

Integrated Operations Management

Job management



Introducing JP1/Automatic Job Management System 3

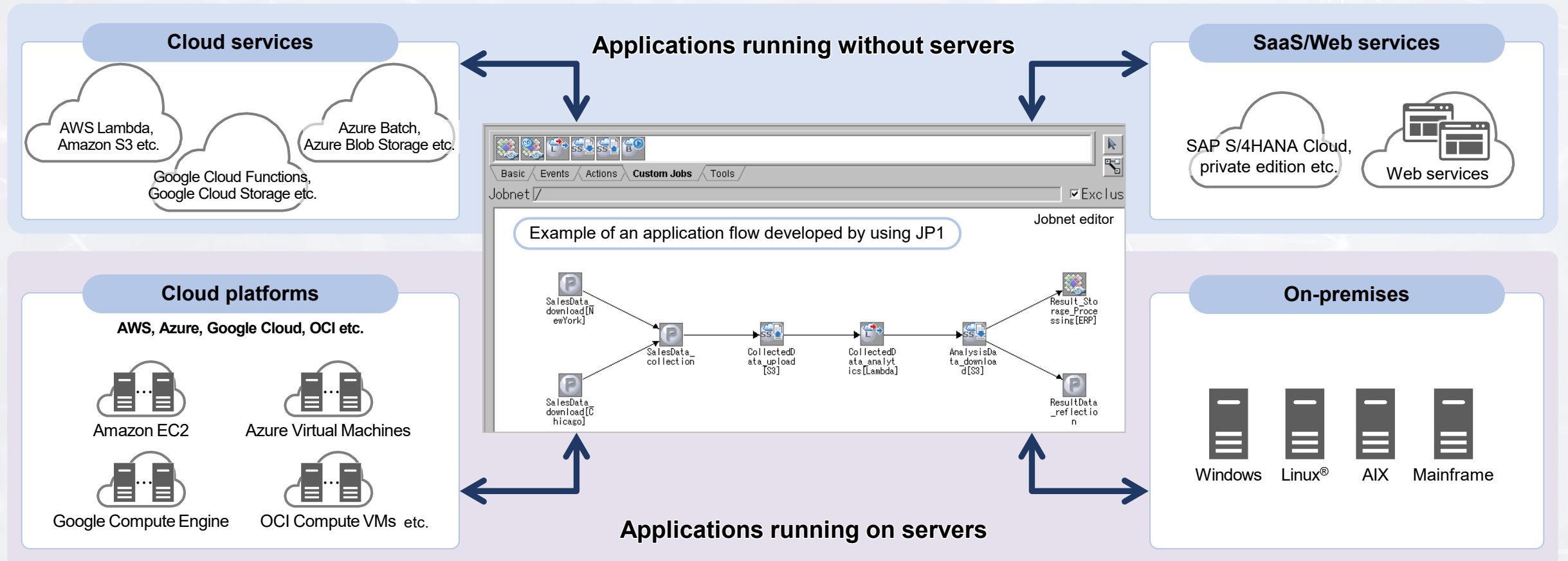
- Achieving automatic and stable operation of business systems -

Hitachi, Ltd.

Contents

- **Overview of JP1/Automatic Job Management System 3**
- **What you can do**
- **Example of a system configuration**
- **Support for safe use**

Improve efficiency and save labor in the development and execution of an application flow, and achieve automatic and stable operation of business systems in various environments



What you can do

- **What you can do with JP1/Automatic Job Management System 3**
- **Easily develop complex application flows**
- **Enable detailed scheduling according to operations**
- **Connect applications that run in different environments**
- **Intuitively understand the status of operations**
- **Visualize operation schedules and results**
- **Address operation failures in a variety of ways**
- **Visualize the health of your job management system**
- **Automate switching of application flows**

Develop and execute application flows

- Easily develop complex application flows
- Enable detailed scheduling according to operations
- Connect applications that run in different environments

Increased efficiency

Labor savings

Stable operation

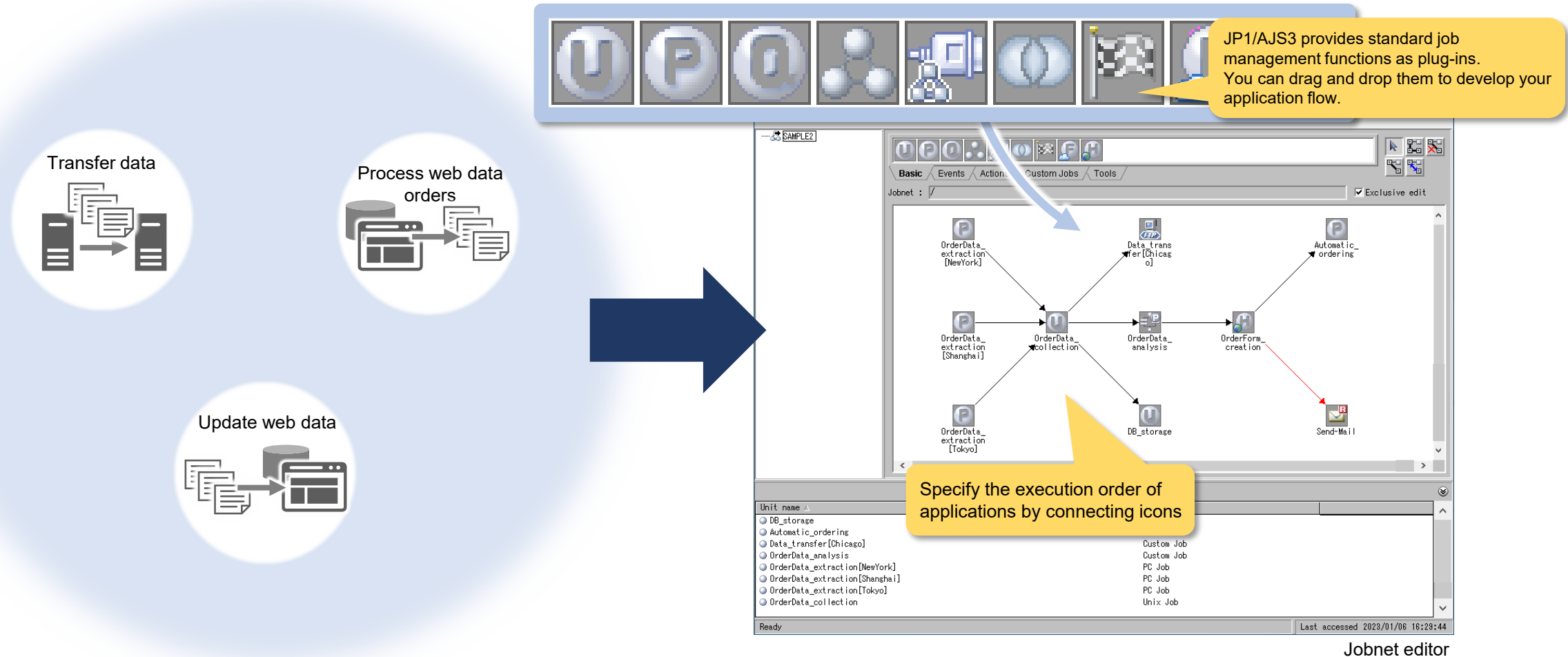
Monitor operations

- Intuitively understand the status of operations
- Visualize operation schedules and results
- Address operation failures in a variety of ways

Operate tasks

- Visualize the health of your job management system
- Automate switching of application flows

