

**Integrated Operations Management** 

Integrated management

# **Introducing JP1/Integrated Management 3**

- Integrated management of entire systems for more efficient understanding of the system status and faster response -

Hitachi, Ltd.

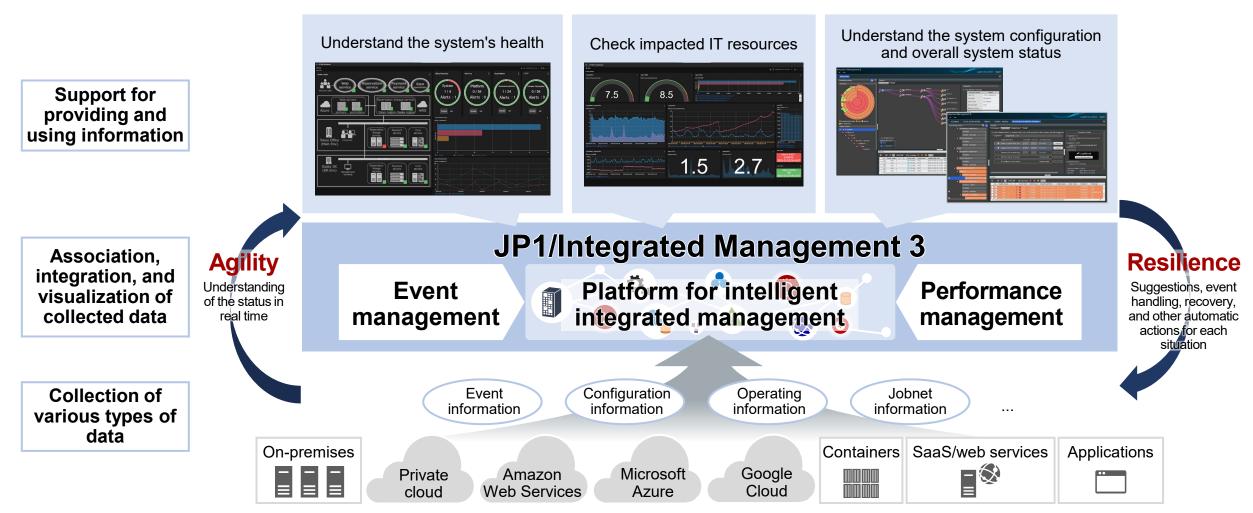


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- What you can do
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By monitoring services and systems and managing their associations in an integrated manner, JP1/Integrated Management 3 helps you achieve observability, understand the health of your systems and businesses, provide users with the information they need, and make use of that information.



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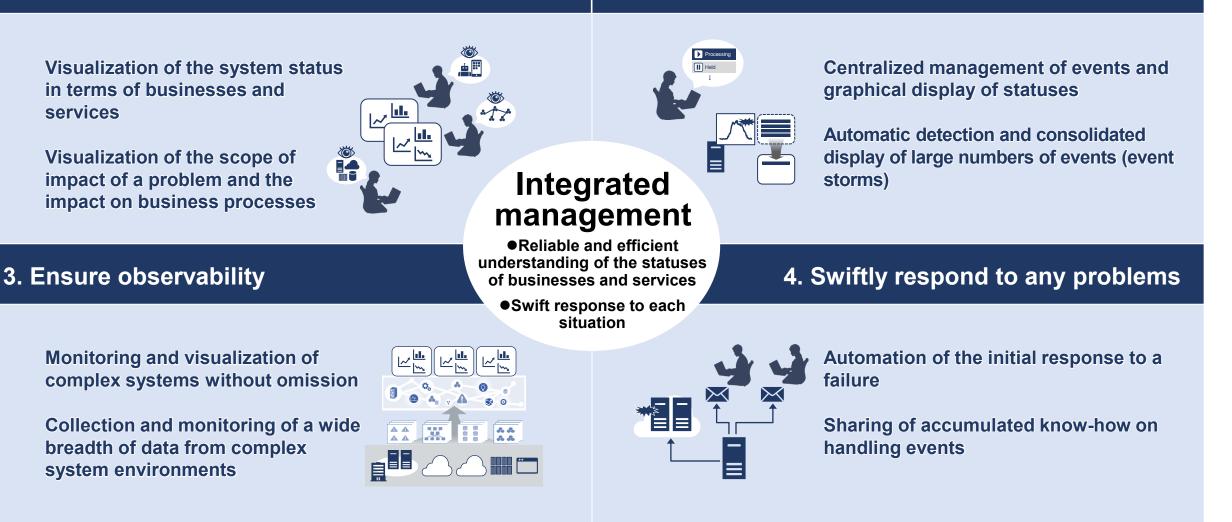
# What you can do

