

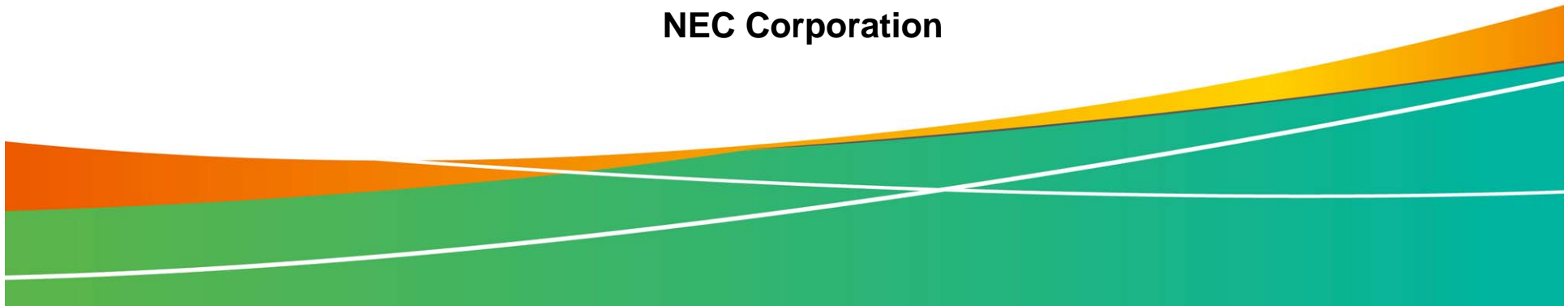
As of December 28th, 2010

Empowered by Innovation **NEC**

*Master***S***Scope*

**Simple and Integrated Management of complicated IT infrastructure
for cloud computing paradigm**

**IT Network Global Solutions Division
NEC Corporation**



To be a leading global company
leveraging the power of innovation
to realize an information society
friendly to humans and the earth

NEC Group Vision 2017

1 Concept of MasterScope

2 History and Achievement

3 (Reference) Each Product Introduction

1

Concept of MasterScope

1-1 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

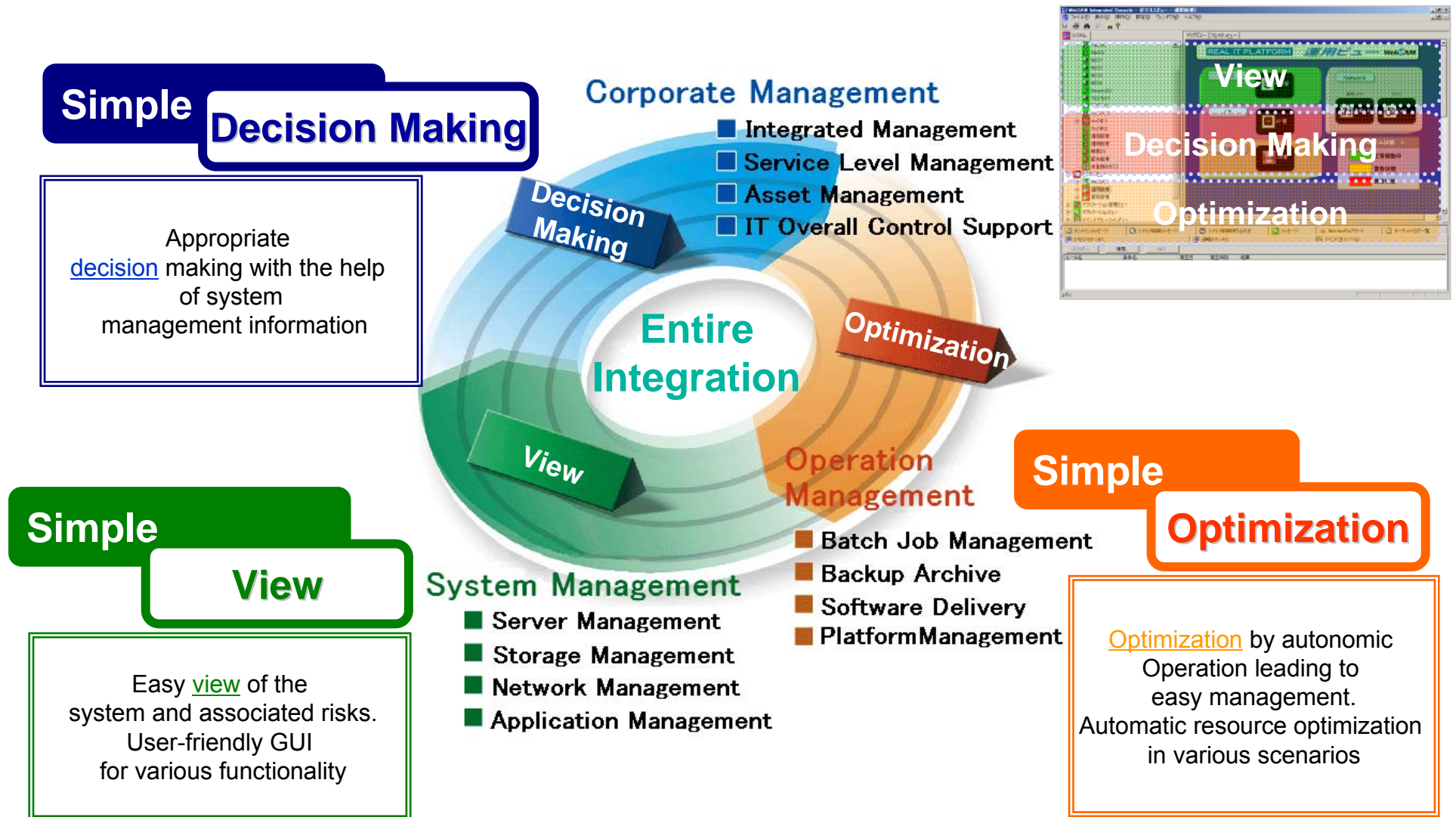
Increasing system management man-hour
Lots of PCs and large networks