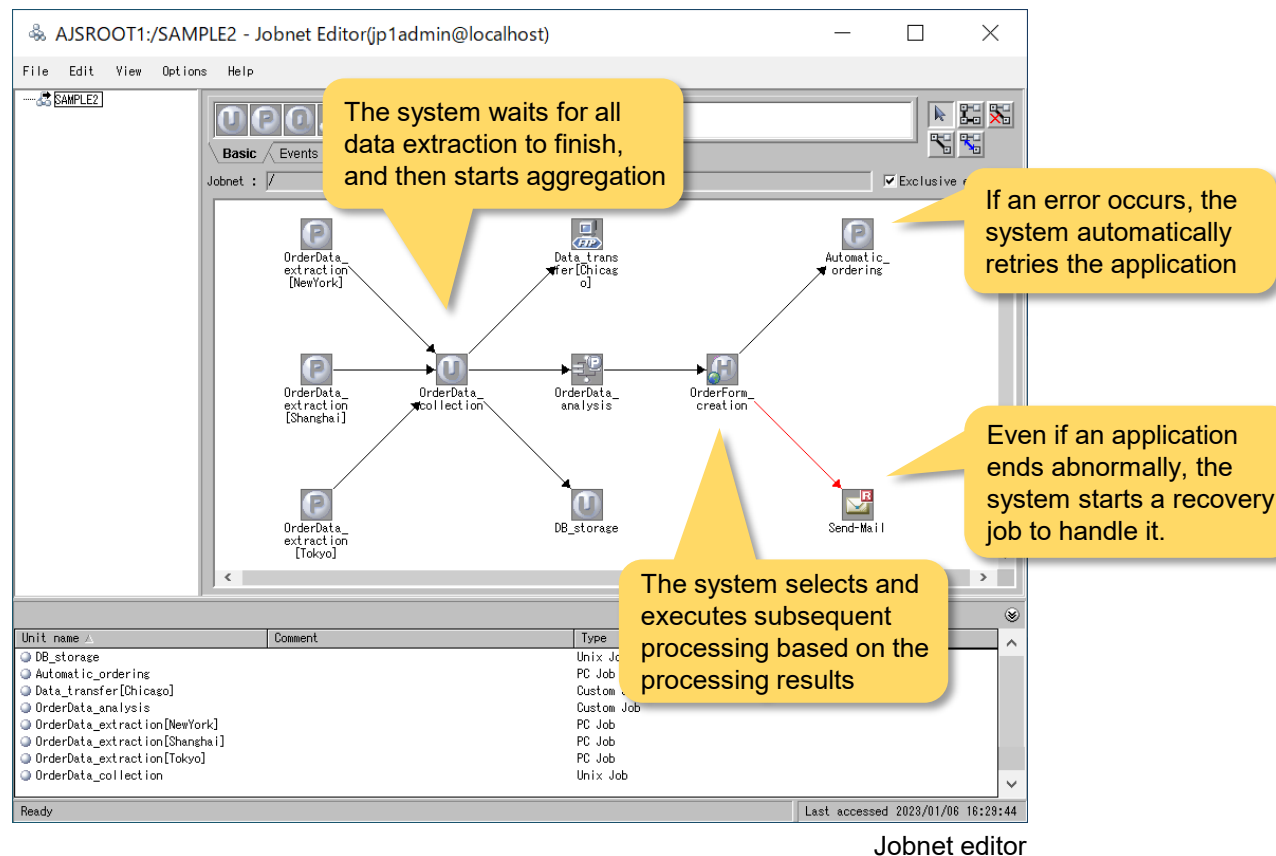
You can use a GUI to define the series of tasks in a complex application flow that you want to automate, and achieve low-code development of the application flow.



Control application flows that have complex execution conditions

You can easily develop application flows that have complex execution conditions. For example, you can specify that the system must wait for multiple processes to finish before it starts the next process, or the system can switch the next process to be executed depending on the processing results.

Automatically execute processing based on execution conditions such as waiting, branching, normal/error sorting, etc.

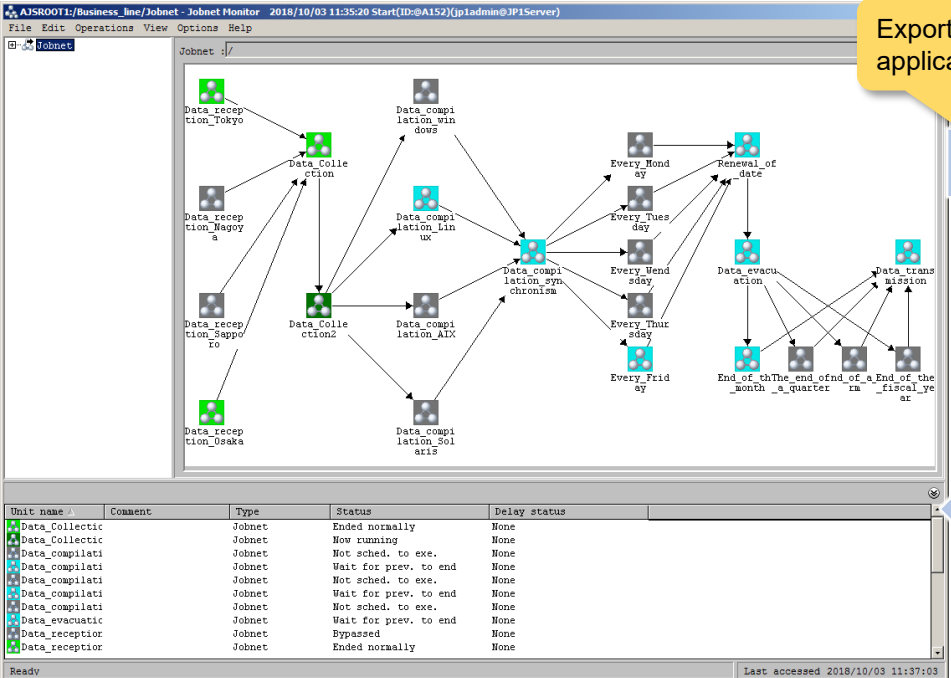


Easily develop complex application flows

Improve the efficiency of making changes to a complex application flow

After you use a GUI to develop an application flow, you can export it into an Excel file, edit it, and import it.

By adding, modifying, and batch replacing Excel files, you can streamline the work required to modify an application flow.



Jobnet Monitor

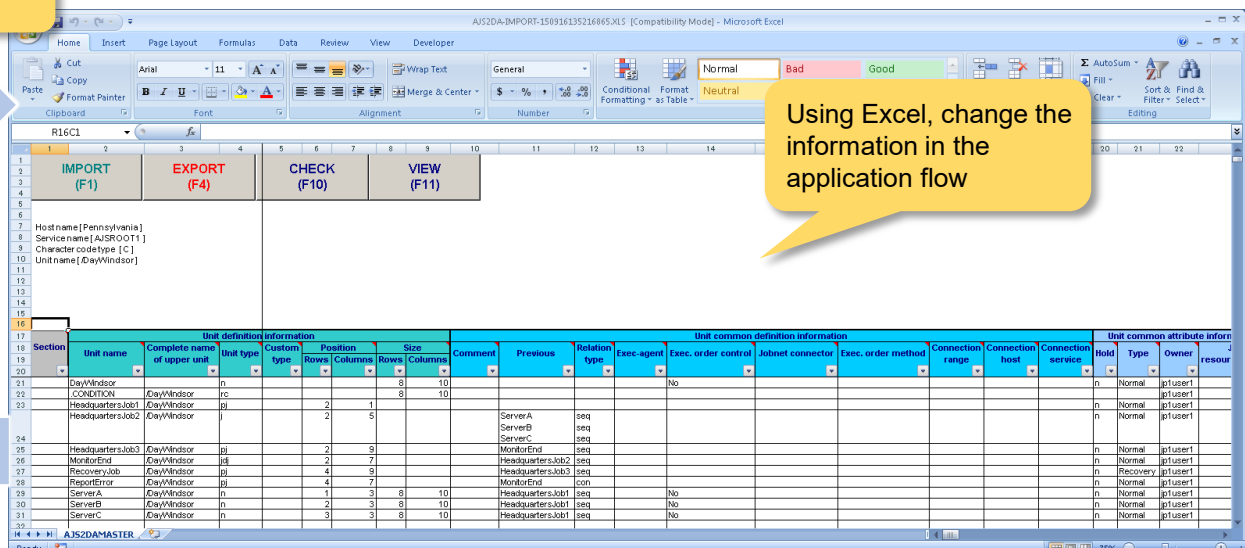
Unit name | Comment | Type | Status | Delay status