- What you can do with JP1/Integrated Management 3
- Visualization of the system status in terms of businesses and services
- Visualization of the scope of impact of a problem and the impact on business processes
- Centralized management of events and graphical display of statuses
- Automatic detection and consolidated display of large numbers of events (event storms)
- Monitoring and visualization of complex systems without omission
- Collection and monitoring of a wide breadth of data from complex system environments
- Automation of the initial response to a failure
- Sharing of accumulated know-how on handling events

## What you can do with JP1/Integrated Management 3

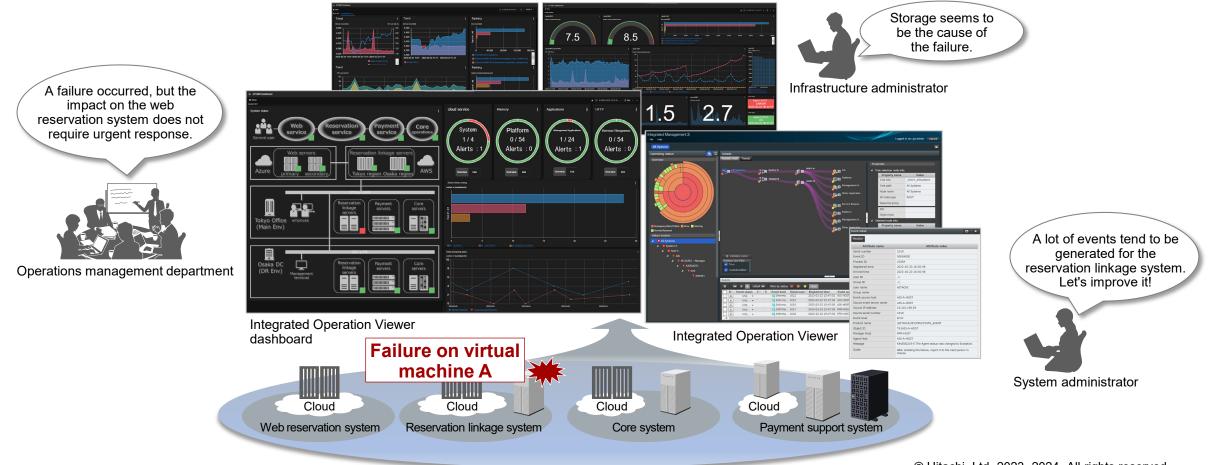
#### 1. Understand your system's health

#### 2. Prevent important events from being overlooked



When a critical failure occurs, you can identify at a glance which businesses and services are impacted. Based on information such as operating rates and trends in important events, you can understand your system's current status and make improvements.

Understand the system's health in real time based on events and information on IT resources



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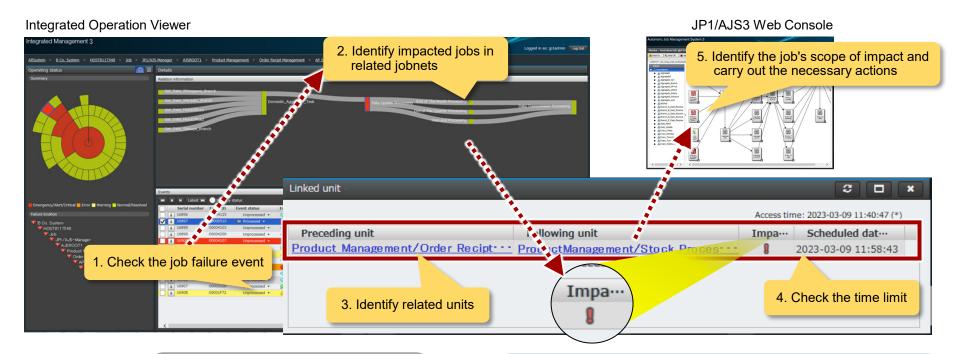
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You can check a color-coded display of the overall operating status of multiple systems, swiftly identifying any problems that have occurred and their scope of impact.

