

*Master***S***Scope*

A Business Operation and Management Software Suite

November, 2015

NEC Corporation,
Cloud Platform Division,
MasterScope Group



Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

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1. Concept of MasterScope

Changes of the environment for IT system management

Demands for more than comparable **service quality**, Response to **compliance needs** and **complexity of IT environment** make load of operations manager bigger.



Farm enterprise

Cost reduction
Response to Compliance

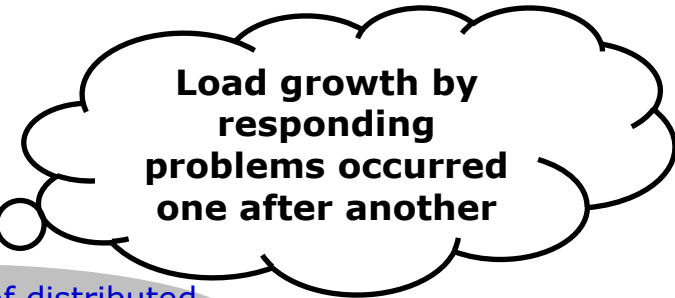


User

Demands for more than comparable services



IT system operating division



Load growth by responding problems occurred one after another

Rapid changes on IT environment

- Legacy system to open system
- Multivendor products
- Complexity of system linkage
- Increasing servers and client PCs
- Complexity of network environment
- Rapidly evolving IT technology

Difficulty in grasp of distributed system's configuration
Rapid increase of management targets

Difficulty in management of multivendor
Management method is various

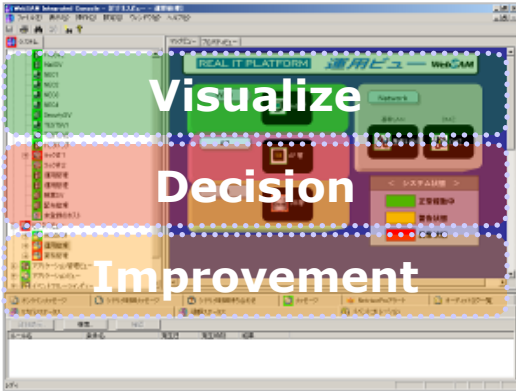
Increasing system management man-hour
Lots of PCs and large networks

Shortage of employee for the open system
Increased 24H365D system operation

Extent of the impact is ambiguous



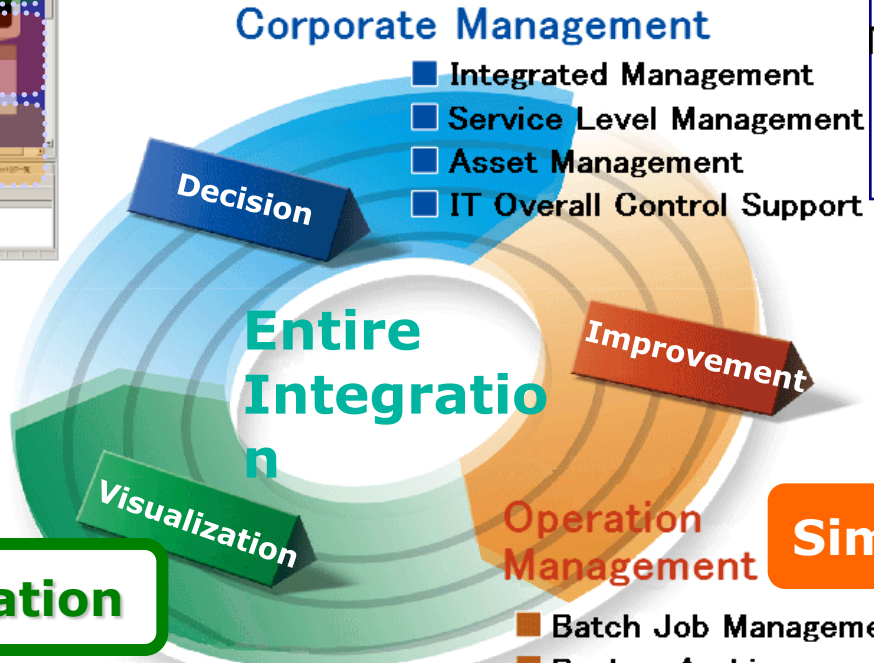
Concept of MasterScope



Visualize
Decision
Improvement

Simple Decision

Navigate appropriate decision
Support with system management knowledge



Corporate Management

- Integrated Management
- Service Level Management
- Asset Management
- IT Overall Control Support

