

Introducing FUJITSU Software Systemwalker Centric Manager V15.1.1

< Version 1.0 >

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Contents

- Integrated Monitoring Required in Virtualization/Server Integration
- Characteristics of Systemwalker Centric Manager
- System Configuration



Integrated Monitoring Required in Virtualization/ Server Integration

Complex Operations Management with the advance of Virtualization/Server Integration



Against the backdrop of cost reduction, server integration through virtualization has recently made great advances.

There is an accelerating trend towards integrating the system infrastructure via consolidation of all ICT assets of an entire corporation into a center and virtualization, with the aim of reducing costs.



Factors that increase costs in virtualization and server integration

Number factor : Rapid increase in the number of devices (servers, PCs, network devices)
Variety factor : Mix of physical servers, virtual servers, and network devices
Change factor : Frequent swapping of devices and addition and deletion of virtual servers

Factors that Increase Costs in Server Integration and Virtualization





When the ICT infrastructure in centers becomes large-scale and complex, this can lead to cost increases due to the hours of administrative tasks required

Common Customer Issues



Operational issues arising from virtualization/server integration:

Issue of numbers

- Need to determine the priority of problems from among a large volume of error events and solve them quickly.
- Need to reduce the burden of managing ICT devices.

Issue of variety

• Need to seamlessly monitor environments where the physical and the virtual are mixed.

Issue of volume of changes

- Need to understand the operational status of devices to reduce idle assets.
- Need to understand the status of software usage to effectively use software licenses.



Operational efficiency through the centralized management of the entire system, including ICT assets, is necessary to respond to the problems of number, variety, and change in center devices.

The Solution Is Systemwalker Centric Manager



"Visualization of the entire system and ICT assets" is achieved in an environment where virtualization and server integration have been adopted, and changes day by day

Solution to issue of numbers

- Visualize problem status and trends
- Visualize error location and the extent of the impact
- Identify problem causes with just a few operations
- Filter important events from a large volume of events

Solution to issue of variety

• Visualize the relationships between physical and virtual servers, networks, storage, business units, and their operational status

Solution to issue of volume of changes

- · Visualize the latest status through automated inventory of the ICT devices
- · Visualize the current usage status of center devices and software

Centralized monitoring of the entire system

Integrated management of the lifecycle of ICT assets

Centralized Monitoring of the Entire System



Quick response to problems is possible as the error location and the extent of the impact can be seen at a glance

- The status of the entire system cannot be seen
- The problem location and the extent of the impact cannot be determined

Servers/networks/storage/business units are monitored separately



- The operational status of physical/virtual servers, networks, storage devices, and business units can be checked in the same screen
- The location of the problem that occurred and the extent of the impact can be determined at a glance

Common monitoring of the entire system



Integrated Management of the Lifecycle of ICT Assets



Efficiently manage changing ICT assets by understanding their status





Characteristics of Systemwalker Centric Manager

Integrated Management of the System Operation and ICT Asset Lifecycles



Management Functions for the System Operation Lifecycle

Enterprise Edition







Monitoring of the Entire System





Various environment systems can be monitored in one console

Monitor entire system in one screen

- Using the Web GUI, the operational status of servers, networks, storage, and applications are simultaneously monitored on one screen
- Monitor physical servers and virtual servers by associating them
- The monitoring menu corresponds to the administrator role
- Link with third parties' systems operations management software to achieve fully integrated monitoring regime (adaptor for linkage to third party systems distributed free)
- Implement both Integrated Monitoring of the data center and individual monitoring of tenants and business systems

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All problems can be checked in one screen



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Reference 2: Integrated Monitoring for Multi-vendor Environments





O INTERNAL USE ONLY

On-premises systems (Windows/Linux/UNIX) and public cloud environments can be monitored centrally with a single console



* Microsoft Azure monitoring is available only when the monitoring server that directly communicates is Windows.





