

# HULFT Data Management Solution



# HULFT Move knowledge. Move markets.

Information, guiding the way to a future that supports human decision-making and prompts us to action. HULFT, by connecting data freely, provides a path to discovery/understanding/conceptualization and transforms that into valuable information.

The information you want, the way you want it, in your hands instantly.

HULFT helps you achieve the data utilization that supports your conceptualization of how you want to manage business and markets.

ファイル転送ツール

HULFT

9年連続 国内シェア

#### **Sales Achievements**

## **Reliability and achievements** supported by many customers

HULFT, with the #1 highest sales share in Japan, and DataSpider, a data integration middleware with a collective total of installation by 3,000 domestic and overseas companies, are both highly evaluated by customers.

\*Source: Fuji Chimera Research Institute, Inc. Package Solutions Marketing Handbook 2004-2010. New Market of Software Business FY2011-2022 Version <file transfer tool package, monetary base> Sales achievements FY2003-2021

#### **Globally Compatible** -

### HULFT can safely be used even overseas

Sales achievements for global use of HULFT Installed in 46 countries and over 10,000 companies worldwide

Saison Information Systems Co., Ltd. and overseas business sites: 9 business sites

HULFT sales agents: 18 business sites

Countries with HULFT users: 46 countries (As of 2022)

Fortune Global 500

Source: Fortune Global 500 from 2022



## HULFT that is chosen for its total quality

HULFT quality born from thorough development and testing



\*Software code defect rate per shipped license during

2022/3 (HULFT8 products)

Member banks of Japanese

**Bankers Association** 

100%

rate of installation

members) posted on the homepage

for the Japanese Bankers Association

\*Based on all member banks (full

Number of test mplementations before release 200,000

items

\*Resolution rate at Level 1 technical support as of 2022/3 (HULFT8 products)

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Member companies of **Japan Automobile Manufacturers Association** 

#### 100% rate of installation

\*Based on the members posted on the homepage for the Japan Automobile Manufacturers Association



#### **Connected data integration tool**

# DataSpider <sup>🕸</sup>

DataSpider is an integration platform that was developed in order to, in system environments with a mix of different types of data in different formats depending on the business purpose or application, realize simplified multi-integration and efficiently develop/operate applications that include data integration.

#### Features

## "Connection" without the need to build anything

No data integration for each system and no specialized skills or knowledge are required! You can link each system by drag and

drop.

## Many choices for connection destinations

A multitude of adapters are available, with over 50 types including the obvious major databases and applications as well as major cloud services.

#### High-speed processing of large-volume data

Break up the execution of operations su as data extraction, conversion, and writi in order to process them more efficiently Realize high-speed processing of large-volume data.

#### **Utilization as a Data Integration Hub**

#### Before Prior to installing DataSpider

## Data integration requires program development and manual operations for each system



#### "Connection" without programming

14,000 steps of program code condensed into only 13 icons!



#### After After installing DataSpider

03



#### A variety of over 50 connection destinations

Without putting more work into existing systems, expand to different technologies and formats flexibly via connection adapters



#### DataSpider Servista

Please see here for details



#### **Use Case**

#### Case **01** Automate routine daily operations

You can automate repetitive manual operations, such as input of data from Excel files attached to emails to a management system, and devise ways to reduce work hours and shorten processing time.



#### Use **02** Accelerate collaboration via integration with various clouds

Accelerate collaboration both in-house and with external sources by integrating speedily with cloud content management services such as Box and SharePoint.



#### Collect dispersed data in-house and accelerate utilization of data

Collect data dispersed across systems such as mission-critical systems, business systems, and file servers and automatically integrate it into a data lake. Moreover, by integrating with the metadata management platform HULFT DataCatalog, you can accelerate the utilization of data.



#### **Function Overview**

#### Development design tools "Designer" and "Mapper"

#### Designer: Tool to create a data integration process flow

In addition to adapters that input/output data from data sources and the Mapper for data process conversion, a multitude of processing icons that have various functions necessary for programming such as conditional branching, loop processing, and exception processing are provided. Use your mouse to drag and drop icons onto other icons and define the flow of processing. You can control operations in detail by setting the properties for each icon. Also, you can execute scripts created in Designer, perform debugging, and measure the performance of processing.

#### Mapper: Data integration and processing

This is a tool that defines character processing and code conversion. You can configure the settings for various types of conversion and processing of input data.



