

Providing secure intra/inter-corporate data interface

HULFT7e

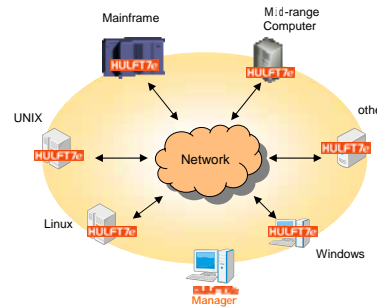
SAISON INFORMATION SYSTEMS CO., LTD.



What is HULFT ?

- HULFT is middleware that performs various functions based on the TCP/IP protocol, including file transfer, between platforms connected to each other via a network. It can be used for platforms connected via a LAN. The introduction of HULFT allows companies to exchange data securely and easily between machines using different code systems and file systems. It also offers a smooth shift from centralized processing based on mainframe computers to decentralized processing based on open systems and allows smooth data exchanges between networks. Having been incorporated by more than 6,400* companies in Japan as de facto standard file transfer software, HULFT offers strong support for information system construction in the high-speed, large-capacity network era.

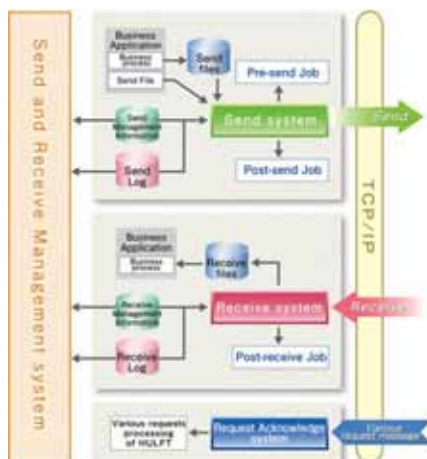
*: as of Sep 30, 2009



HULFT allows companies to exchange data securely and easily between machines using different code systems and file systems



Overview of HULFT System



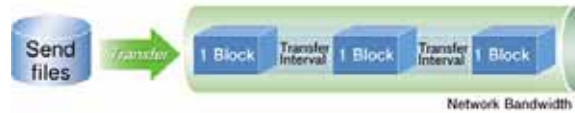
- HULFT consists of the Send system, the Receive system, and the Request Acknowledge system, as well as the Send Management system and the Receive Management system. The Send system, the Receive system, and the Request Acknowledge system send files, receive files, and handle requests from the other hosts, respectively. The Send Management system and the Receive Management system are responsible for updating the settings for the sending and receiving processes and managing HULFT environment.



Reduce loads on your Network

Intermittent Transfer Reduce loads on your network

- You can use the Send Management Information to specify a transfer interval for each block of transfer data. This allows you to transfer files without occupying the network.



Data Compression Transfer Reduce loads on your network

- You can use a unique compression method offered by HULFT to compress data for efficient file transfers. You can use the Send Management Information to specify whether or not to compress data on a file-by-file basis.



Automating the operation

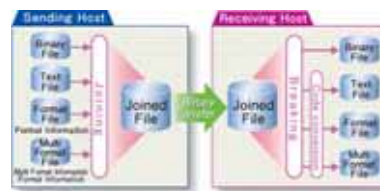
Multicasting Automating the operation

- You can send the same Send files to multiple hosts by issuing a single request. You can register up to 1,000 hosts.



Batch Transfer of Multiple Files Automating the operation

- You can transfer multiple files by one operation.

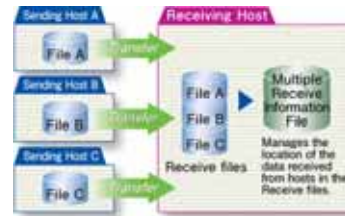




Automating the operation

Simultaneous Receive from Multiple Locations Automating the operation

- You can receive data items of the same type from multiple remote hosts using the same file ID and append them to one Receive file.



Generation File for Receive Files Automating the operation

- If you intend to keep previously received files, you can store them in the Generation file. You can specify up to 9,999 generation file counts.



If an error occurs during data transfer, the data is recovered

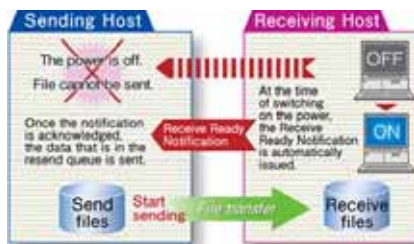
Resend from Checkpoint Recovering data if an error occurs during data transfer

- If an error occurs during data transfer, it is possible to resend from the point where the error occurred by issuing the Resend File.



Receive Ready Notification Recovering data if an error occurs during data transfer

- The host on the receiving side can be configured to notify remote hosts that it is in ready-to-receive state.

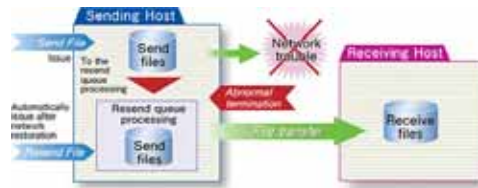




If an error occurs during data transfer, the data is recovered

Resend File / Resend Request Recovering data if an error occurs during data transfer

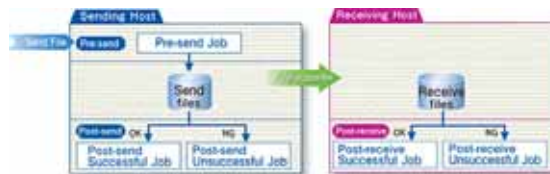
- Only if a problem occurs with the transfer, HULFT can automatically execute the resending process after the network is restored.
Also, in cases where the receiving host could not receive a file due to a trouble, the Resend Request can be issued to re-activate the sending process of the remote host.