Unit name	Comment	Type	Status	Delay status
Data_Collectio		Jobnet	Ended normally	None
Data_Collectio		Jobnet	Now running	None
Data_Compilati		Jobnet	Not sched. to exe.	None
Data_Compilati		Jobnet	Wait for prev. to end	None
Data_Compilati		Jobnet	Not sched. to exe.	None
Data_Compilati		Jobnet	Wait for prev. to end	None
Data_Compilati		Jobnet	Not sched. to exe.	None
Data_Compilati		Jobnet	Wait for prev. to end	None
Data_receptio		Jobnet	Bypassed	None
Data_receptio		Jobnet	Ended normally	None

Job definition information

Export the developed application flow

Using Excel, change the information in the application flow



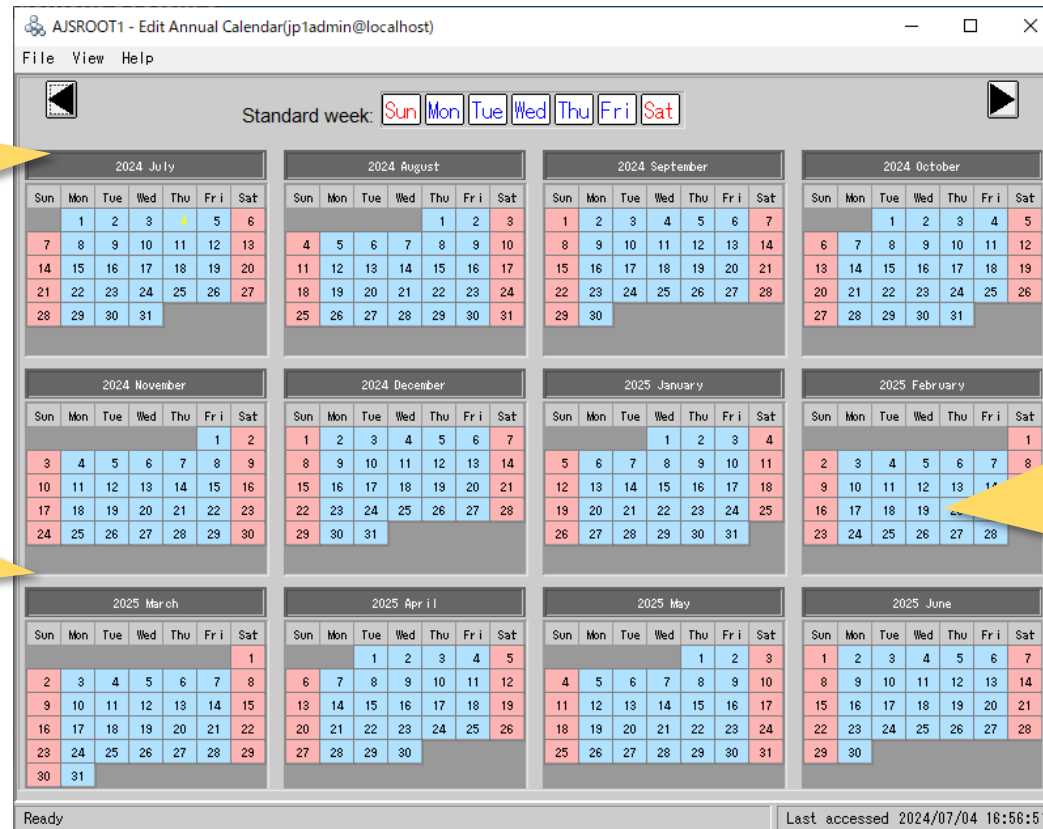
Definition information management template

Import the changed application flow

Control the execution of applications based on a calendar with business days and non-business days set according to the calendar and work schedule for each site. These include monthly, weekly, or specific day schedules and rescheduling of non-business day schedules.

You can define business days and non-business days to match your particular operations.

You can perform operations using different calendars for different sites.



Example of scheduling the execution date

Execute a job every Wednesday
(reschedule for non-business days)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			○			
		○	○			
			○			
			○			
			○			

Reschedule for non-business days

(○ : Execution date □ : Business day ■ : Non-business day)

Edit Annual Calendar

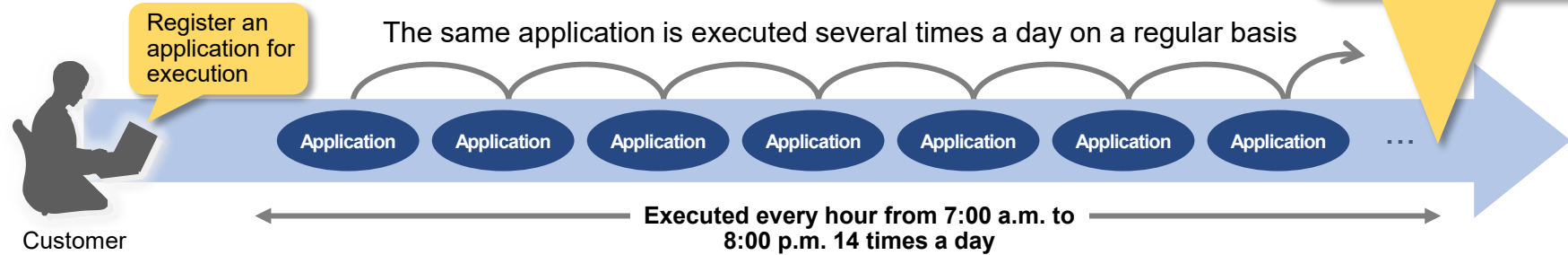
Automatically execute applications according to various triggers

There are many patterns of execution triggers, and applications can be executed automatically when a specified trigger occurs.

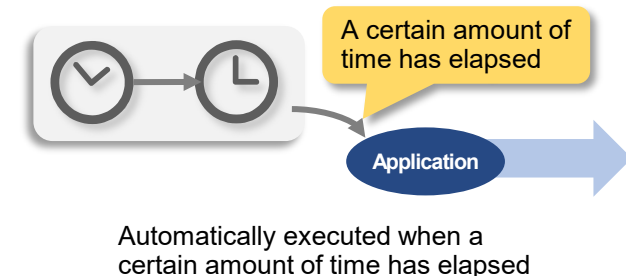
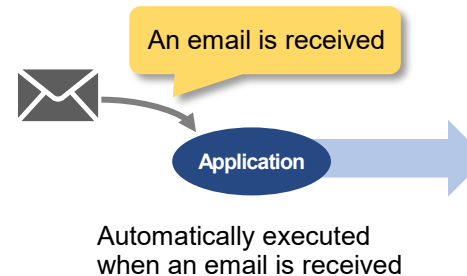
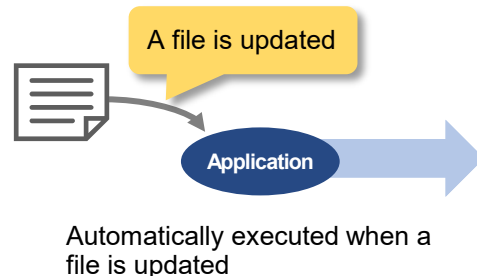
Executed immediately



