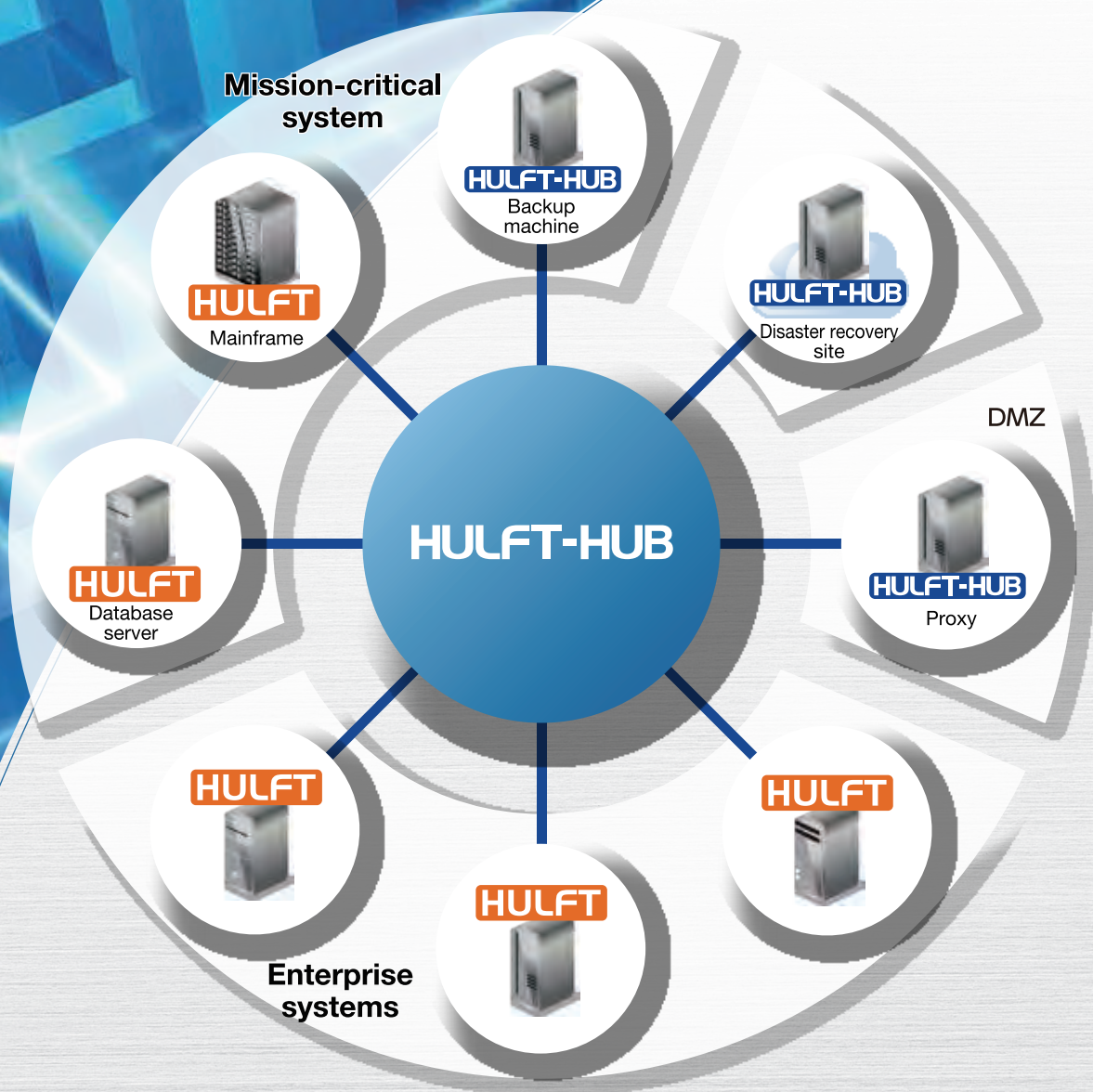


Further optimize and automate the operation management of HULFT!

