Product lineup that can be selected in accordance with the system environment

Primary functions by product grade

Grade	Functions	HULFT8						IBMi	zOS
		Windows		Linux/zLinux		UNIX			
		Server	Client	Enterprise	Standard	Enterprise	Standard		
Standard Functions	File transfer processing	○	○	○	○	○	○	○	○
	Job start up	○	○	○	○	○	○	○	○
	Code conversion	○	○	○	○	○	○	○	○
	Encryption and decryption	○	○	○	○	○	○	○	○
	Compression and decompression	○	○	○	○	○	○	○	○*1
	Multi-language display support	Japanese, English, Chinese (simplified)	Japanese, English, Chinese (simplified)	Japanese, English	Japanese, English	Japanese, English	Japanese, English	Japanese, English	Japanese, English
Expanded Functions (only standard grade available with IBMi and zOS)	Scheduler	○	-	-	-	-	-	-	-
	Clustering compatible	○	-	○	-	○	-		
	File trigger	○	-	○	-	○	-		
	Network file compatible	○	-	○	-	○	-		
Optional Functions	HULFT Script	○	○	○	○	○	○	-	-
	Cipher option (C4S) *2	○	○	○	○	○	○	○	-
	Cipher option (AES) *2	○	○	○	○	○	○	○	○

*1 Deflate compression to be supported in the future
*2 The cipher option is an option to encrypt the transfer data that is different from the encryption function of the conventional data transfer held by HULFT.

HULFT related products

HULFT Manager
Software that can provide concentrated management and control of management screen (defined information of sending and receiving files, environment setting, and transfer log record information, etc.) with one Windows PC in a remote area.

HULFT-HUB
HULFT-HUB centrally manages data transfer operation which provides an integrated management of "HULFT." This allows the composition, operation status, and settings of HULFT that are scattered in the system to be visible. For this reason, benefits will be created that are advantageous for the product's various effects and operation.
3 key points of HULFT-HUB
•Integrated management (status recognition, setting change) of multiple HULFTs that increases operational efficiency.
•One can rest assured even if the network is cutoff because of HULFT's auto-resend function.
•Enhanced security (use of proxy server) when connecting externally.

For details on supported environment, please visit **http://www.hulft.com/en/**

•HULFT and other HULFT-related products are the registered trademark or trademark of Saison Information Systems Co., Ltd.
•Windows is the registered trademark of Microsoft Corporation in the U.S. and other countries.
•IBM, OS/400, OS/390, z/OS, i5/OS, IBM i are the registered trademarks of International Business Machines in the U.S.
•UNIX is the registered trademark of The Open Group.
•Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.
•The mentioned company names and product names are the trademark or the registered trademark of each company.
•System names and product names mentioned in this catalog are not necessarily displayed with trademark symbols (TM, ®).

Providing secure inter/intra-corporate managed file transfer (MFT) software

HULFT8

Connecting values, expanding the future

Global Reach
Business Partners
HULFT on IaaS/PaaS
Midrange Computer
UNIX
Linux
Windows
Mainframe Computer
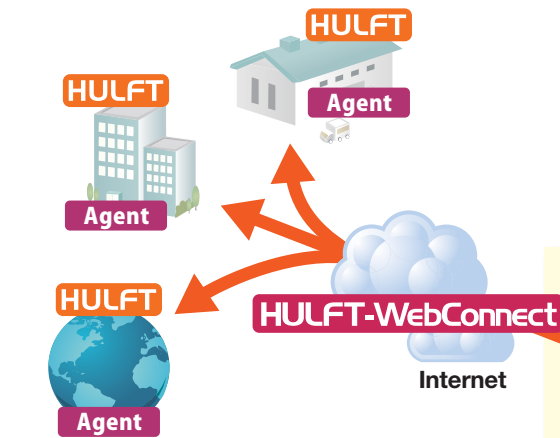
SAISON INFORMATION SYSTEMS CO.,LTD

Connecting values, expanding the future
Enhanced Connectivity of HULFT

HULFT will continue to realize safe and secure file transfer in all ages...
Keeping the characteristics of HULFT that are highly praised by the users intact, HULFT is providing added reinforced security measures and improved operational efficiency.
In order for many of you to safely conduct business development...
HULFT will continue to contribute to our customers business in the evolving network society through efficient and effective data integration.

List of HULFT Products

HULFT — File transfer software that meets the various transfer needs of the cloud and global era.

HULFT-HUB — Loaded with functions that realize the optimization and automation of HULFT operational management.

DataMagic — Complete coverage of the various functions that are necessary for data processing and conversion.

HDC-EDI — Integrated management of various industry's EDI system and intra-corporation system in a seamless fashion.

