## Integrated Operations Management JP1 Version 11 General Catalog VIII)



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# JP1 Version 11: Advanced functions that meet the demands of today's world of operations management and take your business to the next level

As IT and management become increasingly interconnected, the role of IT continues to change. Recently, more companies than ever before are looking for ways to use IT to manage and expand their businesses. This has led to an increased uptake of cloud services and other environments that focus on convenience.

However, as business environments increase in complexity and change at an ever-accelerating pace, companies are being forced to confront challenges that they have never faced before. To remain competitive in this environment, companies must employ IT systems that are capable of fast and flexible responses and that can be operated efficiently.

JP1 Version 11 products help customers address a growing number of increasingly diverse needs and meet the demands of today's world of operations management (such as the need for automation, visualization, agile operations, optimized investments, and flexible scalability). JP1 products comprehensively support your systems operations, and are driven by a wide range of systems operation technology and know-how that have been cultivated at Hitachi over many years.

In short, JP1 products carry your business into the future.



JP1 Version 11 concept categories

















1



2

# **Three benefits of JP1**

anageability

JP1 provides the following three benefits aimed at improving the service quality of the IT systems that support your business.

### **Efficient operation**

Hitachi has a rich body of knowledge from years of real experience. Based on this real-world knowledge, Hitachi provides tools to enhance the management, operation, and efficiency of IT systems. By enabling data visualization and the automation of entire IT systems, these tools can reduce administration workloads as well as ongoing costs.



### Solid reliability

JP1 can be swiftly adapted to handle business growth and changes in your system environment, such as the use of cloud computing and virtualization technologies. In addition, its ability to detect warning signs of failures in complex systems can help you create a non-stop, reliable business environment.



### **Greater safety**

JP1 helps achieve compliance with defined business models and policies. It also provides company data systems with robust protection from both internal and external security threats.

# Why so many customers choose JP1

Since its debut in 1994, JP1 has provided value that has met the needs of countless companies in many different fields and throughout several generations of technology. JP1 has always sought to optimize system operations, making it a mainstay at small businesses, large enterprises, and everything in between. Our customers are active in a wide variety of fields, from finance and other industries to government agencies. JP1 is continuously evolving to adapt to changing times, but one thing remains constant: our support for our customers' businesses.

### Quality that comes from years of product development

JP1 products are developed in an environment that incorporates the technological expertise and experience that have accumulated at Hitachi over many years. This development process results in a consistent output of high-quality products that can be applied to increasingly complex and diverse systems. Furthermore, because JP1 products of different versions can be used within the same system, administrators can easily upgrade the products in their systems in phases.

### Strong platform and environment support

JP1 products can be used with a number of different platforms, including Windows, Linux, and Unix; with cluster and virtualization platforms; and with cloud services. JP1's continual evolution ensures that it always keeps up with the latest trends in platform technology.

### Full support for 10 years

Hitachi Support 360 guarantees you a minimum of ten years of support for a given product version. For example, for a server that you plan to replace every five years, you will have access to standard support services for up to two upgrade cycles. To ensure the stable operation of your systems, Hitachi provides robust support consisting of three elements: resolving problems, sharing information, and patching software.

### Support from JP1 professionals

Get support from the more than 50,000 certified JP1 professionals in Japan. Continue to receive support after installation, such as whenever you set up or modify one of your systems. Our support personnel are available to help you build systems based on your requirements (including system scale and environment) and are available to respond to any inquiries concerning system modifications.

## Quality and reliability that come from being made in Japan

JP1 supports operating systems in many different languages, which has contributed to its adoption in countries all over the world. To handle inquiries from all regions of the world, sales offices and support sites are present not only in Japan, but also in China, Southeast Asia, North America, and Europe. JP1 representatives are ready to provide solid support for the operations management of your most important systems.



# JP1 products cover all your operations management needs









### Automation Put your entire system to work

### Automate tasks and IT operations to prevent operator mistakes and make your system highly reliable

JP1 can automatically execute scheduled tasks and can even automate complicated operations that you might think can only be performed manually. Moreover, JP1 offers business continuity functions to prepare for emergencies. These functions include the automatic backup and remote storage of important data. By helping you build highly reliable, mission-critical systems, improve operational efficiency, and reduce operator mistakes, JP1 puts your entire system to work!

IT operations automation

Job management

# **Compliance** Protect your IT assets

### Ensure full compliance by managing IT assets all in one place and by mitigating security risks

JP1 aids compliance by allowing you to efficiently manage of all of your IT assets, including virtual desktops and smart devices, from one convenient location. Automatically take inventory of your IT assets and enforce company-wide compliance with IT policies, such as those governing software licenses. You can also use JP1 to protect your important IT assets from security risks such as unauthorized access, viruses, and information leaks.