Understand the status of your systems as a whole, and check in detail any locations where a problem has occurred



You can check the relationship between jobnets spanning different JP1/Automatic Job Management System 3 managers and scheduler services, as well as the impact of such jobnets on one another, helping you take into consideration the impact of job failures or job modifications on your business processes.



Because the ended abnor processing v as planned. secondary fa

Because the data refresh processing ended abnormally, the end-of-month processing won't be able to start at 11 p.m. as planned. I'll postpone the start time so a secondary failure doesn't occur. [Association between jobs for which information can be automatically collected and impact can be assessed] Sending and receiving of events, wait conditions, jobnet connectors

In addition to the above, you can also add associations for jobs and jobnets by creating a definition file.

JP1/AJS: JP1/Automatic Job Management System

Events are automatically assigned a severity level based on their description and then color-coded accordingly,

allowing you to instantly identify important events that might cause business processes to stop.

Distinguish among events by their severity level, such as "Emergency/Alert/Critical", "Error", "Warning", or "Normal/Resolved"

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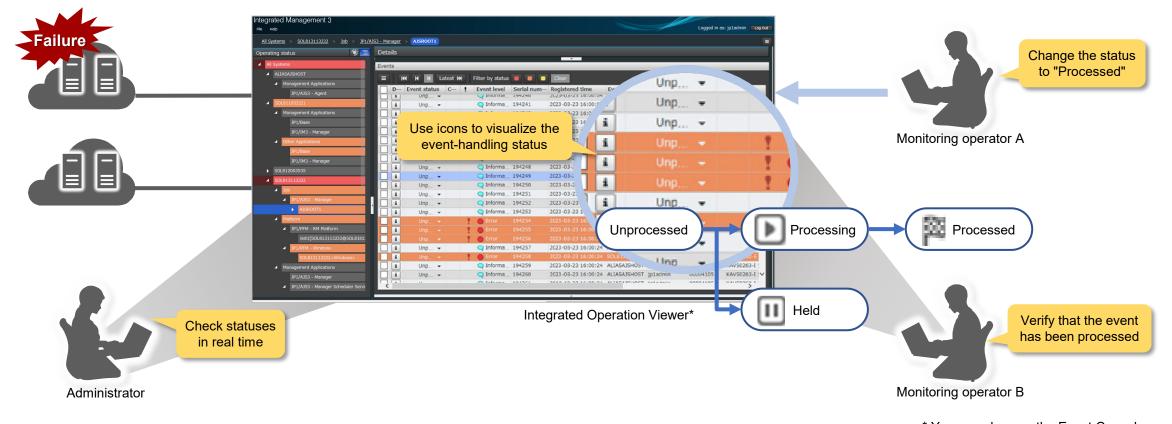
Color-coded by severity level Emergency/Alert/Critical Error Warning Normal/Resolved

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\* You can also use the Event Console.

Screens display icons indicating the status of each event. When a monitoring operator updates the status of an event, the information is shared with other relevant parties in real time.