HULFT-WebFileTransfer — Realizing safe and secure file transfers through web browsing platform.

HULFT-WebConnect — HULFT-WebConnect is a SaaS-based relay service that uses existing Internet lines to perform file transfer without the need for a VPN connection.

SIGNAlert — Total monitoring of the operational status of servers, applications, and website, as well as network traffic status.

HULFT-SAN — Realizing high-speed transfers of high-volume data by way of SAN that interfaces with the system.

DataSpider®Servista — Enterprise application integration platform which integrates data stored in disparate systems, and multiple applications.

- VPN Connection
- LAN Connection
- Internet Connection

HULFT File Transfer Easily Achieved via the Internet

With an Internet environment, HULFT can be utilized immediately after applying for service. No special equipment is required.

High-Volume, High-Frequency File Transfer in a Private Cloud Environment

In addition to file transfer between systems, HULFT can also be used to manually send and receive files via web browsers.

Realizing High Compatibility with IaaS/PaaS and SaaS

Public cloud service that has become indispensable to business. HULFT allows easy file transfer with various cloud services.

Enterprise Application Integration

By taking advantage of DataSpider, enterprise application integration can be easily achieved.

EDI Interface

EDI Base/EDI Manager realizes seamless inter-corporation EDI and intra-corporation file transfer.

Globally Compatible — **Point**

HULFT8 enables safe and secure transfer of high-volume data with remote, overseas locations and business partners.

Pre- and Post- File Transfer Processing can be Easily Created and Operated — **Point**