Asset and distribution management

# Monitoring Eliminate downtime

# Monitor how services and systems are operating, and accurately detect warning signs of imminent failures

JP1 monitors systems as a whole, providing functions that range from the monitoring of infrastructure (including the network) to the monitoring of business systems and services. JP1 can also help you analyze failures, maintain or improve service performance, and operate stable systems. Have you ever asked yourself, "What is going on right now with my system?", "Is everything running smoothly?", or "Are services being provided at the necessary performance level?" JP1 creates a visual representation of the current status of your system to help you answer these questions and more. It also meets the needs of many customers to ensure that their systems never go down, by allowing them to efficiently monitor operations and rapidly detect and respond to failures.

Integrated management	IT service management
Performance management	Network management

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### **Product list**

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### **Automation** IT operations automation

Need to automate your day-to-day operations to prevent operational mistakes and improve quality?

### **JP1/Automatic Operation**

JP1/Automatic Operation automates the day-to-day IT operations that are performed in a system. This product allows you to automate a series of operations (including those that require operator input) that might have been quite difficult to automate via other means. JP1/Automatic Operation covers both routine operations (such as checking the operating statuses of servers, and starting, stopping, and restarting servers) and irregular or on-demand work (such as adding and deleting virtual machines), as well as temporary measures for handling system failures. JP1 helps you work more efficiently by automating various IT operations, ranging from day-to-day and routine operations to those that are highly complex.

### Benefits of the product

- Reduce work hours by automating routine and time-consuming IT operations, such as applying OS updates and starting servers.
- ■Improve work quality, for example, by eliminating operational errors that are likely to occur in tasks that are complex or infrequently performed.
- Achieve efficient, high-quality IT operations by automating the ones that require specialized knowledge or expertise, so that these operations can be performed regardless of operator experience or skill

### Examples of IT operations you can automate with JP1/Automatic Operation



### Need to visualize and share operational procedures so that operators can work with confidence?

### **JP1/Navigation Platform**

JP1/Navigation Platform helps you visualize and share operational procedures and expertise, and provides accurate and appropriate quidance to operators during complex procedures. Operators can perform work efficiently by following procedural flowcharts and by referring to the detailed information (including images and links to reference materials). By analyzing the execution history of each procedure, you can check how many times a work item was executed, the execution time, and the number of errors that occurred for each work item. This allows you to easily identify problematic work items. Continually improve work procedures by making the necessary changes from your web browser and then instantly applying and sharing the changes.

### Benefits of the product

- Operational procedures can be visualized and shared in JP1/Navigation Platform, allowing experienced operators to exchange information and expertise more easily. This is particularly beneficial for workplaces with frequent employee turnover or employee transfers, as it can help reduce the time required to train new employees.
- By referring to the operational procedures when performing work, you can create a history of all operations performed for such work

Use fl and c

### Need to smoothly incorporate private cloud services in OpenStack? JP1/Service Portal for OpenStack

JP1/Service Portal for OpenStack is a self-service portal that enables users themselves to execute operations that are performed by using private cloud services built in OpenStack. These operations can be selected from a catalog or executed via a wizard. From the dashboard, users can check how resources are being used and perform operations such as adding and deleting virtual machines. You can include an approval process to ensure that work is performed correctly, achieving controlled system operations.





Dashboard

and produce this history as evidence when necessary. ■ By automating IT operations with JP1/Automatic Operation and standardizing procedures with JP1/Navigation Platform, you can further improve work quality and efficiency.

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owcharts to prevent mistakes in procedures	Operational content execution

#### Benefits of the product

■ JP1/Service Portal for OpenStack comes complete with features designed to meet a user's needs, such as an easy-to-use dashboard, a catalog of operations, wizards, and approval functions. By using this portal, you can reduce the workload that cloud operations place on both users and administrators.

Users can now create, change, and delete virtual machines as needed, making private cloud services even more convenient.



### Automation Job management

Need to automate increasingly diverse tasks to optimize your business operations?

### JP1/Automatic Job Management System 3

JP1/Automatic Job Management System 3 allows you to automate and optimize various business operations to achieve a system that is highly consistent and reliable. It allows you to automate, on a predefined schedule, day-to-day tasks such as calculating payroll and aggregating sales data. You can even automate one-time tasks and tasks where the task results determine which task is executed next. You can ensure that tasks are executed properly by defining jobs via intuitive operations, executing tasks according to a detailed job schedule, and monitoring tasks to quickly understand the status of execution.

### Benefits of the product

- ■You can set up business operations to be automatically executed at night or on weekends as needed. This allows you to schedule operations more efficiently, because you are not restricted to only operating during business hours.
- With JP1, you can automate even complex business operations, such as those that require information from another system before execution and those that execute different tasks depending on various conditions.
- Set schedules to prevent operational delays by establishing rules (such as execution time frames and the intervals between tasks) that are based on your company's business calendar.
- From windows such as the dashboard (Web Console) or the main window, you can confirm the progress and results of executed jobs at a glance. You can also check the job execution schedule.