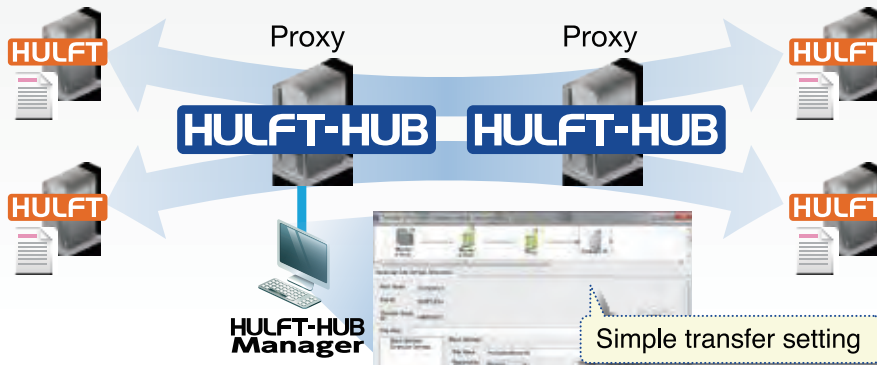
HULFT-HUB



Combine with HULFT to Create a Data Integration Solution Tailored to Customers' Needs

4 Key Features of HULFT-HUB

Relay

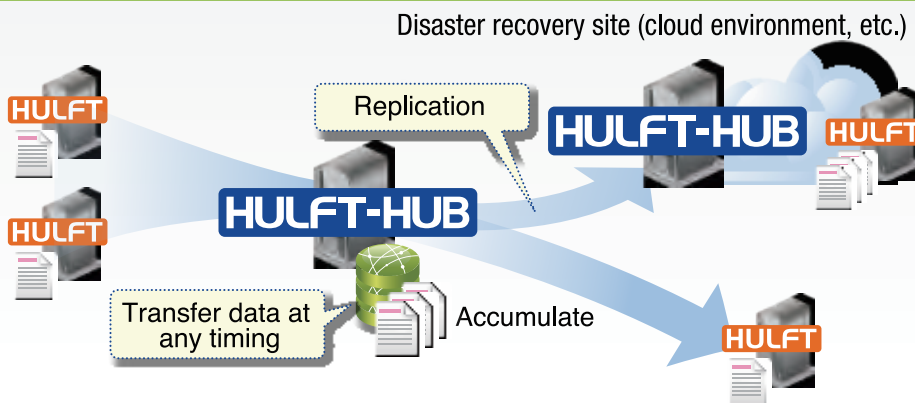


Relay without intermediate files!

With relay and multicasting functions that handle only communication storing no data on files, security has been enhanced for both transfer and operation management. This can be used as a HULFT transfer proxy.

- Prevention of information leakage from DMZs and relay servers
- Blocking and logging unauthorized communication
- Reduced load and improved performance

Accumulation

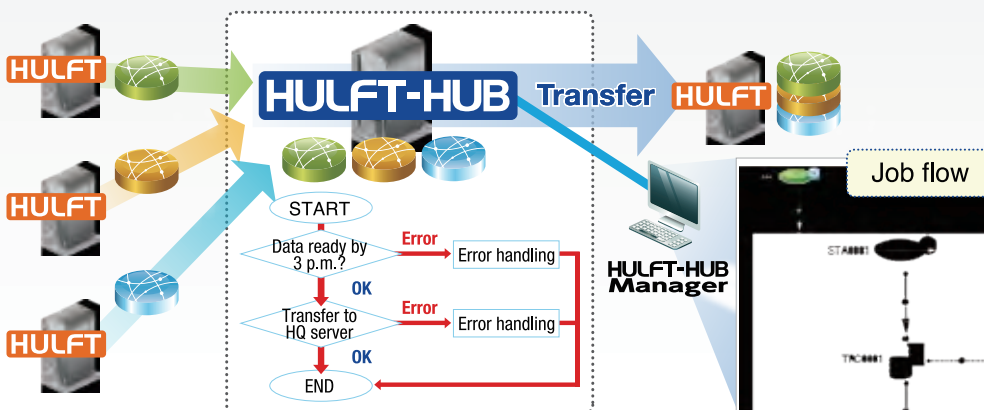


Accumulate and transfer data!

Relay files can be accumulated on the HUB server. This enables various control, such as temporary accumulation only when files cannot be transferred to the receiving side, and sending accumulated files in order.

- Sequencing and prevention of duplicate transfer
- Automatic resend upon detection of receive startup
- Capacity, generation, and deadline management

Processing



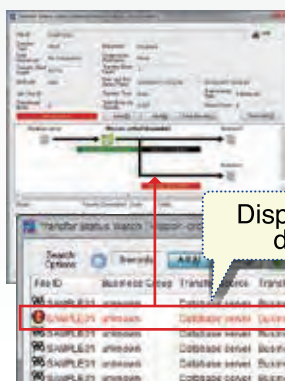
Automate processing with job flow!

