

Note for readers of this English translation

This document has been translated from the Japanese original for reference purpose only. In the event of any discrepancy between this English translation & the Japanese original, the Japanese original shall prevail.

As a hub for multi-cloud IIJ launches new cloud data hub service

December 12, 2022

Internet Initiative Japan Inc.
Executive Officer
Division Director for Cloud Division
Naoshi Someya

**IJ celebrates its 30th
anniversary on December 3,
2022.**

**There was no hesitation in naming the
company with “initiative,” 30 years ago.**

**As a pioneer, IJ has always been
opening up the possibility of Internet
and shall continue to challenge in new
innovation.**

**“I” in the middle of IJ is “initiative”
- IJ is always the beginning and the
future.**



Shaping the needs of the time

As a partner, IIJ supports clients' business by anticipating IT issues as well as changes in the environment and making them into services

Anticipated the use of hybrid Cloud

Provide cloud services best suited for cloud migration from on-premise, management service and hybrid cloud

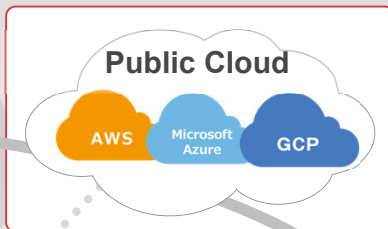
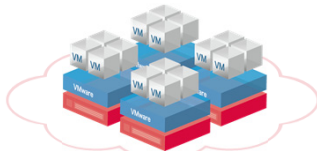
Multicloud Management Platform (MMP)

IIJ Unified Operation Management service

UOM

IJ GIO

Infrastructure P2 Gen.2



Direct Connect

Gateway to cloud Network

Network gateway that allows to use public cloud, network services and managed cloud services by just accessing

Digital Work Place

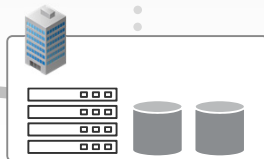


Promote cloud adoption within office

DWP (Digital Work Place)

Cloud based IT infrastructure services that enable business operation within digital space that realizes remote work

IIJ Omnibus



Clients (on-premise)

wiz Safe

SOC

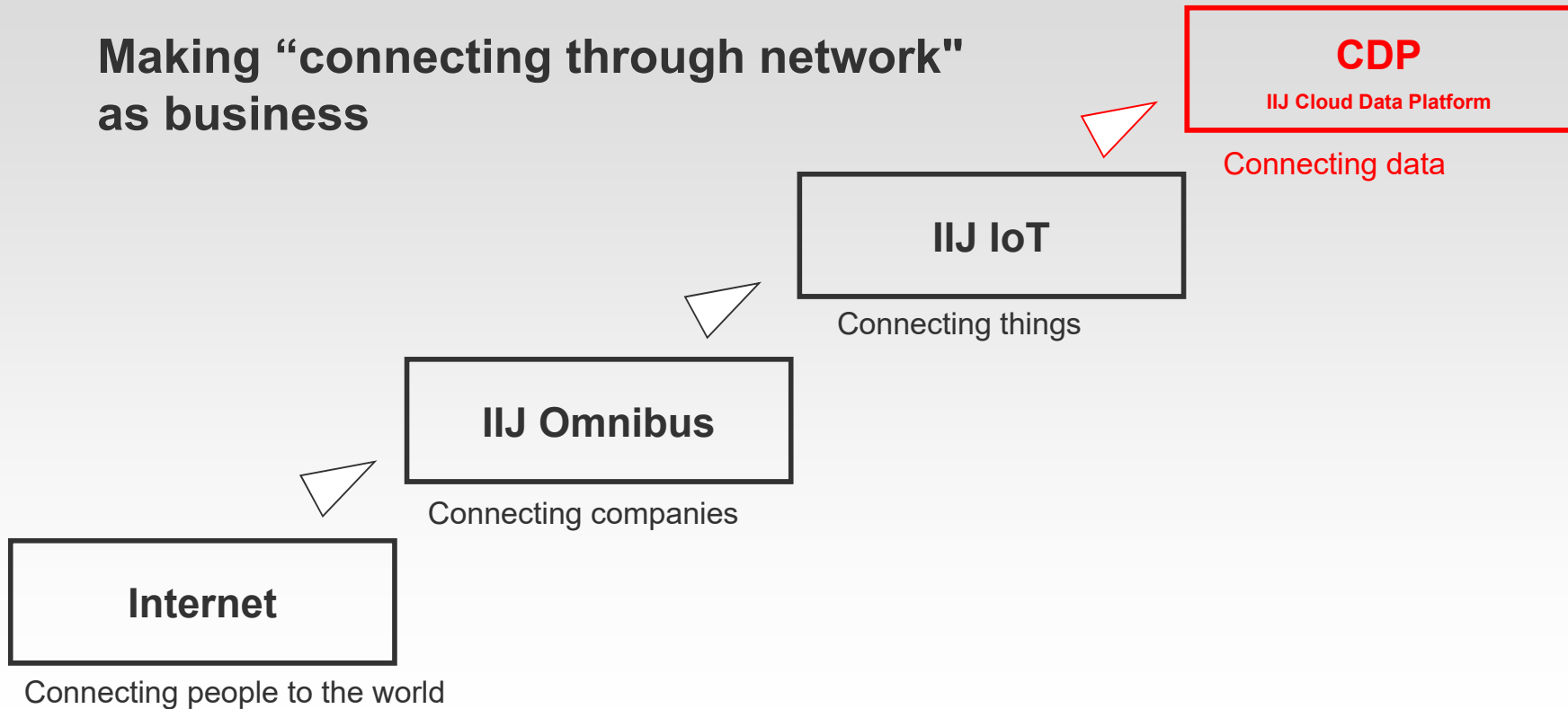
Maintain security within digital space

Security

Security service centered around SOC (Security Operation Center) to maintain security within digital space