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

Extent of the impact is ambiguous



1-2 Concept of MasterScope



1-3 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

View

View system risks and
current status easily
Easy to use and understand GUI
for highly multiple functions

Simple

Decision Making

Navigates appropriate **Decision**
Supports by knowledge
consolidated system operation know-how

Simple

Optimization

Optimization to the comfort
operation by autonomic operation
Automates optimization of entire resources
by the various scenario operations

1-4 MasterScope Product Lineup

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

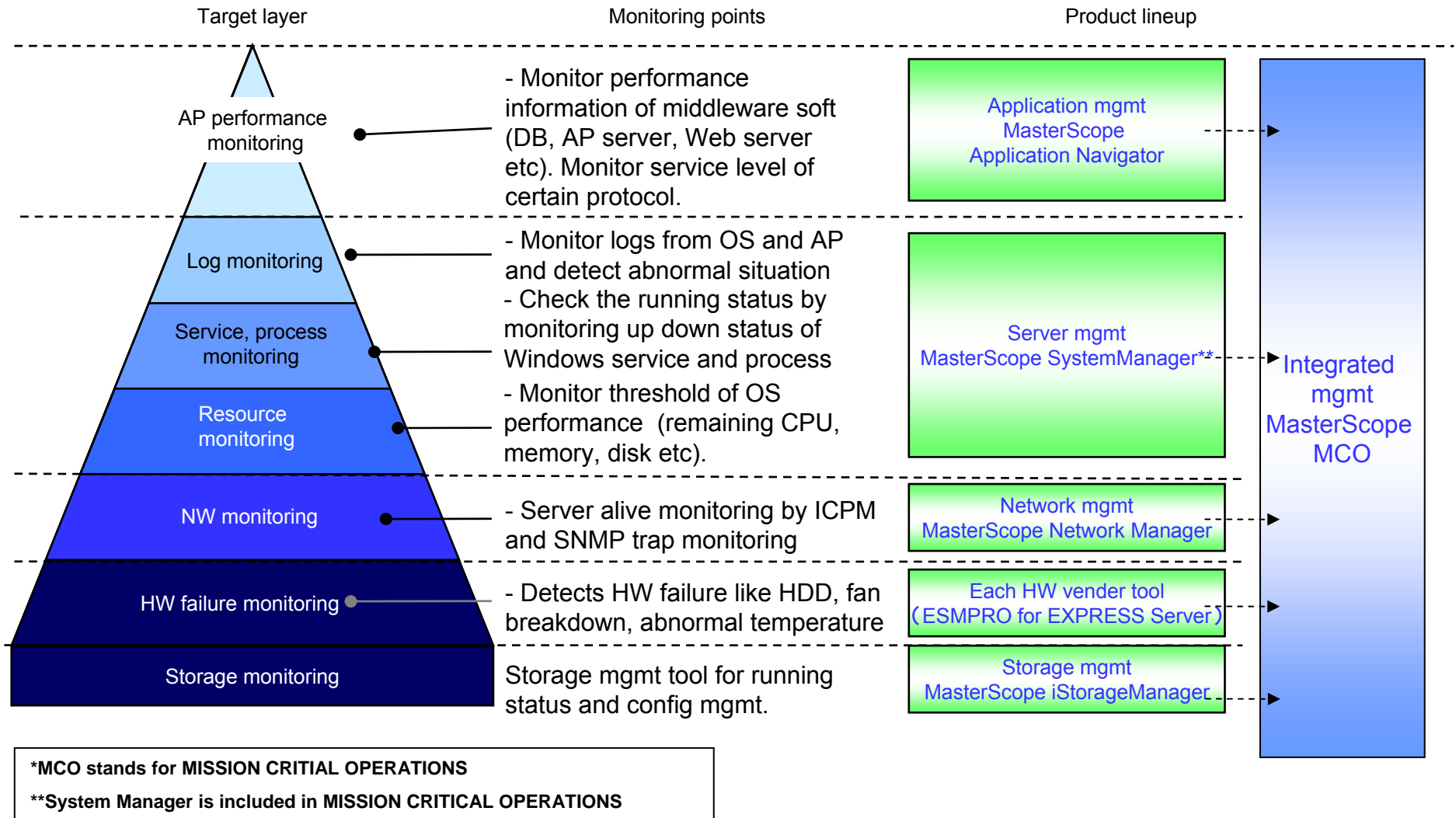
Corporate Management	
Unified Management	IT Service Level Management
MISSION CRITICAL OPERATIONS	Invariant Analyzer / ServiceManager

Operations Management			
Job Management	Software Deployment	Platform Optimization	Backup
JobCenter	Deployment Manager	SigmaSystemCenter	Networker/ NetVault/ NetBackUp

System Management			
Server Management	Network Management	Storage Management	Application Management
*System Manager / Operations Navigator	Network Manager	iStorageManager	Application Navigator

***System Manager is included in MISSION CRITICAL OPERATIONS**

1-5 MasterScope Products Monitoring Layer



1-6 MasterScope supports simplified system operation

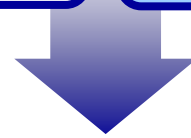
MasterScope is the operation management software to realize simplified system operation and support entire system control.

