

Enterprise Data Governance Provided by HULFT

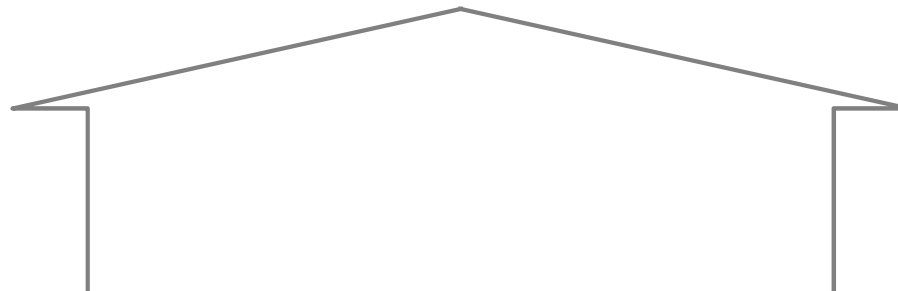
Tomoaki Yoshizaki
Product Manager, Data Integration
Marketing Dept., HULFT Division
SAISON INFORMATION SYSTEMS CO., LTD.



HULFT



Harmonious **U**niversal **L**ink **F**ile **T**ransfer



Host **U**nix **L**inkage **F**ile **T**ransfer

How HULFT Can Contribute While the Value of Data Increases

WITH SPEED

Speed is Advantage.

Contributes to improve the entire gamut of business processes.



Installation Speed

Minimize the period for full-scale operation by reducing testing time and man-hours

Performance Speed

Offers top class data transfer speed for big data and high-volume transfers

Business Speed

Accelerates business efficiency with excellent security and stable operation

Solution Speed

Minimization of losses with prompt and sincere customer and follow-up

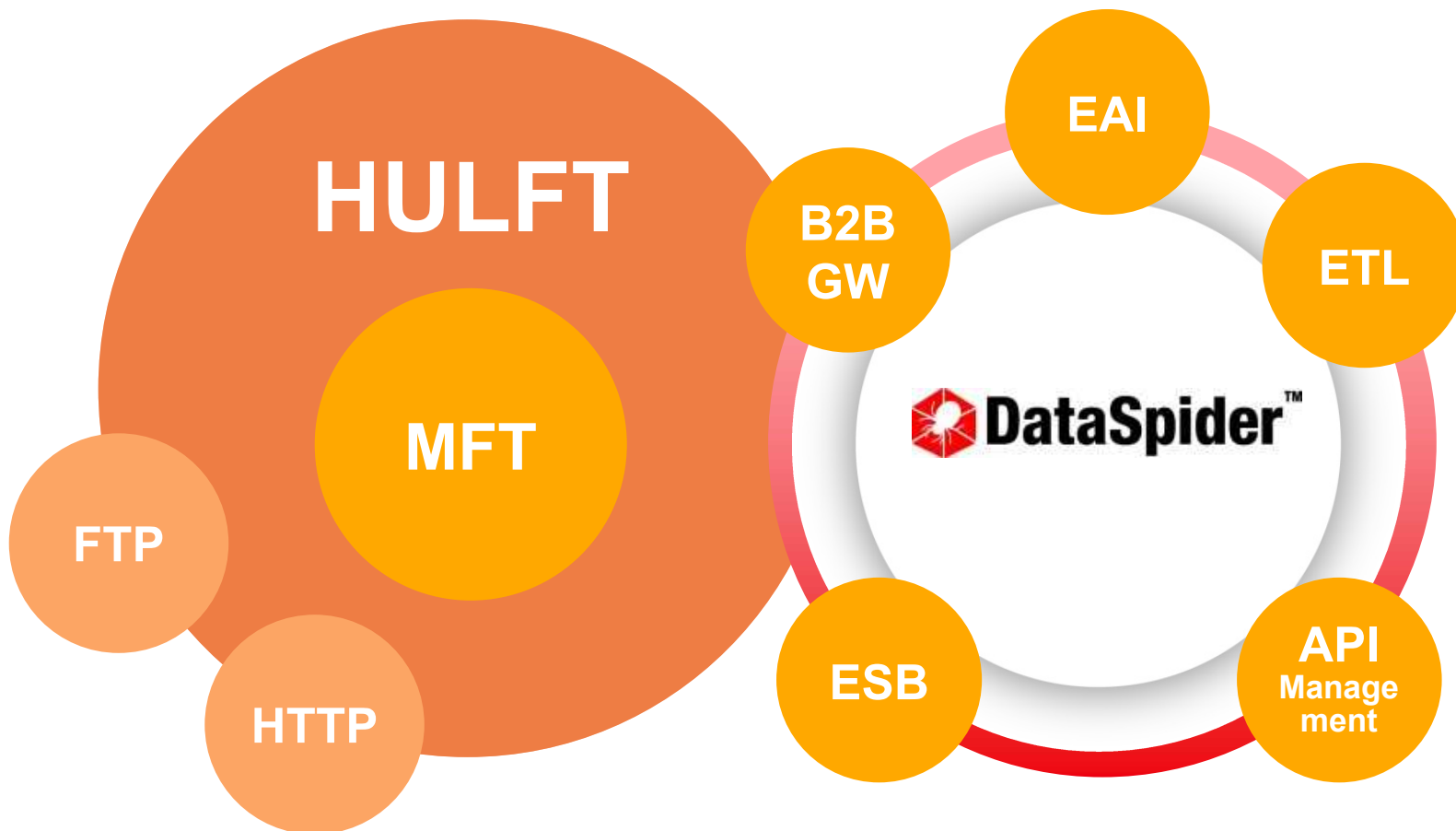
Adaptation Speed

Quickly responds to your needs of today by adding effective functions and innovative version upgrades