Enabling smooth interfacing with business process

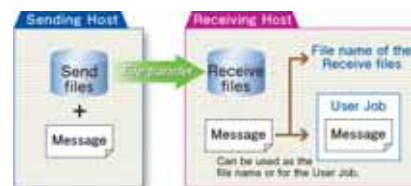
Startup of Pre-send Job or Post-send / receive Job Enabling smooth interfacing with business process

- Registered jobs can be activated before and after the sending process.



Message Transmission Enabling smooth interfacing with business process

- When transferring a file, you can attach a message separately from the file details. The message can be used as the file name of the Receive file or the value for the subsequent jobs.



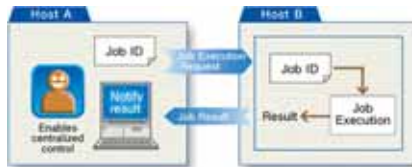


Enabling smooth interfacing with business process

Remote Job Execution

Enabling smooth interfacing with business process

- You can remotely execute jobs of other hosts. This enables centralized control of the routine jobs in a distributed environment.



Transfer Data Formats

HULFT7e supports a variety of data transfer formats

Binary Data Transfer

- No code conversion is made when data is transferred.

Text Data Transfer

- Code conversions are made when files consisting of alphanumeric and/or kanji characters are transferred.

Format Transfer

- The format is defined when data is transferred in the cases where each record is fixed format data.

Multi Format Transfer

- The record keys and formats are defined so that each record is converted with the format appropriate for it and transferred in the cases where the record has multiple formats within a file.

* To receive data in the CSV or XML format, the format transfer or multi format transfer must be used.



Code Conversion Types

Supporting code systems for multi vendor environments

- HULFT7e can convert EBCDIC, ASCII, UTF-8 and other code schemes to different ones.



Detecting interception, leakage, missing and alterations of transfer data

Proprietary Secret-key Encryption Employed
 Detecting interception, leakage, missing and alterations of transfer data

- Transfer data can be encrypted with 160-bit level secret keys on a file ID basis. In addition, our proprietary protocol is used to transfer data over networks.



Improved Data Verification Accuracy
 Detecting interception, leakage, missing and alterations of transfer data

- HULFT7e verifies the consistency between the data received and data sent by verifying the data using hash values created from the transfer data. This allows you to detect missing or altered data.





Identifying and preventing unauthorized accesses and operational errors

NEW Automatic Management of Detailed Operation Log

Identifying and preventing unauthorized accesses and operational errors

- In response to the J-SOX (Japanese version of the Sarbanes-Oxley Act), HULFT7e automatically manages the detailed File Access Log and Command Execution Log. This allows you to keep the detailed Operation Log to identify Who, What and When.



NEW Control of Job Execution Request Acknowledge

Identifying and preventing unauthorized accesses and operational errors

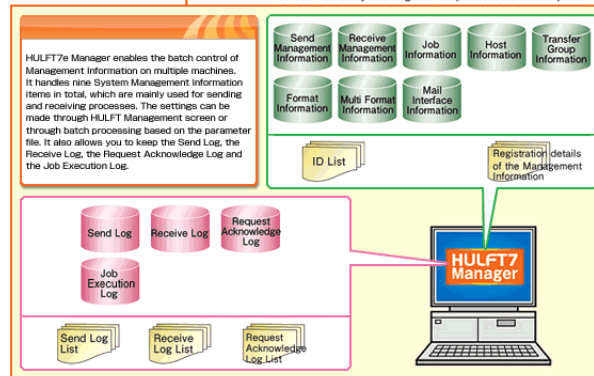
- You can configure the host on the request acknowledge side to control job requests and file transfers for each host.



System Management Functions



You can view every exchange at multiple locations and/or platforms.





System Management Functions

- **Send Management Information**
Manages the attributes and transfer conditions of send files. You can specify whether or not to use the compressed data transfer and intermittent transfer options.
- **Receive Management Information**
Manages the attributes and other information of the Receive files. You can make settings for multiple receive, Generation file and other options.
- **Job Information**
Manages Pre- and Post-send Job, Post-receive Job, and jobs used to execute Remote Job.
- **Host Information**
Manages the remote host information.



System Management Functions

- **Transfer Group Information**
Manages the information on remote host grouping. Each group can include up to 48 hosts for the i5OS (IBM i) or up to 1,000 hosts for the other models.
- **Format Information**
Manages the information on the file record formats used for the format transfer. You can set up to 1,000 fields.
- **Multi Format Information**
Manages the information on the file record formats used for the multi format transfer. You can specify up to 20 keys and format IDs.
- **Mail Interface Information**
Manages the information used to perform mail interface (for Windows only).



System Management Functions

- **Send Log**
Allows you to check information such as dates and times of sending through HULFT, status codes of sending processes, data sizes and file names.
- **Receive Log**
Allows you to check information such as dates and times of receiving through HULFT, status codes of receive processes, data sizes and file names.
- **Request Acknowledge Log**
Allows you to check the acknowledge dates and times of requests from other HULFT and/or HULFT Manager, source host names, request details and status codes of request acknowledge processes.
- **Job Execution Log**
Allows you to check the names, start times and end times, and status codes of the jobs executed after sending and receiving processes.



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