IIJ's Core Competence

Making “connecting through network”
as business

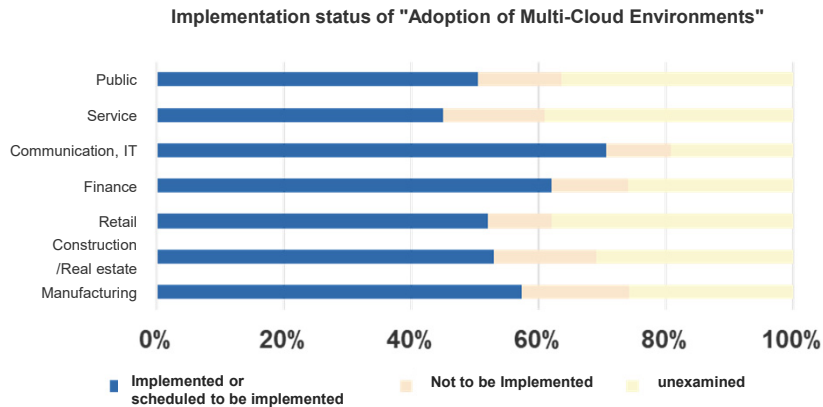


The reality of enterprise multi-cloud

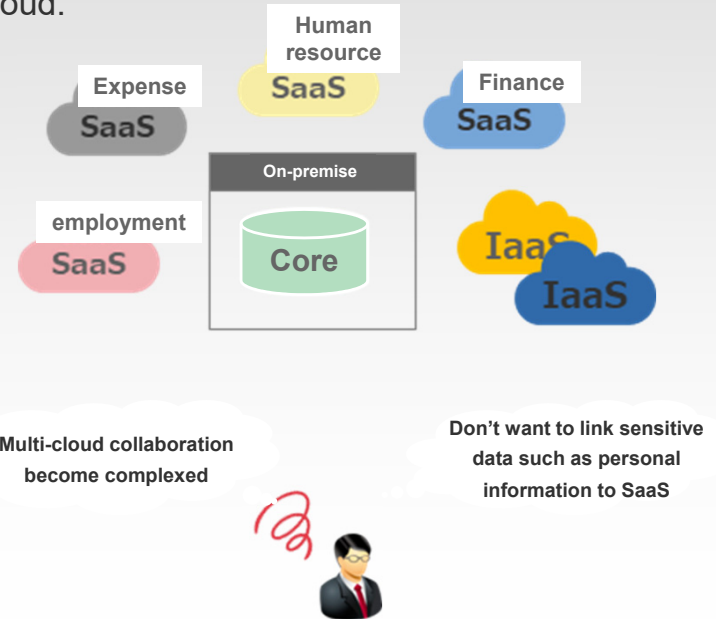
Optimal use of cloud computing for each purpose is advancing

Many companies choose optimal use of cloud computing for each purposes, and it becomes commonplace to use multiple cloud computing services in addition to on-premise.

On the other hand, new challenges appeared by using multi-cloud.

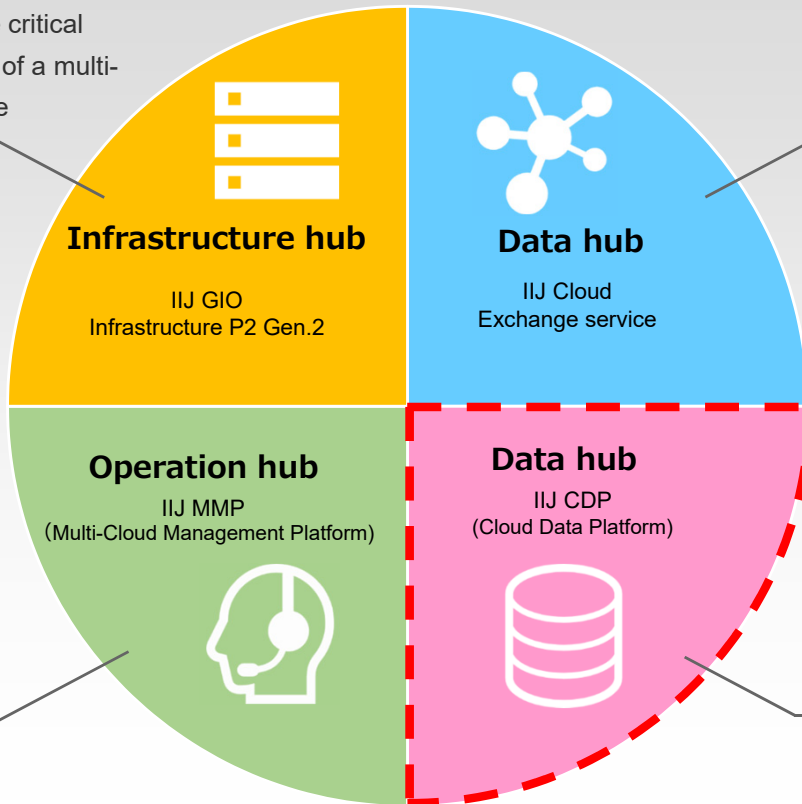


Source: ITR Domestic IT Investment Trends Survey Report 2022



The service concept of "Four Hubs" to support multi-cloud

Infrastructure services that handle critical information and serve as the core of a multi-cloud, an alternative to on-premise