Decision

Entire Integration

Improvement

Visualization

Operation Management

- Batch Job Management
- Backup Archive
- Software Delivery
- Platform Management

Simple Improvement

System Management

- Server Management
- Storage Management
- Network Management
- Application Management

Simple Visualization

Easy to visualize the system and its risk
Friendly GUI for various functionality

By autonomic operation, to improve it for comfortable management
Automatic resource optimization with various workflow template

Realizing entire control with simplified operations

By going back to basics of operation management, we pursue “**simple**”.
There’re 3 keywords to efficiently realize the entire control.

Simple **Visualization**

Visualizes system risks and
current status easily

Easy to use and understand GUI
for highly multiple functions

Simple **Decision**

Navigates appropriate **Decision**

Supports by knowledge
consolidated system operation know-how

Simple **Improvement**

Improves to the comfort operation
by autonomic operation

Automates optimization of entire resources
by the various scenario operations

MasterScope Product Lineup

MasterScope is a series of Integrated System Management Software products which enables simple operation and supports controlling whole IT system.

Corporate Management

Integrated Management	Cloud Management	Asset Management
MISSION CRITICAL OPERATIONS	Virtual DataCenter Automation Cloud Manager	AssetSuite

Operations Management

Job Management	Software Deployment	Platform Management	Backup
JobCenter PrintCenter V	DeploymentManager	NEC SigmaSystemCenter	NetBackUp NetWorker Symantec Enterprise Vault