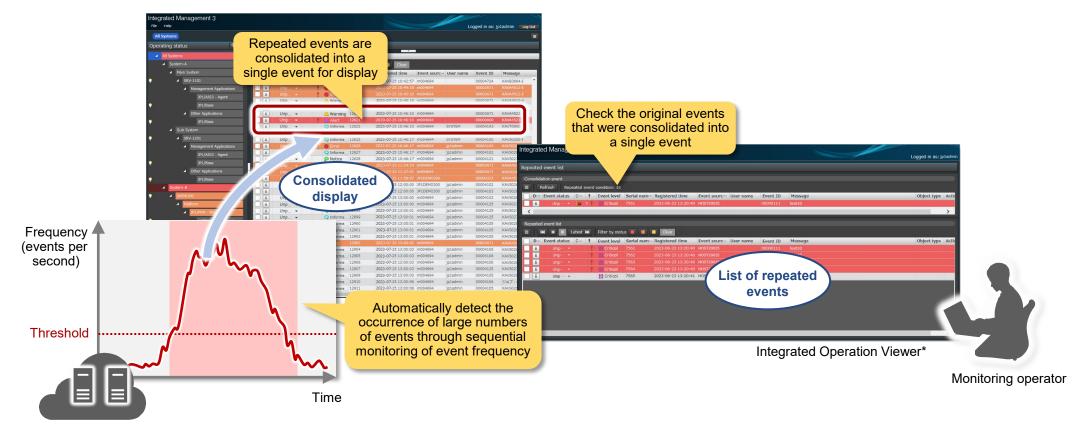
Instantly identify the event-handling status, such as "Unprocessed", "Processing", "Held", or "Processed"



\* You can also use the Event Console.

HITACHI Inspire the Next When large numbers of events are detected, they are automatically consolidated for display based on the host name, log file, etc. Similarly, automatic actions (such as email notifications) are suppressed to prevent repeated execution, thus minimizing the impact on monitoring operations even when an unexpectedly large number of events occur.

Reduce the burden on monitoring operators through the consolidated display of large numbers of events

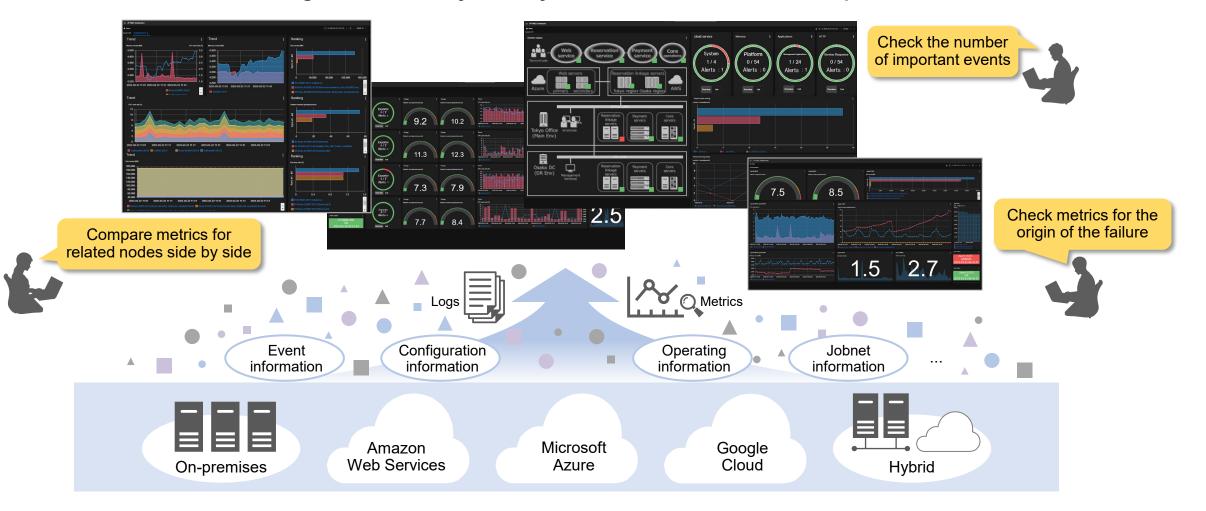


\* You can also use the Event Console.