HULFT Enables Collective Support by Aggregating and Linking Diverse Data

Data Delivery

Data Integration



How HULFT Can Contribute While the Value of Data Increases

**Host
Unix
Linkage**
File Transfer

Safe/Secure/Trustworthy

Mission Critical
System Integration

On-Premise Environment

Open (Trend) System Integration

Cloud Environment

Global

Data Governance

Big Data

IoT

**Harmonious
Universal
Link**
File Transfer

MODE I

MODE II

Changing to **Harmonious Universal Link** from **Host Unix Linkage**

HULFT Series Update

- mode I/mode II -

HULFT mode I

Multi-Platform

Convenience

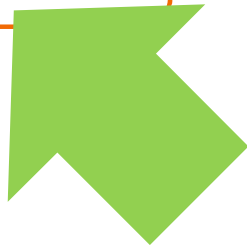
Availability

HULFT mode II

IoT

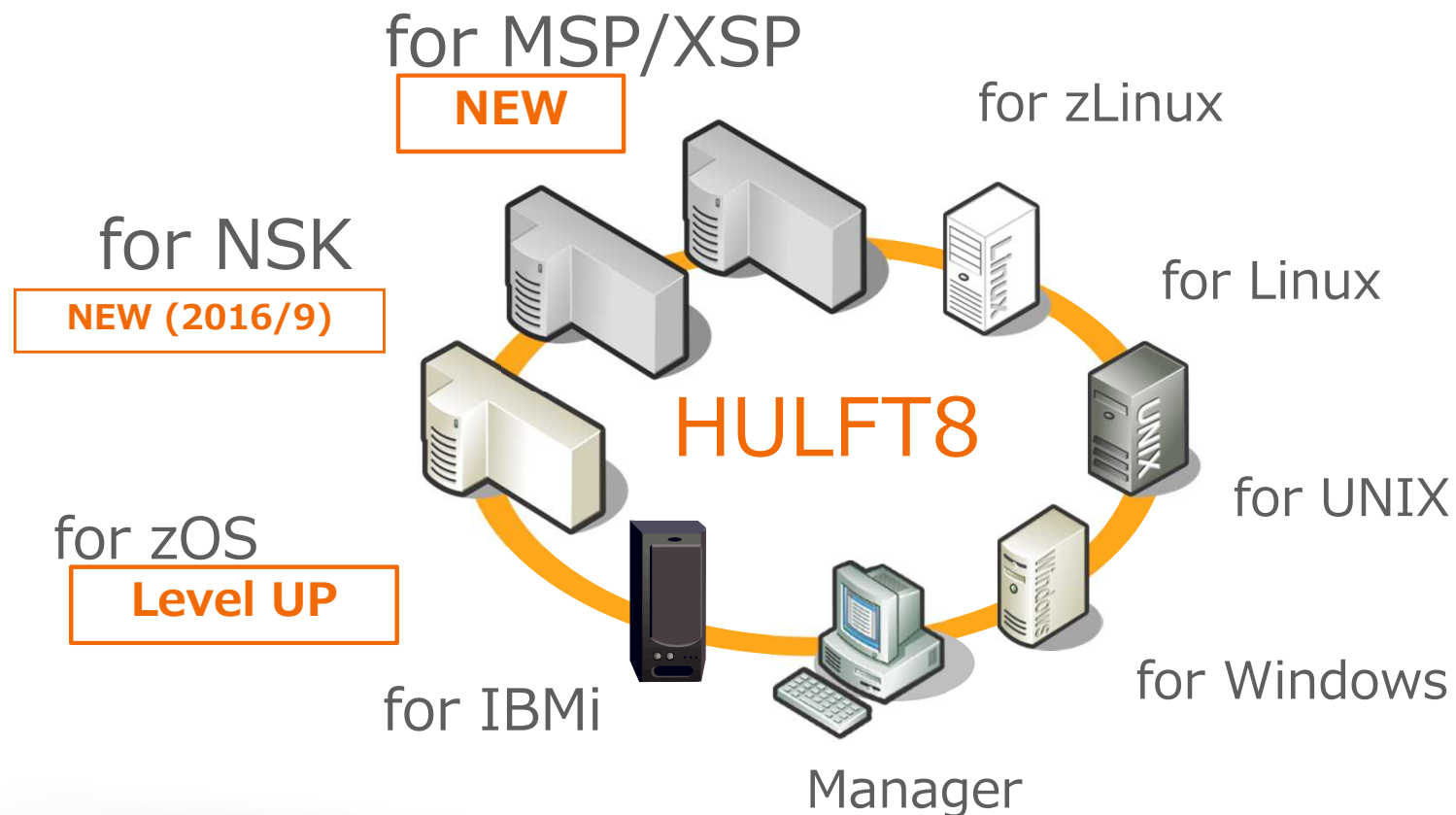
Cloud

BigData



Multi-Platform

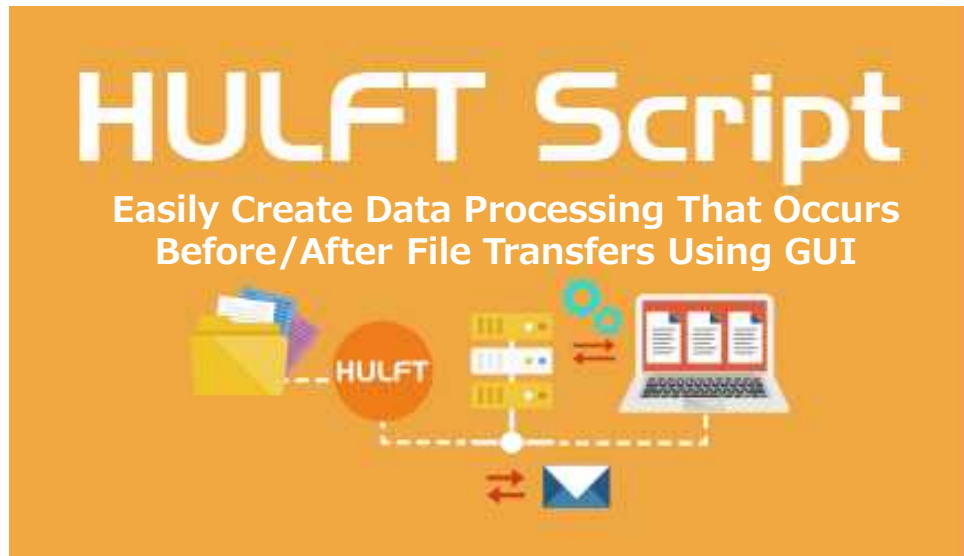
- ❑ HULFT 8 Newly Supports **MSP/XSP**
- ❑ SMS and Multi-Volume Files Are Now Supported by **zOS Lup**



Disadvantages of FTP Transfer

Reliability	No Guarantee	The mechanism to verify data is needed
Functionality	Only Transfer	System coordination before and after FTP data transfer is out of scope
Operability / Manageability	CUI / Transfer Log	Operability is not great due to lack of the management screen
Performance	Only Basic Transfer	Necessary to investigate the environment to increase the speed
Man-Hour(TCO)	Low initial cost, but the development and operational cost is high	Different design/development is called for each system requirement