Easy operation

Rich functionality

Easy installation

Practical accomplishment is
2,000 systems per year



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

Reduction of operation cost
Streamlined operation

Expands business
**Safe and Secure
expansion**

Safety

Efficiency

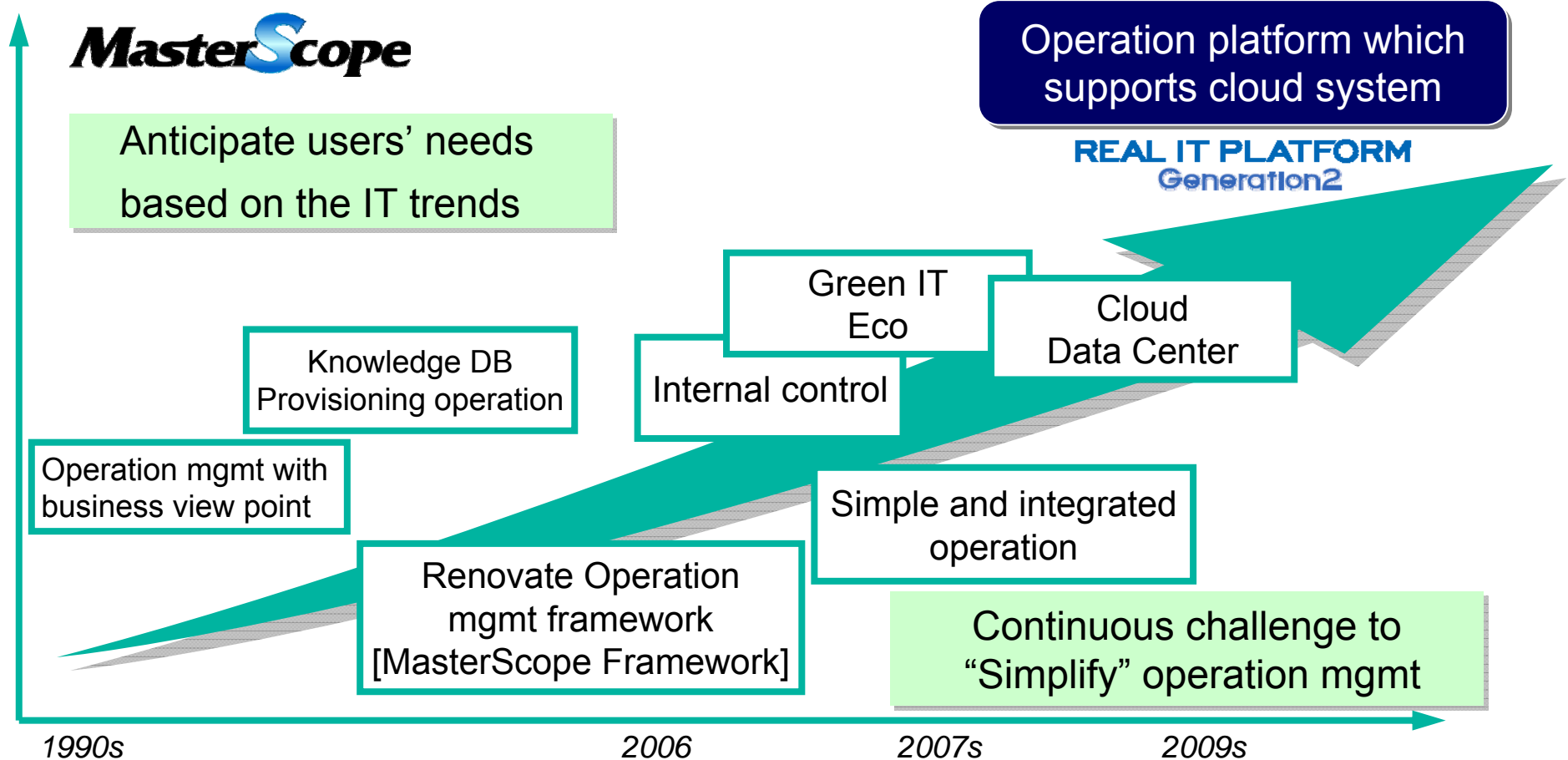
**High
Reliability**

2

History and Achievement

2-1 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".