By utilizing HULFT Script, the processing that frequently takes place during the pre- and post- file transfer will be easily created and operated on a GUI platform.
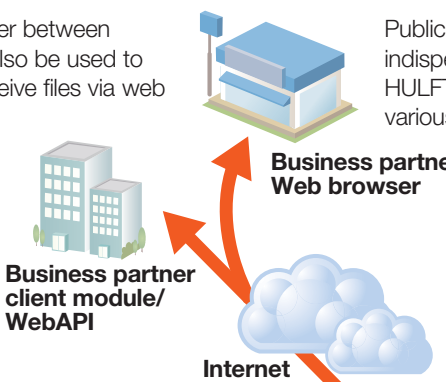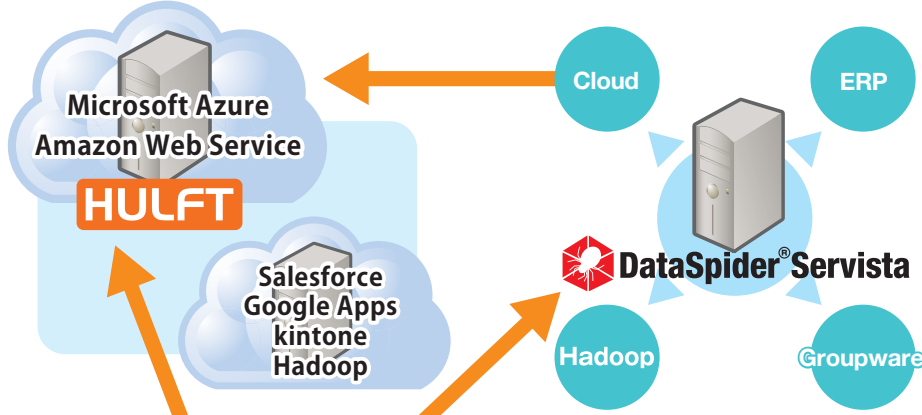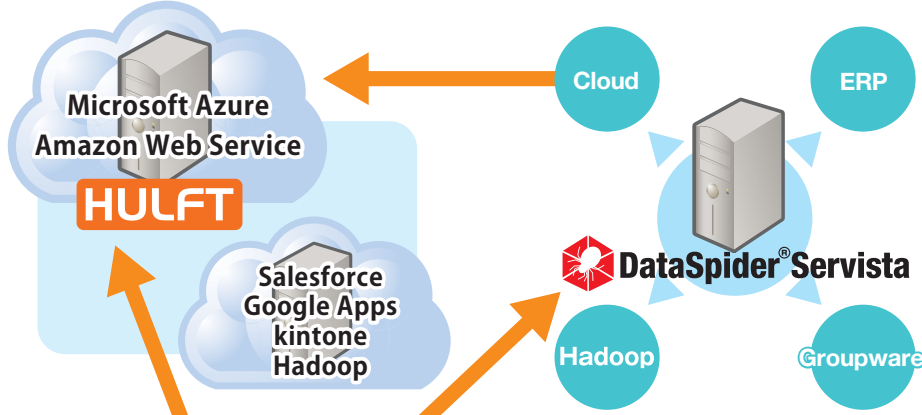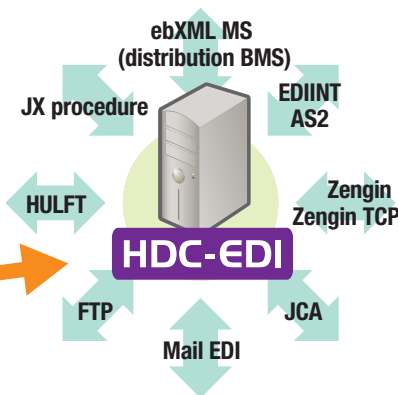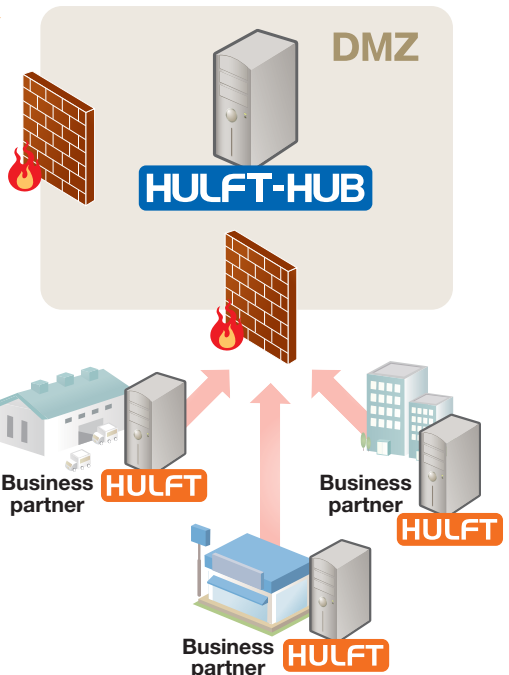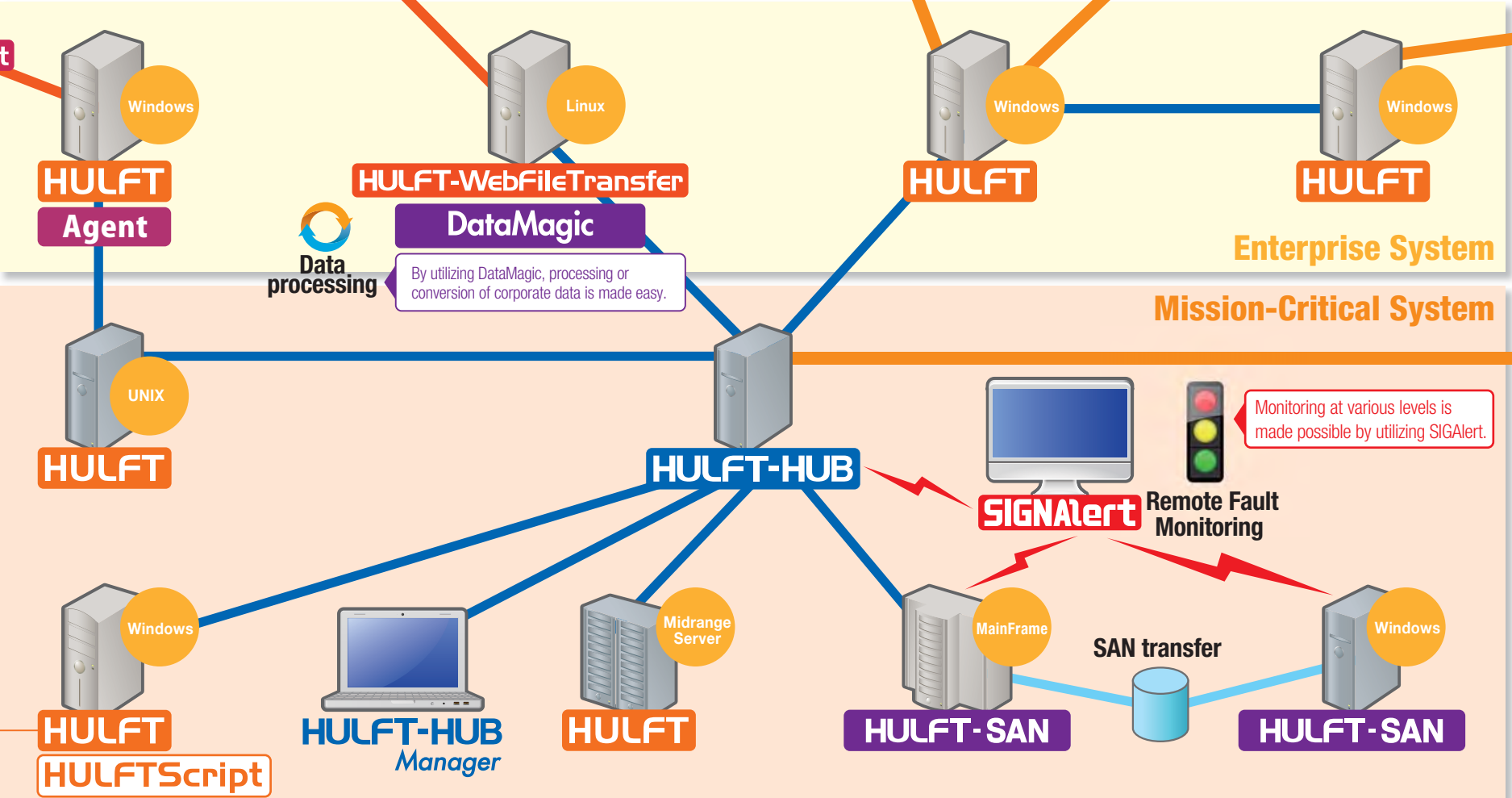
▶ Please see page 6 for details.