Convenience

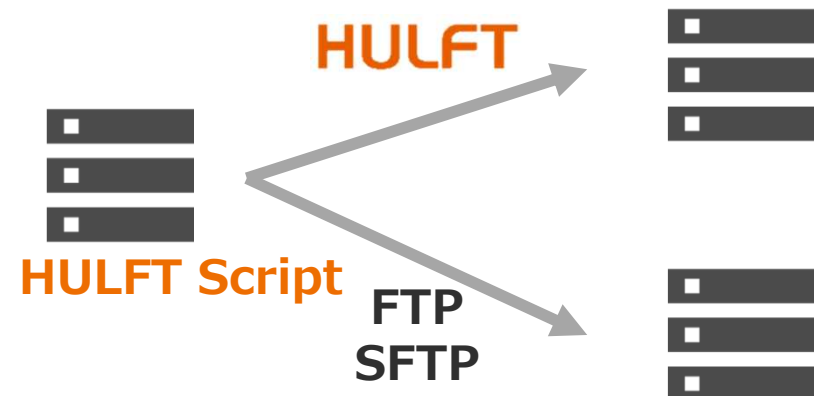


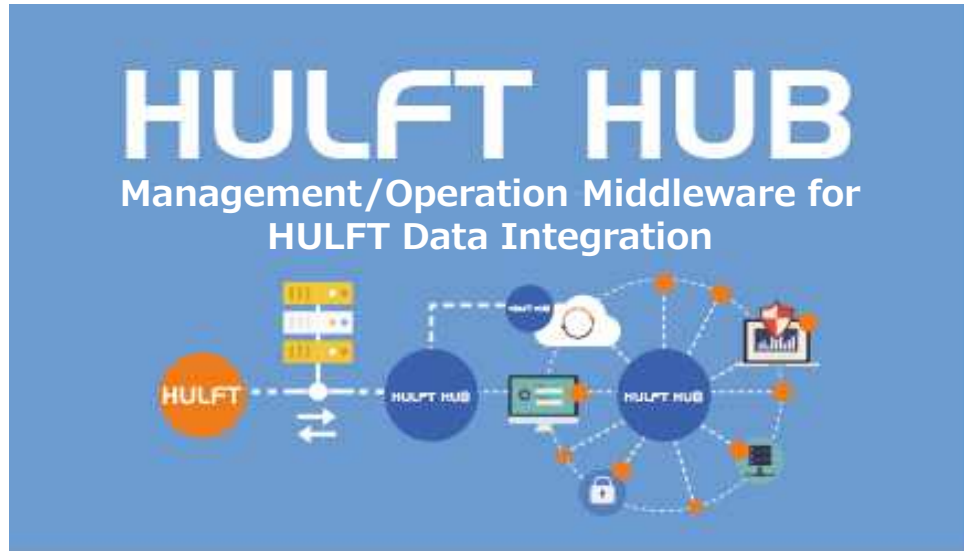
Set up or migrate
the coexistent
environment

FTP Protocol Transfer

You can quickly create data processing that always occurs before and after file transfer using GUI

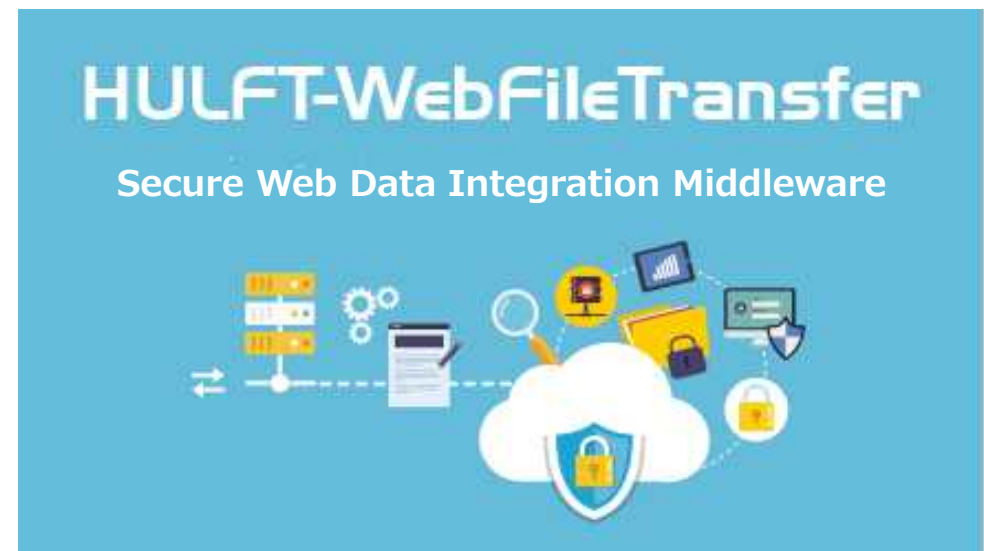
18 templates which you can use right away are provided





Ver.3.7 Released in Dec. 2016

Converter processing time is shortened to maximum **1/15**
ex. 128 seconds ⇒ 8 seconds



Ver.3.0 Released in Aug. 2016

Newly Supported **Chinese Language** Display
File size the web browser can transfer is increased (100MB ⇒ **2,000MB**)