Executed repeatedly



Executed when certain events occur

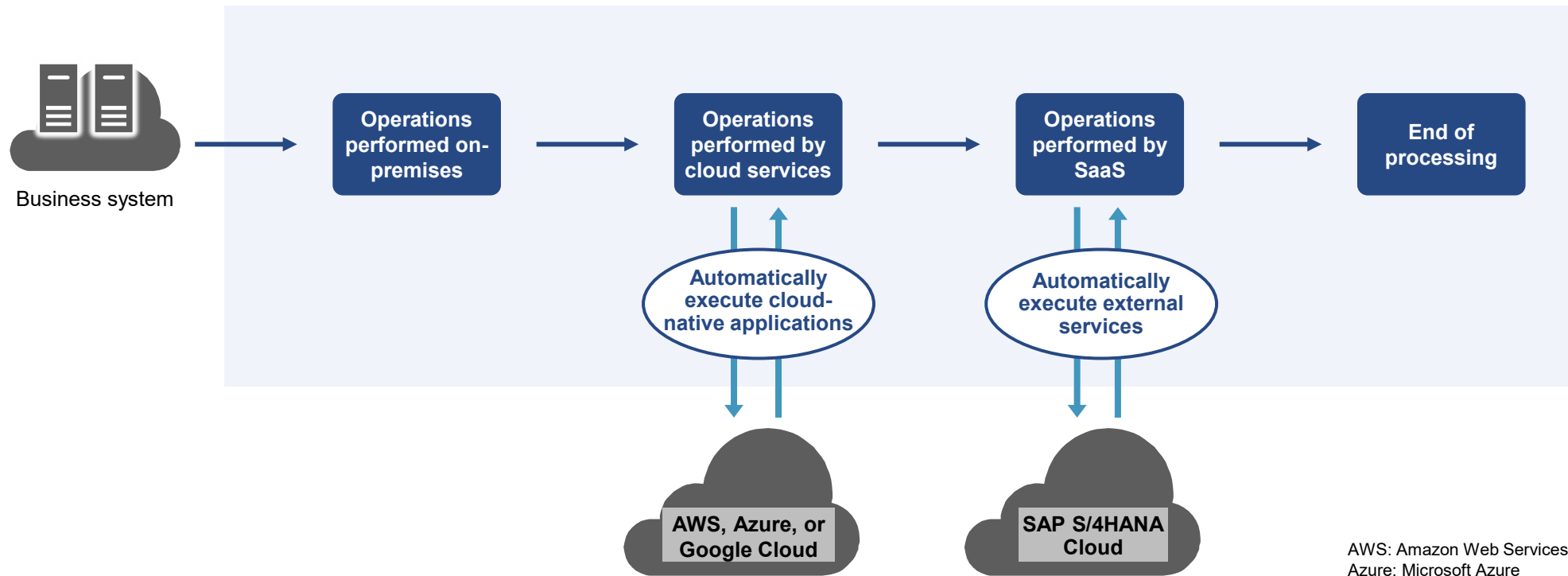


Connect applications that run in different environments

Control the execution of all applications

You can automatically execute applications that are executed on-premises, or you can link with and automatically operate serverless applications executed by cloud services or SaaS.

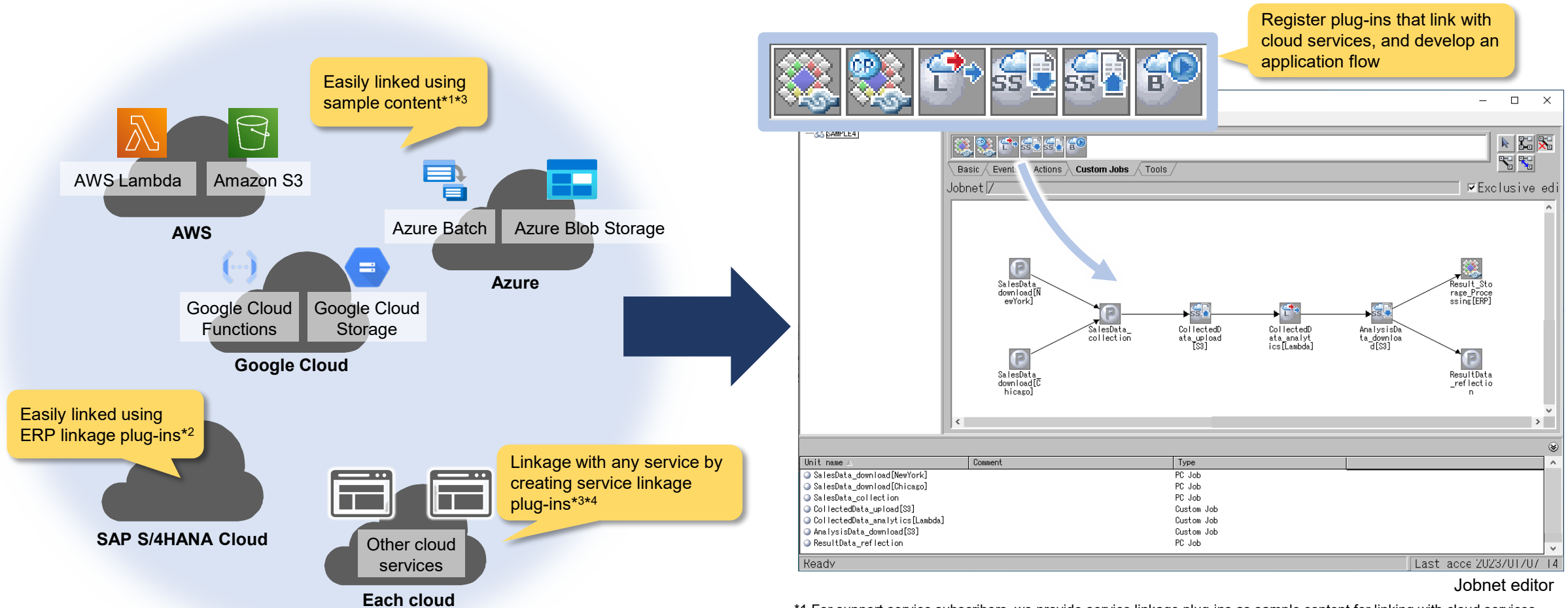
Centrally manage applications executed in various environments



Connect applications that run in different environments

Easily link applications with various cloud services

You can use a GUI to define applications to be executed by cloud services such as AWS, Azure, and Google Cloud, and easily link applications executed by multiple cloud services.



AWS: Amazon Web Services
Amazon S3: Amazon Simple Storage Service
Azure: Microsoft Azure

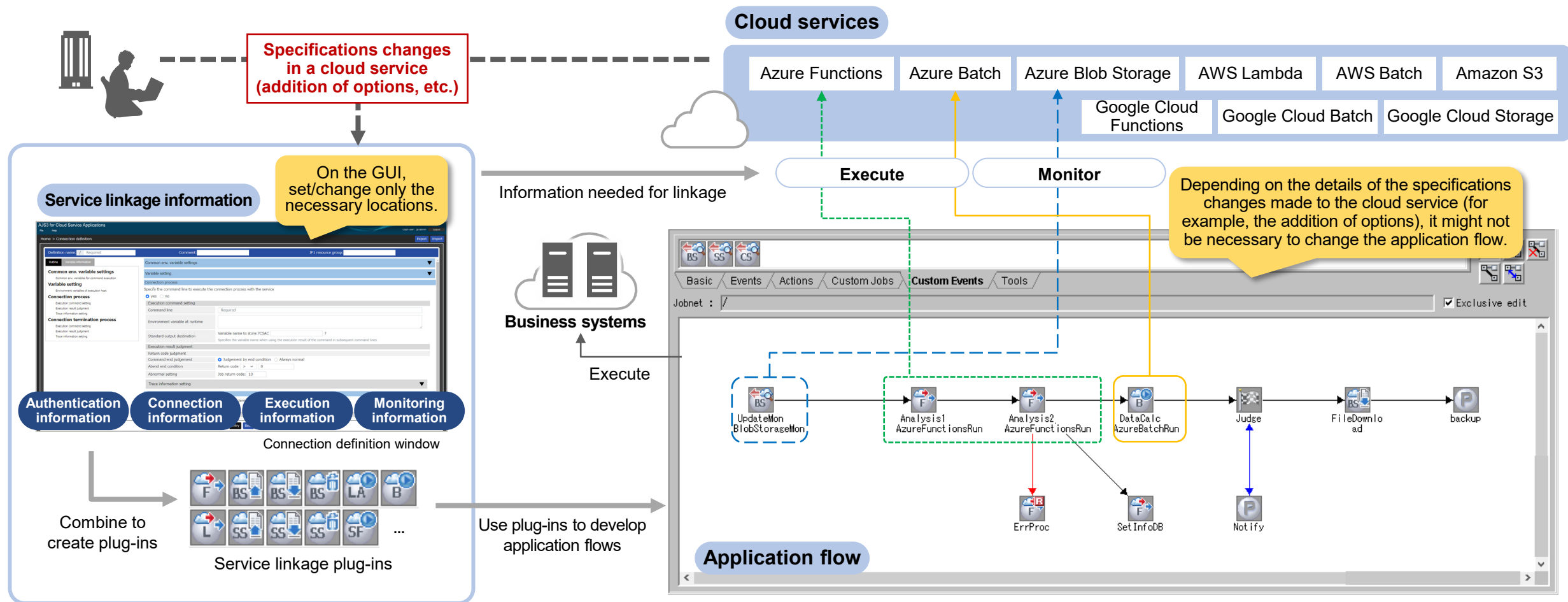
*1 For support service subscribers, we provide service linkage plug-ins as sample content for linking with cloud services.