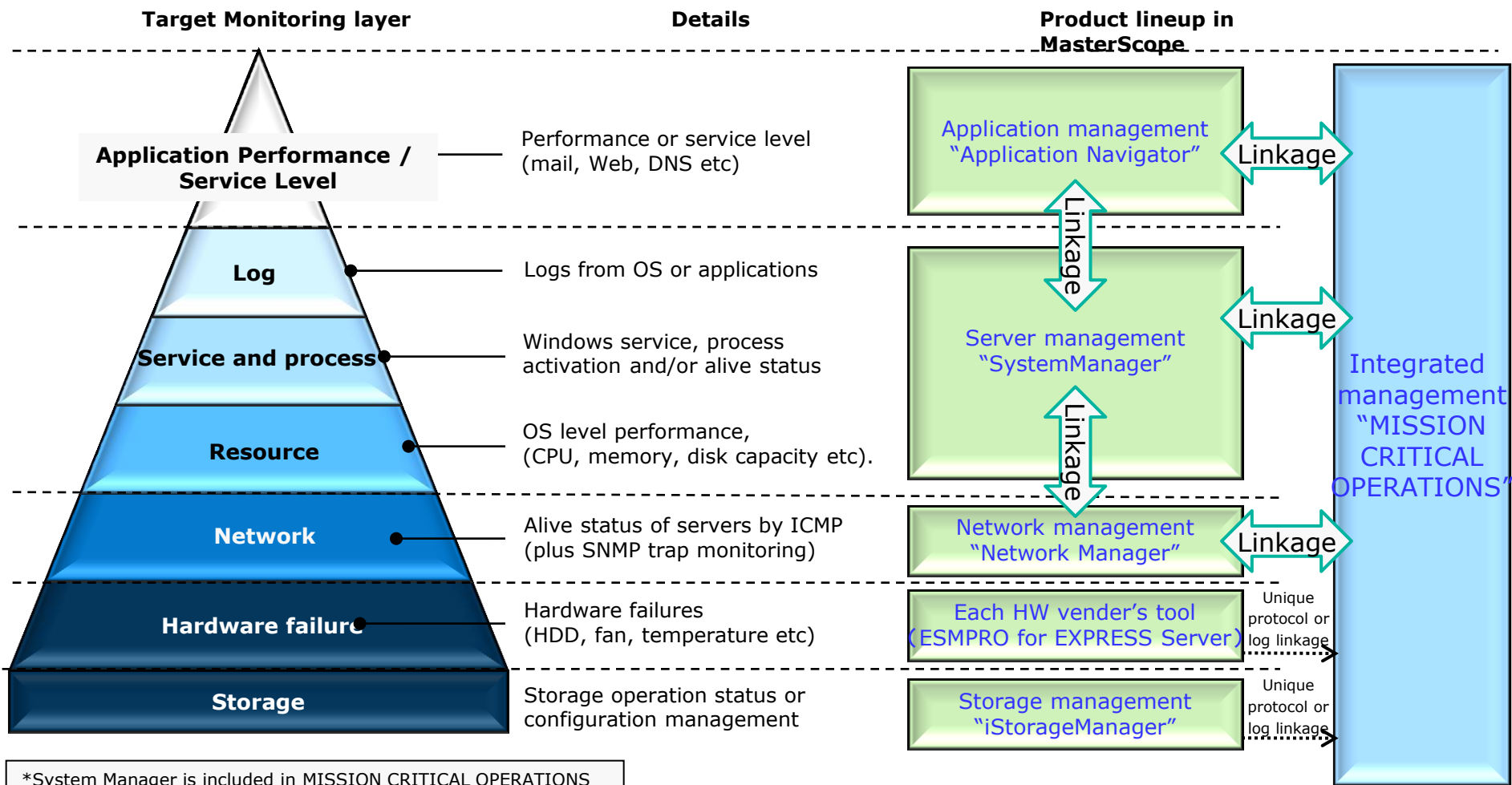
System Management

Server Management	Network Management	Storage Management	Application Management
SystemManager	Network Manager	iStorageManager Performance Monitor Suite	Application Navigator

*System Manager is included in MISSION CRITICAL OPERATIONS

MasterScope Products Monitoring Layer

MasterScope offers integrated system management for Network, Hardware, and Application layer.



MasterScope supports simplified system operation

MasterScope is the operation management software to realize simplified system operation and support entire system control.