*HULFT8 and HULFT7 can be connected.

A more Robust, Secured Environment

By placing HULFT-HUB on a DMZ segment, a more robust and secured file transfer can be attained.

HULFT Agent

HULFT-WebFileTransfer
DataMagic
Data processing
By utilizing DataMagic, processing or conversion of corporate data is made easy.

HULFT

HULFT

Business partner Web browser

Business partner client module/ WebAPI

Internet

HULFT-WebConnect
Internet

HULFT Agent

HULFT

HULFT Agent

HULFT Agent

Microsoft Azure Amazon Web Service **HULFT**

Salesforce Google Apps kintone Hadoop

Cloud — ERP
Hadoop — Groupware

DataSpider®Servista

ebXML MS (distribution BMS)
JX procedure — EDIINT AS2
HULFT — Zengin Zengin TCP/IP
FTP — JCA
Mail EDI

HDC-EDI

Windows — Windows

Enterprise System

Mission-Critical System

HULFT
HULFTScript

HULFT-HUB Manager

HULFT

HULFT·SAN

SAN transfer

HULFT·SAN

HULFT-HUB

SIGNAlert Remote Fault Monitoring

Monitoring at various levels is made possible by utilizing SIGAlert.

UNIX
Windows
Midrange Server
MainFrame
Windows

DMZ
HULFT-HUB

Business partner **HULFT**
Business partner **HULFT**
Business partner **HULFT**
HULFT

Realizing the automation of file transfer within a multi-platform environment.

To realize safely and securely managed file transfers for business enterprises

What is HULFT?

By using HULFT, a secure yet seamless file transfer of inter- and intra- corporation will be realized
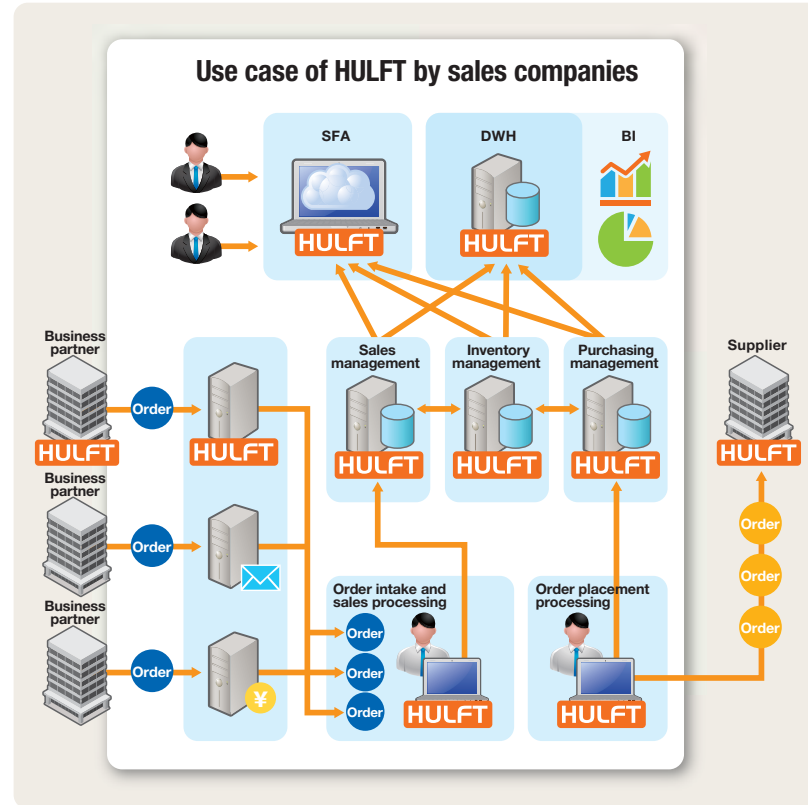
Features and Functions of HULFT