### Achieve even more efficient job operations with the new and improved JP1/Automatic Job Management System 3

#### Collect and apply job definitions in a batch

You can use Microsoft Excel to efficiently perform a series of job modification tasks, such as collecting, modifying, and applying job definitions. This is especially useful when you need to apply a large number of changes to the production environment. For example, during a switchover from a development environment to a production environment, to change the name of each development server to that of the corresponding production server, you can first change the definition information in Microsoft Excel and then apply



### Need to efficiently develop and execute batch jobs? JP1/Advanced Shell

JP1/Advanced Shell is a product that provides an environment for developing batch jobs based on the shell scripts widely used in UNIX. This product also provides a script-execution infrastructure that can be used on various platforms. With JP1/Advanced Shell, you can execute "awk", "tar", and other UNIX commands that are

### Benefits of the product

- Because existing shell scripts that were used in UNIX can also be used in Windows, the cost of migrating to Windows can be greatly reduced.
- Because you can now create shell scripts to be executed on multiple platforms, you can improve efficiency and standardize the quality of development work.

Shell, and at are

Edit



View (main window)

#### Convert on-screen job information into reports

On-screen job information and information about expected and actual execution results can be output and printed for confirmation or to be used in reports. You can output this information to a CSV file, Microsoft Excel file, or PDF file.

frequently used in batch operations even in a Windows environment. Furthermore, a special editor is provided with which you can edit, test, and debug scripts in a single window, allowing you to develop and debug shell scripts more efficiently.



Automation Job management

### Need to easily and securely transfer large files?

### **JP1/Data Highway**

JP1/Data Highway securely sends large files at high speeds over the Internet. You can send multiple video files, backed-up data files, and more at the same time, even when each of the files is several hundred gigabytes in size. Large files can be transferred very efficiently because you do not need to split them. File transfers can be made more secure through means such as restricting who is able to receive the files and encrypting transmissions (by using HTTPS) to prevent eavesdropping. Furthermore, you can prevent files from being sent to unintended or unapproved recipients by implementing an approval process that allows you to verify whether the file to be transferred is correct. Because file transfers are performed via a web browser and thus do not require a dedicated line or special hardware, JP1/Data Highway can be introduced quickly and inexpensively.

### Benefits of the product

- By using JP1/Data Highway, you can send files over the Internet via encrypted transmission routes (HTTPS). This method both reduces the risk of data loss or theft and avoids shipping costs, which would be a factor if you had to resort to sending the data physically, such as by using a courier service.
- ■You can transfer large files without having to split them (as is necessary when sending such files via other methods, such as email attachment). If a transfer fails, it is automatically re-executed only for the data that failed to be transferred, which reduces the number of files that must be resent.
- By linking JP1/Data Highway with JP1/Automatic Job Management System 3, you can automate file transfer operations in conjunction with other tasks to reduce the necessary workload. You can even specify that files be transferred whenever a specific trigger event occurs (for example, whenever a file is received).



### Need to manage IT assets appropriately and mitigate any related security risks? JP1/IT Desktop Management 2

JP1/IT Desktop Management 2 automatically collects various types of information, allowing you to manage it all in one place. The information that can be collected by this product includes information about hardware, software, and security. You can use the product to manage information not only from PCs and servers. but also from an increasingly diverse array of IT assets, including anything from virtual desktops to smart devices. With JP1, you can efficiently detect devices when they are first connected to the network, as well as changes made to management devices, and ensure that management information is always kept up to date. Moreover, JP1 helps ensure that licenses are managed properly. By keeping track of the number of software instances that are installed on your devices and the number of licenses you own, you can detect and address any shortage or excess in those licenses. JP1/IT Desktop Management 2 also automatically detects the statuses of security measures to be applied to managed devices and controls security by using security policies. These features eliminate or reduce security risks by ensuring thorough compliance with security measures on a daily basis.







### Benefits of the product

With JP1/IT Desktop Management 2, you can set various security policies that cover anything from prohibited operations to operation log settings. These security policies protect your IT assets by mitigating a wide range of security risks, including virus infection, unauthorized access, and information leakage.

■ You can manage contract-related information (such as contract type, contract period, and the electronic data of contracts) by associating the information with data for other IT assets such as devices and licenses. You can use JP1/IT Desktop Management 2 to ensure that contract information is updated through the proper procedures, for example, by sending notifications when contract periods are about to expire.

■ JP1/IT Desktop Management 2 provides detailed functions for setting schedules for software distribution before actual installation, for performing preliminary checks to verify that software installation requirements have been met, and more. These functions allow you to improve the efficiency of work such as version upgrades and the replacement of all instances of a software product in a large-scale system at once.

Need to aggregate and monitor logs and the various events that occur throughout the system?

### JP1/Integrated Management

JP1/Integrated Management monitors your system from a single location to ensure that the entire system is problem-free. This product forms the base for integrated operations management. With JP1/Integrated Management, you can monitor environments both on-premises and in the cloud. Logs and information about the events that occur in the system can be collected to and monitored from a single location. In addition to events, you can also monitor business systems running on various platforms (including Windows, Linux, and UNIX), as well as the statuses of network devices, servers (processes and resources), and applications. Prevent important events from being overlooked by consolidating or suppressing large numbers of related events or by filtering to show only the events you are interested in. You can also perform advanced, efficient monitoring operations, such as changing which events are collected based on a given time frame and restricting

the events that can be monitored by individual operators. If a failure occurs, JP1/Integrated Management automatically notifies the system administrator to ensure a rapid response.