Easy operation

Rich functionality

Easy installation

Practical accomplishment is
2,000 systems per year

Supports nonstop business
**Safe operation by
autonomic protection**

Safety

Reduction of operation cost
Streamlined operation

Efficiency

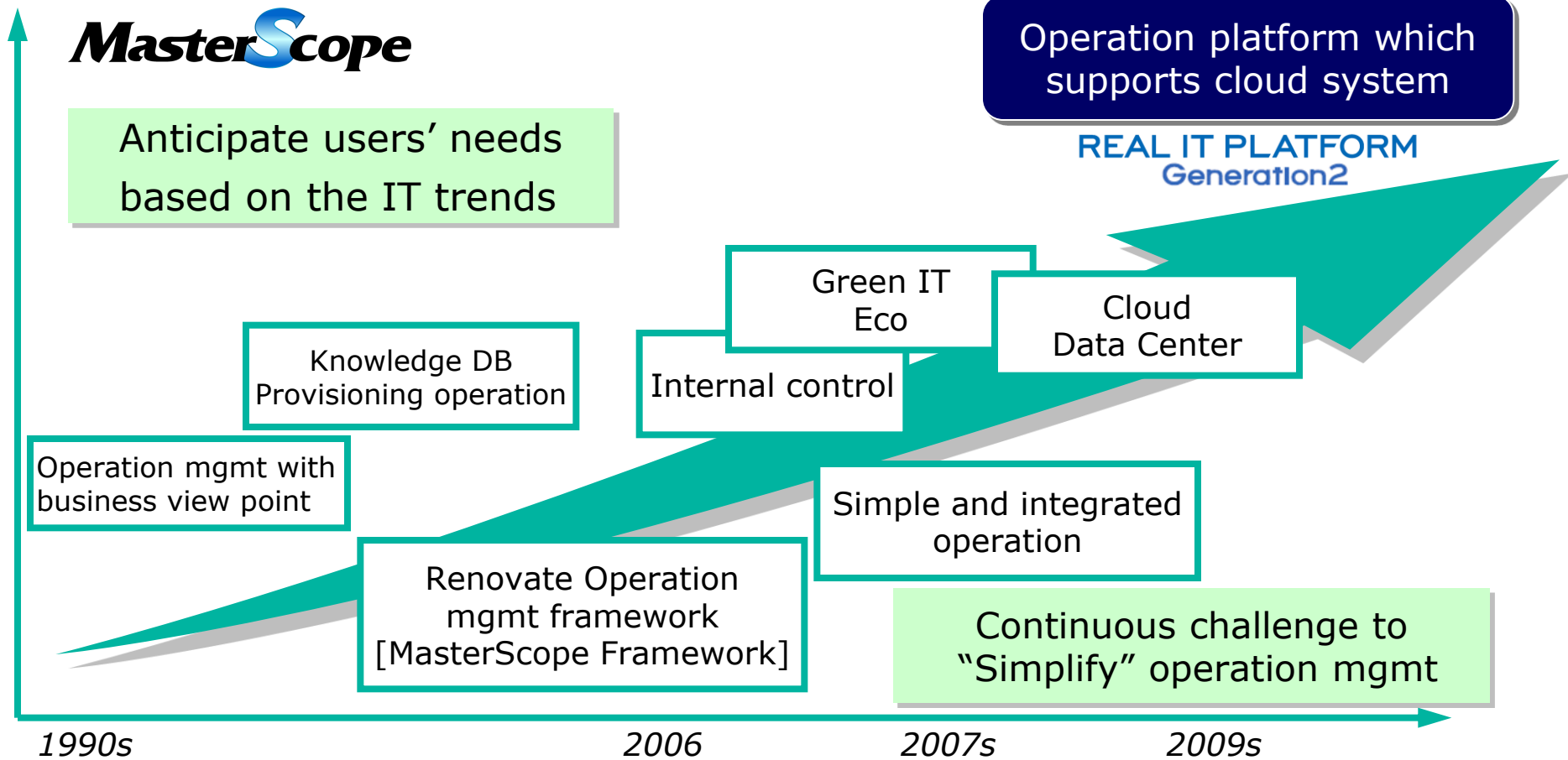
Expands business
**Safe and Secure
expansion**

**High
Reliability**

2. History and Achievement

Stepped-up commitment of MasterScope

MasterScope has been implemented in various kinds of customers' systems. This is supported by our continuous challenges to anticipate IT trends / user-needs and realize the "simple operations".



MasterScope Achievement

- MasterScope has **10 years history** and implemented in total **300,000 system**.
- MasterScope covers **various type of business / customer** (Manufacturing, Financial industry, Government, Education, Retail.. etc)