Execution can be controlled using a pre-defined job flow. Supports branching based on the result of execution at each step, and in the event of an error, the job can be re-executed from a specified step.

- Automation of flow processing
- Data waiting and processing
- Monitoring of transfers scheduled for processing

Management

HULFT-HUB Manager management screen Transfer monitor screen



Display error details

Visualize operational status of HULFT!

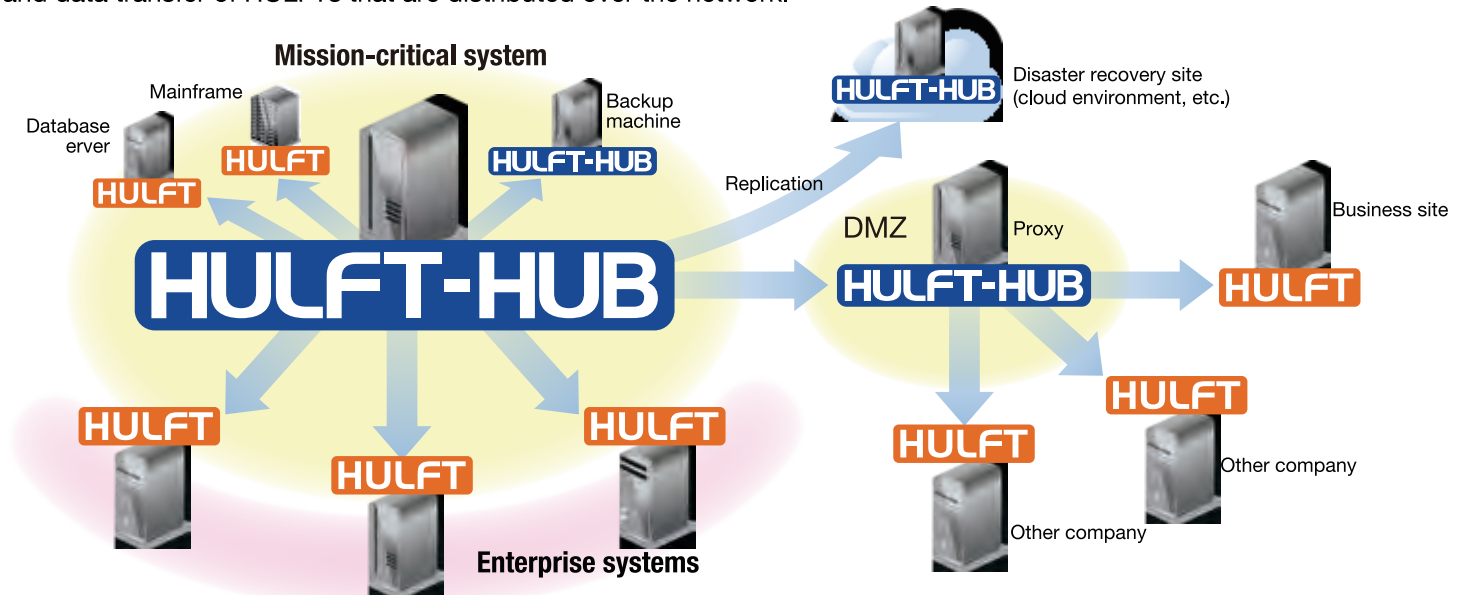
Configuration and operational status of individual HULFTs can be aggregated and centrally managed using **HULFT-HUB Manager** and utilities. Also enables batch setting of **HULFT** and operational labor saving.

- Operating HULFT status identification
- Storage/distribution of all HULFT settings
- Monitoring/displaying operational status of all HULFTs

Deploying HULFT-HUB Facilitates Data Integration between HULFTs!

HULFT and HULFT-HUB combined offer huge benefits!

HULFT-HUB enables centralized management of data transfer operations. Through integrated management of **HULFT**, it brings various benefits that facilitate operation by visualizing the configuration, operational status, settings, and data transfer of HULFTs that are distributed over the network.



Visualize system configuration, settings, and status

The environment, operational status, settings, and data transfer status of all **HULFT**s can be viewed on a management screen.