### Benefits of the product

- System administrators can check events occurring in all systems from a single console, which is easier than managing events separately for multiple systems.
- Even for nodes in a complex system configuration, system administrators can freely group nodes and monitor them from a graphical display. When a failure occurs, the color of the relevant node changes, making it easy to determine the location of the failure.
- You can use both agent-based monitoring and agentless monitoring in the same system, allowing you to select the type of monitoring that is appropriate for each server based on that server's importance.



### **Rapidly respond to failures with JP1/Integrated Management**

### Prevent important events from being overlooked, even during an event storm

When a large number of events occur at the same time (an "event storm"), duplicate events are aggregated and the corresponding automatic actions are suppressed to ensure that important events are not overlooked.

#### • Aggregated display of events

When a large number of events are sent from managed nodes to the manager, the events are aggregated in the display. Limiting the number of displayed events helps operators to easily identify the most important events.



#### • Suppression of automatic actions

Along with the aggregation of duplicate events, automatic actions for such events are suppressed to prevent the system administrator from being inundated with notifications.

#### Suppression of event transmission

When a large number of related events occur at the same time or the same event occurs repeatedly, you can suppress the transfer of such events from the monitored nodes to the manager. By reducing the number of events that are transferred to the manager, you can reduce the load on the server and network, thereby limiting the effects on monitoring operations as a whole.





```
Ensure rapid responses with easy-to-understand messages
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Ensure that messages are handled in a timely manner by displaying them in a way that is easy to read and understand.

#### Message format conversion

Unify the messages output by various systems in different formats. For example, you can customize where to display information such as the date, time, and message body.

#### Message text conversion

To simplify the system administrator's work, replace generic message text with content tailored to actual operations.

### Customization for increased usability

Customize messages, for example, by appending the applicable system name to the beginning of each message to make it easy to identify the system in which the event occurred.



### Monitoring Integrated management

Need to accelerate investigation and recovery work when a failure occurs in an IT system consolidated through the use of virtual environments or cloud services?

### **JP1/Operations Analytics**

JP1/Operations Analytics investigates and analyzes, from various angles, the failures that might occur in IT systems that have been consolidated via the use of virtual environments and cloud services. You can use the provided tools to speed up system recovery. JP1/Operations Analytics automatically detects the applications, servers, switches, storage devices, and other managed components that make up the IT infrastructure, and then visualizes the associations between the components and the business systems that use them. As a result, when a failure occurs, you can quickly assess the impact of the failure on business systems categorized by importance and then determine an appropriate initial response based on the importance of each business system. In addition, JP1/Operation Analytics displays a list of components as candidates for analysis or other response measures, simplifying the way in which failures are handled and supporting your company's entire failure-response procedure, from investigation to recovery.

### Benefits of the product

- Even as IT infrastructure continues to change as a result of the use of virtual environments and cloud services, you can easily keep track of the configuration of your IT infrastructure and the associations between IT infrastructure components and the business systems you manage. This allows you to accelerate processes such as determining the impact of a failure and notifying the right people.
- The information needed to identify the components responsible for bottlenecks that cause failures and to check the impact of changes made to the configuration is displayed in an easily readable format. This aids investigations that require a high level of skill and expertise.
- When a bottleneck occurs, JP1/Operations Analytics suggests possible methods to relieve the bottleneck and estimates the likelihood that each method will work. These suggestions can give you greater confidence that a particular solution will solve your problem, greatly reducing the time until recovery.

#### 1. Detect failures and determine their severity

When a failure occurs, you can assess the operating statuses of business systems categorized by importance and identify the systems affected by the failure. Doing so can help you more accurately determine the severity of the failure and identify which business systems to prioritize for recovery.

#### 2. Determine the impact of failures and notify the right people

By understanding the associations between IT infrastructure components (such as applications, servers, switches, and storage devices) and the business systems you manage, you can more easily assess the impact of failures and provide timely information about business systems to the people who need to know.

Instruct operators to

take action



Start by investigating the component causing the bottleneck. With JP1/Operations Analytics, you have easy access to all of the relevant information, allowing you to investigate the failure and analyze the cause more quickly. Furthermore, JP1/Operations Analytics helps you decide the best way to proceed with recovery, by suggesting multiple methods and estimating the impact that each method will have on operations.

Dashboard



### Monitoring IT service management

### Need to handle inquiries, failures, and other Items# efficiently and via the correct processes? **JP1/Service Support**

JP1/Service Support centrally manages various issues (registered as "Items", which is a special term for issues managed in JP1) that occur in the system, such as user inquiries and failures. You can track Items from when they are registered to when they are resolved. Items can be escalated in accordance with ITIL Service Support processes for incident management, problem management, change management, and release management. This allows the relevant persons on a team to easily share information such as the processing status and progress of each Item, and to quickly determine the management status. Inquiries received by email and failure information collected by JP1/Integrated Management can be registered automatically, ensuring that all Items that must be resolved are registered. The severity level and work deadline for each Item can also be registered automatically, reducing variation