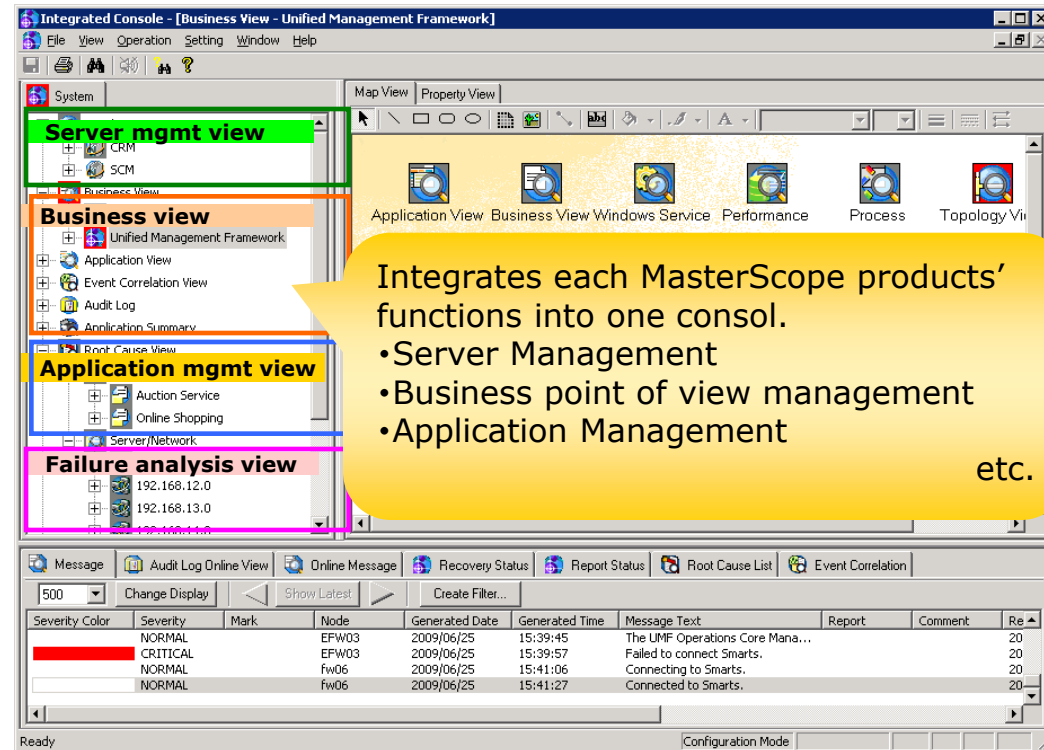
3. (Reference) Each Product Introduction

Allows your staff to focus on critical tasks, handling with daily operations effectively with reliable support.

MISSION CRITICAL OPERATIONS (MCO) monitors entire IT infrastructure to identify the cause of failures, allowing faster time to recovery. This software helps to improve your operation by automating performance and availability monitoring. It provides an integrated view into your system health that makes you prevent stoppage of a service.

Functions

- Enables to monitor process, services, logs by each nodes.
- Displays the server performance graphically and alerts if it exceeds their thresholds
- Provide NEC unique know-how and customer's system symptoms of the past issues
- Optimizes your daily operations by defining workflow templates



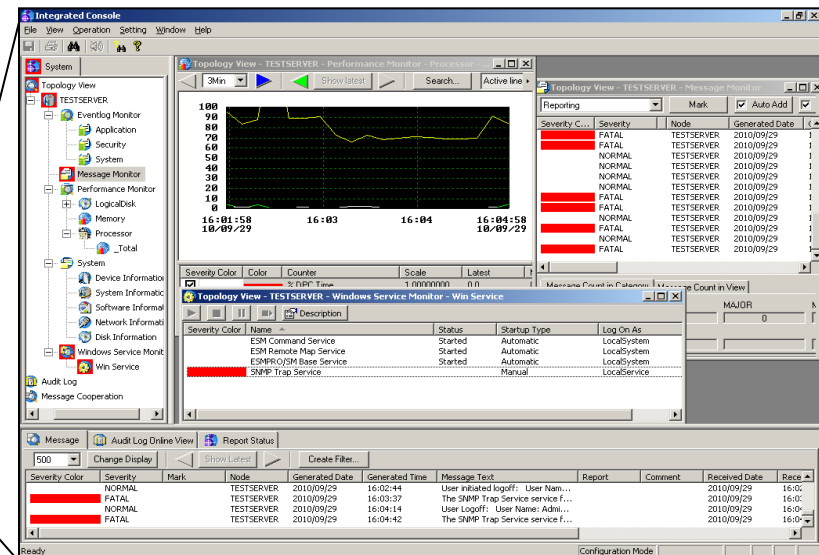
(*) Application management function is produced by MasterScope Application Navigator

Realizes simple and integrated monitoring for multi-platform servers

SystemManager centralizes individual monitoring activities and improves rationality of operators. Functions required for server management are provided for all-in-one. It also has strong advantage on expandability, which is good compatibility with multi-vender platforms and perfect collaboration with MasterScope family.