Availability

- Never Stopping HULFT -

Safe and secure continuation of our customer's business

During Transfer

Load Balancing and
Scaling Out

Updating HULFT

Without interfering
the business
operation

Future

HULFT mode I

Multi-Platform

Convenience

Availability

HULFT mode II

IoT

Cloud

BigData



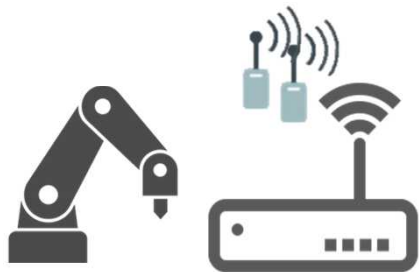
IoT + Reliability, User friendly

Cloud

BigData

HULFT IoT

Released in Sep. 2016
V1.0



40 companies are using
the trial version

Product Concept

Optimize the value of HULFT for **IoT** System



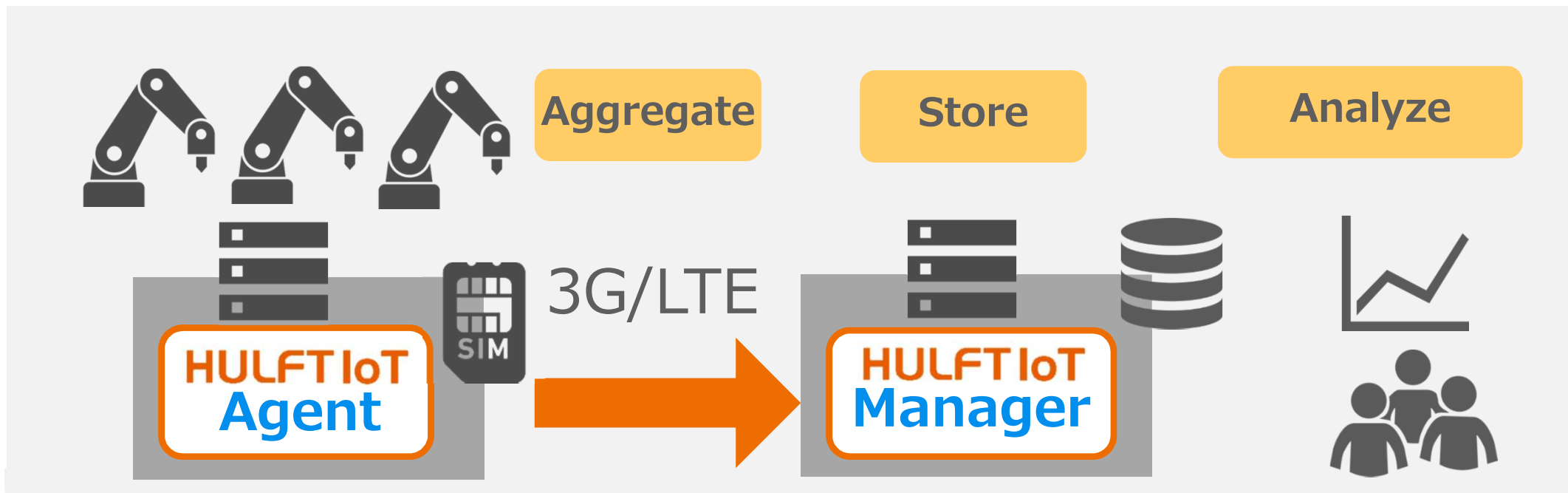
» The Advantages of Using HULFT IoT

	Job Linkage (Before)	Data Transfer	Encryption/ Decryption	Compression/ Decompression	Data Integrity Validation	Job Linkage (After)
HULFT IoT						
MQTT/HTTPS						

- Reliability
- Automation
- Cost Reduction

Use Case

- Industry : Manufacturing (Machinery)
- Purpose : **Reduce** the device **downtime**
- Why HULFT :
 - Acquiring all of the log data
 - Reducing communication load and cost (10GB→0.5GB **Compression**)





Link data and applications of different systems freely

DataSpider[®] Servista

V4.0

Released in Feb. 2016

Implemented by 2,800 companies

Customer Satisfaction Rate No.1

Enterprise Application Integration (EAI) Software

Overall Satisfaction Rate No. 1

in 3 consecutive years



2014



2015



2016

<https://consult.nikkeibp.co.jp/news/2016/0516df/>

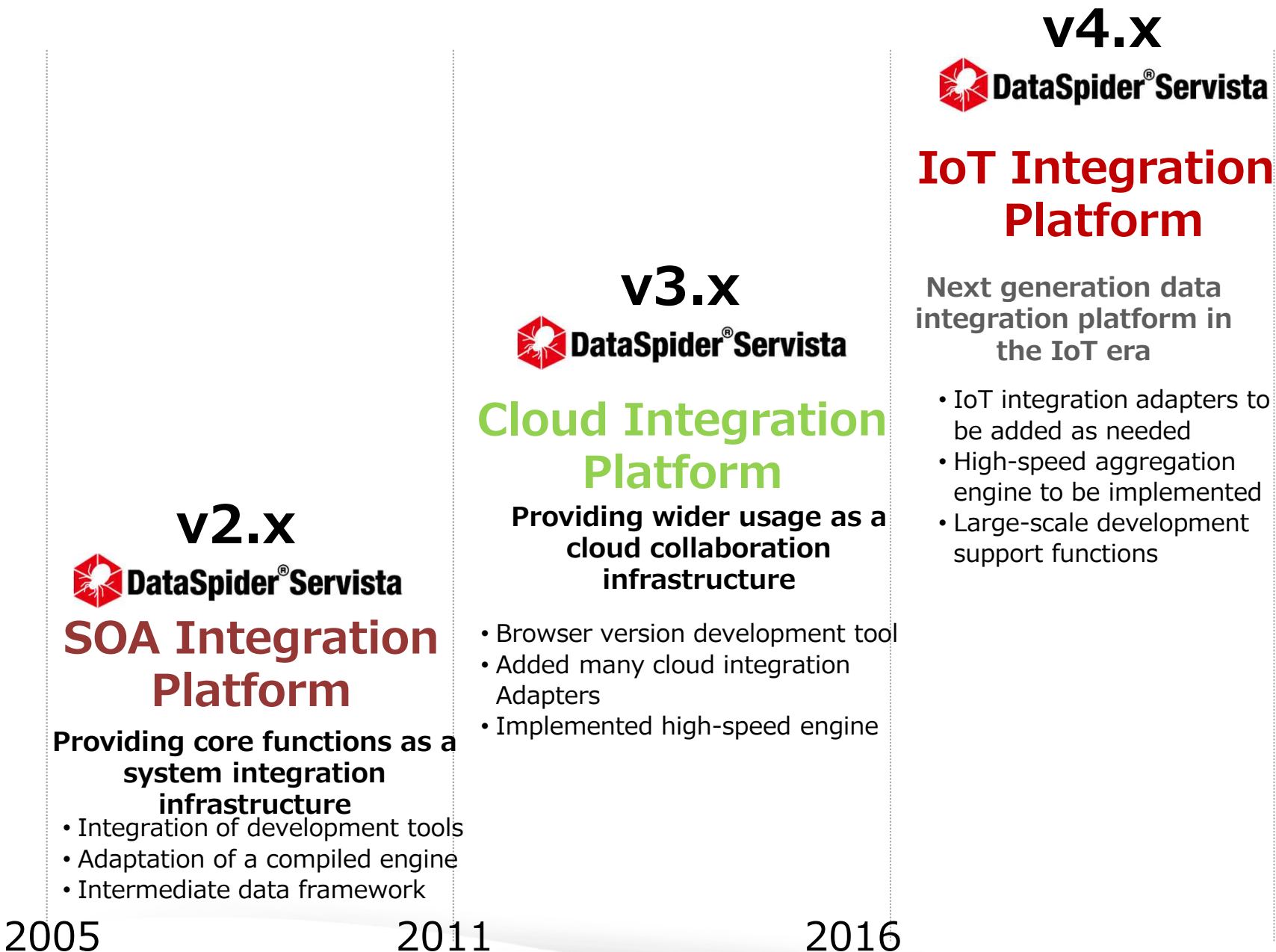
 **DataSpider® Servista**



※2016年3月 日経BPコンサルティング調べ
EAIソフトウェア

● Flexibility ● Performance ● Agility

DataSpider Servista Ver.4



New Functions of Version 4

Adding Integration Adapters

AWS



Kinesis



DynamoDB

Etc.