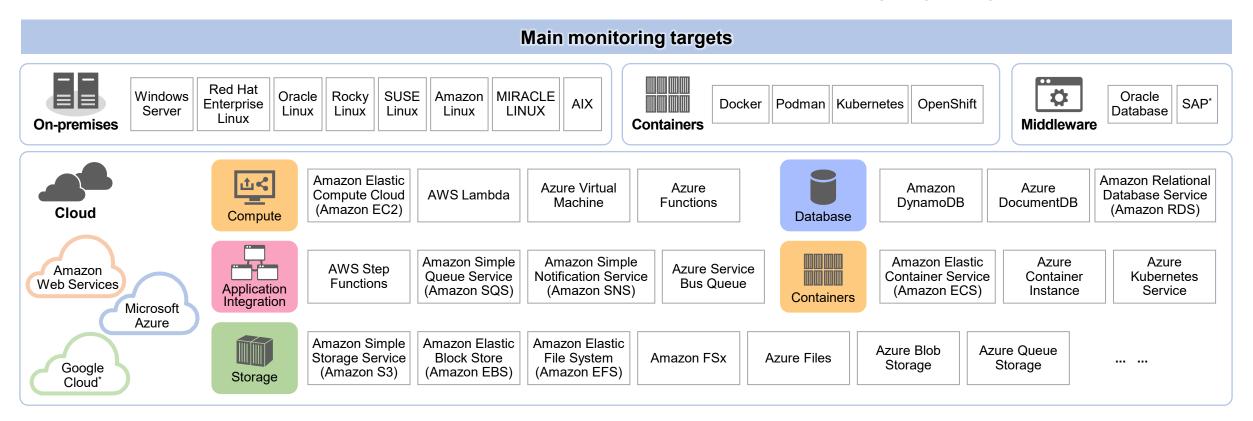
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You can monitor and visualize complex systems (such as those that include on-premises, cloud, and hybrid environments) without omission. Information is visualized from the perspective needed for each administrator, allowing them to swiftly identify the locations and causes of problems.



# From on-premises systems to cloud-native systems, collect and monitor a wide breadth of data to ensure the observability of your systems.





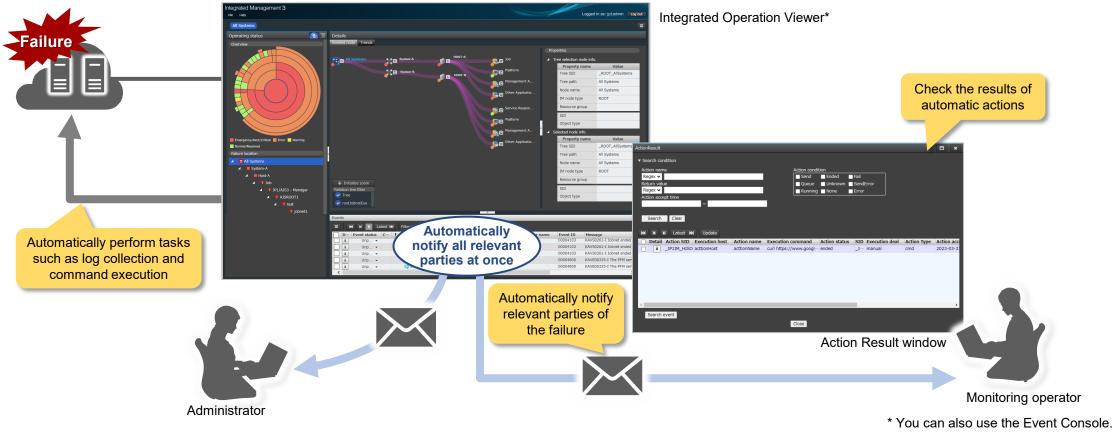
CPU usage rate, amount/percentage of free memory, free disk area, percentage of free disk space, disk busy rate, disk read/write latency, disk I/O latency, network sending/receiving speed, time elapsed, start time, number of processes, service status, number of pods in each status ("Pending", "Failed", and "Unknown"), number of nodes/pods for which execution failed, node abnormalities, memory/disk shortages, PID allocation shortage, number of bytes to read/write, number of calls, event processing time, amount of saved data, number of 5*xx* server errors, number of read/write capacity units, execution time, number of execution failures, number of delayed/deleted queue messages, memory usage rate, total number of bytes, amount used, free space, ... and much more

\* Log monitoring only

The appropriate initial response (such as the sending of notifications or collection of logs) is automatically performed depending on the event.