Automate and streamline operation

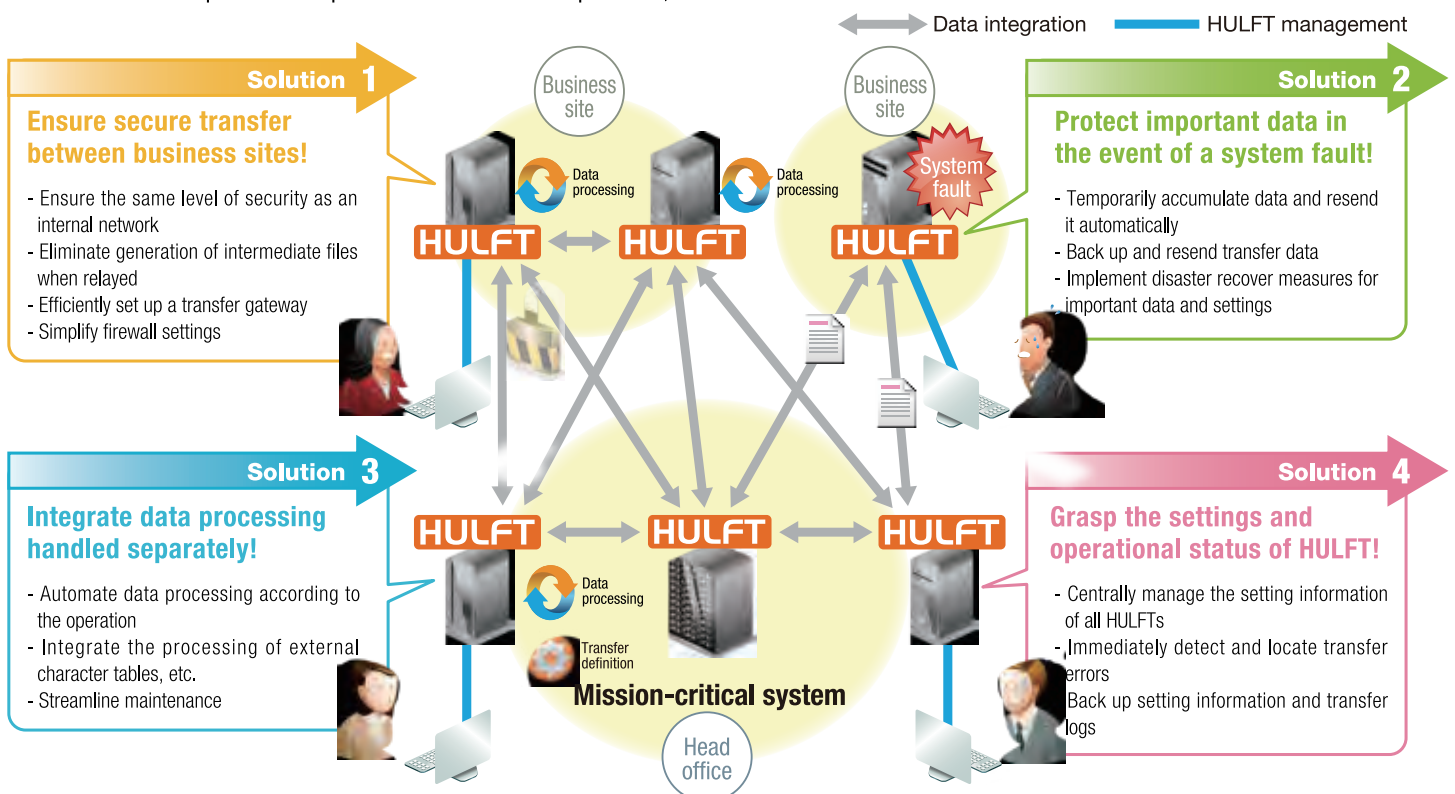
File transfer settings and operation are streamlined. Files can be received automatically according to the operational status of relay servers and **HULFT**.

Backup and disaster recovery countermeasures

Relay data is accumulated in case of a system fault and other incidents. **HULFT-HUB** will efficiently resend files according to the original transfer sequence and save important data to a disaster recovery site.

HULFT-HUB helps solve various issues that cannot be addressed with HULFT alone

The basic function of **HULFT**, which is designed for data integration between systems, is one-to-one transfer of files. As file transfer relationships are multiplied and become complicated, new issues will arise.