Tableau



MongoDB

Microsoft Azure



HDInsight



Document DB



Machine Learning



Azure SQL



Storage
BLOB

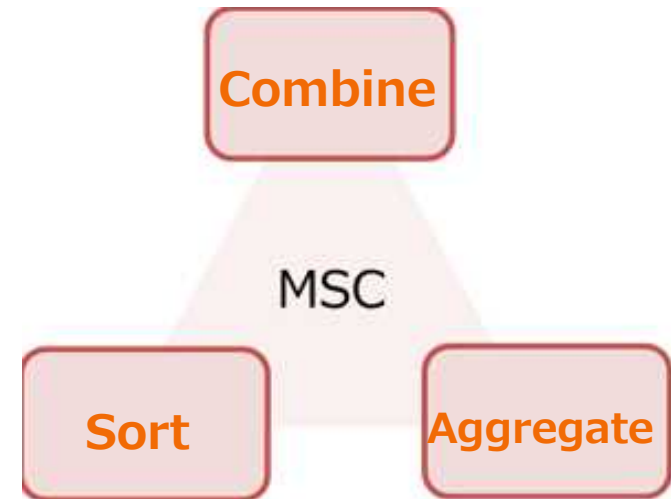


Storage
Queue



Service
bus

Large capacity aggregation engine



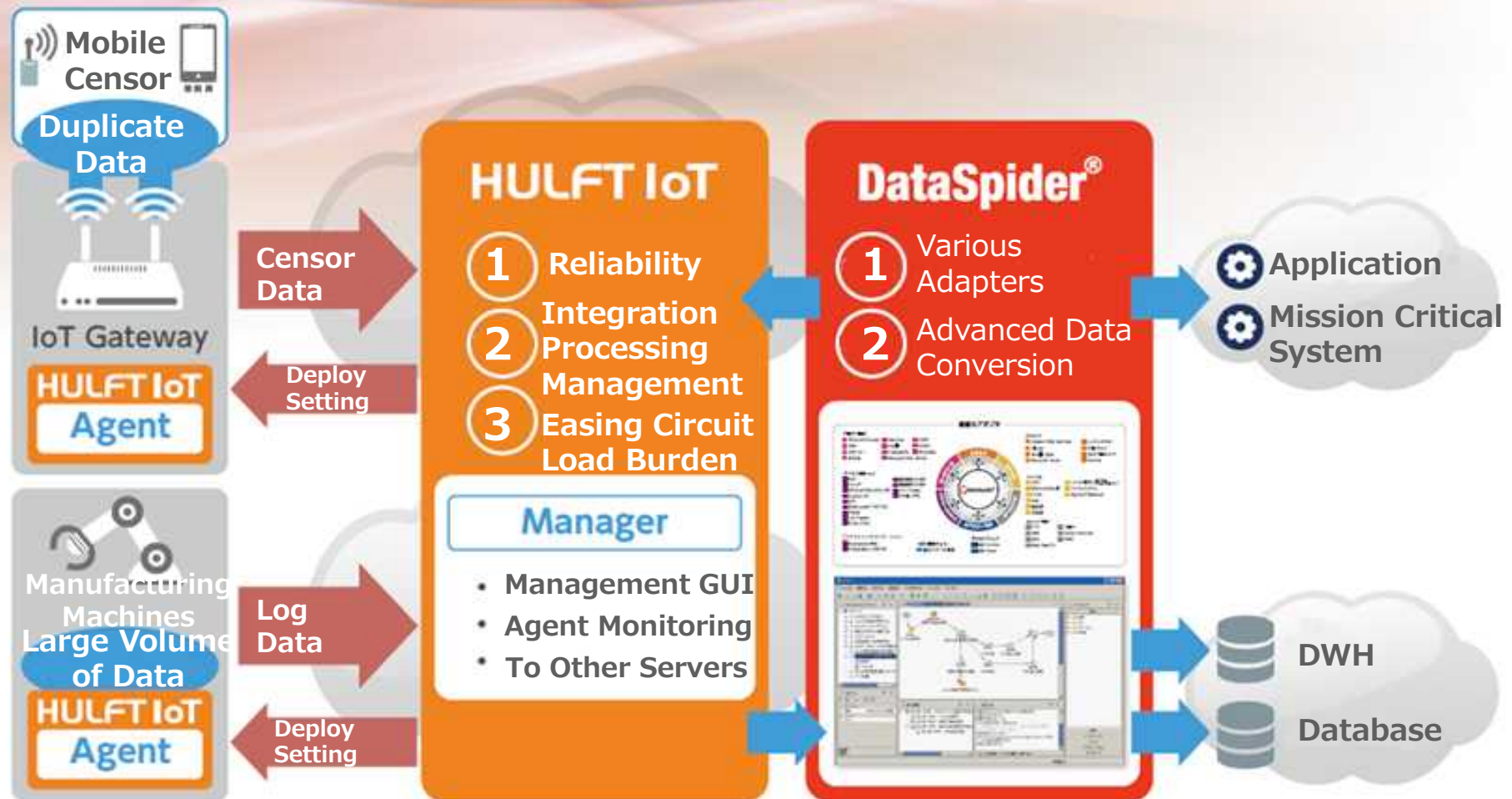
**High-speed merging
with small memory
consumption**

10 times better performance compared with the past
Better performance improvement for large volume data

Starting IoT Without Programming

Bringing Secure and Reliable Transfer Quality and High Flexibility to IoT System

HULFT IoT & DataSpider Integration Configuration



HULFT mode II

IoT + Reliability, User friendly

Cloud + Connectivity

BigData

HULFT-WebConnect





Provides SaaS type service enabling file transfer with HULFT using internet environment.

Enables secure data integration without maintenance and operation of equipment including VPN.

