



Security and Patch Management for ProLiant Servers



Joseph Mathew
Deborah Kuznitz
Hewlett-Packard

© 2004 Hewlett-Packard Development Company, L.P.
The information contained herein is subject to change without notice



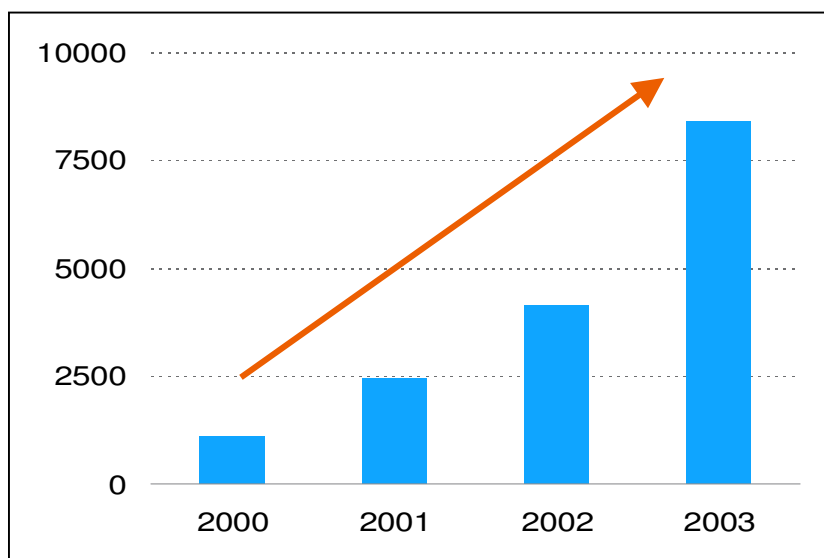


Agenda

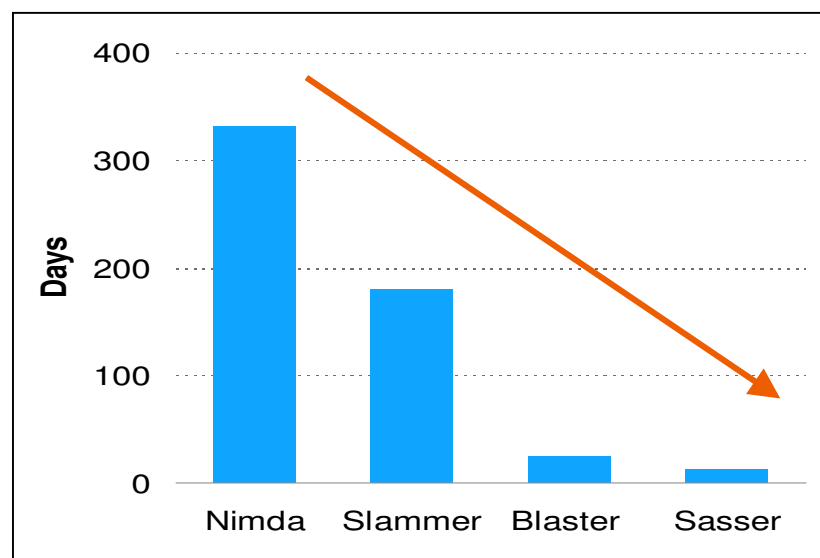
- Security and Patch Management landscape
- Patch Management in the context of managing change
- Server patch management
- A proven solution for managing and controlling changes to IT infrastructures
- HP Systems Insight Manager role
- Technology preview

Security - It's a race

Software vulnerabilities reported



Time to exploit



How soon can you assess and patch before the exploit hits your infrastructure?

Why you should care

Productivity

- Number employees impacted x hours out x burdened hours = ????

Revenue

- Direct loss
- Compensatory payment
- Lost future revenues
- Billing losses
- Investment losses

Financial performance

- Revenue recognition
- Cash flow
- Lost discounts (A/P)
- Payment guarantees
- Credit rating
- Stock price

Damaged reputation

- Customers
- Suppliers
- Financial markets
- Banks
- Business partners

Worldwide cost of some recent outages

Sasser	??
Sobig	\$36.1B
Klez	\$18.9B
Love Letter	\$8.8B
LoveBug	\$8.75B
Slammer	\$8.7B
Code Red	\$2.62B
Nimda	\$635M
Melissa	\$150M

Consider the cost of downtime... per hour, per day

The risk can be reduced dramatically

- 97% of security attacks are based on known vulnerabilities
- Most vulnerabilities also have a fix
 - Change OS settings (~30%)
 - Apply patches (~70%)