- **Compatible with multi-platforms**
  - Integrated control between different platforms
- **Compatible with various file formats**
  - Text, binary, and formats
- **Sending and receiving data**
  - Reduction of network load (compression, intermittent transfer)
  - Measures taken for errors (checkpoint recovery)
  - Absorption of differences in character codes between disparate platforms
  - Various transfer modes (batch transfer, multicasting, etc.)
- **Security**
  - HULFT Cipher(s), AES/C4S Cipher(s)
  - Checking for data loss and falsification
  - Prevention of unauthorized access, operation log output
- **System Management**
  - Management of transfer log record(s), transfer information
  - Remote centralized operation
- **Automation of operations**
  - Job startup with business processing

Assured and Reliable

Support Multiple Platforms

Centralized and Automated Operation

Use case of HULFT by sales companies

Sales Achievements — Reliability and achievements supported by many customers

- **Market share**
  Ranked **No.1** [1] in Japan
  11 years in a row

Market share in Japan [1]

HULFT **76.3%**

APJ System-Centric File Transfer Software Vendor Share (Revenue) Ranked the **1st** [2]

Worldwide system-Centric File Transfer Software Vendor Share (Revenue) Ranked the **4th** [2]

8,200 companies in **42** countries around the world

- Regardless of the business scale, HULFT has been utilized in file transfers for various companies.

No. of companies adopting HULFT by industry

- Manufacturing 20%
- Wholesale and retail business 18%
- Telecommunication 18%
- Finance and insurance business 10%
- Overseas companies 7%
- Transportation and postal service 6%
- Other 4%
- Service 17%

Globally Compatible
HULFT can safely be used even overseas

HULFT is used in over 42 countries.

- **Europe:** 19 countries
- **North and South America:** 8 countries
- **Middle East and Africa:** 3 countries
- **Oceania:** 2 countries
- **East Asia:** 3 countries
- **Southeast and West Asia:** 7 countries

Commitment to "Safety and Security"
HULFT that is chosen for its total quality

HULFT quality born from thorough development and testing

Tests numbering 200,000 items were implemented during the product development of HULFT8 in order to deliver a safe and secure operation that does not suspend customer's system. Furthermore, to deliver sophisticated support quality, we strive for quality improvement based on various indices such as the resolution ratio during the primary inquiry.

- **Software code defect rate per shipped license** **0.05%** [3]
- **Number of test implementations before release** **200,000 items**
- **Resolution ratio during Level 1 inquiry:** **95.3%** [4]

Safe, secure, simple yet reliable is exactly the true value of HULFT

New and Enhanced Features of HULFT8

As the connector of IT system through the transfer of files, HULFT has always focused on the realization of simple and reliable file transfer. We will keep facilitating the evolution of HULFT into an attractive product that will continue to adapt to the new era without losing sight of its essential value. HULFT8 that was born in this way will expand the destination of new connections in accordance with the change in time. In addition, its core functions that are necessary for file transfer infrastructure for the cloud and big data era have been strengthened.
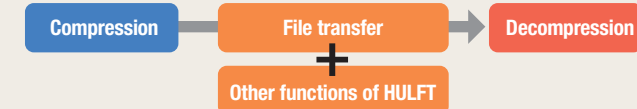
Improved Performance

Realizing optimal file transfer for the cloud and big data, as well as the global era

HULFT8 has focused on data compression to stably provide high-speed file transfer. In addition, by adding the automatic tuning function of transfer setting, it has achieved a transfer speed which is 6 times faster[1] that of FTP. Due to this, HULFT8 demonstrates a stable performance without any special tuning during remote transfer, transfers of large capacity files, and inter-cloud service transfers.
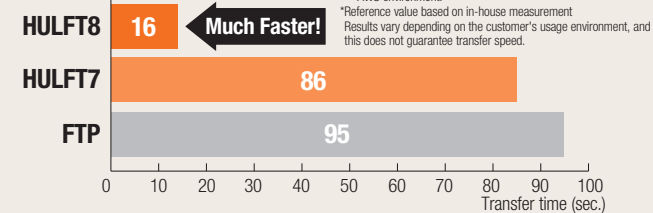
Transfer time is reduced due to improved data compression rate

From the addition of new file compression preference, data compression ratio has been improved. Since HULFT8 executes compression through memory during transfer, code conversion can be used at the same time.

Data compression and code conversion can be implemented in a set during file transfer!