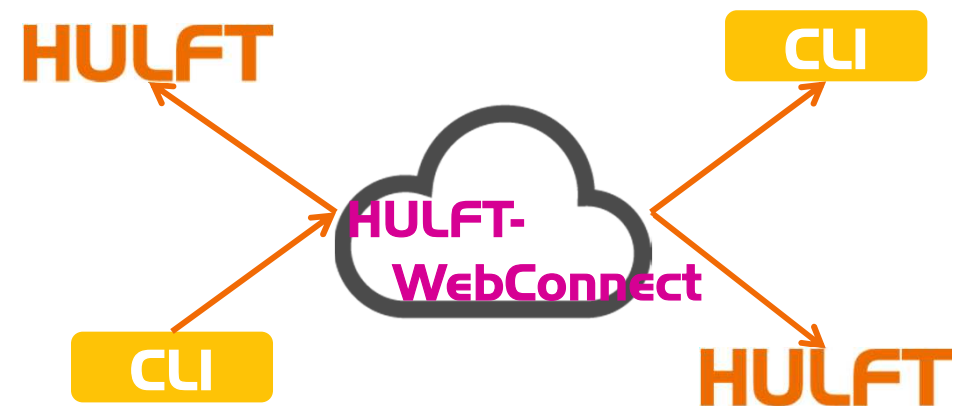
Ver. 2 Released 2016/8

CLI to HULFT

Provides CLI by easy transfer

Web API Publication

Publishes management screen on Web API



DataSpider Cloud

SHULFT



DataSpider, more than 2,800 companies successfully implemented, will be finally available for cloud

Launch services in August 2017

* Launched in Japan on January 22, 2017



- Extensive connecting destinations
 - High productivity
 - Full support
- +
- You do not need setup
 - You can use the service with monthly fee

HULFT mode II

IoT + Reliability, User friendly

Cloud + Connectivity

BigData + Performance



Ver.3

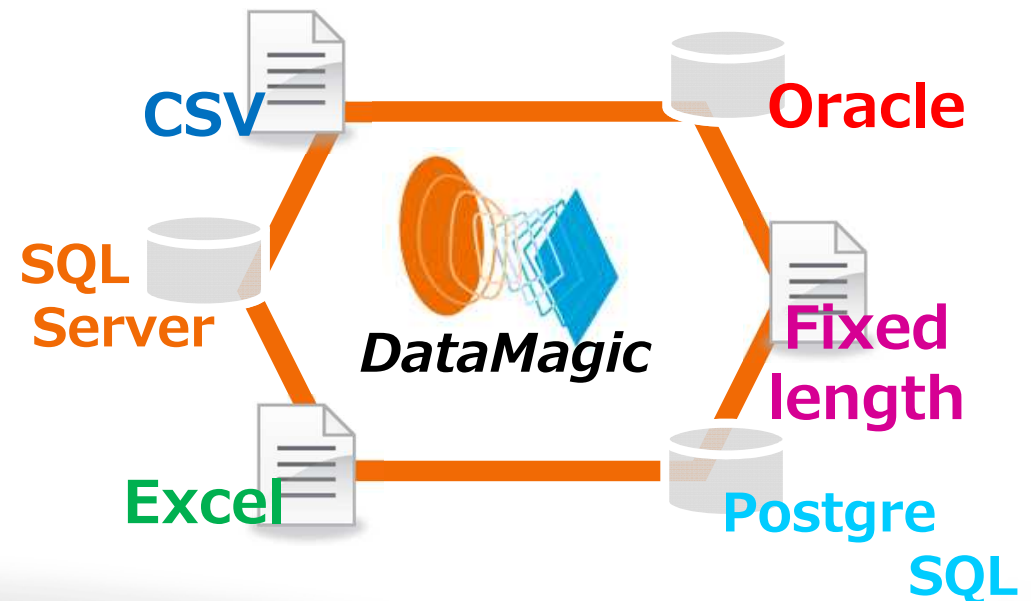
Released 2016/5

High-speed conversion engine up to 30 times faster than other companies' products

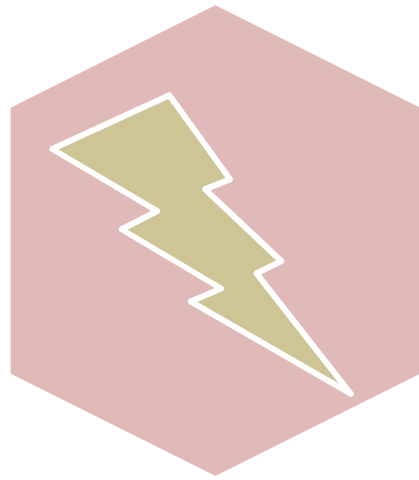
Outputs specifications of design contents and improves maintainability

Execute data conversion of files and database with enhanced functions and significantly faster conversion speed.

Multi-data conversion tool enabling the lowest cost in the industry.