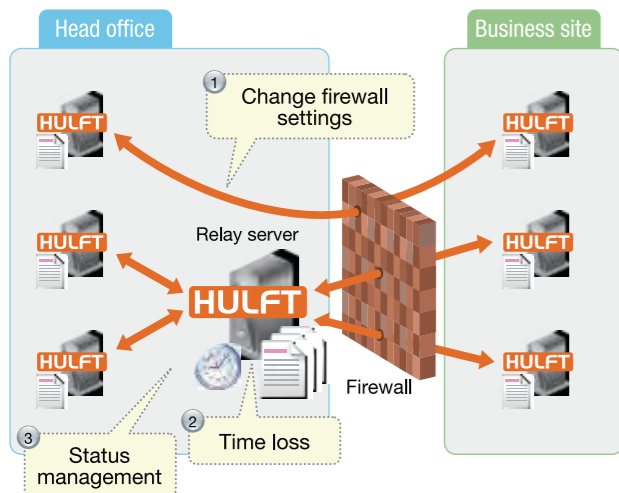
HULFT-HUB solves various system issues and creates new value utilizing HULFT.

Solution 1

Realize secure and speedy transfer

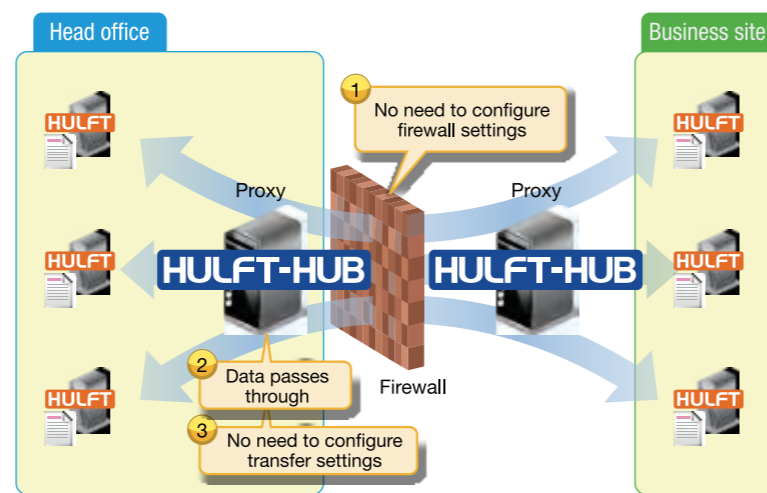
When communicating through a firewall, settings will need to be changed every time **HULFT** is installed on a new computer. Using **HULFT-HUB** as a proxy makes changing firewall and relay server settings unnecessary! The processing load, time loss, and risk of information leakage due to the generation of intermediate files will all be eliminated.

Operation with HULFT



- ① Firewall settings need to be changed each time HULFT is added or reduced
- ② Time required for transfer increases with the sending and receiving of files
- ③ Management of settings and status of transfer to a relay server by operation

Operation with HULFT-HUB



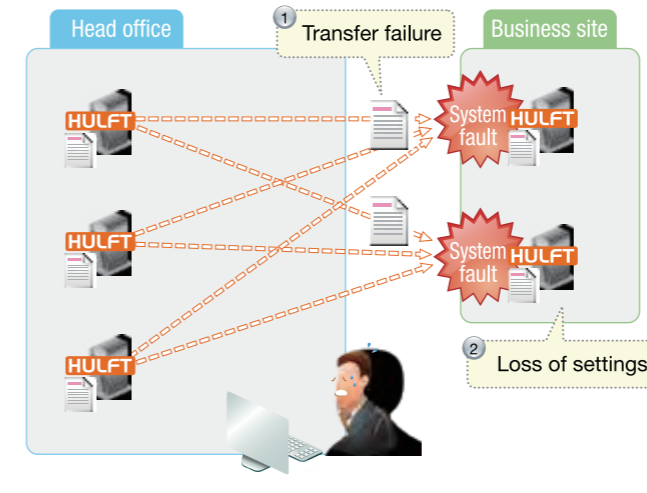
- ① Firewall settings not affected by a change in the number of HULFT installations!
- ② Data passes through without generating intermediate files. The transfer time is also considerably reduced!
- ③ **HULFT-HUB** installed on a relay server requires neither transfer settings nor status management!