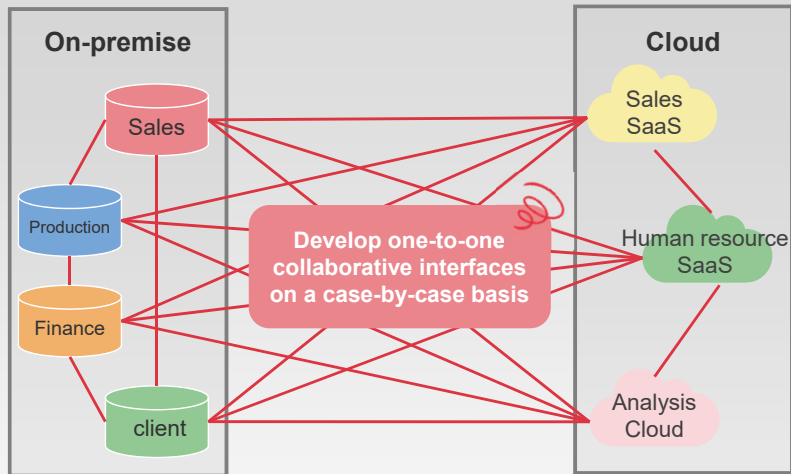


Cloud-to-cloud connectivity network that connects public cloud, on-premise, and IIJ GIO

Unified operation management service improves operational efficiency in multi-cloud environments

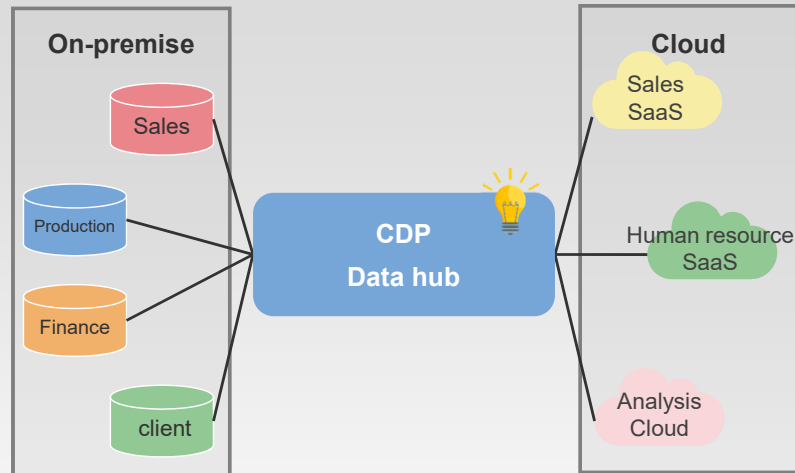
Secure data integration service that connects on-premise and cloud as well as cloud and other cloud

Challenges in enterprise data use and the aims of CDP



Challenges of data utilization in multi-cloud environments

- Development of data integration interface one by one becomes a bottleneck
- Concerns about integrating sensitive data such as personal information into SaaS
- High hurdle for initial introduction of sophisticated data integration tools

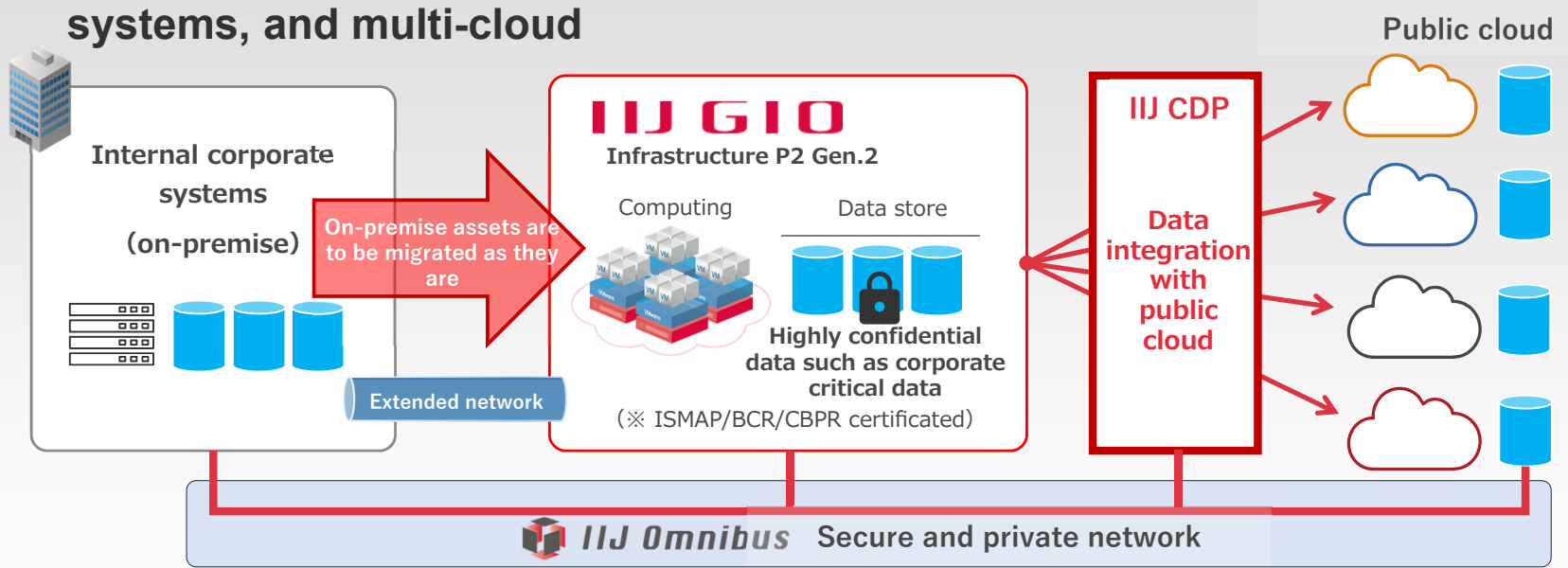


CDP Data Hub to solve such problems

- Integration with a wide variety of applications to access to cloud easily
- Masking function and access logs to handle sensitive data
- Cloud services that allow for small start