Features



High-Speed

20

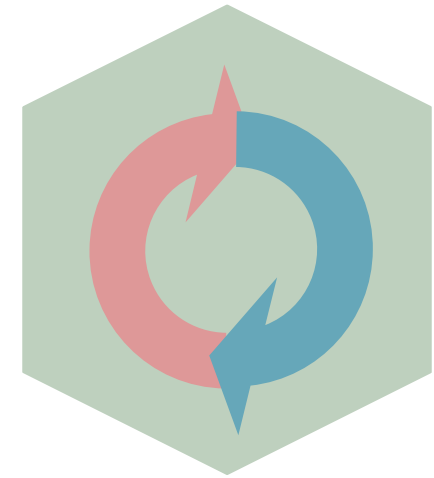
GB/min



Low Cost

500

\$



Multifunction

41

Functions

HULFT mode II

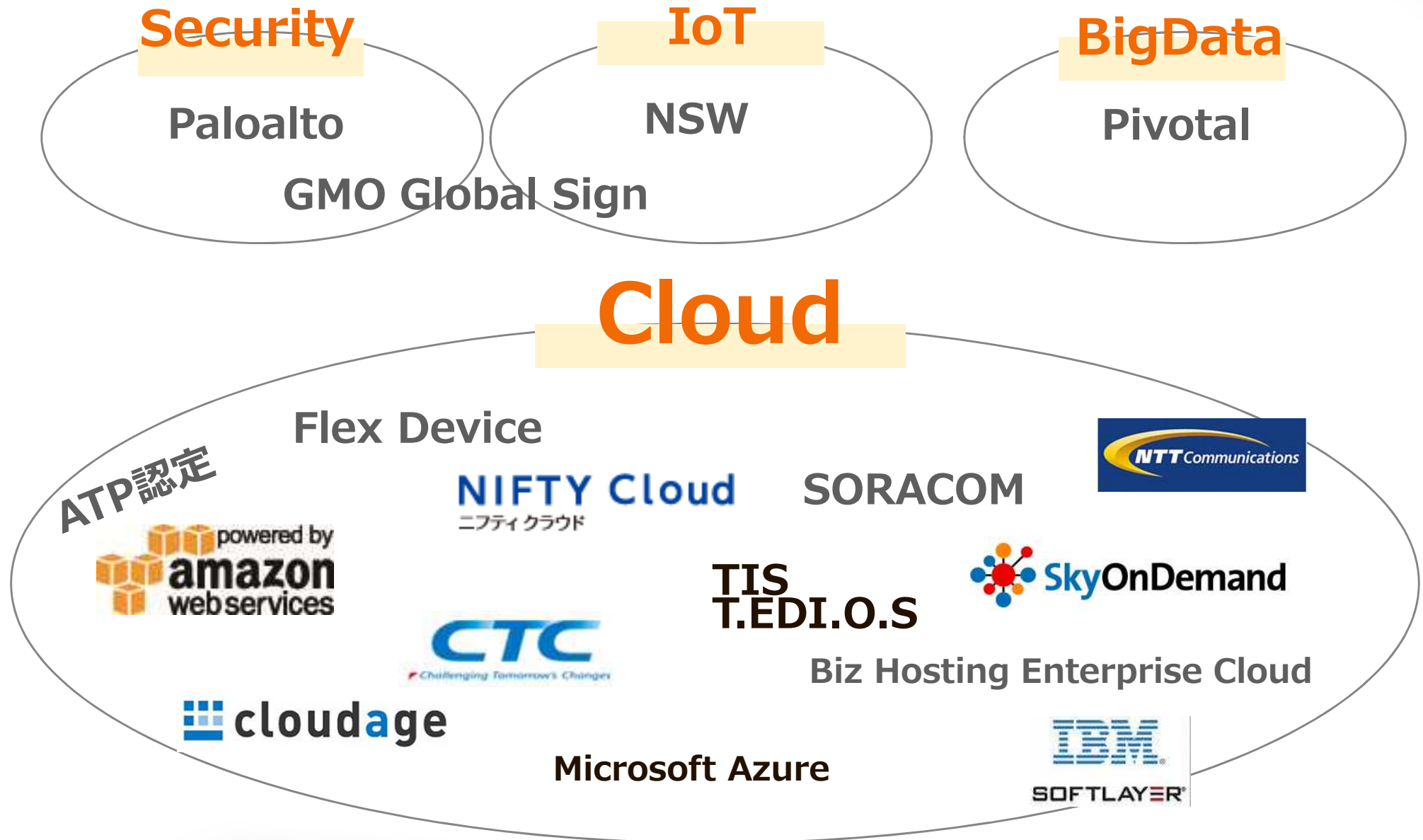
IoT + Reliability, User friendly

Cloud + Connectivity

BigData + Performance

+ Alliance

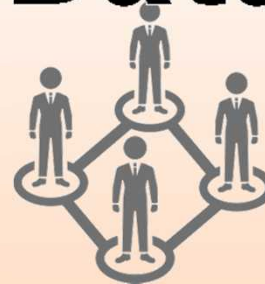
Alliance



Enterprise Data Governance Provided by HULFT

HULFT

DataSpider®





Faster
Safer



Visualize and Predict
Never Stopping System

Gain New Knowledge And Insight From Both Systems

SoI

System of Insight



System of Record

Conventional System

(Mission critical system, ERP)

+

Efficient Management With New System Different From ERP

Mission Critical System, MF, Integrated DB, ERP



System of Engagement

System Which Strengthens People's Relationships

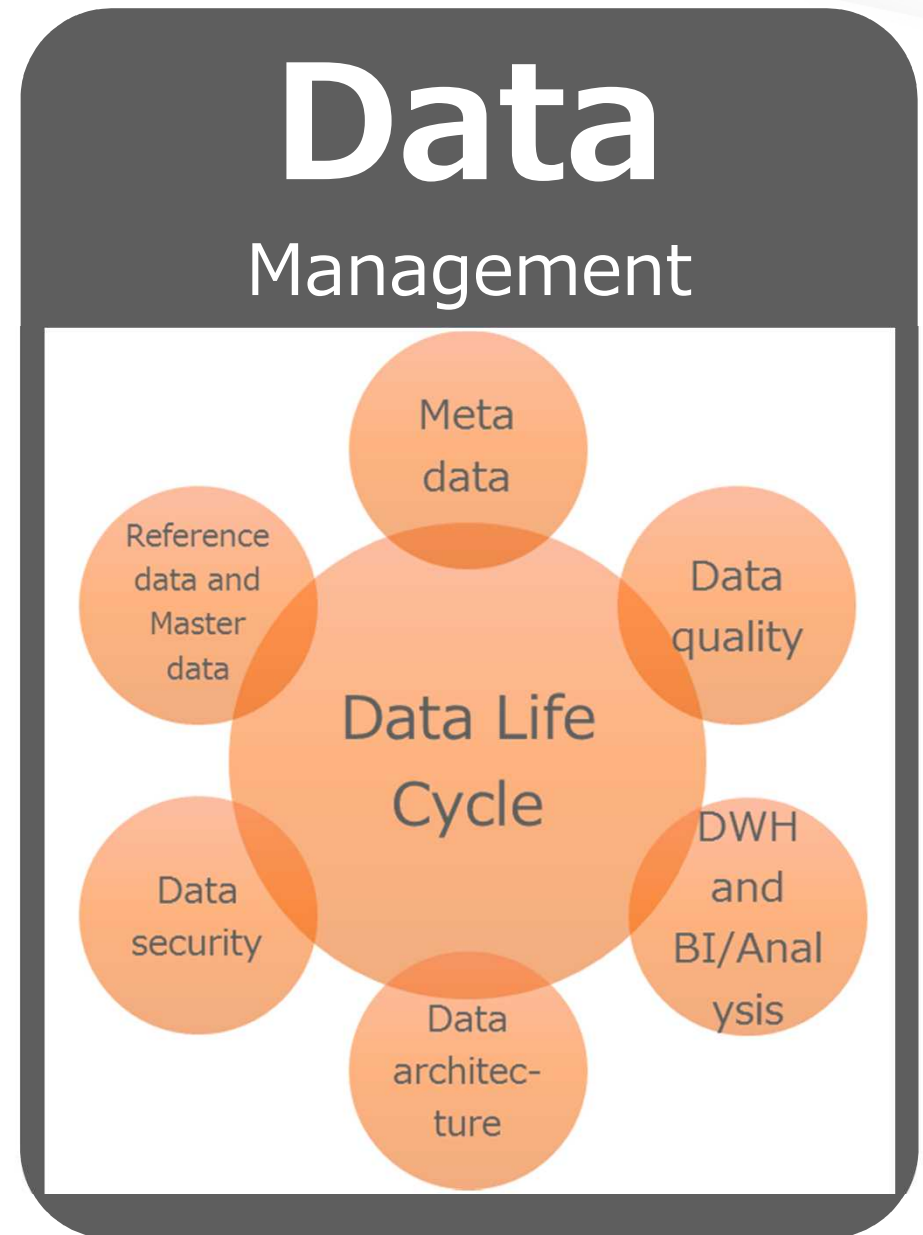
SNS, Cloud CRM, IoT

What Is Data Governance?