*2 Requires JP1/Automatic Job Management System 3 for Enterprise Applications.

*3 Requires JP1/Automatic Job Management System 3 for Cloud Service Applications.

*4 When linking with any cloud service using service linkage plug-ins, the customer must verify the linkages.

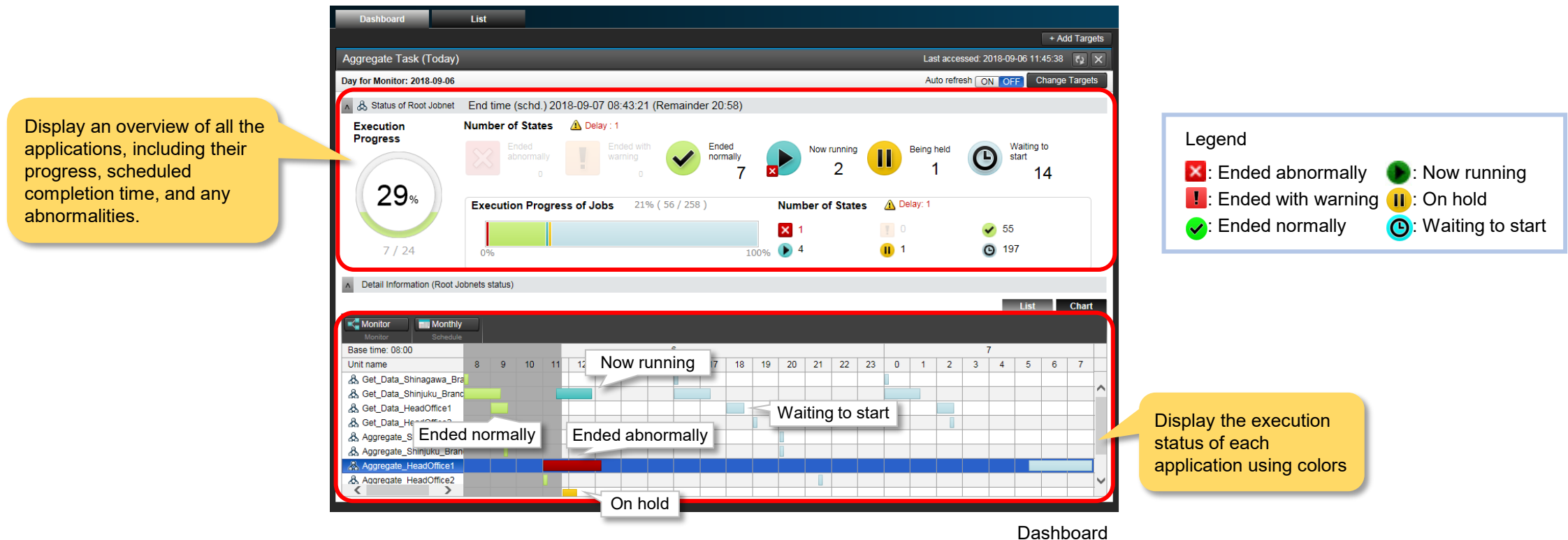
Separately manage application flows and service linkage information (authentication information, connection information, execution information, and monitoring information). Even if the specifications of a cloud service change, you can still link to that cloud service after implementing the minimum necessary changes.



Understand the progress and execution status of your applications

You can check the progress of all applications, the number of executions by status (such as normal ends, abnormal ends, and delays), and the execution status of each application.

Display the status of applications in a single window



You can check the execution results and schedule of applications on a monthly basis in the monthly schedule and on a daily basis in the daily schedule.

Monthly schedule:
Check the schedules and actual results on a monthly basis

You can check the execution results and execution schedules of all applications in a list.

With one glance, you can check whether the previous day's applications have finished normally and whether there are any errors in the future schedules, together with past results.

Customer

Check the monthly execution plans and results for each application.

Monthly Schedule

Legend: Icons showing the execution schedule

Wait for start time

Running + Warning

Ended normally

Future schedules

Job execution schedules can be verified, added, edited, and deleted.

Past results

Daily schedule: Check the execution status of applications for the current day in real time

You can check the status of operations in real time in Gantt chart format. You can check the execution status of applications.

Customer

Display the execution results of the application you clicked

Daily schedule window

Understand job execution statuses at a glance.

Ended normally

In progress

Waiting for start time

Only jobs that were executed on the current day are highlighted.

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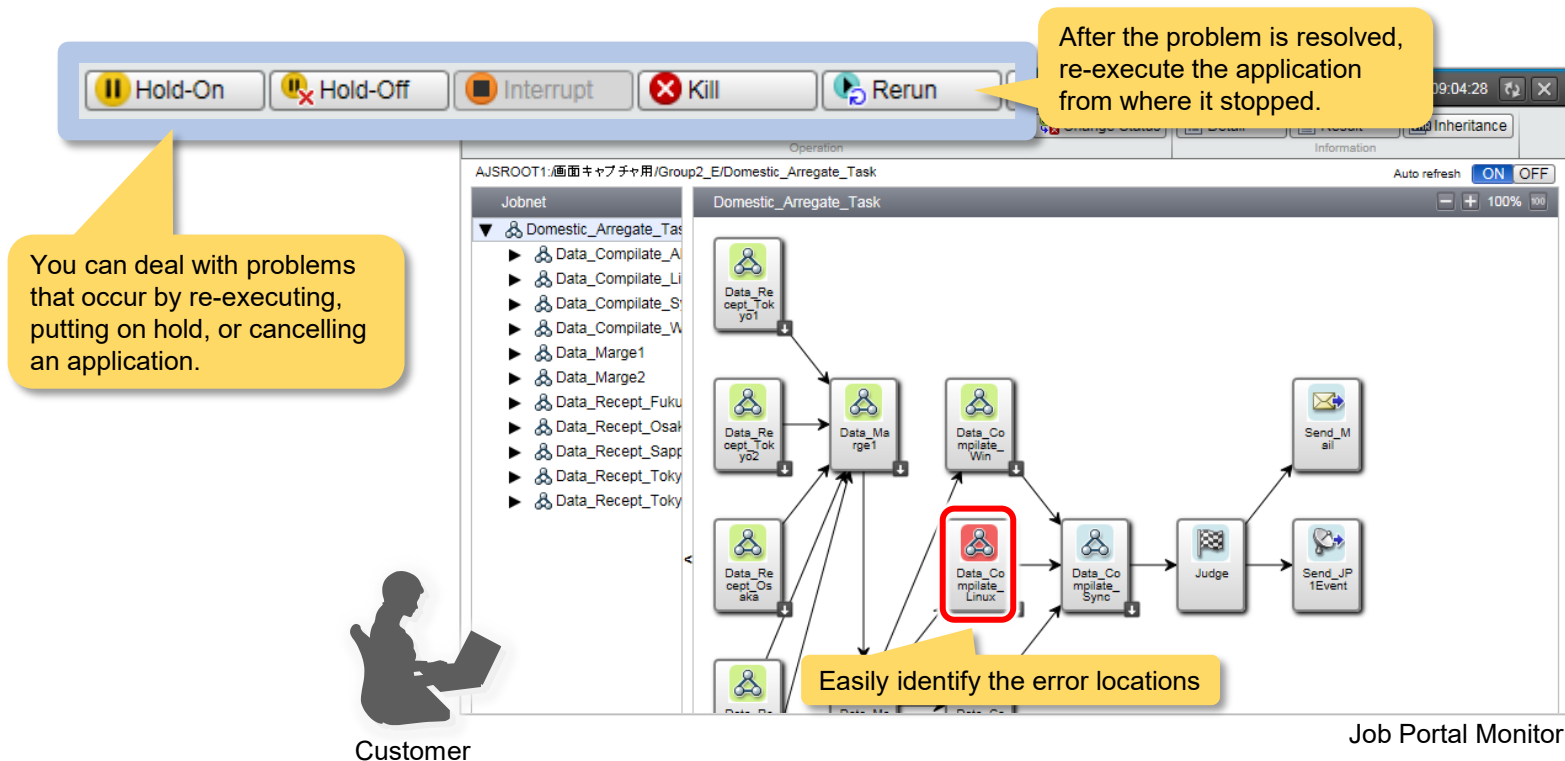
Address operation failures in a variety of ways

Quickly troubleshoot problems

You can easily identify where a problem is occurring, and smoothly take action such as suspending the target application or putting it on hold.