The world multi-cloud aims for

It is the world that realizes “full cloud” of enterprises systems based on secure network, IJ GIO which is a migration destination of on-premise systems, and multi-cloud



- (※) • IJ GIO Infrastructure P2 is registered with ISMAP (Information System Security Management and Assessment Program), Japanese government's cloud service list
- BCR approval: IJ's comprehensive rules regarding how to handle personal data meet the rigorous EU's standard and have been approved by EU's Data Protection Authority
- CBPR certification: IJ is recognized as an organization that effectively protects personal data, enabling its customer to transfer personal data within APEC region

IIJ supports corporate DX by connecting “four hubs” for multi cloud through services



Internet Initiative Japan



Internet Initiative Japan

30th
Anniversary

Easy, Secure, and low-cost data migration between on-premise and multi-cloud

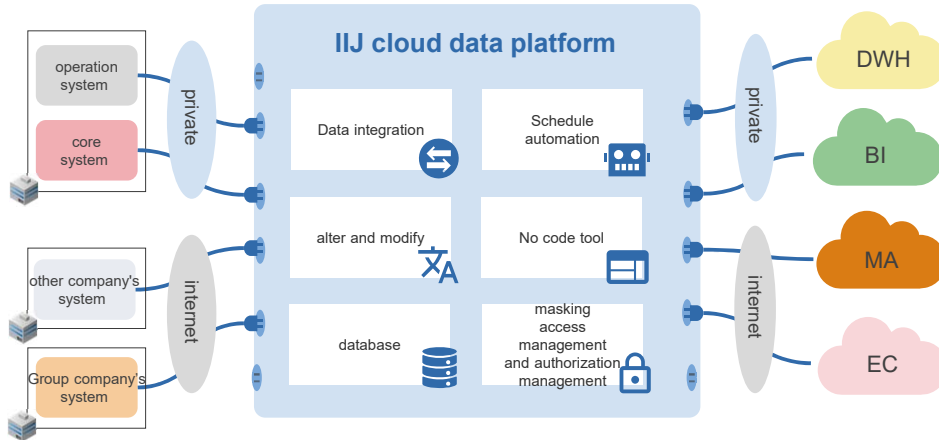
IIJ Cloud Data Platform Service



December 12, 2022

Internet Initiative Japan Inc.
Toru Suzuki, General Manager, Service Planning Office, Cloud Division

CDP is a PaaS service realizing data collaboration “easy” “secure” and “low-cost” as a hub connecting on-premise and cloud



Various cloud interface

Offers more than 90 integration adapters including cloud services such as Salesforce and AWS as well as RDBMS such as Oracle DB and MS SQL

Data flow for integration can be developed with no code

Data flow development with GUI by flow designer
As managed services, only utilize functions

Protect sensitive data by data masking

Anonymization of personal information and concealment of sensitive information
Use as a measure to prevent data leakage

on-premise and closed network connectivity

By using together with IIJ network services, closed connectivity to on-premise system is realized

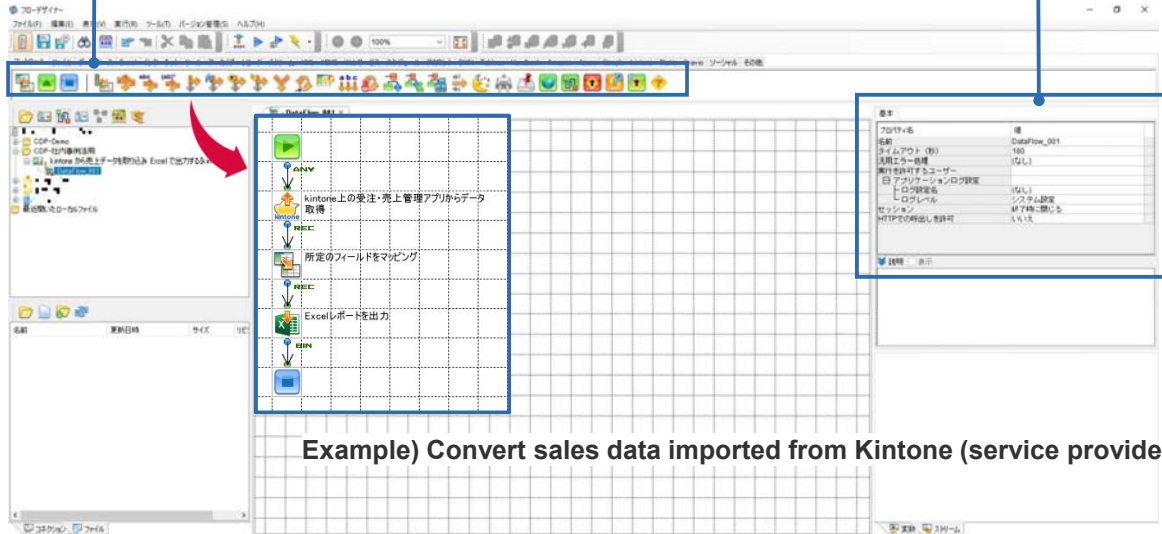
Immediately connect a wide variety of partners with about 90 types of integration adapters

