This catalog uses the following units of measurement:

- 1 kilobyte (KB) = 1,024 bytes
- 1 megabyte (MB) = 1,048,576 bytes
- 1 gigabyte (GB) = 1,073,741,824 bytes
- 1 terabyte (TB) = 1,099,511,627,776 bytes

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If you require more information or clarification, please contact your Hitachi sales representative.
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.
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.

Three benefits of JP1

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

**Manageability**

**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.

**Serviceability**

**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.

**Security**

**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.
### 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!

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\* 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 all Item is resolved, details about the Item can be automatically stored for future reference.
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. For an operation that requires operator input and is difficult to automate, this product allows you to include, in a series of automated tasks, processing that waits for operator response. 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, and performing recovery measures in the event of a system failure). JP1 helps you work more quickly and efficiently by automating various IT operations, ranging from day-to-day and routine operations to those that are highly complex and time-consuming.

### 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 operations 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

**Routine operations**

- Day-to-day tasks that require a lot of work because of a large number of servers
  - Checking the operating statuses of servers
  - Starting, stopping, and restarting servers
  - Changing passwords
  - Applying OS updates
  - Managing jobs and performing maintenance
  - Outputting reports
  - Maintaining logs

**On-demand operations**

- Tasks performed on an irregular basis such as those related to system modifications and virtual machines
  - Adding and deleting virtual machines
  - Starting, stopping, and restarting virtual machines
  - Changing the settings of storage devices, network devices, and products for monitoring the system
  - Adding nodes and servers to be monitored
  - Backing up and restoring data

**Operations related to failure response**

- Recovery tasks to be performed when failures occur
  - Temporary measures to be performed when failures occur
  - Identifying what has been affected
  - Acquiring logs for handling failures
  - Investigating the causes of failures
  - Updating incident information

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**Provide accurate and appropriate guidance**

Flowcharts and on-screen guidance help operators perform their work accurately.

- "Automatically execute tasks, even without agent software"

**Automate operational procedures**

By linking JP1/Navigational Platform with JP1/Automatic Operation, you can automate some of the work items in an operational procedure.

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**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 guidance to operators during complex procedures. Operators can work efficiently by following procedural flowcharts and by referring to guidance information that explains, through documentation and images, the detailed work to be performed at each step. Based on the execution history of each procedure, details such as the number of times a work item was executed, the execution time, and the number of errors that occurred are automatically calculated and displayed. This allows you to easily identify problematic work items, such as those that take a lot of time or those for which input mistakes frequently occur. Continually improve work procedures by making the necessary changes from your web browser and efficiently share those changes with others, thereby ensuring that all operators follow the improved procedures.

### 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 and produce this history as evidence when creating and submitting work reports.
- **You can use JP1/Automatic Operation (for automating IT operations) to automate some steps in JP1/Navigation Platform procedures** to further improve efficiency and standardize the quality of your work.

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**Automate operational procedures**

- **Automate operational procedures**
- **Identify and track work history**
- **Identify operators who have a heavy workload**

**Example of a JP1/Automatic Operation processing flow**

**Identify time-consuming work items**

**Aggregate work results based on the work history, and graph the results**

**Improve procedures based on actual work results**

With JP1/Navigation Platform, you can easily identify work items that need to be improved, such as time-consuming work items and work items that frequently lead to operator mistakes. By revising your work procedures, you can optimize your business operations.
JP1/Automatic Job Management System 3 allows you to automate and optimize business operations to reduce costs and achieve a system that is highly consistent and reliable. It allows you to automate not only tasks that are scheduled for a specific date and time or at a fixed interval, such as calculating payroll and aggregating sales data, but also tasks where the task results determine which task is executed next, such as calculating sales figures. 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.
- You can set various types of detailed schedules, allowing you to automate tasks on a schedule that suits your business operations. For example, you can set a schedule that executes tasks on different days depending on your business days and non-business days, or schedule tasks to be performed on the first or last business day of the month.
- You can intuitively check the overall status of your work to see whether jobs are proceeding smoothly. This allows you to easily grasp details about a job such as when it is expected to finish, based on information such as the job's progress, the job execution schedule, and the results of past jobs.