By ensuring swift and reliable initial response, JP1 helps you investigate and resolve failures when they occur.

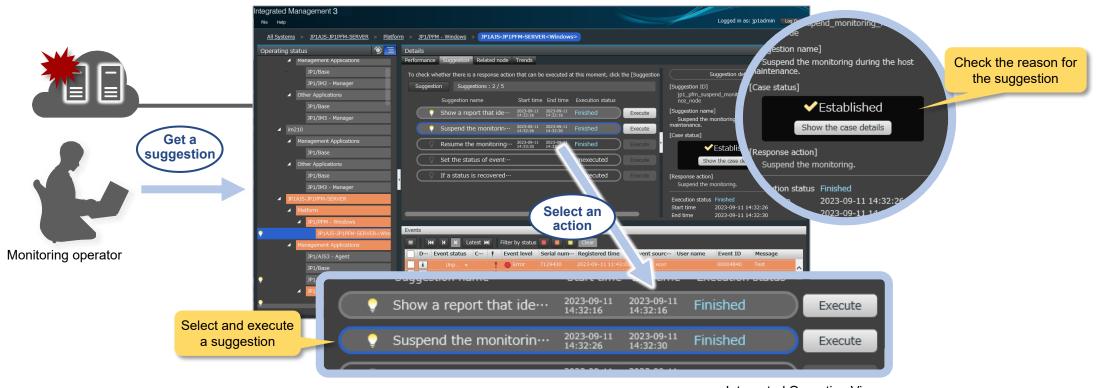
Automatically collect the logs needed to investigate the failure and notify relevant parties



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Depending on the event description and system status, JP1 provides suggestions on how to handle the event based on accumulated operational rules and knowledge. From these suggestions, the operator can select the optimal response according to the scope of impact on business processes and the urgency.

Select and execute one of the provided suggestions for swift and reliable event handling



Integrated Operation Viewer

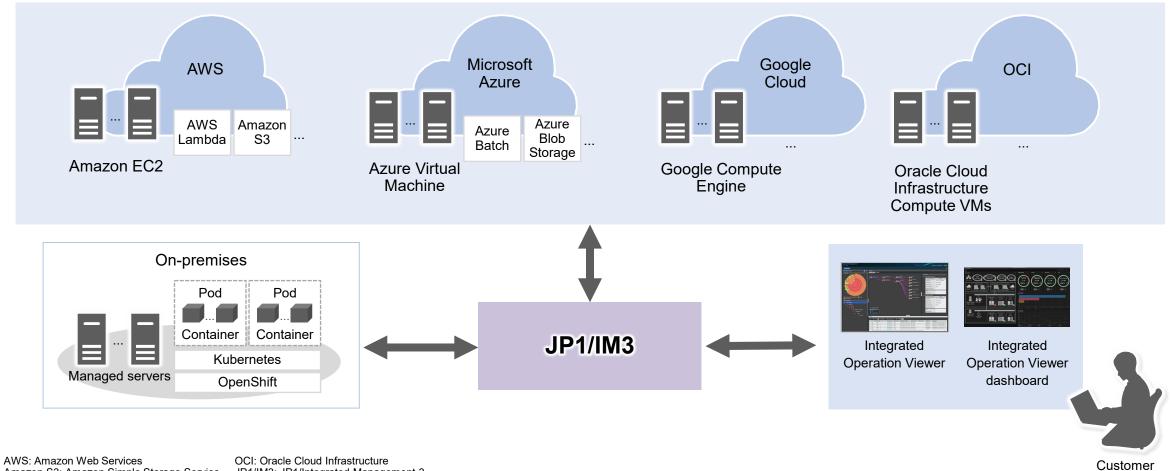


# **Example of a system configuration**

**Example of a system configuration** 

### **Example of a system configuration**

The following is a system configuration that uses JP1/Integrated Management 3 to manage cloud environments, on-premises environments, and container environments in an integrated manner.