Solution 2

Protect data in the event of a fault or disaster, and support data receiving operation

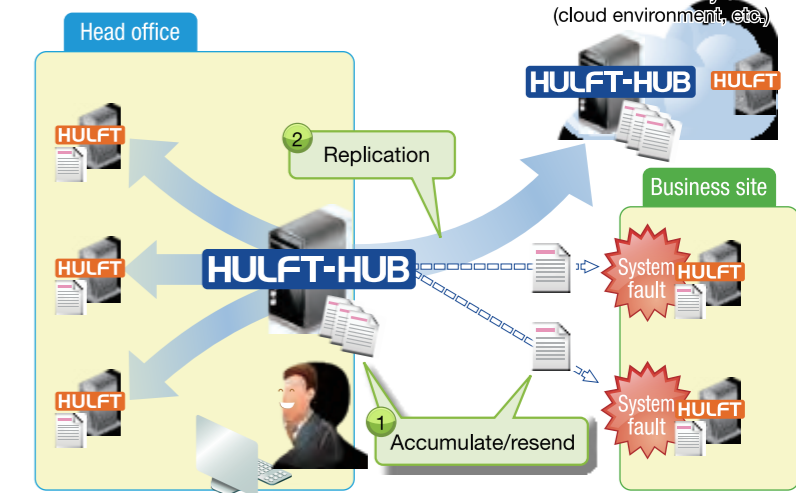
When data cannot be sent to **HULFT** installed at a business site due to a system fault, **HULFT-HUB** will accumulate and protect the data. In addition, its replication function can serve as a simple disaster recovery measure. Resend control, which is activated when processing fails on the receiving side, is a very useful function even in normal operation.

Operation with HULFT



- ① A failure of data transfer due to a system fault will cause even the sending side to halt operation
- ② HULFT settings and important data are lost because no backup is made

Operation with HULFT-HUB



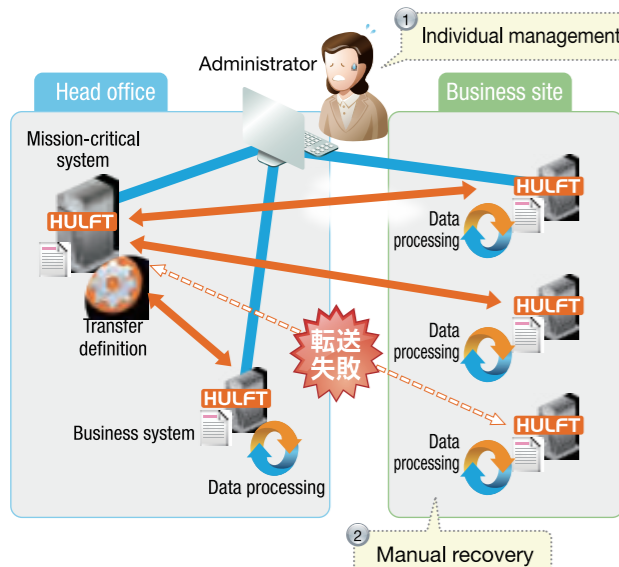
- ① Transfer data is accumulated on **HULFT-HUB** in the event of a system fault and quickly resent upon recovery!
- ② HULFT settings and important data are backed up with a replication function!

Solution 3

Integrate data processing handled separately

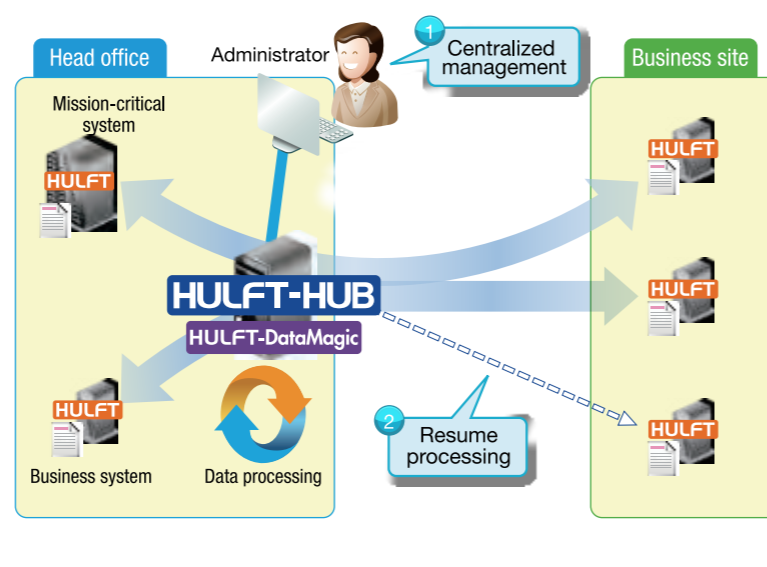
By integrating data processing handled at each business site on **HULFT-DataMagic**¹, which is interfaced with **HULFT-HUB**, data processing can be centrally managed, and operation load can be reduced. Further, job flow can be used to automate processing, increasing work efficiency as a result.