Monitoring of a deployed virtual server can be automatically started straight away





System users can individually monitor business systems



Supporting the Problem Response Tasks through Linkage with the ICT Asset Information





Monitoring (1)

Gain an Instant Understanding of the Problem, Even in Large-scale Systems



Determine problem priority and quickly identify causes

The event status can be understood in the Web Console

- The event occurrence status (number of occurrences, occurrence trends in a certain period, and occurrence trends per model, etc.) can be understood at a glance
- The display items can be customized according to the administrator's role and extent of responsibility

Understand the error content in a few steps

- Symptoms can be recognized and causes identified easier, by collective notification of similar events, and by notification messages that suggest causes based on event combinations
- The error information is filtered with a click so that only the required information is checked
- Understand the system status together with the asset
 information
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Agentless Monitoring

Monitoring is possible without affecting the server

Integrated monitoring, in which various types of computers are monitoring targets

- Installation of Systemwalker agent programs is not required
- Servers on which agent programs cannot be installed can be monitoring targets (for example, 24-hour operational servers, servers whose configurations cannot be changed, old-type OS servers, etc.)
- Cross-platform environments in which there is a mix of different OS are also supported (
- Hybrid configurations in which there is a mix of Agentless Monitoring and Agent Monitoring are also supported
- Monitoring of Microsoft Azure Platform and Fujitsu Global Cloud Platform Powered by Microsoft Azure(*1) can be supported with Agentless Monitoring

(*1) Cloud infrastructure provided by Fujitsu



Monitoring (1)



Continuous Monitoring



In 24/7 monitoring, error events are guaranteed to be detected

Monitoring does not stop, even when systems are down

- By mirroring the Operation Management Server, monitoring can still continue even if a problem occurs on one of the servers (Up to a quad configuration is possible)
- Systemwalker has comprehensive selfdiagnostics to check its own operational status
- Event logs that are not sent due to a communication problem are resent automatically after recovery

Backup without the systems operations being stopped

 The monitored environment can be backed up while the Operation Management Server is still running





System Operations Security



Illegal operations and problems caused by operation errors can be prevented

Server access control

- Access to important files and programs is controlled per user
- Login is controlled per user

Operation management console access control

• Permissions for use of the operation management console are assigned according to the administrator role

Note: "Server access control" is supported on Windows/Linux





Internal control is possible by checking the privileged operations log

- (1) The logs are collected from the servers
- (2) Check the operation content by tracing the log



Simple Installation and System Extension

Installation of Systemwalker and setting monitoring definitions are more efficient

Simple installation of Systemwalker

- Agent programs and environment definitions are installed silently at the time of the initial installation
- Version upgrades are performed automatically by the Resource Distribution function

Monitoring definitions are managed collectively and applied automatically

- Monitoring definition information (policies) are managed centrally and remotely applied collectively
- These are remotely set in the newly added server from the Management Server
- The definition content can easily be checked in a GUI screen
- Monitoring policies can be set by granting rights to set monitoring policies to the administrator for each customer/service (tenant) provided (Multi-tenant monitoring)



Installation





Gain an Understanding of the ICT Asset's Current Status



An understanding of the hardware asset operational status, contract status, and inventory status can easily be obtained



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The reports are in Excel format, and can be customized for use in reporting.

All ICT Assets are Automatically Reflected in the Management Ledger

Installation Operation FUITSU

The management ledger can be created quickly by the automatic registration of the inventory information and automatic detection of network devices



Stocktaking can be automated through automatic registration of inventory information and automatic detection of network devices.

The Hardware and Software Information is Managed Centrally



The ICT assets can be managed in the Asset Management ledger that is always the latest.



Smart Devices are also Managed Centrally



The latest information can also be managed for smart devices (Android)



Note: The smart device information can be collected only via a Wi-Fi connection.

◎ INTERNAL USE ONLY

Gain an Understanding of the ICT Asset's Status via a Periodic Stocktaking







Guaranteed connectivity with previous versions

When extending the system, there is no need to upgrade versions of all the products

Systemwalker guarantees connectivity when there are a mix of versions, and assures server addition and gradual system extension.





System Configuration

Installation Configuration

FUĴÎTSU

(Standard Edition/Enterprise Edition)



*1: When the Operation Management Server is Solaris or Linux, the Asset Management Server and Operation Management Client must be installed on separate PCs.

Installation Configuration (Open Monitoring)



(Standard Edition/Enterprise Edition)



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