2-2 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)
- NEC MasterScope ranked No.1 in integrated operation management software category of **Nikkei Computer 15th Customer Satisfaction Survey** in Aug.18,2010 issue.



3

(Reference)

Each Product Introduction

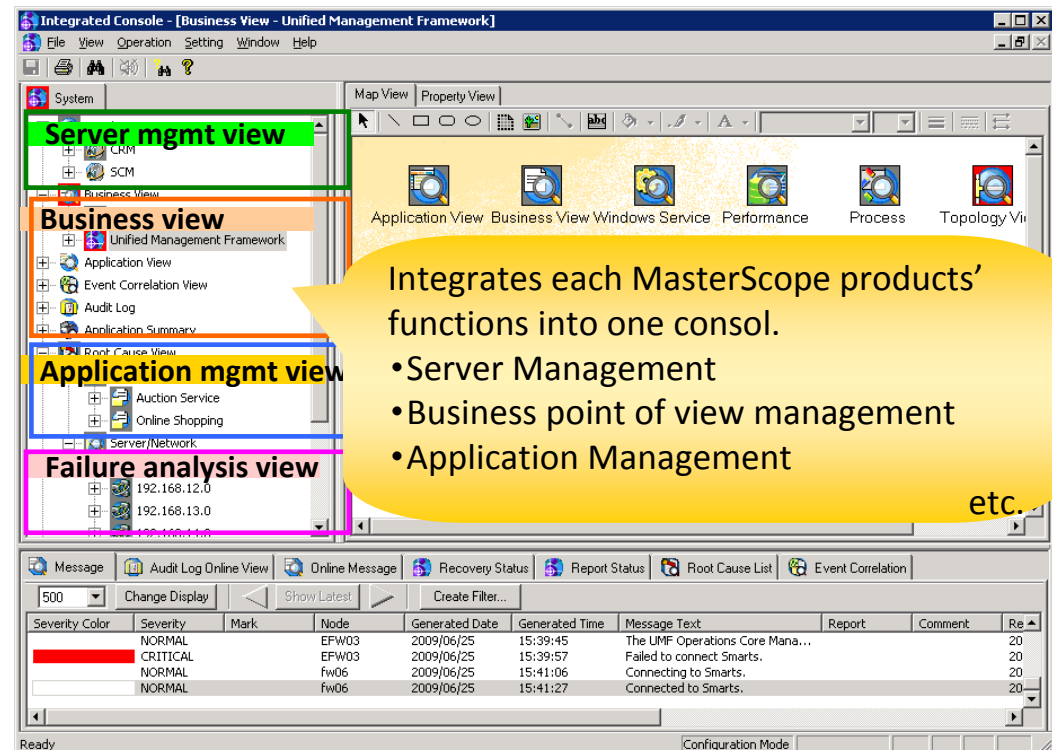
*Allows your staff to focus on critical tasks,
handling with daily operations effectively with reliable support.*