Standard	file format	CSV XML PDF ZIP GZIP TAR JSON HTML MIME (S/MIME) 固定長 text binary	network	SOAP REST HTTP/HTTPS FTP/SFTP POP3/POP3S IMAP/IMAPS SMTP/SMTPS LDAP/LDAPS	database	Oracle DB2 SQLServer MySQL PostgreSQL MariaDB MongoDB Microsoft Access FileMaker	
	Option	ERP	Microsoft Dynamics 365 Oracle Netsuite SAP SAP S/4 HANA ServAir ツバイン	Office/Groupware	Excel ActiveDirectory Microsoft SharePoint Notes/Domino Microsoft Teams Microsoft Office 365 Google (Gmail Calendar, Drive, Spread Sheet, Cntact) BOX Garoon PowerEgg	database	Amazon Aurora DynamoDB Azure Cosmos DB SQL DB Amazon Redshift Google BigQuery Snowflake
back office		MFcloud経理 PCAFinanceDX PCA商魂・商管DX SmartHR Office Station 請求management 口ホ 奉行ERP	SFA/CRM/marketing	Salesforce Marketo Oracle Eloqua Google Analytics Google Ads Microsoft Dynamics 365 for Sales Microsoft Dynamics CRM	cloud (IaaS)	Amazon Web Services Microsoft Azure Google Cloud Platform	
EDI		JFT SaaS Biware EDIFAS	Sansan uSonar DataMaster 名刺商売繁盛 KREISEL	SNS	LINE Slack Facebook Twitter	development platform	Kintone ServiceNow Intra-Mart Canbus. BIZ Platform Business b-ridge
IoT/blockchain		Ethereum					

Data can be easily altered and modified by simply arranging icons, even without knowledge. Speedy development using pre-prepared adapters.

1 Drag and drop icons in processing order

2 Property setting



Example) Convert sales data imported from Kintone (service provided by Cybozu) to Excel



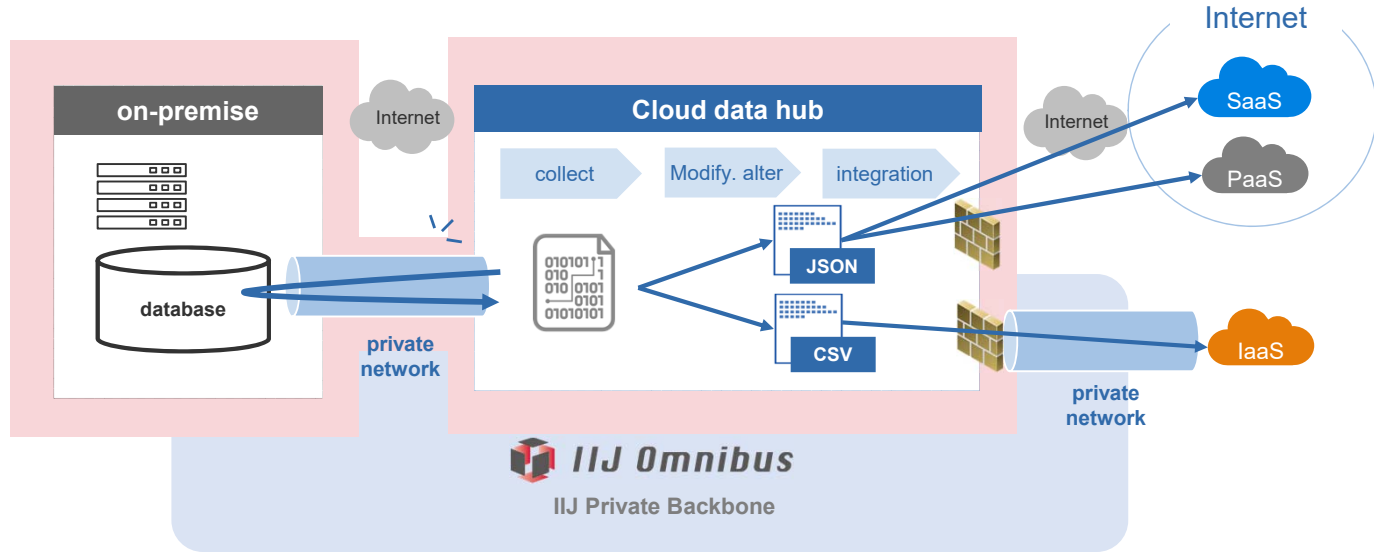
No.1 share in Japan for 15 consecutive years

Used by more than 9,500 companies

The data integration function of this service uses Asteria Warp as its core engine.

(Source) Techno System Research Co., Ltd. "Software Marketing 2022 EAI/ESB Market Overview"

Due to private connectivity with on-premise environment, the service can be used as a part of on-premise which means a database without Internet reachability can be integrated to cloud.



Protect sensitive data by masking function

Secure integration to Cloud

Bottleneck when using data



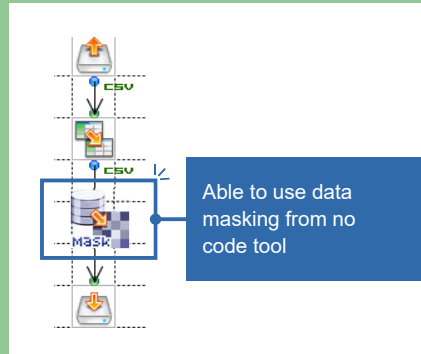
- Want to conduct EC purchase analysis jointly with an agency...
- It is time-consuming to mask personal information when passing it to the cloud...
- Want to implement cloud migration with high quality test data...

IJ can . . .