Functions

- Monitoring of operational status and failure of various servers (Service, Process, Performance, Logs, File directory, configuration etc).
- Simple setup and easily understandable GUI.
- Report function offers quick notifying admins by email and warning lights.

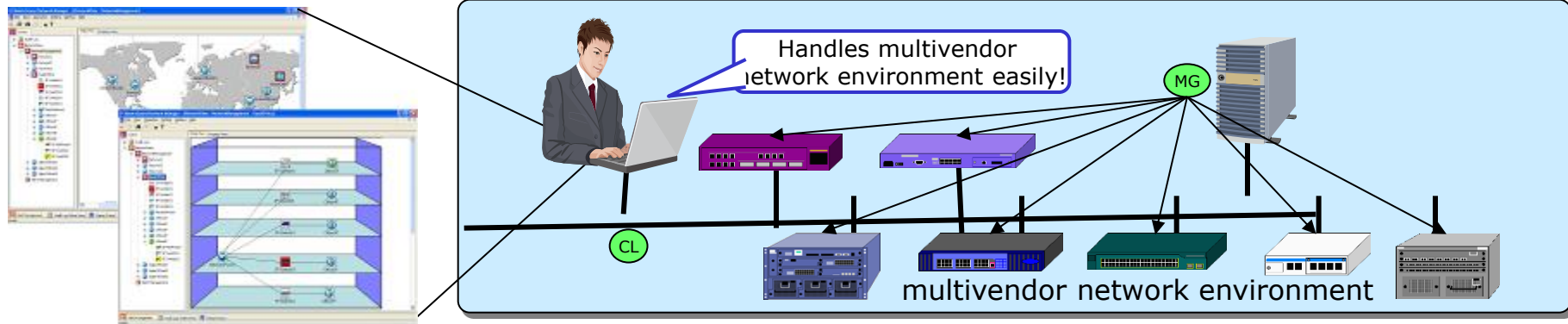


Support stable and cost-effective management for a network of any size.

Network Manager enables implement automation for network fault, performance, and availability. It also can create back-up configuration files of network devices and provide software update status. Administrators can easily manage any scale of network, even under multi-vender environment. It supports flexible management for customer's system, and actualizes stable operation of networks.

Functions

- Node Management (Network map, Graphical panel view)
- Failure Management (Detailed monitoring of network failures)
- Performance Monitoring (Performance reports, Collecting and analyzing traffic data)
- Configuration File Management (Manage configuration files of multivendor products)
- Software Management (Upgrade firmware easily and quickly)