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



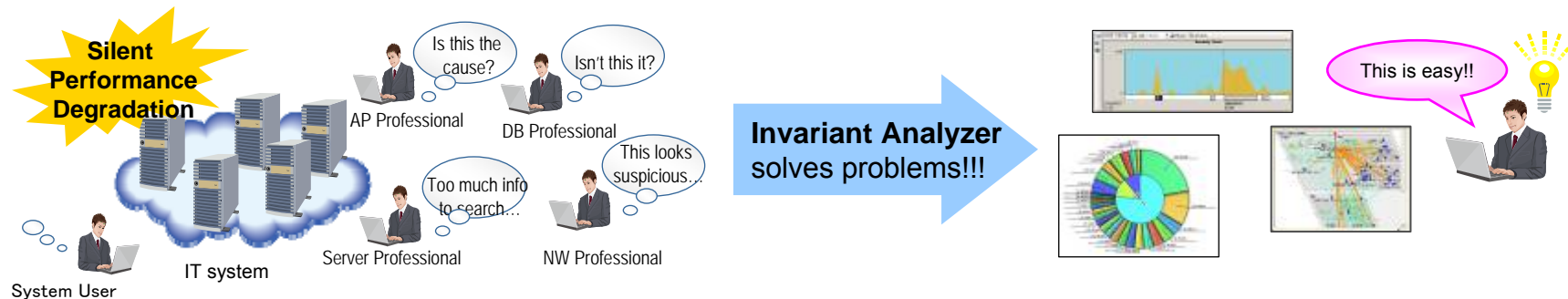
(*) Application management function is produced by MasterScope Application Navigator

Solution to hidden performance bottlenecks in large scale IT systems

Invariant Analyzer can detect performance degradation problems caused by hidden bottlenecks, which can not be detected by existing monitoring tools and have bothered system administrators so far.

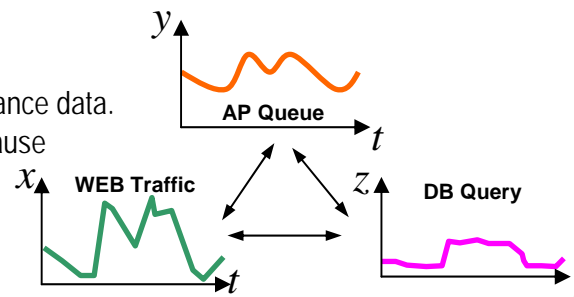
Functions

- Detects hidden performance problems and localizes its root cause automatically
- Monitors over cross domain



NEC's Unique Technology

Generates **invariants model** from the **relationships** among various performance data. It detects the problem and localizes its cause by comparing the performance data with the invariants model that represents the usual status.