Steps for using JP1/Automatic Job Management System 3
1. Define jobs by visualizing the task flow.
   - Use flowcharts to intuitively define the execution order of multiple jobs as a planet.
2. Automatically execute jobs.
   - Tasks are automatically executed according to their defined schedules. Tasks can also be executed on demand.
3. Monitor the execution statuses of tasks.
   - Easily check the overall status to make sure that tasks are being executed without issue, and quickly identify tasks that have ended abnormally. Gain an understanding of the status from multiple angles by using a number of different display formats.

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 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 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.

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.

Collect and apply job definitions in a batch
- Use on-screen job information in reports
- On-screen job information and information about expected 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.

Use on-screen job information in reports
- Use the output information to check the validity of the job definitions that were applied in a batch.
- Output example of a document in map format

Easily check the overall status, such as task progress and tasks that have ended abnormally
- Get status details from various angles

View (main window)
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 prohibiting unverified file transfers. Because file transfers 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 shortens the time needed to transfer data, compared to physically sending recordable media such as CDs or DVDs.

- 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 eliminates the need to check the transfer results and manually resend the files.

- By linking JP1/Data Highway with JP1/Automatic Job Management System 3, you can automate file transfers by setting schedules or defining events that trigger file transfers, such as the receipt of a file. This helps ensure that the necessary files are transferred and reduces the operator’s workload.

- Main window

- Control access: Limit who can access files to prevent them from being used inappropriately.

- Encrypt transmission routes: Prevents eavesdropping to secure file transfers.

- Record senders and recipients: Keep a log of who sent what to whom and at what time. These records can be used during audits.

- REST API

- Access control: Configuring who has access to what information.

- Log: Checking access log information.

- CD/DVD/Network: Access to secure file transfers through these methods.

- IT assets

- Hardware: Monitors and controls IT hardware.

- Software: Monitors and controls IT software.

- License: Monitors and controls IT licenses.

- Personal information: Monitors and controls personal information.

- Job activity log: Monitors and controls job activity logs.

- Compliances

- IT asset management

- Collect the latest IT asset information for centralized management

- Check the status of IT assets

- Acquire operation logs

- Restrict connections to the network

- Software licenses

- PCs and servers

- Expanded hard disks

- Newly added PCs

- Smart devices

- USB memory devices

- Compliance

- Asset and distribution management

- 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 automatically apply changes made to management devices, to 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 checks the statuses of security measures to be applied to managed devices and automatically applies measures according to your 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) in association with information about other IT assets such as devices and licenses. JP1/IT Desktop Management 2 also sends notifications when contract periods are about to expire, ensuring that contracts are renewed in a timely manner.

- 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.
**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 large numbers of related events, suppressing the forwarding of events, or filtering to show only the events you are interested in. You can also perform efficient monitoring operations, such as changing which events are collected based on a given time frame and restricting the events an operator can monitor based on the relevant business operations and the operator’s permissions. 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 easily 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.
- 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 large numbers of related events, suppressing the forwarding of events, or filtering to show only the events you are interested in. You can also perform efficient monitoring operations, such as changing which events are collected based on a given time frame and restricting the events an operator can monitor based on the relevant business operations and the operator’s permissions. If a failure occurs, JP1/Integrated Management automatically notifies the system administrator to ensure a rapid response.

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

**Aggregated display of events**

When a large number of events are issued, the events are aggregated in the display. Limiting the number of displayed events helps operators to easily identify the most important events.

**Suppression of duplicate automatic actions**

The aggregation of events ensures that automatic actions, such as the sending of email notifications, are not performed multiple times for duplicate events. This prevents 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 integrated manager. This reduces the load on the server and network, thereby limiting the effects on monitoring operations as a whole.
Need to improve and optimize tasks related to operating an IT infrastructure that has been consolidated via the use of virtual environments and cloud technology?