AWS: Amazon Web Services OCI: Oracle Cloud Infrastructure Amazon S3: Amazon Simple Storage Service JP1/IM3: JP1/Integrated Management 3 Amazon EC2: Amazon Elastic Compute Cloud HITACHI

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# 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
- Global use with peace of mind
- Reliable quality for customers

# You can introduce JP1/Integrated Management 3 according to your system environment, such as on-premises or cloud.

Windows AIX OS Linux Other Cloud Amazon Web Microsoft Oracle Cloud clouds are also Google Cloud Services Azure Infrastructure supported Virtualization Docker Podman VMware ESXi Hyper-V Kernel-based Virtual Machine (KVM) Container( etc. environment Windows Server Failover Cluster (WSFC) **CLUSTERPRO X** Lifekeeper Cluster HA monitor etc. environment

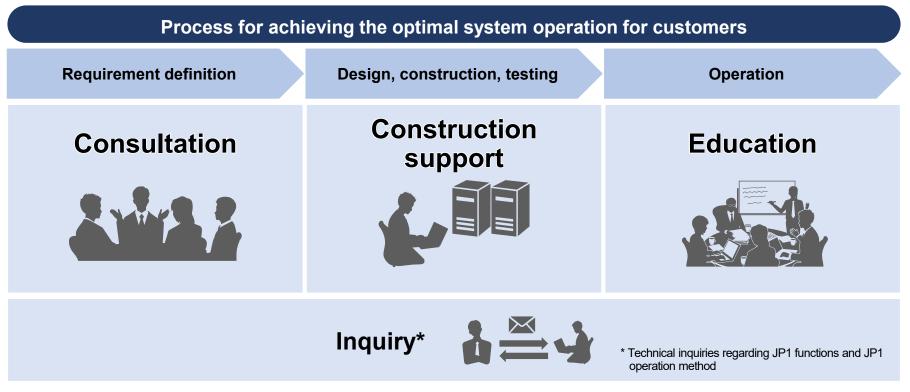
We respond flexibly and quickly to evolving and diversifying environments and your needs.

JP1/Integrated Management 3 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.

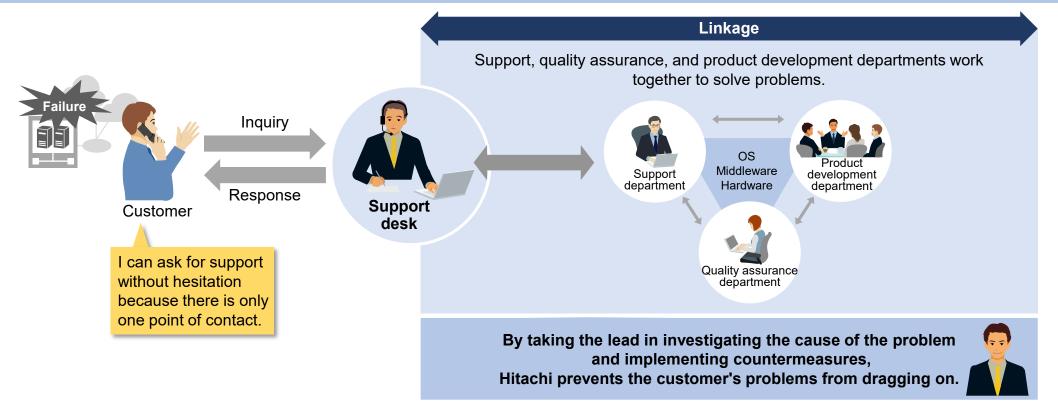
JP1 professionals are engineers who have a specified level of JP1 skills and have been certified based on the JP1 Engineer Qualification System.