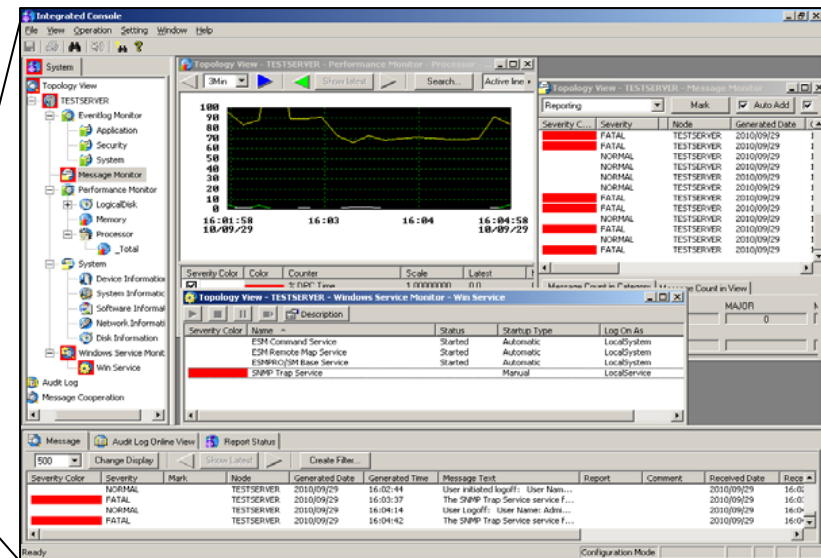
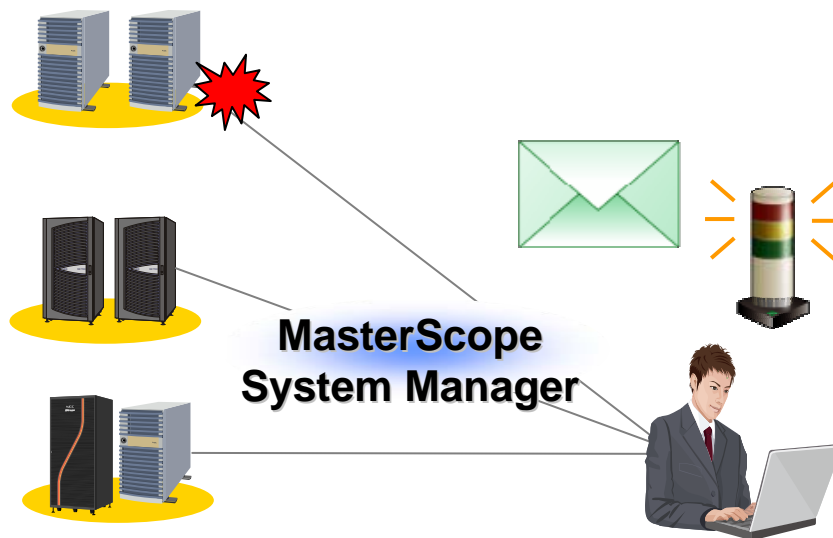


Realizes simple and integrated monitoring for multi-platform servers

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.

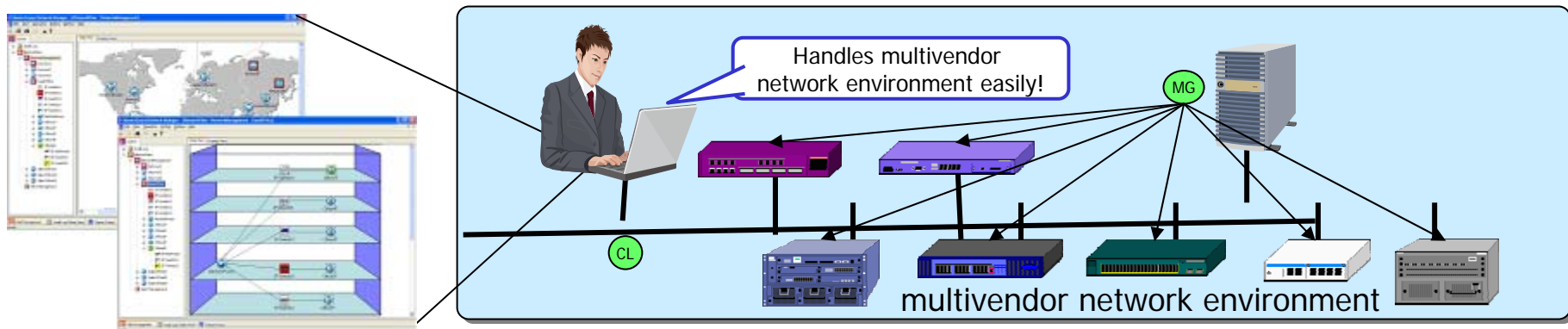


Support stable and cost-effective management for a network of any size.