**JP1/Operations Analytics**

JP1/Operations Analytics improves and optimizes tasks related to operating an IT infrastructure that has been consolidated via the use of virtual environments and cloud technology. Configuration information about various components of your IT infrastructure (including the applications, servers, switches, and storage systems used by each business system) is automatically collected and displayed graphically. You can associate components with each other and view a visual representation of their relationships. JP1/Operations Analytics also makes it easy to create reports such as those that give an overview of the system operating status or provide useful information when you want to re-examine the allocation of resources. When a failure occurs, JP1/Operations Analytics displays information such as the impact of the failure on business systems and the causal relationships among problems that have occurred in applications and resources. Presented in an easy-to-understand format, this information helps you identify the cause of the failure. Suggested recovery methods and their possible side effects are also displayed, allowing you to decide on the most appropriate way to resolve the failure.

**Benefits of the product**

- You can easily understand the configuration of your IT infrastructure, as well as the relationships among its components, including applications such as JP1/Automatic Job Management System 3, servers, switches, and storage systems.
- When a failure occurs, you can accurately assess the severity of the failure based on its impact on business systems and the priority levels of those systems, and quickly carry out the appropriate initial response.
- You can significantly reduce the time to recovery by optimizing tasks that require advanced skills or expertise, such as investigating and analyzing the cause of a failure, and deciding how to resolve the failure.
- You can easily create reports to be used for system health checks and capacity planning.

**Using JP1/Operations Analytics during normal operation**

**Improved visualization of the system’s operating status and configuration information**

On the dashboard, you can monitor the operating status of the IT infrastructure, as well as the events that occur on JP1/Automatic Job Management System 3 servers and databases used by each business system. This allows you to easily understand the configuration of and relationships between resources. For example, you can check the virtual machines and physical servers to which a particular application is allocated.

**Assisted report creation**

By using JP1’s assisted report creation content#1, you can easily create reports on the system’s operating status and reports to be used when you want to re-examine the allocation of resources.

- This content can be downloaded from the website for customers who have subscribed to our support services.

**Using JP1/Operations Analytics to address a failure**

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.

3. **Investigate and analyze the cause of a failure**

The information you need to investigate and analyze a failure is provided in an easy-to-understand format, making it easy to determine the cause of the failure.

4. **Examine recovery methods**

Check the suggested recovery methods and their side effects to determine the most appropriate action to take.
**JP1/Service Support**

JP1/Service Support centrally manages information about the processing status and progress of various issues (registered as "items"), which is a special term for issues managed in JP1. Items can be managed in accordance with ITIL Service Support processes for incident management, problem management, change management, and release management. This allows you to clearly define the operators’ roles in each process. You can quickly assess on-screen information about each item (such as its processing status and progress), and then share this information with your entire team. 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. Based on the priority level and deadline for handling the item, the item is automatically registered. This makes it easy to identify items of high priority and reduces variation among individual operators, thereby improving control within the team.

**Benefits of the product**

- If an item is not processed for a certain length of time or if the item is in a deadline for an item is approaching, the person in charge of the item is automatically notified via email. This prevents items from being overlooked.
- If items from JP1/Integrated Management can be registered automatically, which not only saves time but also prevents input errors, omissions.
- If the 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.

**JP1/Performance Management**

JP1/Performance Management supports stable system operation by collecting operational information from targets that range from OSs and databases to virtual environments and various types of applications. This information can then be used to help predict performance degradation, to create reports to aid system tuning, and for other purposes. 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. Because a chronological timeline of system operating statuses is displayed alongside past operational data, you can easily compare the data to identify areas that are likely to become bottlenecks. This allows you to carry out more reliable capacity planning that does not rely on guesswork.

**Benefits of the product**

- Based on past performance information and current performance values, detect, in real time, trends that deviate from the norm. Such trends, are warning signs of degradation in service performance levels and, left unattended, might lead to failures. By identifying these trends before threshold values are actually exceeded, you can address the underlying issues before users notice degradation in the services being provided.

Need to handle inquiries, failures, and other items efficiently and via the correct processes?

**JP1/Service Support**

**JP1/Performance Management**

Need to monitor system performance to ensure stable system operation?

**JP1/Performance Management**

**Benefits of the product**

- Perform active monitoring of the application processes and Windows services that are running on servers. You can also centrally manage the operational information for each process, as well as operational information obtained by using other management tools.
- 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.