#### Various triggers to control execution

You can automatically launch data integration scripts created in DataSpider Servista at different times with the trigger function.



#### With an abundance of adapters and logic icons, you are free to extract/convert/process data the way you want

To automate data integration processing between systems, you need to "read and write data" and "convert data" in different formats and to "define a flow". DataSpider eliminates the complexity of how to "read and write data" and "convert data" for different types of "adapter" and enables you to easily "define a flow" that integrates diverse data sources without creating programs.

\*List of adapters for DataSpider Servista (as of September 2022). Please see our website for the latest information.



#### **Function Overview**

#### High-speed processing of large-volume data

#### Dramatically improve the performance of the data joining process

DataSpider Servista functions as a data integration hub that "connects/collects/retrieves" large-volume data in different formats used in various systems inside/outside of the company. Integration processing created with DataSpider Servista is converted to Java. Therefore, you can achieve the coexistence of highly productive development via GUI with a performance capability that is comparable to development with Java.

You can process large-volume data at high speed with a parallel streaming function to divide up reading, converting, and writing for processing and "Multi-StreamConverter (MSC)", a dedicated engine that specialized in conversion processing for large-volume data.



CPU

Data that needs sorting

is merged before writing

#### Powerful support for the development process, from design to operation

Development support functions along the process of design, implementation, testing, and operation reduce the burden on the developer. You can achieve improved productivity.



#### Specification Document



#### Version Comparison Report

Expand to a theoretical nount of CPU resources for conversion processing

Merge (Integrate)



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

Assured and Reliable Support Multiple Platforms



Please see here for details

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

HULFT is a file integration middleware that sends and receives data stored in IT systems, such as sales data produced by corporate activities, customer information, and log data. To enable you to use HULFT as the foundation for your business systems, it comes equipped with a variety of functions such as character code conversion and uses the industry standard TCP/IP protocol to reliably and securely send and deliver various files with different servers, platforms, coding systems, or so on.



#### Use case of HULFT by sales companies

HULFT8



#### Comparison of HULFT8 versus FTP and Development from Scratch

HULFT is developed based on the concept of consolidating all of the processes necessary for file transfers into the settings for HULFT. With HULFT, the development from scratch that is required for FTP is not required, and you can achieve the automation of reliable and secure file transfers.



#### **Basic Functions**

#### Reliable and secure file integration

HULFT file integration is fundamentally performed one-on-one by two hosts. You can issue a request for this file integration either from the host on the sending side or from the host on the receiving side. Additionally, there are a large number of functions available, such as multicasting to transfer one file to multiple sites at the same time, compressed transfers/intermittent transfers that do not take up network resources, and checkpoints to retransfer from the point of an error when sending fails due to an error that occurs during transfer.

HULFT implements encrypted communication according to standard in order to reliably transfer the customer's data.

- Prevention against interception, leakage, loss, and alteration of transfer data
- Utilization of unique encryption in secret key format





#### Sending and receiving data

#### 🛑 Intermittent transfer

You can specify a transfer interval to transfer data in one block units in the Send Management Information. This allows files to be transferred without occupying the network.



#### Compressed transfer

Transfer data is compressed with a method that is specific to HULFT to perform efficient file transfers. You can select whether or not to compress each file in the Send Management Information.





#### Improvement in accuracy of data verification

By creating hash values from the transfer data and verifying the data, the consistency between the data received in the file transfer and the data that was originally sent is verified. Data loss and alteration can be detected.



#### Batch transfer of multiple files

Multiple files can be sent in one transfer process.



## A wide range of supported operating systems and absorption of differences in a variety of character codes to achieve the standardization of inter/intra-corporate file integration

With a wide range of supported operating systems and absorption of differences in a variety of character codes, the standardization of inter/intra-corporate file integration is achieved. Various file types, such as text, binary, and format, are also supported.



Consolidated management of send and receive statuses



#### 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 an automatic tuning function for transfer settings, it achieves a transfer speed which is overwhelmingly faster than 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.



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Simplified creation by GUI of

pre- and post- file transfer processing



#### 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.

#### Automatically send multiple files in a batch!





#### Significantly reduce development man-hours by eliminating the need for programming!

- Eliminate the hassle of building pre- and post- file transfer processing
- Can be implemented quickly with templates Resolve the problem of
- individualization by generating specifications for created scripts



Please see here for details (Japanese only) HULF1 **Realize data transfer/integration** 回點 HULFT8 between on-premises/the cloud simply, 器 **OPTION Cloud Storage Option** reliably, and securely without coding Cloud HULFT Cloud Storage Option is an

optional product that enables you to realize direct file transfers to the cloud with HULFT. You can use existing HULFT settings/operations as-is to realize speedy cloud transfers.