After resolving the problem, you can resume the application from where it was suspended or put on hold.

Check the status and suspend, hold, or resume the target applications on the same window



Visualize the health of your job management system

Quickly understand the status of the entire job management system

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On a single window, you can centrally monitor the status of the job management system, such as the scheduler service that controls the execution of applications and the database of the job management system. You can check at a glance whether the job management system is working without any problems.

In the summary window, check whether there are any factors that might cause operations to stop

Check trends in the number of job executions per day or per hour

Number of job executions

Check the current status of the scheduler service

Management portal - Summary

Management portal - Scheduler Service



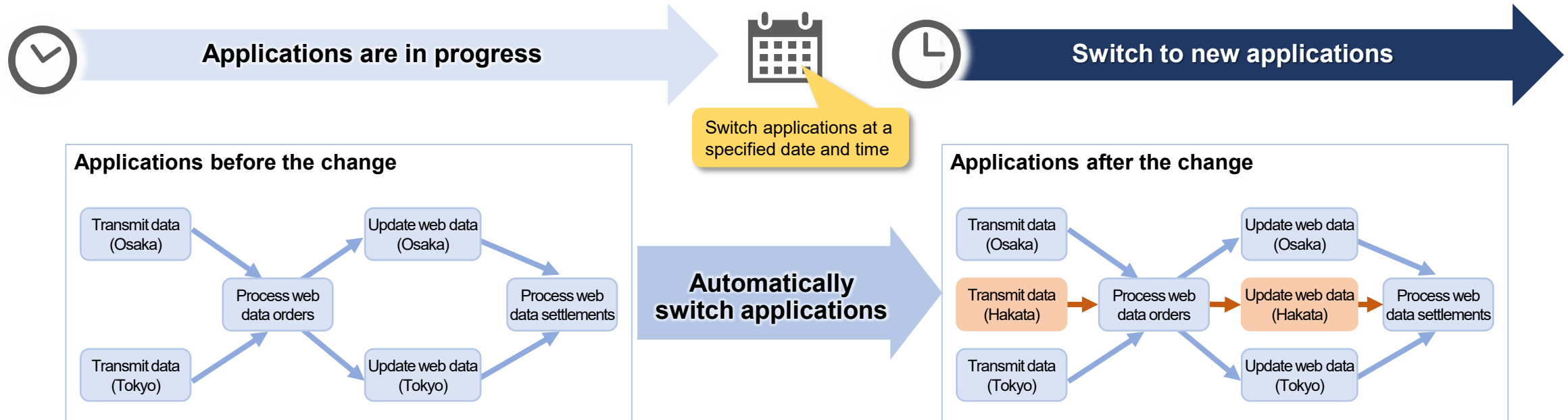
System administrator

JP1/AJS3 - Manager: JP1/Automatic Job Management System 3 - Manager

Automatically switch applications at a specified date and time

When changing an application flow, you can switch it to a new application flow at a pre-specified switching date and time without stopping currently running applications.

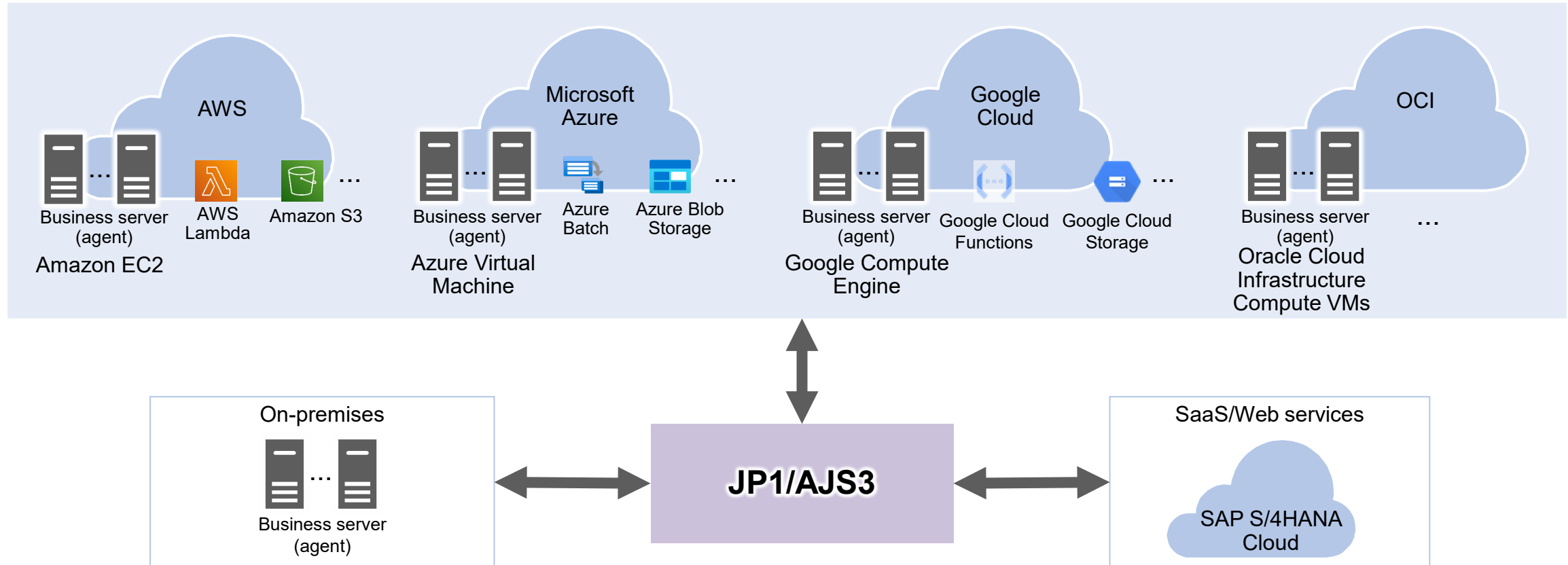
Automatically switch the application flow at a specified date and time while continuing business operations



Example of a system configuration

- **Example of a system configuration**

The system configuration for managing and controlling the execution of an application flow in JP1/AJS3 is as follows.