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)

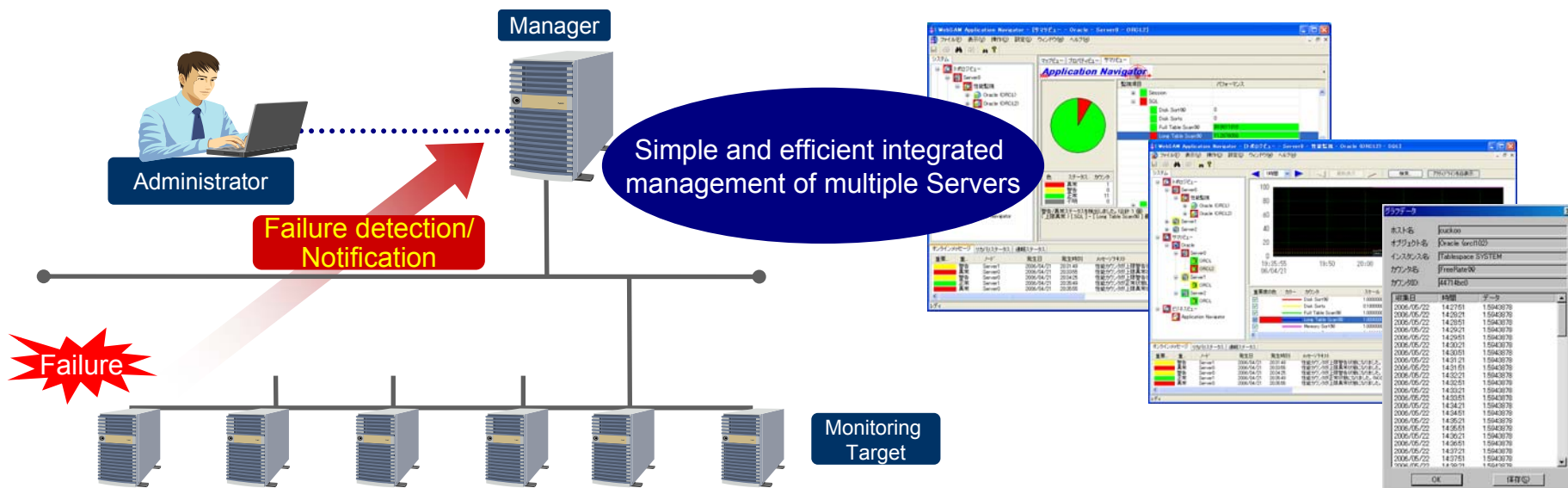


Realizes integrated monitoring for various application performance status

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



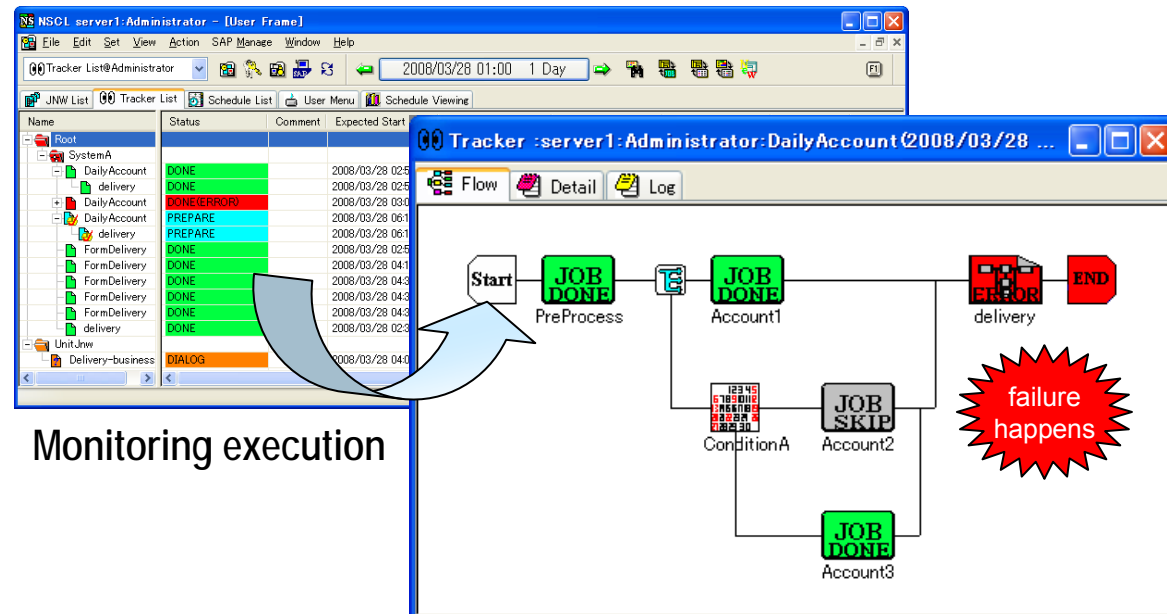
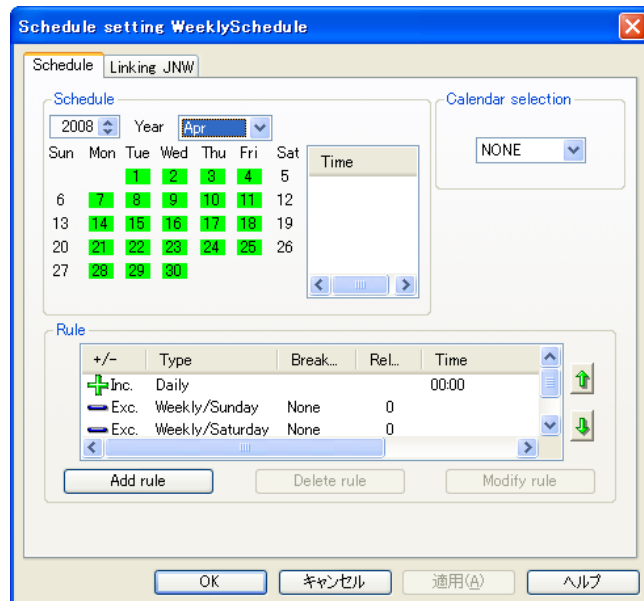
Provides simple, automated operations of daily batch processing