Compression → File transfer → Decompression
+
Other functions of HULFT

Transfer speed is 6 times[1] faster than that of FTP!

	Transfer time (sec.)
HULFT8	16 Much Faster!
HULFT7	86
FTP	95

[Measuring conditions]
*1: OS: Linux   Product used for measurement: HULFT8 for Linux
Transfer zone: Saison-Amazon AWS (Tokyo region)
File size: 500MB
Transfer test results: File of 500MB uploaded from Saison to the AWS environment.
*Reference value based on in-house measurement
Results vary depending on the customer's usage environment, and this does not guarantee transfer speed.

Through the automated optimization of transfer setting, optimal speed is always demonstrated

Since the transfer setting value is automatically optimized, painstaking tuning to search for the maximum value of transfer speed for each delivery destination is unnecessary. With HULFT8, benefits of high-speed file transfer can be obtained anytime.

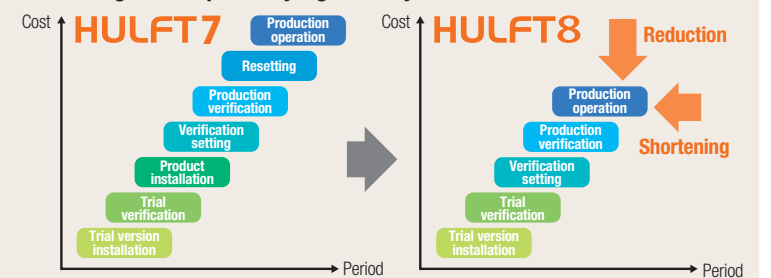**Tuning is unnecessary before transfer goes into production!**

Product installation → Communication verification → Transfer setting verification → ~~Tuning based on request~~ → Communication verification

Strengthened Operability

Loaded with transfer test function that does not affect the production environment Migration from test environment to production environment in trial version is simplified

When implementing transfer test, HULFT8 can individually designate the operating range such as job execution and log record output. By designating the range that does not affect business, testing that does not suspend the production environment is possible such as when changing the setting of HULFT. Retesting is unnecessary since the replacement of modules do not occur during the time of migration from the trial environment to production environment that uses trial version. There is substantial contribution towards the reduction of operational cost as a result of the simplification in verifying and installing process.
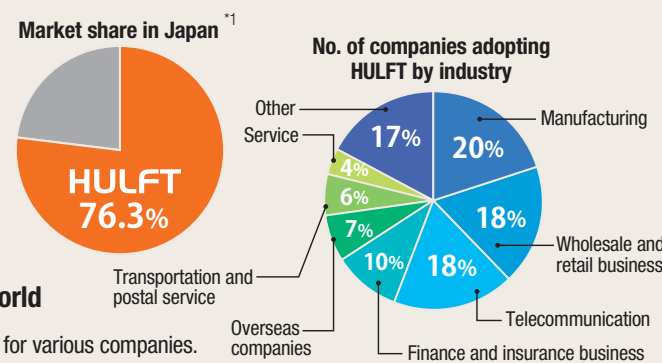
Strengthened operability significantly contributes toward cost reduction!

Enhanced Security

Strengthening data security and access authorization control

Implementing stronger data loss prevention measures over the network, the security of internal data communication has been reinforced. In addition, the access authority setting of HULFT has been newly linked to the authority setting of an OS. More stringent access control has become possible.

Improved Failure Recovery

Supports rapid solution during occurrence of problem

Error messages and the manual have been entirely revised in HULFT8, and its search capability has improved, making it easy to find the cause. As a result, even if there are any flaws or doubts, the problem is resolved immediately. This contributes to the reduction in failure recovery time.

Multifaceted Quality Improvement

Compatibility with former versions is secured

180 functional improvements have been implemented for HULFT8. We are always applying customers' requests for enhancements and striving for better quality. Since the compatibility with former versions is maintained, migration to HULFT8 can be made without substantial changes made to the current system composition.

Improved Integration

HULFT Script
HULFT8 Optional Product

Without being dependent on the users' skills, processing of pre- and post- file transfer can easily be created by GUI

There is always data processing during the pre- and post- file transfer, and programming is necessary by batch file and shell script. When HULFT Script is utilized, business processing can be speedily built through GUI which will decrease the burden of the IT engineers and contribute to cost reduction too. Furthermore, since the Script can generate specifications that allow documenting jobs for enhanced management, operations are made more visible and the necessity to depend on individual skills is eliminated.