AWS: Amazon Web Services
Amazon S3: Amazon Simple Storage Service
Amazon EC2: Amazon Elastic Compute Cloud
OCI: Oracle Cloud Infrastructure
JP1/AJS3: JP1/Automatic Job Management System 3

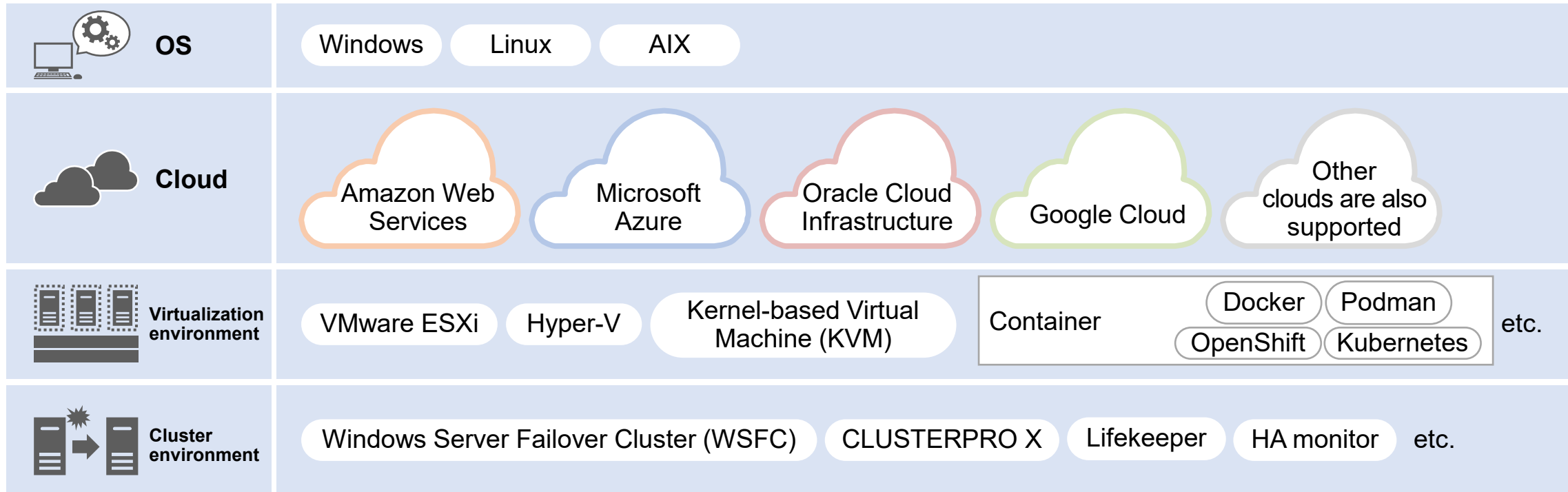
When linking with any cloud service using service linkage plug-ins, the customer must verify the linkages.

Support for safe use

- **Support for evolving and diversifying system environments**
- **JP1 professionals assist customers**
- **One-stop problem resolution at an early stage**
- **Long-term use with peace of mind and guaranteed compatibility with preceding versions**
- **Global use with peace of mind**
- **Reliable quality for customers**

You can introduce JP1/AJS3 according to your system environment, such as on-premises or cloud.

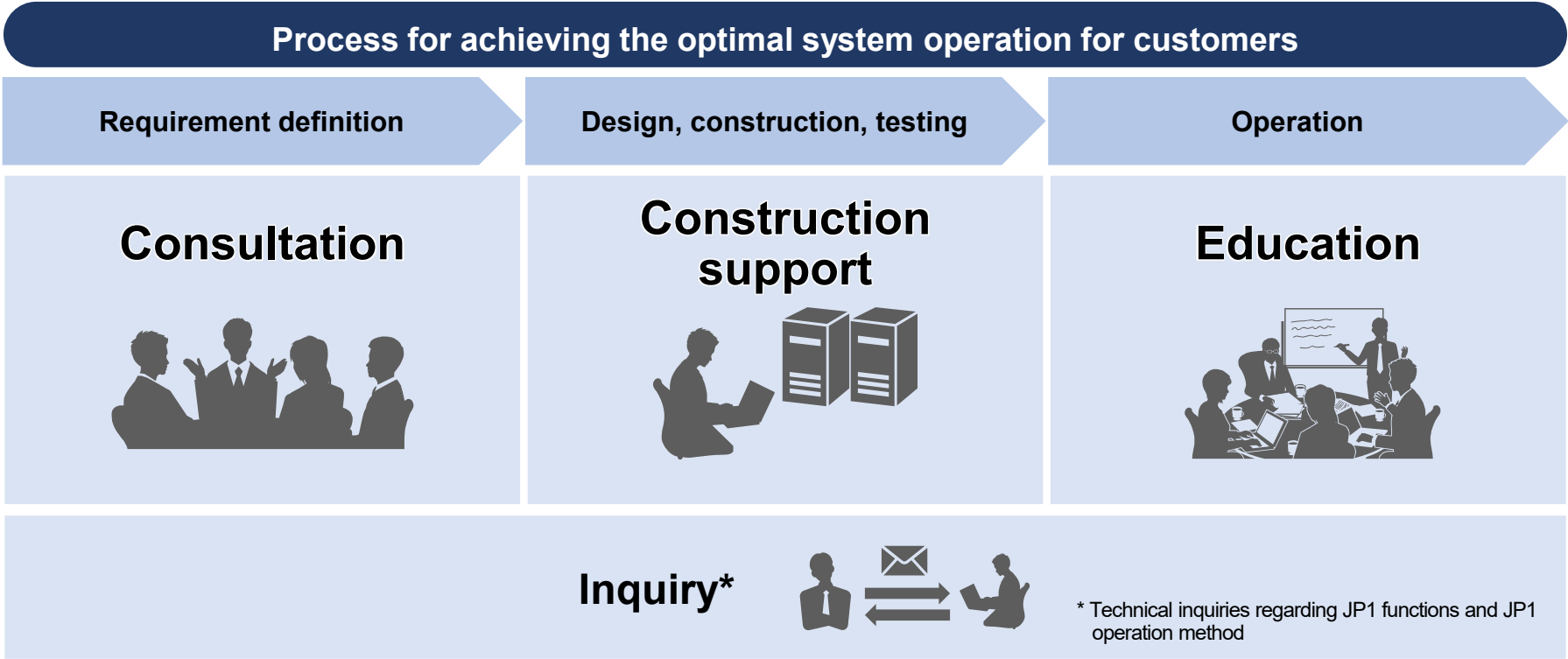
We respond flexibly and quickly to evolving and diversifying environments and your needs.



JP1/AJS3 runs on Japanese, English, and Chinese operating systems.

We can achieve the optimal system operation for our customers.

JP1 professionals can derive a system operation method suitable for the customer's requirements, system scale, and environment, and help achieve a network management system.



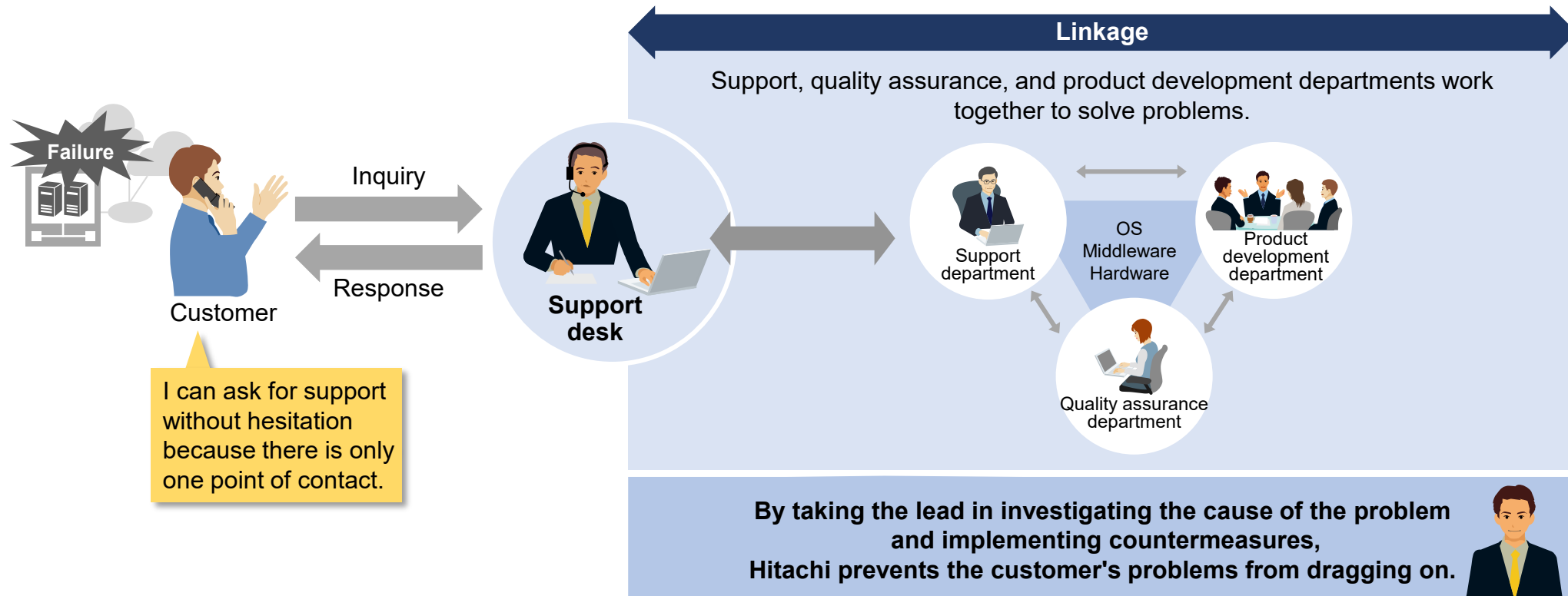
By involving JP1 professionals, you can clarify system operation requirements, shorten the examination and implementation period, and smoothly hand over to the operation team.