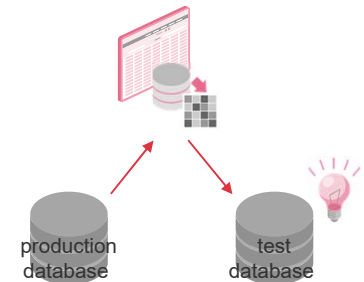
By simply adding an icon on the flow design to complete the anonymization process



Offers data masking function as a standard function

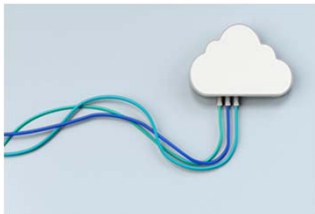


Quickly create test database just like the production database



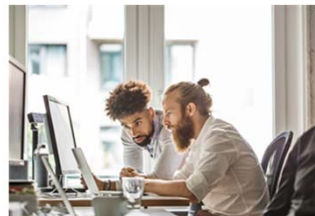
This service platform is provided from domestic cloud “IIJ GIO P2 service”

Initiatives taken by IIJ Group and IIJ GIO P2



Registered with ISMAP

- ISMAP is a program designed to have cloud services assessed and registered in advance as meeting the security requirements of the Japanese government so as to ensure a level of security and facilitate smooth introduction in government procurement of cloud services
- After independent auditors' audit on the effectiveness of internal control, ISMAP registration is completed



BCR approval, CBPR certification

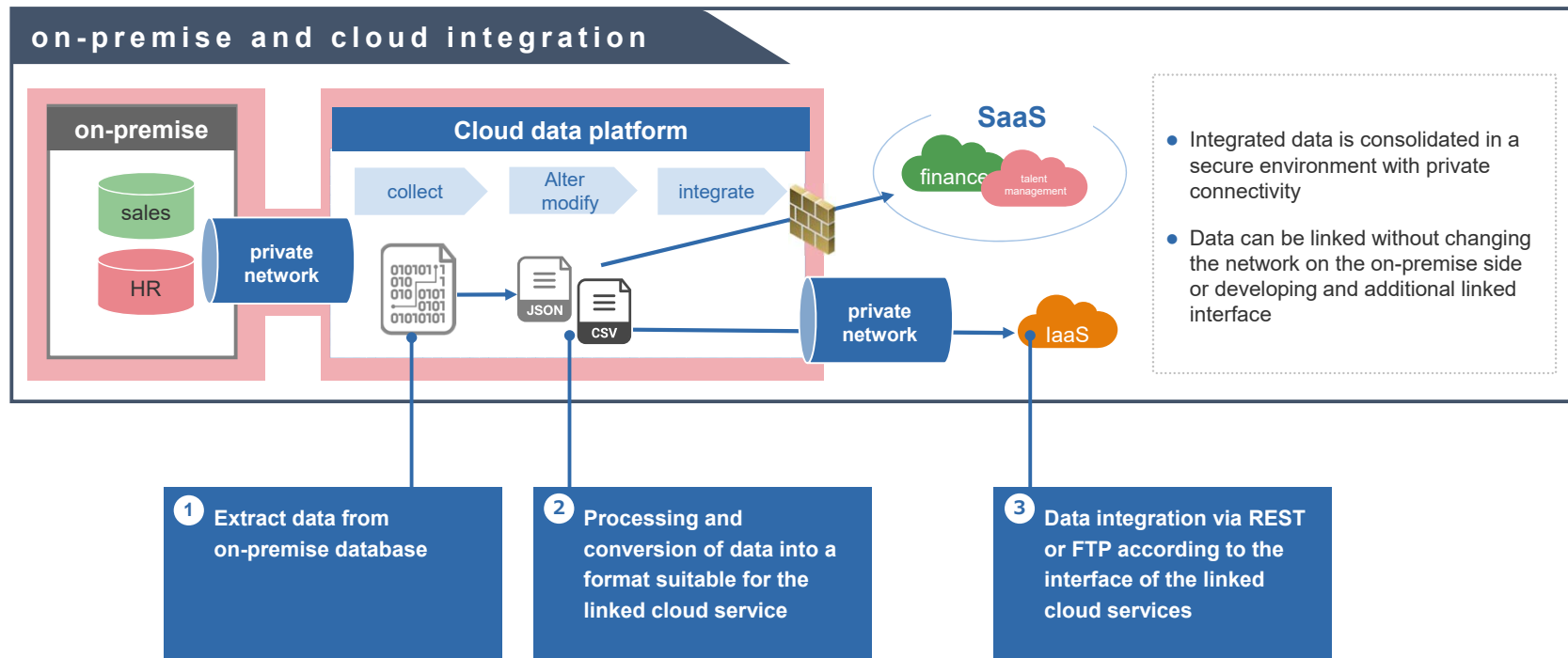
- BCR approval: Approved as a corporate group taking appropriate protective measures as required by the EU GDPR
- CBPR certification: Certified in conformity with APEC Privacy Principles for the protection of cross-border personal data of enterprises, etc.



Cloud security certificates (ISO/IEC 27017:2015)