### **One-stop problem resolution at an early stage**

#### 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



#### 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.

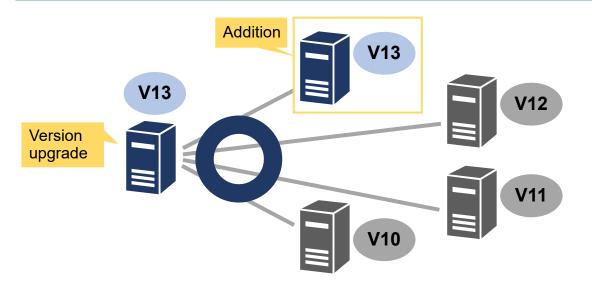
Long-term support for the life cycle of customer systems



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.

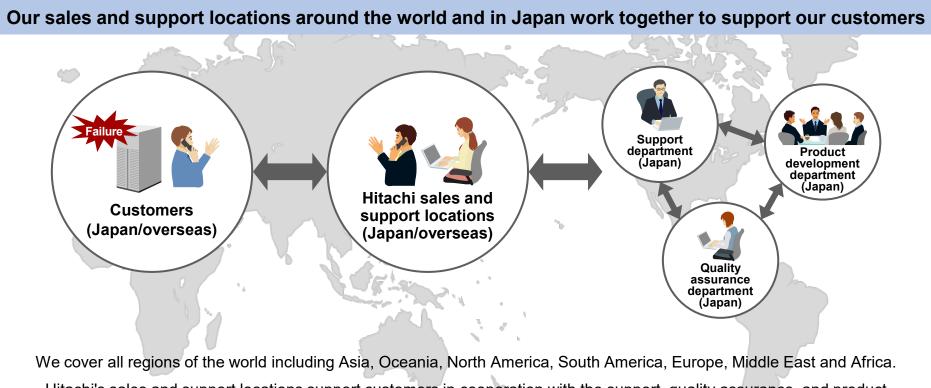
Even if you upgrade JP1, interface compatibility is maintained. Therefore, you can use the linked products, services, user programs without modification.

### **Global use with peace of mind**



#### 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.

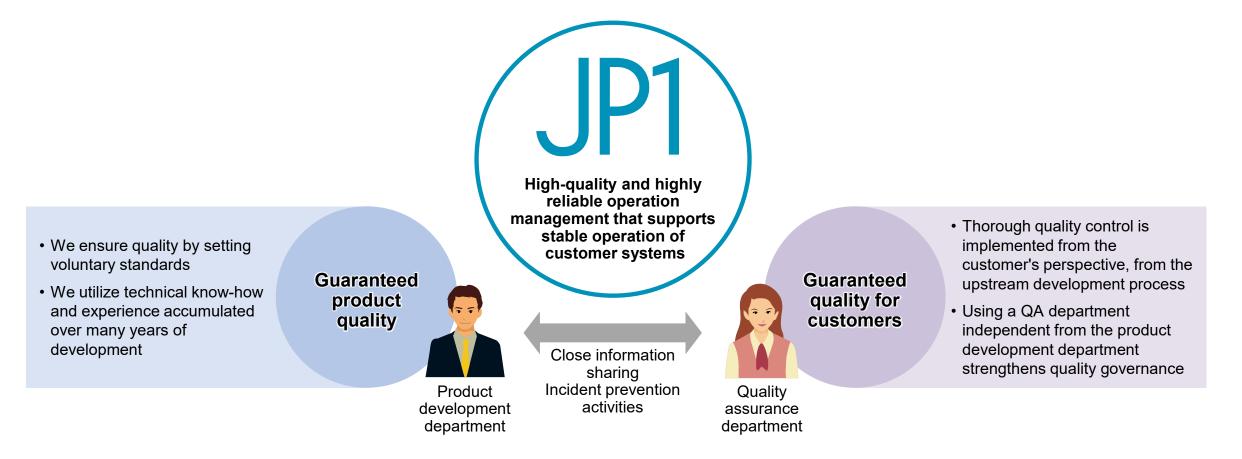


Hitachi's sales and support locations support customers in cooperation with the support, quality assurance, and product development departments in Japan.



#### 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.



### Third-party product names and trademarks



- AIX is a trademark of International Business Machines Corporation, registered in many jurisdictions worldwide.
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- If you require more information or clarification, please contact your Hitachi sales representative.
- 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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