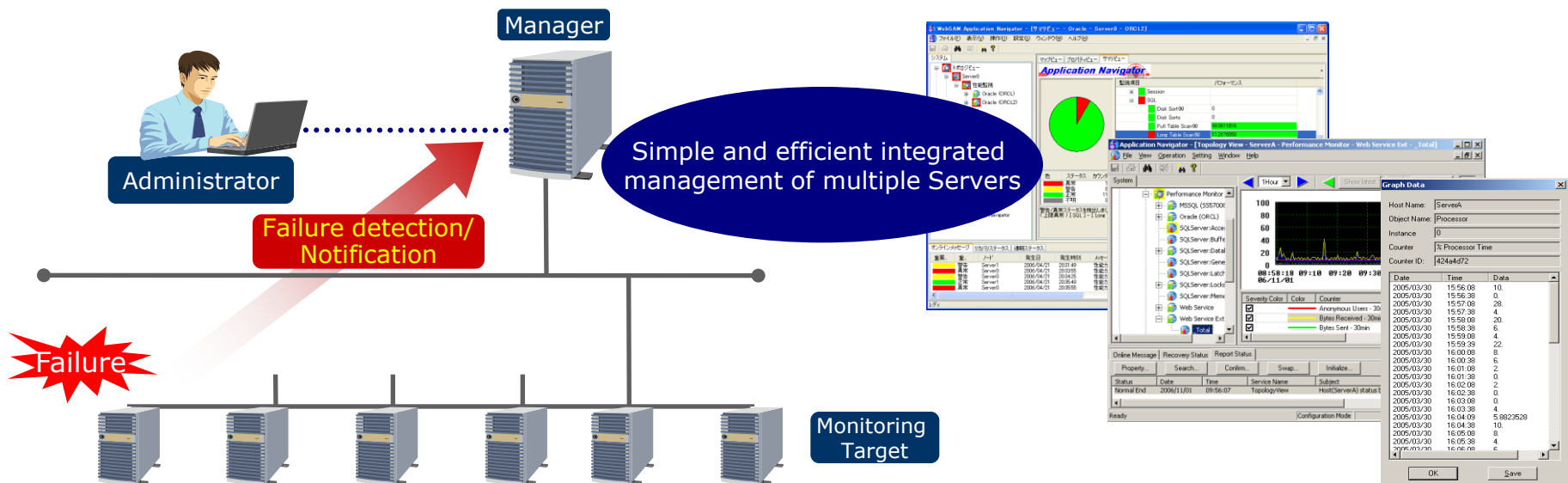


Realizes integrated monitoring for various application performance status

Application Navigator enables to see and comprehend the overview of the failure and warning which are not visible by the performance monitoring of Server. This results in not only reduction in operation control man-hours but also helps realizing a better stable Application system.

Functions

- Monitoring of operational status and failure of Application (Performance, Service Process, and message monitoring).
- Improvement in operations through knowledge



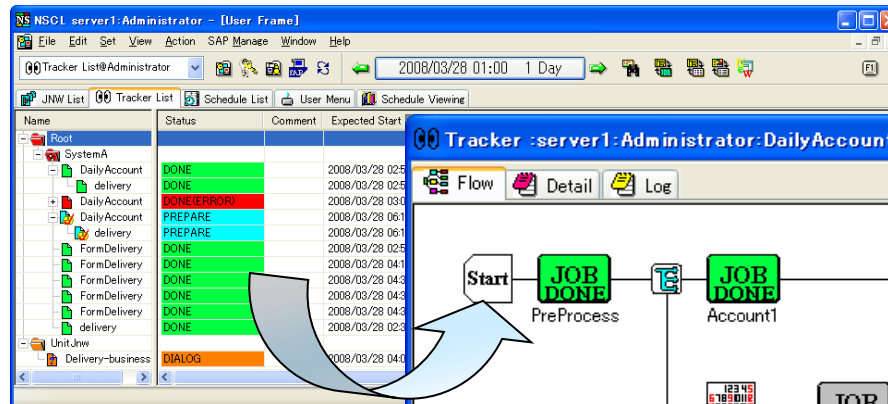
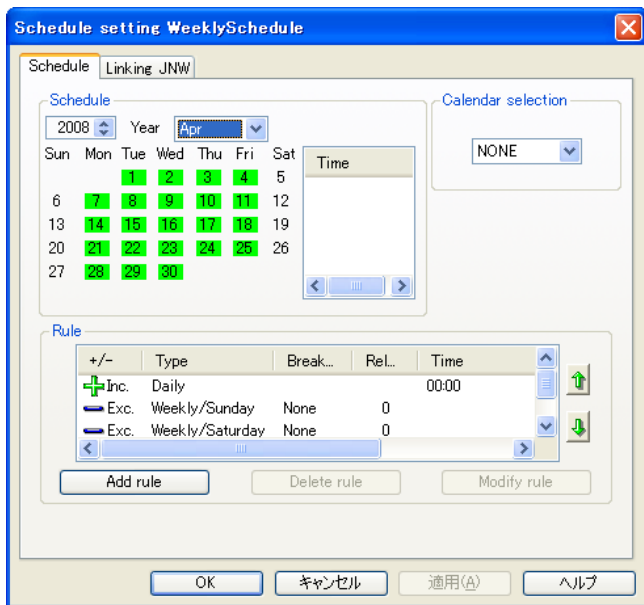
Provides simple, automated operations of daily batch processing

JobCenter enables scheduling of tasks, such as routine processing and backups, as well as load balancing, and secure automated operation for streamlined operation and reduced human error.