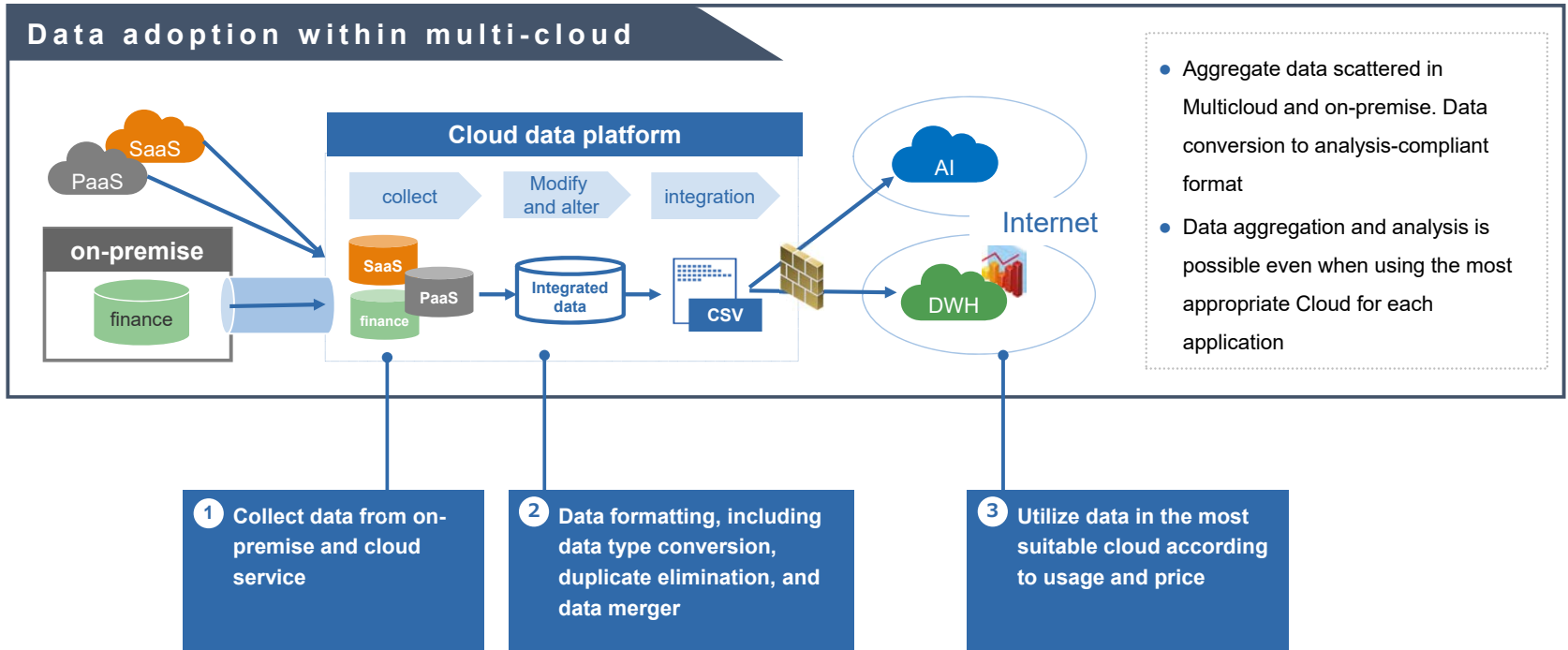
- Third-party certification that cloud services are provided under an established information security management system and in line with information security management practices

Private connectivity and a rich set of interfaces allow Cloud integration without modifying the existing on-premise system

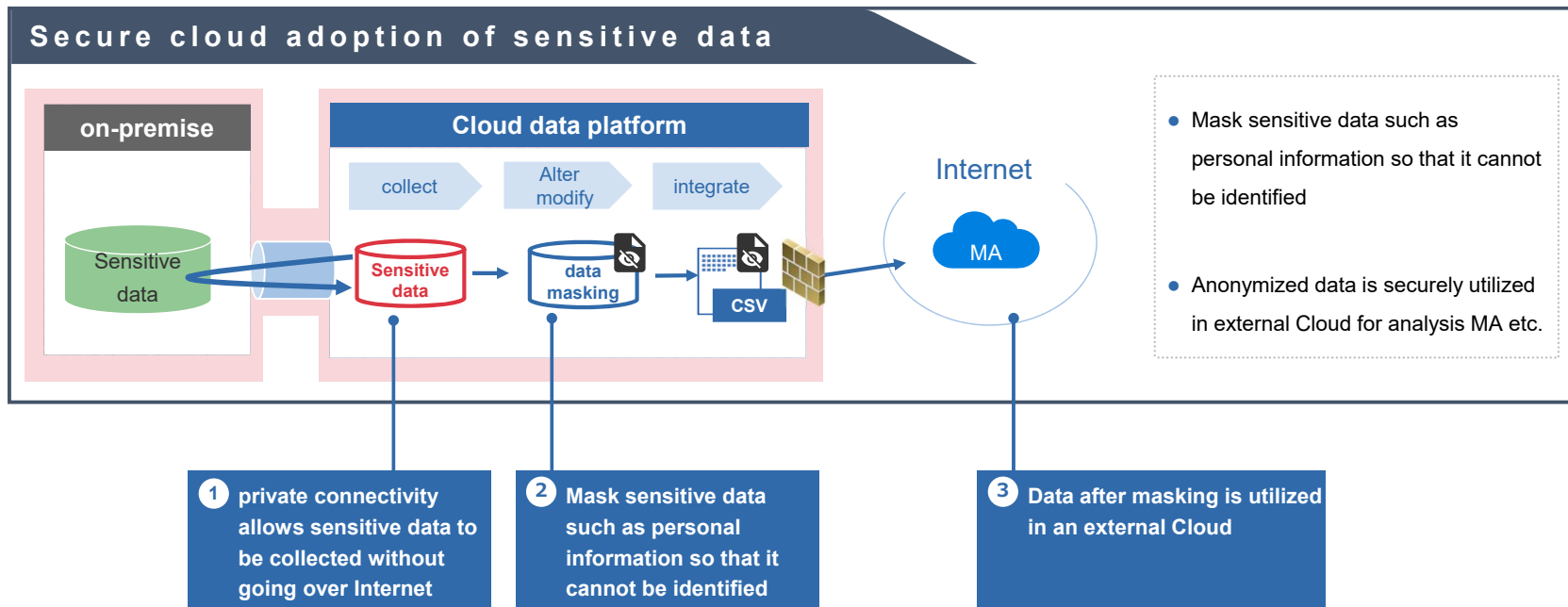


Serve as a hub of data integration for Multicloud environment

Able to realize Cloud utilization by the right person in the right place



Sensitive data such as personal information stored on-premise is made confidential by data masking. Data can be used safely in Cloud



No initial cost. No minimum contract period.