#: An Item is an issue managed using JP1. Items include incidents, problems, changes, and release-related issues. Each Item is registered in a workflow designed to best handle that type of Item. After an Item is resolved, details about the Item can be automatically stored for future reference.

#### Benefits of the product

■ Manage the progress (status) of Item handling. If an Item is not processed for a certain length of time, the person in charge of the Item is automatically notified via email. Furthermore, you can receive warnings for Items whose work deadlines are approaching to avoid overlooking such Items.

■ Items from JP1/Integrated Management can be registered automatically, which saves time and prevents input errors.

Item history information can be used as a reference, for example, when handling similar Items in the future. By checking the Item history information, you can reduce the amount of time needed to investigate how to temporarily isolate or correct the causes of failures, which leads to faster Item resolution.

### Monitoring Performance management

Need to evaluate service performance from the user's perspective?

Timeline

Current time

### **JP1/Service Level Management**

JP1/Service Level Management monitors and evaluates service performance in real time as experienced by the users of the service. The product works in both on-premises and cloud environments and helps you ensure that performance is sufficient to meet your defined service level objectives (SLO). Service performance indicators include average response time, throughput, and error rate. By linking this product with JP1/Performance Management, you can also monitor service usability (service operating rate, MTTR, and MTBF) and the performance of service-related systems (operating statuses of servers and various applications). Periodic evaluations of these performance as needed.

80 100

Color-coding to indicate error,

varning, and normal statuse

SLO: Service Level Objective MTTR: Mean Time To Recovery MTBF: Mean Time Between Failures

Service group

GroupWare

Marketing

Promotion

Working Management

By comparing the current

values against past information

(the baseline), trends in the

current values that diverge from the norm can be detected

as warning signs.

Service group status (%)

20

40

60

### Benefits of the product

- Monitor and evaluate performance from the user's perspective to determine whether the service you are providing is stable. Because user access information is collected via the network, you can visualize service levels without placing a heavy load on business systems.
- Based on past performance information, detect failure warning signs (that is, when current performance values differ significantly from normal performance values) in real time. Problematic performance levels might lead to a failure if left unattended. This situation is detected before threshold values are exceeded, allowing you to take action before users notice degradation in the services being provided.
   Check service performance information and the operating statuses of
- service-related servers and applications from a single window. The values of multiple monitoring items (performance indicators) can be graphed along the same time axis to show the relationships between performance values, allowing you to investigate the causes of problems more efficiently.

### Need to monitor system performance to ensure stable system operation?

### **JP1/Performance Management**

JP1/Performance Management supports stable system operation throughout all phases (from when problems are identified to when they are resolved) by collecting operational information from targets that range from OSs and databases to various types of applications. You can then use information that you collected to analyze system performance. This product supports both on-premises and cloud environments and can be used to efficiently monitor a wide variety of targets without the use of specialized monitoring tools. JP1/Performance Management's extensive array of functions includes monitoring functions that send notifications to JP1/Integrated Management when warning signs of possible problems are detected, and reporting functions that are useful for tuning and for investigating the causes of problems based on collected operational data. By continuously collecting operational data and comparing the current data against data from the past, you can identify areas that are likely to become bottlenecks. This

Investigate problems related to both

service and system performance



Check the current **Check which services** service status require attention Manager Annetical
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 Annetical for monitoring Manager Administrator service levels for monitoring operational ----Operator performance Security of
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 Security of
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 Security Linkage Harris Troubleshooting Monitor the operating statuses of servers and applications /iew a list of events related to service performance Monitor the overall (JP1/Performance Management) and to the performance of service-related systems service status (JP1/Service Level Management) Home rational information of virtual Information about service as nts, OSs, servers, and appl Mechanism for detecting warning signs based experienced by service users on unusual performance levels ess svst iness svste 1ess svst Warning signs can be detected before threshold values are exceeded. Response time SI 0 threshold value Applications Applications Applications Applications ect warning signs based Middleware Middleware Middleware Middleware 0S 0S 0S 0S Virtualization software Range of normal value Network Service users 

allows you to carry out more reliable capacity planning that does not rely on guesswork.

#### Benefits of the product

Perform alive monitoring of the application processes and Windows services that are running on servers. You can also monitor operational information obtained by using other management tools to address various needs.