#### Use Case

#### 01 **Data utilization**

Upload data to the cloud and collect dispersed in-house data in a data lake and use it for analysis



#### 02 Data migration/backup

Use for data migration to the cloud, backups to prepare for disasters, or multi-cloud distributed storage



#### Data transfer between 03

Integrate the data that must be stored for a specified period of time reliably and securely with an audit trail



## Realize even greater optimization and automation of HULFT operation management

# HULFT-HUB



Before you even realized it, had your number of HULFTs become quite large and difficult to manage/operate? By installing HULFT-HUB, data integration between HULFTs becomes easier, for the realization of a data integration solution that meets the customer's needs.



#### Use Case

#### Case 01 Centralized control of HULFT

Because you can view the entire HULFT network in a centralized manner, you can understand quickly what is happening and where, and you can clarify the cause of errors and resolve them quickly if they occur.



#### 👷 02 Absorption of changes to transfer schedule

When there are changes to the transfer schedule, such as for maintenance of communication lines, you can automatically store data to send in HULFT-HUB temporarily and then send it automatically when maintenance finishes. You can realize automatic operation for maintenance.



Please see here for details

## A reliable and secure file integration service that you can start easily via the Internet

# HULFT-WebConnect

HULFT-WebConnect is a SaaS-type relay service that enables easy and safe HULFT file transfers over the Internet. Internet connection is all that is required to use HULFT-WebConnect, and existing communication lines can be started using in a short timeframe.



### Solve your data integration problems!

You can quickly and easily implement a data integration platform over a wide area via the Internet at low cost, such as "between remote sites of the company (between overseas business sites and the headquarters, etc.)", "between the company and business partners", and "for integration with cloud services". When you have an environment that can connect to the Internet, you do not need to install new dedicated lines or VPNs. You can also respond quickly to the addition of connection destinations such as business partners.



## Four transfer formats for simplified integration with connection destinations

In HULFT-WebConnect, four transfer formats are available, which you can select from flexibly based on factors such as the environment of the connection destination and the skill of the person in charge. Even in situations where it is difficult to provide HULFT to both the sender and the receiver, you can connect easily and reliably.



#### Data processing & conversion tool

Please see here for details





DataMagic, which supports various types of coding and data formats, is a tool to implement at low cost the data conversion tasks required before and after file transfers with HULFT. By adding the database connection option, you can set various databases as input/output targets, and by combining with data conversion processing and HULFT, you can transfer records in various formats including databases as input/output targets.



#### **Function Overview**

DataMagic provides powerful support for data processing: It is packed full with a host of the outstanding features that system engineers want, including the essential data processing functions - data extraction, item summation, layout conversion, and code conversion.

Character code SJIS BIM JIS EUC NEC UTF-8 KEIS UTF-16 JEF	Input/output Specification of extraction conditions Output location sorting Additional output Updated output	Computation Arithmetic operations Rounding Rounding up Bounding down Output	<ul> <li>Full-width and half-width</li> <li>Western calendar and Japanese calendar</li> <li>Alignment to the right and alignment to the left</li> </ul>
Refer to data from separate targets based on keys and integrate records	Merge Integrate the data of multiple targets. Deletion of duplicate records is also possible.	Replacement is available with flexible character string search via regular expressions	Database         • Oracle       • ODBC         • DB2       • Access         • SQL Server       • FileMaker Pro         • PostgreSQL       • FileMaker Server
Multi-user Multiple users can develop conversion settings with the product at the same time	Specification documents Output conversion logic to specification documents in Excel format and improve maintainability	Step execution You can perform conversion processing development while checking the course of conversion	Switch between JP/EN Switch the display language for the daily settings screen for users

(Japanese only

Please see here for details

## **Data Identification**

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#### A metadata management platform that gives you insight from data

# HULFT DataCatalog

Corporate data assets that keep increasing on a daily basis. HULFT DataCatalog collects and catalogs the information (metadata) for various kinds of data that is managed separately within a corporation. The visualization of location/history and the sharing of knowledge related to data make the searching of data more efficient and support your understanding of the "contents" of the data. Anyone can select data themselves, enabling them to perform business activities more freely.