JP1 professionals are engineers who have a specified level of JP1 skills and have been certified based on the JP1 Engineer Qualification System.

**We provide one-stop support to solve problems quickly.
This reduces the burden on customers of a problem occurs.**

We provide support for early stage resolution of complex problems, which can involve multiple elements such as operating systems and middleware.

One-stop support resolves problems quickly, prevents recurrence, and ensures stable operation of customer systems

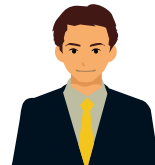


Long-term use with peace of mind and guaranteed compatibility with preceding versions

You can use JP1 for a long time and expand your business systems without worry.

We provide continuous support even when the customer's system has a long life cycle.
JP1 ensures compatibility between versions, allowing for gradual system expansion.

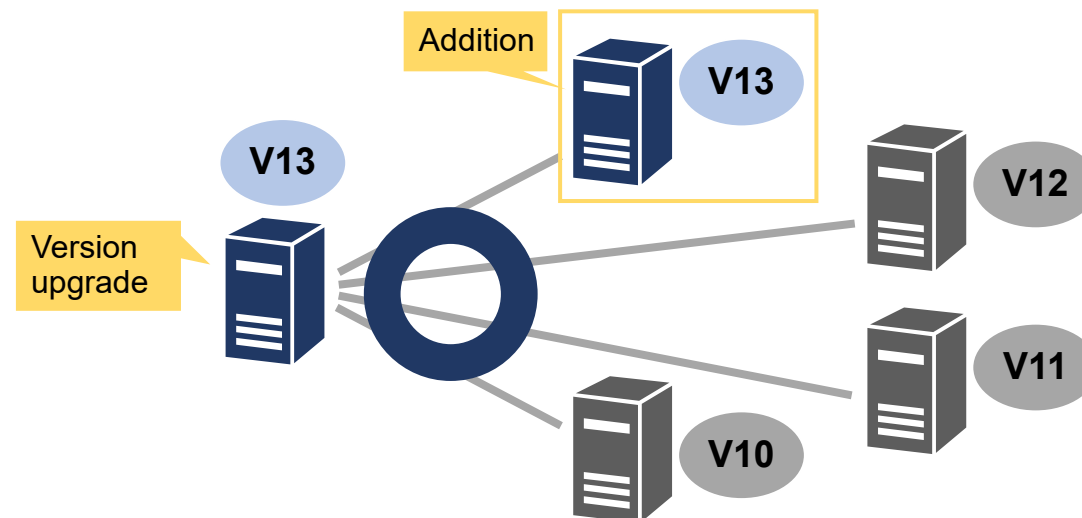
Long-term support for the life cycle of customer systems



At least 10 years of support is guaranteed

with the same version

Flexible support for business system expansion



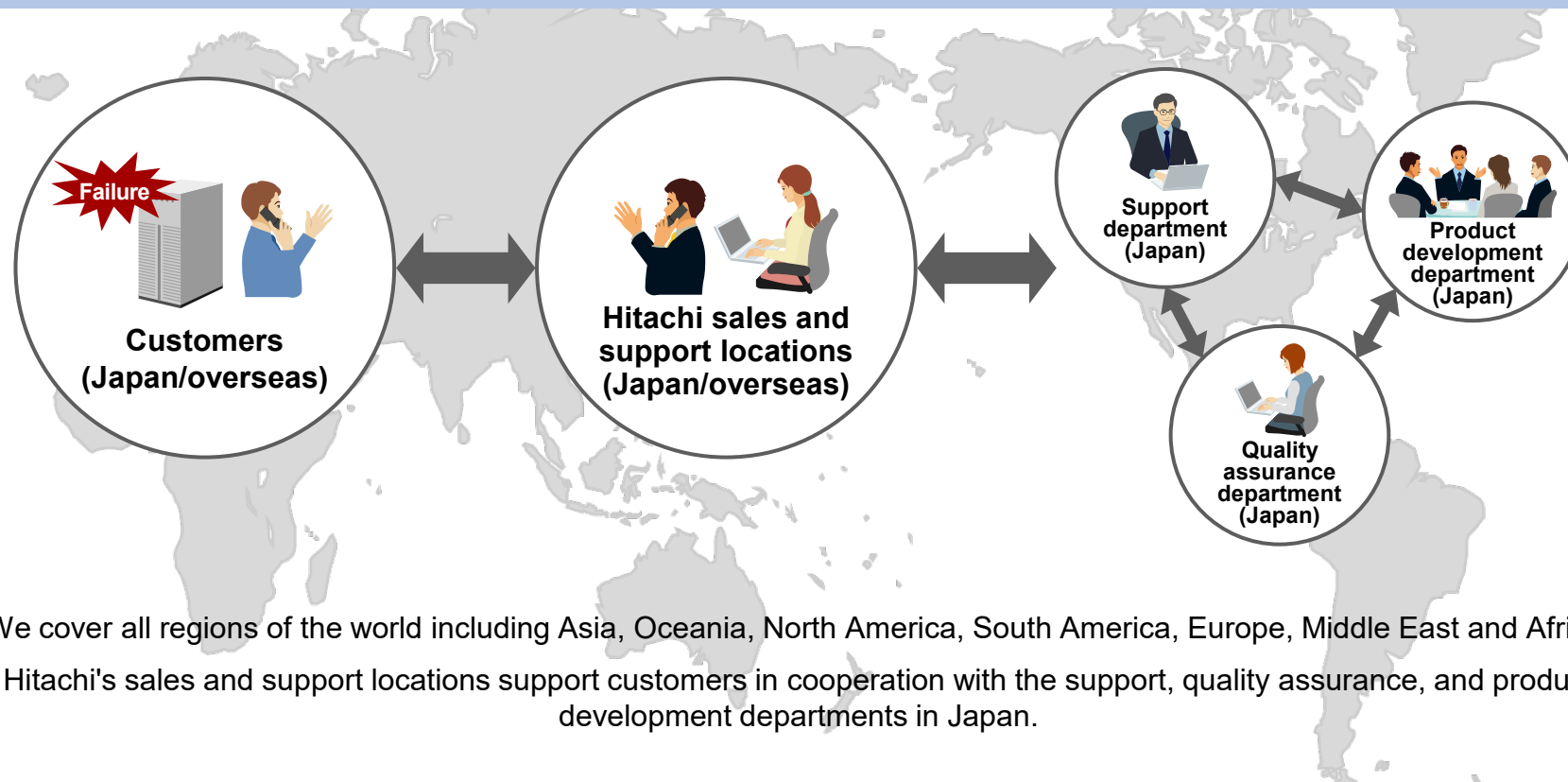
Guaranteed compatibility with the preceding three major versions.
You can operate your system even if it contains different JP1 versions.

Even if you upgrade JP1, interface compatibility is maintained.
Therefore, you can use the linked products, services, user programs without modification.

You can use JP1 with peace of mind around the world.

We support our customers with sales and support locations covering all regions of the world.

Our sales and support locations around the world and in Japan work together to support our customers



Achieve stable operation of mission-critical systems!

We have established a system to maintain high quality and high reliability so that customers can use our products with peace of mind.



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- For the most recent information on the support status of a JP1 product, including supported operating environments, please visit the JP1 website.

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