Start monitoring immediately by using the provided templates. By referring to the instructions provided in the Quick Guide window, you can easily reconfigure settings (including the conditions used to issue warnings and reports of abnormalities) to match the way you run your system.

■You can use both agent-based monitoring and agentless monitoring in the same system, allowing you to customize which type is used for each server based on that server's importance.



Quick Guide

Storage devices

Servers

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Network devices

Monitoring Network management

Need to consolidate network management and respond rapidly to failures?

# JP1/Network Node Manager i JP1/SNMP System Observer

JP1/Network Node Manager i uses industry-standard SNMP to manage your entire network from a central graphical map. JP1/Network Node Manager i detects nodes in the network and then automatically creates an up-to-date network configuration map (topology map). Each icon used to represent a managed node changes color according to the target's status, making it easy to identify problems. When a failure occurs that results in a large number of problems, the RCA function can be used to identify the most important events that need to be addressed, so that administrators can be notified accordingly. In addition, by linking this product with JP1/SNMP System Observer (which monitors system resources and processes), you can monitor the network configuration and perform alive monitoring of system resources and application processes from the same window.

SNMP: Simple Network Management Protocol RCA: Root cause analysis

### Benefits of the product

- Because topology maps are automatically created and updated, even if the network configuration changes frequently, you always have easy access to the latest map.
- Topology maps display the connections between network devices. making it easy to determine how much of the system is affected by a failure or other problem.
- When a failure occurs, only the root cause is reported as an incident. This allows the administrator to resolve the cause of the failure more quickly, reducing network downtime.
- Resource information can be collected and organized into reports by business location or by network device. These reports are useful during periodic system evaluations and for scheduled system operations.

### Manage high-level network technology with JP1/Network Node Manager i Advanced

Check the intuitive display for an easy understanding of even complex configurations, such as those that incorporate redundant routers or those that use link aggregation for switch redundancy.

JP1 is capable of automatically detecting network configurations even when networks incorporate advanced technologies such as router redundancy or switch redundancy (link aggregation). For configurations that use redundant routers, JP1 helps you distinguish between failures that cause a switchover to the secondary router and those that cause both the primary and secondary routers to go down. Similarly, for configurations that implement link aggregation using switches, you can distinguish failures that cause the disconnection of just a few links from those that cause the disconnection of all links.





Incident graph

These functions help administrators more accurately determine the urgency with which a particular failure needs to be addressed.

# Manage large-scale networks by using a global manager configuration.

By installing regional managers to manage the networks of each business location and a global manager to manage the regional managers, you can unify the management of large-scale network environments. Even for locations that are unable to directly communicate with the global manager, you can monitor the devices used at those locations via the regional managers installed there.

#### Product categories that can be selected to address various issues



### Product list

#### **Automation** Put your entire system to work

I operations automation				
Operations automation				
JP1/Automatic Operation	This product automates the day-to-day IT operations that are performed in a system. JP1/Automatic Operation covers both routine operations (such as checking the operating statuses of servers, and starting, stopping, and restarting servers) and irregular or on-demand work (such as adding and deleting virtual machines), as well as temporary measures for handling system failures. JP1 helps you work more efficiently by automating various IT operations, ranging from day-to-day and routine operations to those that are highly complex.			
JP1/Automatic Operation Content Pack	This product provides, as content to be used in JP1/Automatic Operation, templates for the typical operational procedures performed in the cloud, at data centers, and on corporate systems. By using these templates, you can reduce the time needed to introduce JP1/Automatic Operation.			
Operations navigation				
JP1/Navigation Platform	JP1/Navigation Platform helps you visualize and share operational procedures and expertise, and provides accurate and appropriate guidance to operators during complex procedures. Operators can perform work efficiently by following procedural flowcharts and by referring to the detailed information (including images and links to reference materials).			
JP1/Navigation Platform for Developers	This product is used for developing and testing system linkage programs (plug-ins) to be used in JP1/Navigation Platform. By using plug-ins, you can perform operations such as viewing information from other systems in JP1/Navigation Platform and registering, in other systems, the results of work performed according to the procedures displayed in JP1/Navigation Platform.			
Service portal				
JP1/Service Portal for OpenStack	This product is a self-service portal that enables users themselves to execute operations that are performed by using private cloud services built in OpenStack. These operations can be selected from a catalog or executed via a wizard. From the dashboard, users can check how resources are being used and perform operations such as adding and deleting virtual machines.			
Job management				
Job scheduler				
JP1/Automatic Job Management System 3 - View	This is the viewer for JP1/Automatic Job Management System 3. You can use it to define relationships between tasks and the order in which tasks are executed, and then check the execution statuses. Various customization functions and an interface designed for high readability and efficiency allow you to centrally monitor tasks by using simple GUI operations.			