Operation with HULFT



- ① Operation load increases due to data processing at each business site
- ② Processing and transfer failure recovery are handled manually each time

Operation with HULFT-HUB



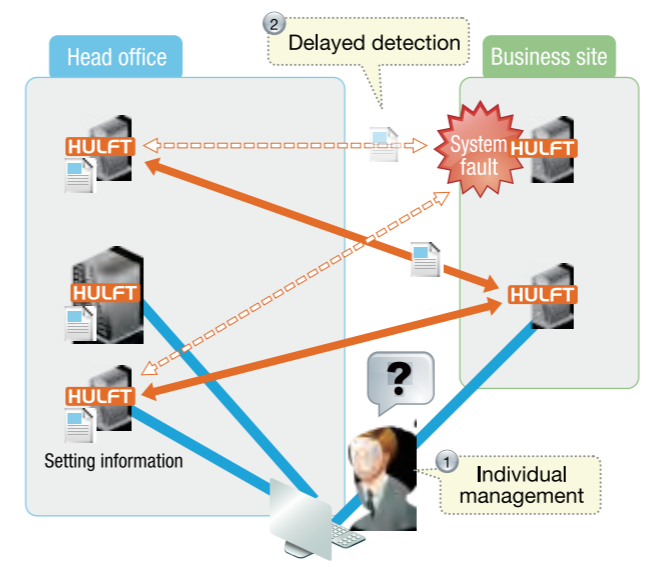
- ① Data processing is handled centrally in a bundle to dramatically reduce operation load!
- ② Processing is automated using job flow and can also be resumed!

Solution 4

Visualize the operational status to enhance operation efficiency

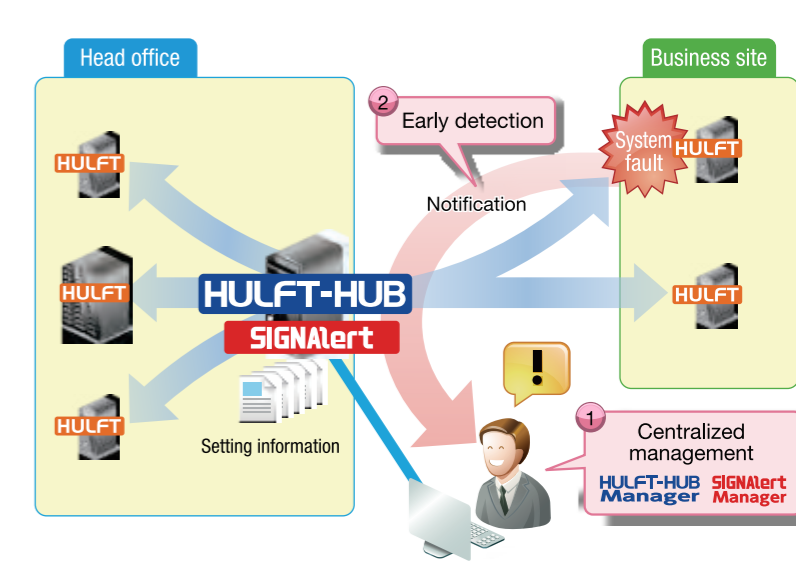
Through integrated management of the distributed **HULFT**, operation load can be significantly reduced. Further, any errors can be detected early and faults can be located promptly using **SIGNALert**, which monitors the status of **HULFT**, thereby enhancing the security of data transfer.

Operation with HULFT



- ① No simple means to survey the entire network to identify any problem in individual data integration
- ② System fault cannot be identified in real time

Operation with HULFT-HUB



- ① The presence and status of **HULFT** are centrally managed in a bundle, reducing operation load!
- ② Errors and faults can be instantly detected and identified, enabling quick response!

¹: HULFT-DataMagic is a tool for performing data conversion required in the course of work, including batch conversion of existing formats and extracting only necessary data and storing it in a database.

²: SIGNALert is software for monitoring faults in applications, operating systems, hardware, and networks. It monitors the operational status of HULFT and notifies the administrator in the event of an error using the specified method.

■ Main functions

<Select from 2 grades> HULFT-HUB Server is available in 2 grades: an "L grade," which is limited to HULFT integrated management functions, including the identification of file transfer status and batch change of settings, and an "ENT grade," which offers accumulation, job flow execution, and other advanced functions in addition to the HULFT integrated management function. Customers can choose a grade suited to their needs. For Windows, only the L grade is available.