Ideal for enterprises promoting internal standardization that does not rely on batch shell scripts and other solutions dependent on individual skills
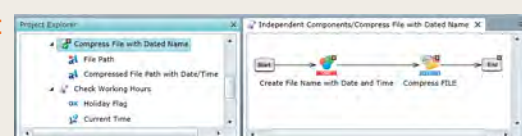
Characteristics of HULFT Script

- Eliminates the time needed to create the programs for pre- and post- file transfer processing.
- Can quickly implement pre- and post- file transfer processing from 12 types of templates.
- Eliminates dependency on individualized skills as a result of specification generation of a created script.
- Seamless application interface with the Enterprise Application Integration (EAI) middleware "DataSpider Servista."

Script

Mapping

The templates of HULFT Script realize high productivity and visible operation!
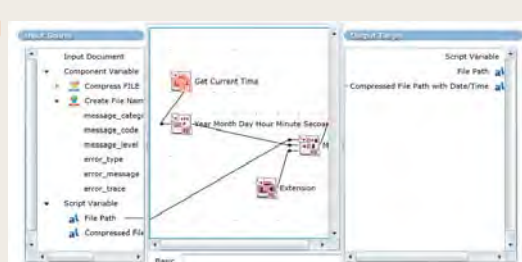
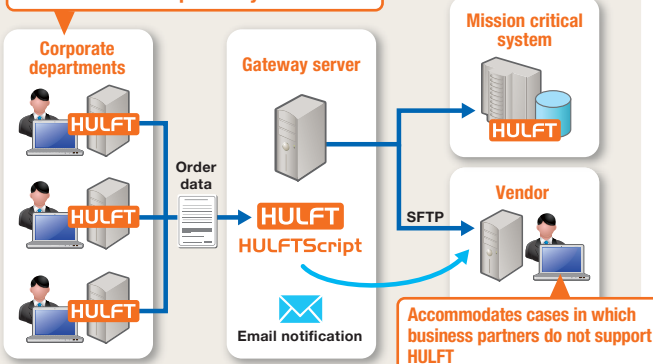|	
File sending template	Send all files inside the folder, send specified file
Post-sending template	Email notification of unsuccessful transfer, compression and email attachment transmission, compression and deletion of old files
Operating template	HULFT startup, HULFT suspension, HULFT reboot, limited time and start-up processing suspension, time-frame determination, compression to a file name with date, deletion of files before specified date.

HULFT Script can be used to establish a data integration environment combining SFTP/FTP and HULFT

An SFTP/FTP function has been added to HULFT Script to cater to customers who wish to use FTP in some systems, and those who wish to shift from FTP to HULFT in phases. With this addition, it is now possible to link HULFT with SFTP/FTP.

Features of HULFT Script

- Can be linked with SFTP/FTP servers without altering the HULFT environment.
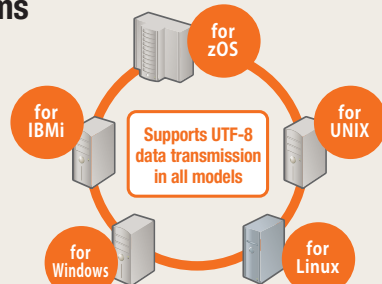- Compatible with Windows, Linux, zLinux, and UNIX.

Can deploy HULFT in phases even in an environment that primarily uses FTP

Corporate departments
Gateway server
Order data
Mission critical system
Vendor
SFTP
Email notification

Accommodates cases in which business partners do not support HULFT

HULFT8 topic: Multi-platform support

HULFT8 exhibits its true worth in an environment with different operating systems and languages

HULFT8 supports UTF-8 file transmission in all models, enabling smooth data integration in a multi-platform environment including zOS, IBMi, and Windows, with no need for code conversion, even in languages other than Japanese and English. HULFT8 functions available in Windows and UNIX/Linux versions are now fully supported in zOS/IBMi versions as well.

for zOS
for IBMi
for UNIX
for Windows
for Linux

Supports UTF-8 data transmission in all models

Product	Version	Supported operating systems
HULFT8	Ver.8	Windows
		Linux/zLinux
		UNIX
		zOS
		IBMi
HULFT Script	Ver.8	Windows
		Linux/zLinux
		UNIX
HULFT8 Manager	Ver.8	Windows

* Please see page 8 (back cover of this catalog) for primary functions of each product grade.

What can you do with HULFT Script?
Solve Data Transfer Issues with HULFT Script!