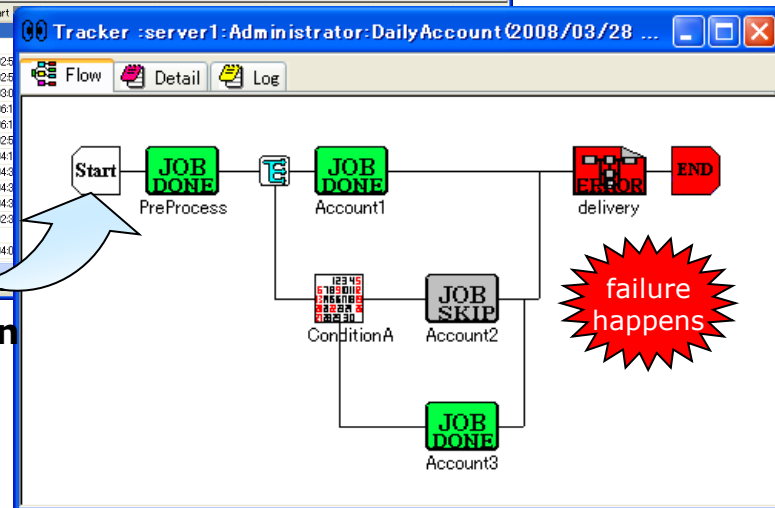
Functions

- JOB execution monitoring, operation and definition by simple GUI
- Share the job network with multi vender platform
- Flexible scheduling by a calendar
- Outputs logs of execution or change of Job as a compliance.

Scheduling



Monitoring execution

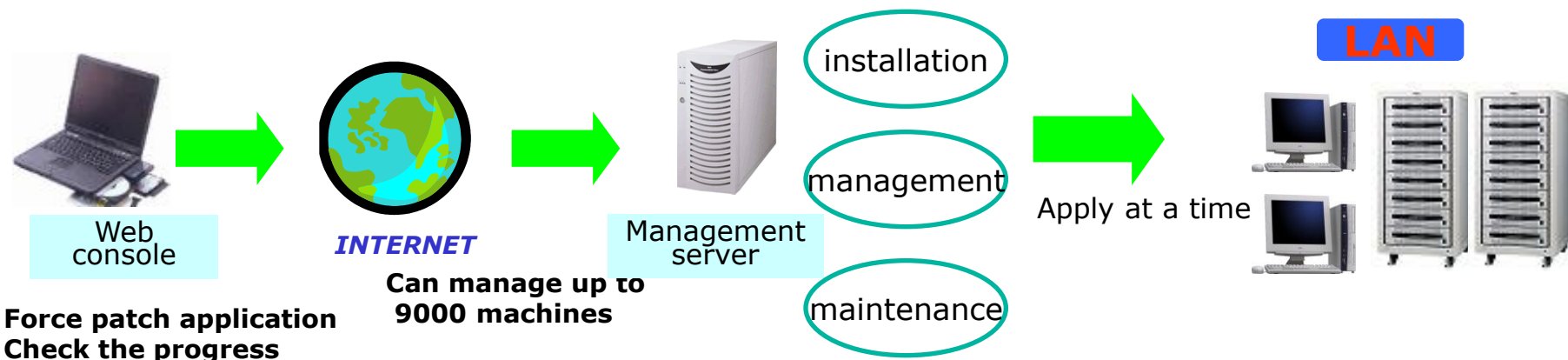


Reduce the cost of installation, maintenance for system failures

DeploymentManager enables implement automation for network fault, performance, and availability. It also can create back-up configuration files of network devices and provide software update status. Administrators can easily manage any scale of network, even under multi-vender environment. It supports flexible management for customer's system, and actualizes stable operation of networks.

Functions

- Distributes software resources to a client system. (Installs OS, HDD copy, application)
- Manage status updates of BIOS/FW, application of service package or patch
- Maintenance for backup and restore of system environment



*Master***S***Scope*

Realize simple and integrated system operation

If you have any questions about MasterScope,
please contact below by e-mail

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