JP1/Automatic Job Management System 3 - Manager	This is the manager for JP1/Automatic Job Management System 3. You can use it to automate tasks such as the day-to-day tasks that are executed according to a set schedule (such as calculating payroll or aggregating sales), tasks to be executed on demand, and tasks whose results dynamically determine what is processed next.			
JP1/Automatic Job Management System 3 - Agent	This is the agent for JP1/Automatic Job Management System 3. The agent executes tasks according to instructions received from JP1/Automatic Job Management System 3 - Manager.			
JP1/Automatic Job Management System 3 - Definition Assistant	This product allows you to use Microsoft Excel to efficiently perform a series of job modification tasks, such as collecting, modifying, and applying job definitions. This is especially useful when, for example, you need to change the names of servers during a switchover from a development server to a production server or when you want to use a particular job across multiple systems.			
ERP integration				
JP1/Automatic Job Management System 3 for Enterprise Applications	This is a product for controlling tasks to be executed in SAP ERP systems. With this product, you can use JP1/Automatic Job Management System 3 - Manager to automatically execute tasks in SAP ERP systems.			
Scripting language				
JP1/Advanced Shell	This product provides an environment for developing batch jobs based on shell scripts (which are widely used in UNIX) and a script execution platform that can be used for various OSs. Because the same shell scripts that define batch jobs can be used on machines running different OSs, you can improve development efficiency and standardize the quality of batch jobs.			
JP1/Advanced Shell - Developer	This is a development environment that allows developers to develop and test batch jobs more efficiently.			
JP1/Script	This product allows you to easily create batch jobs in Windows by using a scripting language. Provided with this product are more than 130 types of commands that can be executed in Windows, including "if" statements, "while" statements, and the "DeleteFile" command.			
JP1/Script - Access License	This is a license product that is required for using JP1/Script on a remote desktop service client.			

JP1/Script - Access License	This is a license product that is required for using JP1/Script on a remote desktop service client.		
File transfer			
JP1/File Transmission Server/FTP	This product provides various functions for achieving highly reliable and highly efficient file transfer operations. With this product, you can automatically compare the size of the file that was sent with the size of the file that was received. You can also issue warnings when errors are detected in the received data and keep a record of past transfer operations.		
High-speed transfer of huge files			
JP1/Data Highway - Server	JP1/Data Highway securely sends large files at high speeds over the Internet. You can send multiple video files, backed-up data files, and more at the same time, even when each of the files is several hundred gigabytes in size.		
JP1/Data Highway - Server Starter Edition	This version of JP1/Data Highway - Server is intended for use in small-scale operations. This product provides the same functions as those provided by JP1/Data Highway - Server		
JP1/Data Highway - Server Starter to Standard Upgrade	This is a license product that is required to upgrade JP1/Data Highway - Server Starter Edition to JP1/Data Highway - Server.		
JP1/Data Highway - Automatic Job Executor	This is a file transfer client product for automating the transfer of huge files at high speeds. With this product, you can use JP1/Automatic Job Management System 3 to automate the sending and receiving of files.		

Compliance Protect y	our IT assets			
Asset and distribution management				
IT asset and distribution management				
JP1/IT Desktop Management 2 - Manager	This product automatically collects various types of information about hardware, software, and security, allowing you to manage the information all in one place Information can be collected from a diverse range of IT assets, such as computers running Windows or Mac OS, servers, virtual desktops, and smart devices.			
JP1/IT Desktop Management 2 - Additional License for Linux	This is the agent product required for managing Linux PCs and servers in JP1/IT Desktop Management 2 - Manager.			
JP1/IT Desktop Management 2 - Additional License for UNIX	This is the agent product required for managing UNIX PCs and servers in JP1/IT Desktop Management 2 - Manager.			
JP1/IT Desktop Management 2 - Smart Device Manager	This is a product for managing smart devices (such as smartphones and tablets) along with PCs and servers. Provided with this product are functions for managing smart devices such as functions for remote operations (locking and wiping devices), for distributing applications, and for detecting rule violations.			

#### Monitoring Eliminate downtime Integrated management Integrated console JP1/Integrated Management - Manager IT Operations Analytics JP1/Operations Analytics JP1/Operations Analytics helps you respond to failures in all stages, from investigation to recovery. JP1 management base JP1/Base users, and control the startup of services. IT service management IT process management JP1/Service Support your entire team and instantly determine the management statuses of Items JP1/Service Support Starter Edition This product provides functionality identical to JP1/Service Support and is intended for small-scale incident management. JP1/Service Support Starter to This is a license product that is required to upgrade JP1/Service Support Starter Edition to JP1/Service Support. Standard Upgrade License Performance management Service Level Management JP1/Service Level Management - Manage service level obiectives (SLO) JP1/Service Level Management - User Response Operation and performance management JP1/Performance Management - Manager become future bottlenecks. JP1/Performance Management - Remote Monitor for Platform product those hosts JP1/Performance Management - Remote physical servers without having to install the product those servers Monitor for Virtual Machine JP1/Performance Management - Remote Monitor for Oracle the product those hosts JP1/Performance Management - Remote Monitor for Microsoft® SQL Server install the product those hosts. JP1/Performance Management - Agent Option for Platform by using remote monitoring. JP1/Performance Management - Agent Option for Service Response DNS, DHCP, FTP, and TCP). JP1/Performance Management - Agent Option for Oracle collected by using remote monitoring. JP1/Performance Management - Agent This is an agent product for monitoring the operating status of IBM DB2. Option for IBM DB2 JP1/Performance Management - Agent