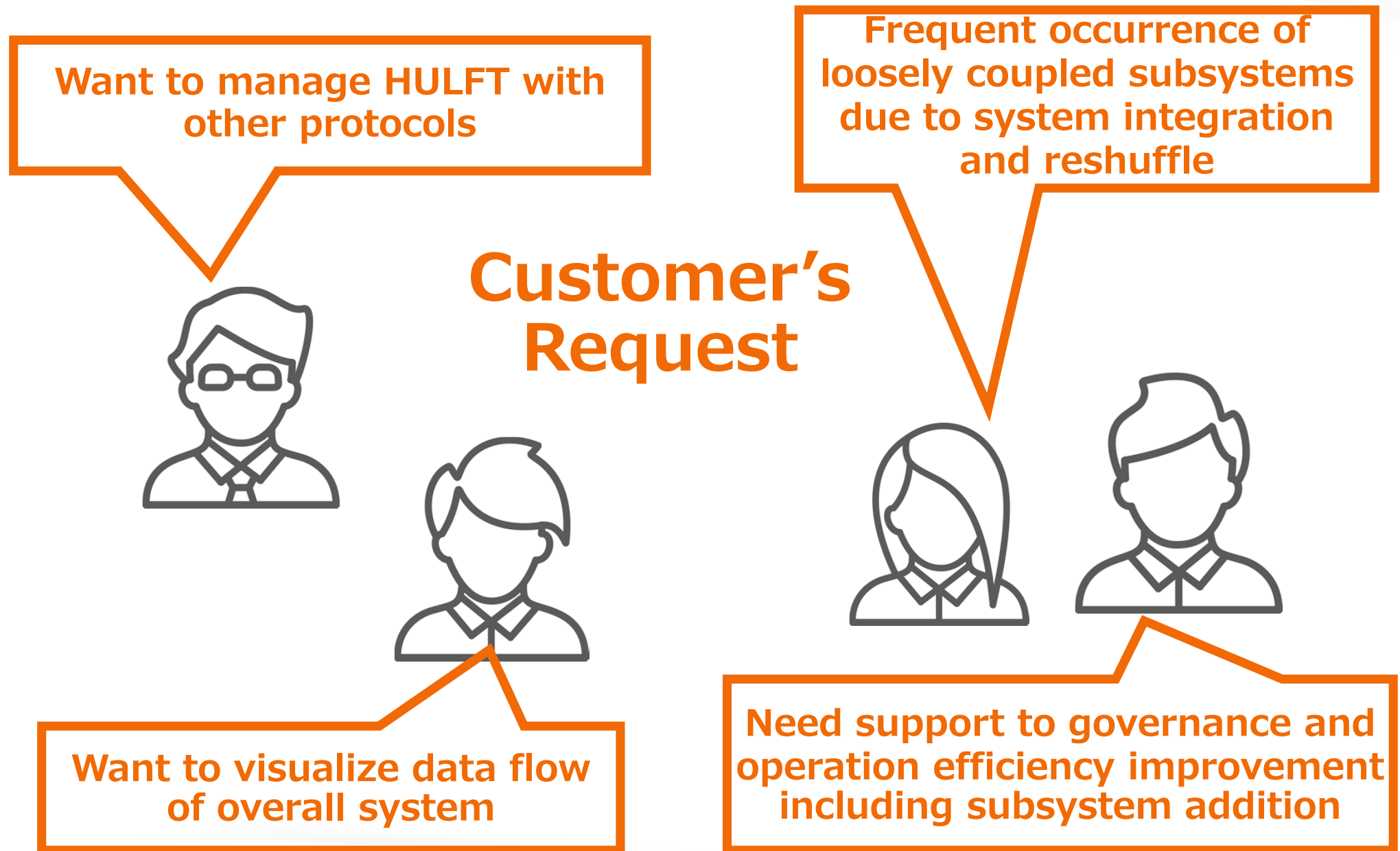
To utilize data in business;

Establishing a **policy** of data handling and **integrated data management** are required.

Data governance is the system for the requirement.

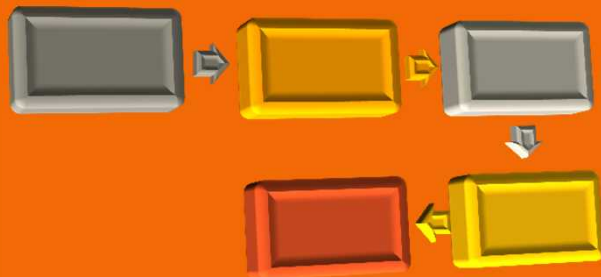


HULFT Data Governance Field Requested by Customers



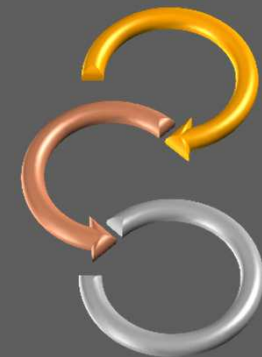
DataFlow

Management



Data

Management



How HULFT Can Contribute In Data Governance

HULFT which *transfers data* and *links data* enables strengthening governance by adding *visualizing data flow* element.



Integrity of
data transfer

Visualization of
data movement

Visualization
of data volume
and trans-
action amount

Data security
Specification of
transfer
destination
Encryption

HULFT enables not only to transfer data but also **visualize** data transmitted on the network **from different points** to enable autonomous data integration and predictive maintenance.

Visualize data transmitted on the network from different points

A world map with a network overlay of glowing orange nodes and connecting lines, representing global data transmission. The nodes are concentrated in North America, Europe, and Asia, with lines connecting them across the globe.

Visualize overall system situations such as system configuration, data flow, operation status, etc.

Error occurrence point and affected area can be identified in early stage by mapping and shifted to detailed information with drill down.

New Concept

HULFT

DataSpider®



Data Integration Evolution Steps



**Secure and
Safe
File Linkage**

**Managed
Data
Integration**

**Autonomous
Data
Integration**

Data Integration Evolution Steps



**Unchanged
HULFT**

**Secure and
Safe
File Linkage**

**Changing
HULFT**

**Managed
Data
Integration**

**Autonomous
Data
Integration**

HULFT

Connecting Value,
Expanding Horizons

THANK
YOU

www.hulft.com