Quickly implement convenient processes to solve your data transfer needs

HULFT is a tool specialized for file transfer.
Usually, there are a few processes that need to be performed before and after file transfer.
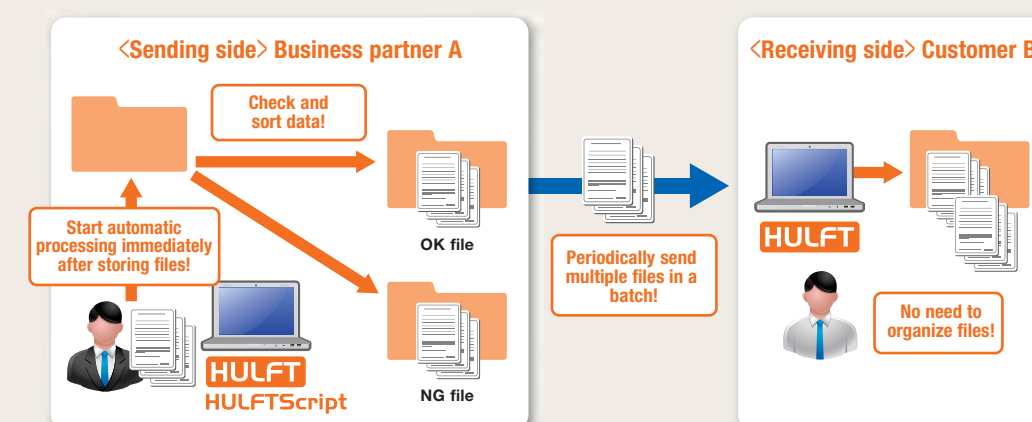HULFT Script handles such processes for the user.

HULFT Script
- HULFT-related processes
- Infrastructure-related processes

HULFT Script Case Study ①
Automatically send multiple files in a batch

- HULFT installed on the customer's side can automatically transfer files simply by saving the files in a designated folder.
- HULFT Script interfaces with an external application to check data and send multiple files in a batch.
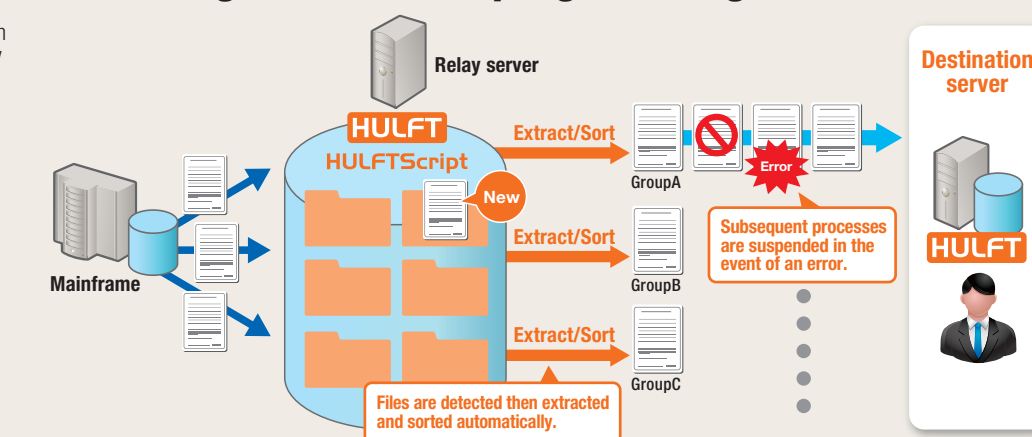
⟨Sending side⟩ Business partner A
Check and sort data!
Start automatic processing immediately after storing files!
OK file
NG file
HULFT / HULFTScript

⟨Receiving side⟩ Customer B
Periodically send multiple files in a batch!
No need to organize files!
HULFT

HULFT Script Case Study ②
Significantly reduce development man-hours by eliminating the need for programming!

- Simply save files in a folder on a relay server to automatically extract and sort transfer files!
- HULFT Script can be used to create a script that suspends subsequent transfers in the event of a transfer error and prevents overrun.

Relay server
Destination server
Mainframe
HULFT / HULFTScript
New
Extract/Sort — GroupA
Extract/Sort — GroupB
Extract/Sort — GroupC
Error
Subsequent processes are suspended in the event of an error.
HULFT
Files are detected then extracted and sorted automatically.

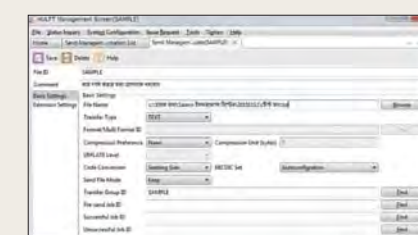### HULFT8 topic: Multi-language support

Localization for Chinese users

Optional 24-hour support provided all year round in Japanese, English, and Chinese enhances convenience for overseas users.

Text on management screens can be switched to simplified Chinese. Code conversion in simplified Chinese is also possible.

Supports operating system environments in languages other than Japanese and English

Messages, comments, and file names in HULFT can be displayed in the same language as the system locale of the operating system.