Option for Microsoft® SQL Server collected by using remote monitoring. JP1/Performance Management - Agent Option for HiRDB This is an agent product for monitoring the operating status of HiRDB. JP1/Performance Management - Agent Option for Enterprise Applications This is an agent product for monitoring the operating statuses of SAP systems JP1/Performance Management - Agent This is an agent product for monitoring the operating status of IBM Lotus Domino Server Option for IBM Lotus Domino Network management Network node manager JP1/Network Node Manager i in the network and then automatically creates an up-to-date network configuration map (topology map). JP1/Network Node Manager i Advanced for ensuring network performance, availability, and reliability JP1/Network Node Manager i to Advanced This is a license product that is required to upgrade JP1/Network Node Manager i to JP1/Network Node Manager i Advanced Upgrade License JP1/Network Node Manager i Developer's Toolkit System resource and process resource management JP1/SNMP System Observer process has stopped, or the operating status of a service has changed, it issues an event to notify the administrator. JP1/Extensible SNMP Agent for Windows Observer and JP1/Network Node Manager i.

System Observer and JP1/Network Node Manager i.

Observer.

JP1/Extensible SNMP Agent

for Process

JP1/SNMP System Observer - Agent

his product monitors your system from a single location to ensure that the entire system is problem-free. This product forms the base for integrated operations management. With JP1/Integrated Management, you can monitor environments both on-premises and in the cloud. Logs and information about the events that occur in the system can be collected to and monitored from a single location. In addition to events, you can also monitor business systems running on various platforms including Windows Linux and LINIX) as well as the statuses of network devices servers (processes and resources) and applications

This product provides functions for investigating and analyzing failures from multiple angles, allowing systems to recover more quickly when a failure occurs. This product simplifies the process of responding to failures in an IT infrastructure that has been consolidated via the use of virtual environments and cloud technology.

This product serves as the base for integrated management systems that use JP1/Integrated Management - Manager, and job management systems that use JP1/Automatic Job Management System 3 - Manager. With this product, you can send and receive information about events that occur in the system, manage JP1

This product centrally manages various issues (registered as "Items") that occur in the system, such as user inquiries and failures. You can track Items from when they are registered to when they are resolved. With this product, you can easily share information (such as the processing status and progress of each Item) with

This product monitors and evaluates service performance in real time as experienced by the users of the service. With this product, you can monitor service metrics (such as average response time, throughput, and error rate) to evaluate service performance as experienced by users to ensure that you meet your

This product supports the JP1/Service Level Management - Manager functions for monitoring and evaluating service metrics to ensure that you meet your service level objectives (SLO). This product collects information about the user experience, such as the response time of web-based systems

This product supports stable system operation throughout all phases (from when problems are identified to when they are resolved) by collecting operational information from targets that range from OSs and databases to various types of applications. With this product, you can evaluate performance by comparing the current and past states of operational data that has been continually collected and accumulated over time. You can also identify locations that are likely to

This is an agent product for monitoring the operating statuses of OSs. You can remotely monitor the OSs running on multiple hosts without having to install the

This is an agent product for monitoring the operating statuses of virtual environments (hypervisors). You can remotely monitor the virtual environments on multiple

This is an agent product for monitoring the operating statuses of Oracle databases. You can remotely monitor the databases on multiple hosts without having to install

This is an agent product for monitoring the operating status of Microsoft SQL Server. You can remotely monitor the databases on multiple hosts without having to

This is an agent product for monitoring the operating statuses of OSs. By using this product, you can collect more types of information than can be collected

This is an agent product for measuring and monitoring the response times of Internet services (such as those that use HTTP, HTTPS, SMTP, POP3, IMAP4,

This is an agent product for monitoring the operating statuses of Oracle databases. By using this product, you can collect more types of information than can be

This is an agent product for monitoring the operating status of Microsoft SQL Server. By using this product, you can collect more types of information than can be

JP1/Network Node Manager i uses industry-standard SNMP to manage your entire network from a central graphical map. JP1/Network Node Manager i detects nodes

As the advanced version of JP1/Network Node Manager i, this product supports the use of technology such as link aggregation and router redundancy groups (RRG)

This product provides tools for developing applications to be linked with JP1/Network Node Manager i or JP1/Network Node Manager i Advanced.

This product periodically collects and stores information (operational information and statistics) about the system resources of servers in the network. It also monitors the operating statuses of processes and services on a regular basis. When JP1/SNMP System Observer detects that a set threshold has been exceeded, a server

This is an SNMP agent product for Windows. With this product, you can use the industry-standard SNMP to exchange MIB information between JP1/SNMP System

This is an SNMP agent product for UNIX and Linux. With this product, you can use the industry-standard SNMP to exchange MIB information between JP1/SNMP

This is an agent product for monitoring on a regular basis the processes and services running on servers in the system. The agent monitors processes and services according to the monitoring conditions set in JP1/SNMP System Observer and sends information about the statuses of processes and services to JP1/SNMP System