Function				Overview/usage scenario		L grade	ENT grade		
Relay	Relay/multicasting of data transfer	Relay		Passes through HULFT-HUB Server, and establishes a proxy gateway to each HULFT without storing any data on disk		—	●		
		Multicasting		Passes through HULFT-HUB Server, and controls server load and traffic through multicast data transfer to multiple sites					
		Security	Communication encryption		In addition to encryption of data transfer between HULFTs, data transfer between HULFT-HUB Servers is also encrypted (HULFT encryption, C4S, AES)				
			Setting management, transfer error prevention		When files are not accumulated, HUB servers do not require a definition for each file ID. This eliminates the load of operation management and the risk of setting errors at the same time				
			Management integration, permission control		HULFT-HUB serves as a proxy gateway for data communication, and it enables management and navigation of remote sites without altering the structure				
		Connection host authentication		Blocking and logging unauthorized communication by relaying only registered HULFTs		—	●		
		Accumulation method setting		Operation such as indicating whether accumulation is needed can be easily set just by selecting a processing mode. No need to think up unique file names to prevent overwriting					
		Transfer sequencing		Controls the arrival of data from the sending side to the receiving side according to the data transfer start sequence. This sequence is replicated in controlling transfer even when resending multiple accumulated data. This functions simply by specifying items that must not be overtaken when configuring accumulation settings.					
		Accumulated data status management		Prevention of double transmission of the same data, number of transfers, and status control of accumulated data to enable resending of successfully transferred data					
		Automation of recovery operation		Generation management, capacity management, and storage period control to streamline management of accumulated data storage					
Accumulation	Accumulation control and storage management			A function that automatically sends data when it is detected that the destination is ready to receive		—	●		
				Client hold for temporarily suspending transfer due to maintenance, etc., on the receiving side					
Processing	Process automation/aggregation	Job flow		Manages the execution of jobs on a HULFT-HUB Server The job content and sequence of execution are defined by GUI and automatically executed according to the definition. A rerun function for resuming from the specified step		—	●		
		Trigger	Scheduler		Use the calendar function to set a schedule and activate jobs according to the defined schedule				
			Waiting for event	Detection of file creation				Waiting for file generation to activate a job	
				HULFT transfer file accumulation				Waiting for arrival of transfer files from HULFT to activate a job	
				Utility execution				A job is activated when an event notice is received from other jobs or the management tool of other jobs	
		Execution job		Transfer request to each HULFT				Execute requests (send requests) to transfer files from a HUB Server to each HULFT	
		Management	System configuration management	Neighboring server configuration				Even when using multiple HULFT-HUBs, the overall configuration, settings, and logs are centrally aggregated	
Aggregation of the latest status of HULFT environment	Configuration management, identification of environmental status			Management of the configuration of a HULFT environment that is actually operational, including the HULFT model, version, port number, etc.					
Identification of the state of HULFT	Identification of the operational status and machine environment of HULFT		Confirmation of the operational status of HULFT, server's host name and operating system information, and display with an optional server name, etc.						
	Identification of the license status of HULFT		Output of a list showing the versions, option information, and other license information of HULFTs under management						
Management of HULFT and HULFT-HUB settings	Editing of management information		"Transfer Information Screen," a GUI screen where each HULFT's send and receive management information can be batch configured without inconsistency						
	Batch operation of management information		The full management information of all HULFTs is output to a CSV file via a GUI screen or command						
			Management information is batch registered, changed, or deleted for a number of HULFTs from a CSV file, via a GUI screen or command						
			Past management information is automatically stored by generation, and the information can be referenced or restored according to the type, host name, and backup date						
Transfer status and transfer log management	Inquiry of sending and receiving status and transfer results		Each HULFT and HULFT-HUB server's system operation environment settings can be referenced or changed						
	Automatic log backup		Instead of just HULFT-HUB servers, each HULFT's transfer status and transfer results are centrally displayed and can also be output in CSV format						
Security	User authentication		Daily log backup is performed automatically, transfer logs can be output in CSV format, and data is stored by generation						
	Access permission setting management for each operation		Single sign-on to each management HULFT by users with operation permission						
	Output operation log		User access management by host file for each operation group						
Availability	Fault tolerance, disaster countermeasures	HA cluster support		Output a log of evidence of HULFT transfer requests and management information operation, such as "who did what, when, and where"		—	●		
		Alternative function		Support high-availability-type cluster environment and increase availability					
				Replication that realizes successive synchronization of accumulated data					
				Periodic synchronization and replication of management information					
		Successive synchronization and replication of transfer logs							
		Synchronization interval and other settings can be changed and cancelled dynamically							

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

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