**System Operational Status Summary**

To get an accurate understanding of the work status, check the history of actions that have been taken for the item and the persons who are in charge of taking future actions.

**View a summary of item status information (such as the number of items yet to be processed and the number of items currently being discussed), and share the progress of item handling.**

**View Reports (CPU usage of virtual machines)**

**View Reports (disk usage of virtual machines)**

**Instantly assess the statuses of various management targets.**

**Use the reporting window to investigate the causes of problems and for capacity planning.**
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 node'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 and the failure can be promptly resolved. In addition, by linking this product with JP1/SNMP System Observer (for monitoring system resources and application processes), you can seamlessly check the statuses of system resources and application processes in addition to the network configuration and failure status.

**Benefits of the product**

- Because topology maps are automatically created and updated, even if the network configuration changes, 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.
- Reports can be created for each business location or for each network device, based on collected resource information. These reports are useful during periodic system evaluations and for developing revision plans.

**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. 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.

**SNMP:** Simple Network Management Protocol  
**RCA:** Root cause analysis
**Product categories that can be selected to address various issues**

**Performance management**

This 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 environmental changes in the cloud, and use the data in other systems. You can also use the software to monitor data centers, virtual machines, and various business applications.

**Integrated management**

This product monitors and evaluates service performance in real time as experienced by the users of the service. With this product, you can also optimize service performance based on your defined service level objectives (SLO).

**IT operations automation**

This product supports stable system operation by collecting operational information from targets that range from OSs and databases to virtual environments and various types of applications. This information can be used to help manage system tuning. It is also useful for developing various types of application services such as OP (single job) and COR (automated job).

**Asset and distribution management**

This product supports the data flow required for applications that are performed in a system. JP1/Automatic Operation supports basic operations such as starting, stopping, and managing servers and other types of operations including adding and deleting virtual machines, and performing recovery operations. It can be used when you need to perform various types of system data management services and to develop system monitoring environments.

**Network management**

This product provides functionalities identical to JP1/Service Support and is intended for small-scale incident management.

**IT service management**

This product monitors and ensures service performance in real time as experienced by the users of the service. With this product, you can monitor service performance (such as system uptime, CPU, and memory usage) and collect useful performance data from the user's perspective and use it to define your own management data.

**Service level management**

This product serves as the base for integrated management systems that use JP1/Integrated Management - Manager, and job management systems that use JP1/Automatic Operation. This product is the core for JP1/Navigation Platform and other systems, and is used as the base for JP1/Navigation Platform and other systems.

**IT process management**

This product is an agent product for monitoring the operating statuses of IBM Lotus Domino Server. This is an agent product for monitoring the operating statuses of IBM DB2. This product monitors the operating statuses of SAP systems.

**IT data management**

This product provides functionalities for converting incidents issued by JP1/Network Node Manager i into events that can be monitored by using JP1/Integrated Management - Manager.

**IT management**

This product is a server product that enables users to remotely monitor and control the startup of services. This product can be remotely monitored by using remote monitoring.

**System accessibility**

This product supports stable system operation by collecting operational information from targets that range from OSs and databases to virtual environments and various types of applications. This information can be used to help manage system tuning. It is also useful for developing various types of application services such as OP (single job) and COR (automated job).

**IT administration**

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. This product provides functionalities for converting incidents issued by JP1/Network Node Manager i into events that can be monitored by using JP1/Integrated Management - Manager.

**IT asset and distribution management**

This product supports the data flow required for applications that are performed in a system. JP1/Automatic Operation supports basic operations such as starting, stopping, and managing servers and other types of operations including adding and deleting virtual machines, and performing recovery operations. It can be used when you need to perform various types of system data management services and to develop system monitoring environments.

**IT service management**

This product supports stable system operation by collecting operational information from targets that range from OSs and databases to virtual environments and various types of applications. This information can be used to help manage system tuning. It is also useful for developing various types of application services such as OP (single job) and COR (automated job).

**Network management**

This product provides functionalities for converting incidents issued by JP1/Network Node Manager i into events that can be monitored by using JP1/Integrated Management - Manager.

**IT management**

This product is a server product that enables users to remotely monitor and control the startup of services. This product can be remotely monitored by using remote monitoring.