#### **Features**

## Fire Search for the location of data by keyword

Automatically collect information for various kinds of data existing within a corporation. You can quickly locate the data you want from every different system.

- Data dictionary for understanding terms and their meanings
- Prevent the misuse of data due to misunderstandings caused by non-standardized terminology. Search for data more easily with related terms.

## Visualization of the history of data

Understanding the history of data helps you to determine whether data meets your needs and whether data is reliable.

In HULFT DataCatalog, like a web search, you can easily locate the data that you want. You can also understand the meaning and history of data and related terms, which turns the process of selecting "reliable data" into something you can do yourself. Moreover, by integrating with DataSpider, you can connect this smoothly into the utilization and analysis of the data you discover.



#### **Function Overview**

#### Search and collection of metadata

- A crawler automatically collects the information attached to various kinds of data (the metadata) existing within a company.
- You can search for the data you want from all of the data dispersed here and there within a company (search by synonyms, quasi-synonyms, and related terms is also available).
- Search results are sorted according to a relevance score, and the most probable data is displayed.
   Preview and download of search result data are also available.
- Confirmation of data quality as well as governance checks for personal information and confidential information are also simplified.



#### Data lineage

- Display a visual history of the target data (source, development, linkage source).
- You can understand intuitively from which system the target data was linked and to which systems it is connected.
- By understanding the history of data, you can grasp whether data meets your needs and whether data is reliable, in order to improve the accuracy of judgments based on that data.

\*Data lineage is displayed if you use the combination of HULFT DataCatalog and DataSpider Servista.



#### **Business glossary**

- Standardize the terms used for business and their meanings. Link defined terms with data to prevent misuse of the data due to misunderstanding. Search for data more easily with related terms.
- The linkage of business terms and system terms creates a clear mutual understanding between the business division and the systems manager in relation to data.



#### Data enrichment (evaluation/tags/comments)

Explanations for data and how to use it, points to be noted, and other such knowledge are shared with both data providers and data users so that all company employees can utilize data with the same information.



## **Data Identification**

#### **Use Case**

#### **01** Planning with reliable data (corporate planning)

The analysis of past data is essential to the formulation of business plans for the next term. However, you need to have accurate data for that. By checking the history of data with HULFT DataCatalog, you can select the data you want out of similar data. Shortening of the data preparation period enables you to corporate management.



Share information related to data and eliminate individualization to make a system where anyone can utilize knowledge of data

#### Use **02 Re**

Realization of self-service BI (LOB 1)

By installing HULFT DataCatalog, employees in the sales division and back office can locate the data they need themselves, which enables them to analyze and visualize it in Tableau and Excel (Power BI) or other BI tools. Making a request each time to the IT department is no longer necessary, and self-service BI is realized by LOB (on-site employees).



#### 03 Development of a glossary to prevent misinterpretation (LOB 2)

Bring attention to the meaning of each term itself to avoid communication loss due to the use of different business terms in each department/section. Link defined terms with data to understand the data correctly and prevent data selection errors due to misinterpretation.





More rigorous management of confidential information/personal information (IT department)

By using HULFT DataCatalog, you can check on things such as whether confidential information/personal information is stored in locations that violate policy, and you can strengthen data governance and reduce the risk of information leaks.



# From installation to operation, complete support services are there to help.

## **HULFT technical support services**

We provide you with a full range of support services including "Business Hours Only Technical Support Service" and "24/7/365 Support Service".



\*For 24/7/365 Support Service, the support available on Monday to Friday (17:00 to 9:30), Saturdays, Sundays, holidays, and December 30 to January 3 (Japan time (JST)) is limited to product defects.

\*If the failure of the product is caused by the customer's own error during use or other such reasons outside the scope of technical support, recovery and repair work will be charged separately.

#### Service details

- Support for inquiries related to use of the product
- Repair assistance for product (help desk support)
  - failures • Provision of information related to
  - the product

Latest product edition of the same version is provided free of charge

Information provided on a special technical support website

#### **High quality support**

We strive to improve the quality of our support based on various indications such as the resolution rate at the Level 1 technical support and the resolution rate by next business day.



## **Operating environment**

**Inquiry support** 

We provide you with support services for our products running in the recommended operating environment (operating system, middleware, DB, Java, file system, communication environment, etc.) published by our company.

For the operating environment, please see our website

https://his.hulft.com/productinfo/opeenv/user



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