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



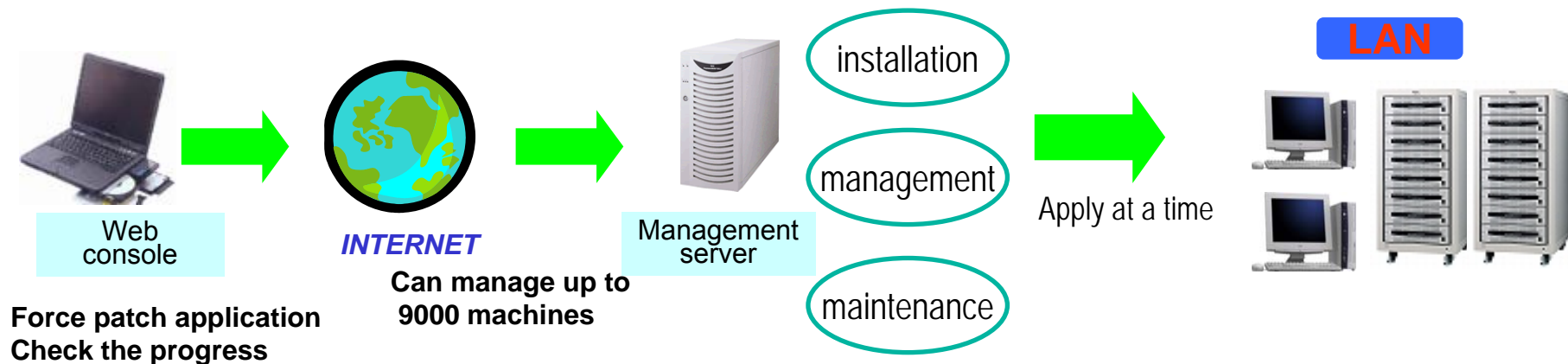
Monitoring execution

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



Thank You

MasterScope

Realize simple and integrated system operation

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

NEC : global@soft.jp.nec.com

Empowered by Innovation

NEC