIVERY		
Delivery	This software product may be obtained from your local Fujitsu regional office	

FUJITSU PLATFORM SOLUTIONS

In addition to FUJITSU Software openFT, FUJITSU provides a range of platform solutions. They combine reliable FUJITSU products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the FUJITSU Dynamic Infrastructures approach, FUJITSU offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from FUJITSU technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

http://ts.fujitsu.com/it_trends/dynamic_infrastructures/products/index.html

Software

<http://solutions.ts.fujitsu.com/software-catalog/start.php>

MORE INFORMATION

Learn more about FUJITSU Software openFT, please contact your FUJITSU sales representative or FUJITSU Business partner, or visit our website.

<http://ts.fujitsu.com/openFT>

FUJITSU GREEN POLICY INNOVATION

FUJITSU Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at

<http://http://www.fujitsu.com/global/about/environment>



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