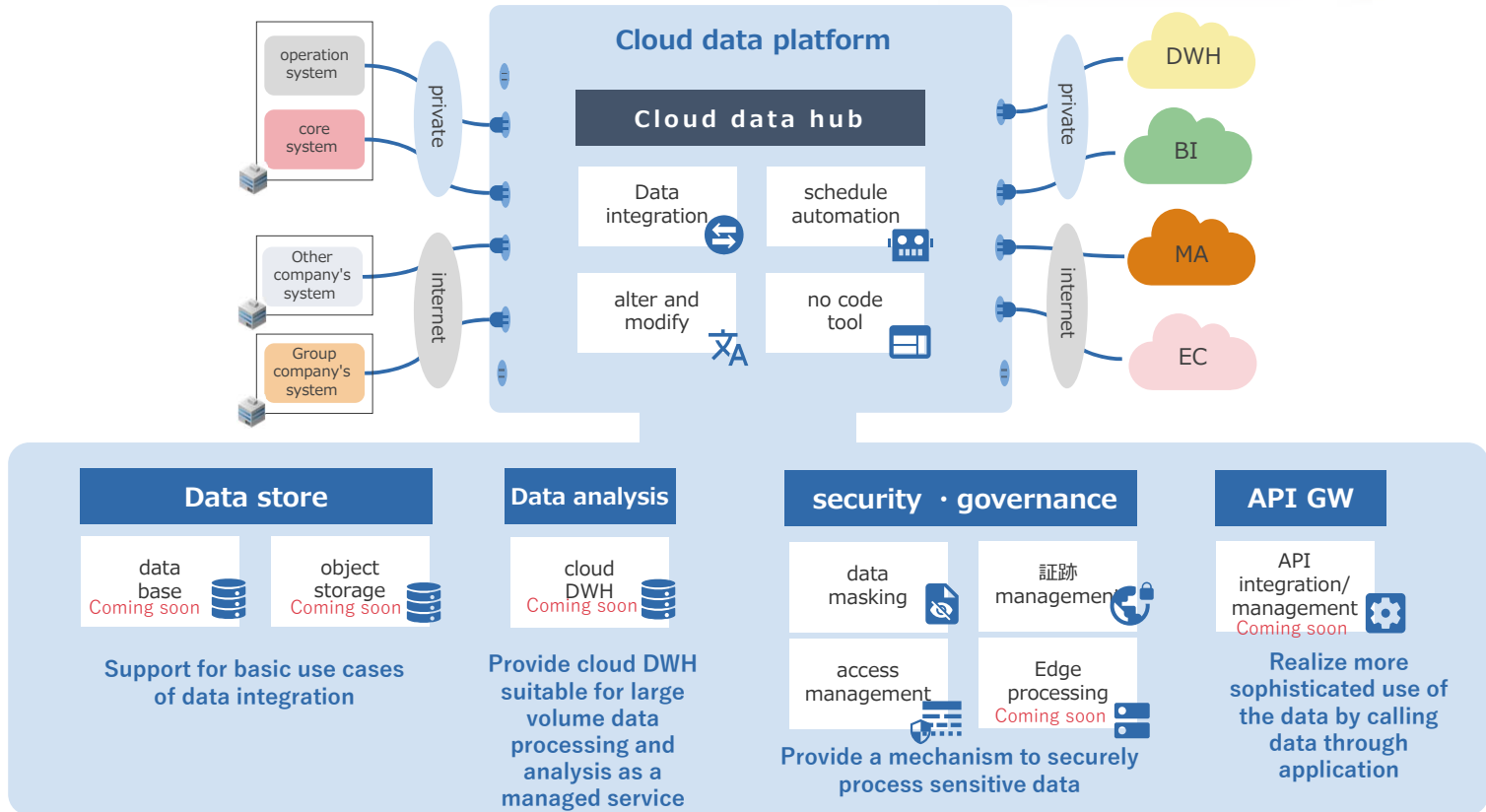
Depending on data integration volume and requirement, one can flexibly change editions and resources. Able to start small

Edition		
Entry	Standard	Enterprise
<ul style="list-style-type: none">Edition suitable for small start with minimal data integration functions and database integration. <p>From JPY120 thousand per month</p>	<ul style="list-style-type: none">Standard edition maintains a comprehensive set of data integration functions. External triggers and sub-flow processing are available, allowing for more advanced functionality than Entry. <p>From JPY290 thousand per month</p>	<ul style="list-style-type: none">Edition designed for large-scale, high-volume processing that implements functions such as recovering from the middle of processing in the event of an error (priority execution and check pointing). <p>From JPY350 thousand per month</p>



Computing resource		
SMALL	MIDDLE	LARGE
<ul style="list-style-type: none">CPU : 2vcpuMemory size : 3GBdata store volume : 500GB (encrypted)	<ul style="list-style-type: none">CPU : 6vcpuMemory size : 12GBdata store volume : 500GB (encrypted)	<ul style="list-style-type: none">CPU : 12vcpuMemory size : 24GBdata store volume : 500GB (encrypted)

Future Development Plans





The internet started in Japan in 1992, along with IIJ. Since that time, the IIJ Group has been building the infrastructure for a networked society, and with our technical expertise, we have continued to support its development. We have also continued to evolve our vision for the future and innovate to make it a reality. As an internet pioneer, IIJ has blazed the trail so that others could realize the full potential of a networked society, and that will never change. The middle "I" in "IIJ" stands for "initiative," and IIJ always starts with the future.

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