Security – It introduces change

Risk Reduction



Patch



Constant Change



Less Change



No patch

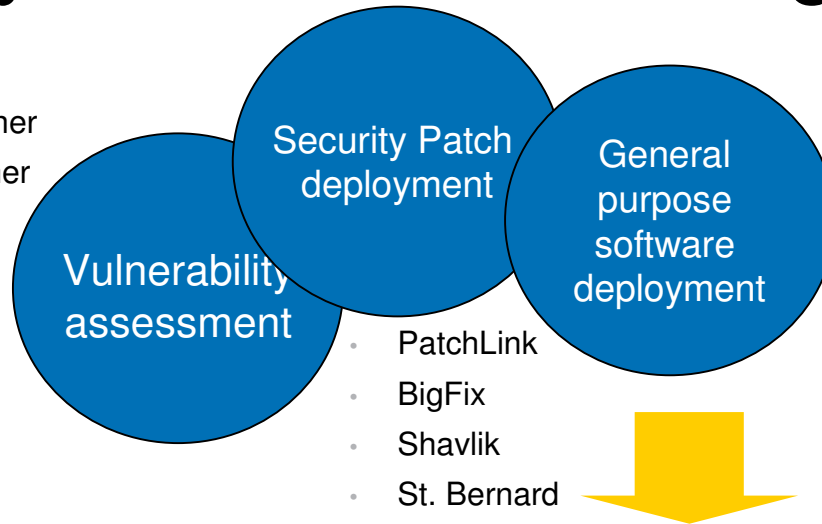


Risk of Exploit

Problem if you patch
Problem if you don't patch

How do you deal with change today?

- Harris STAT Scanner
- ISS Internet Scanner
- Qualys Guard
- Microsoft MBSA
- Citadel Hercules



- Microsoft SMS
- LanDesk

Manual or semi-automated process, resulting in errors and delayed response

Multiple teams, process and point products, which create management silos

Higher costs

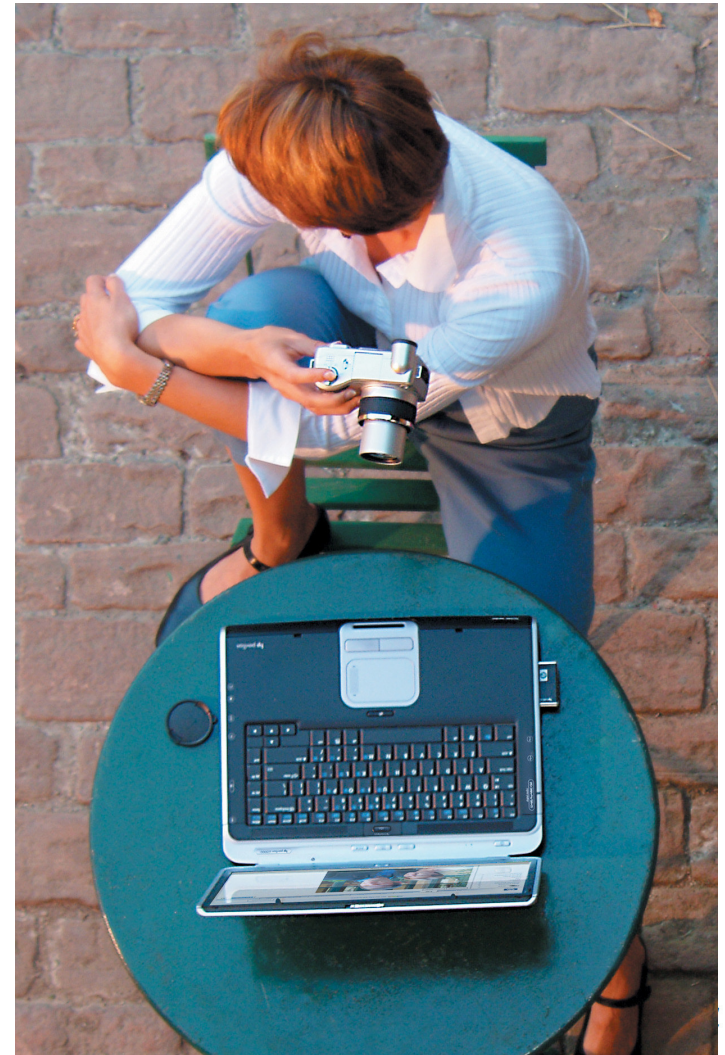
Slow response

System downtime

Another kind of change is occurring: Business itself

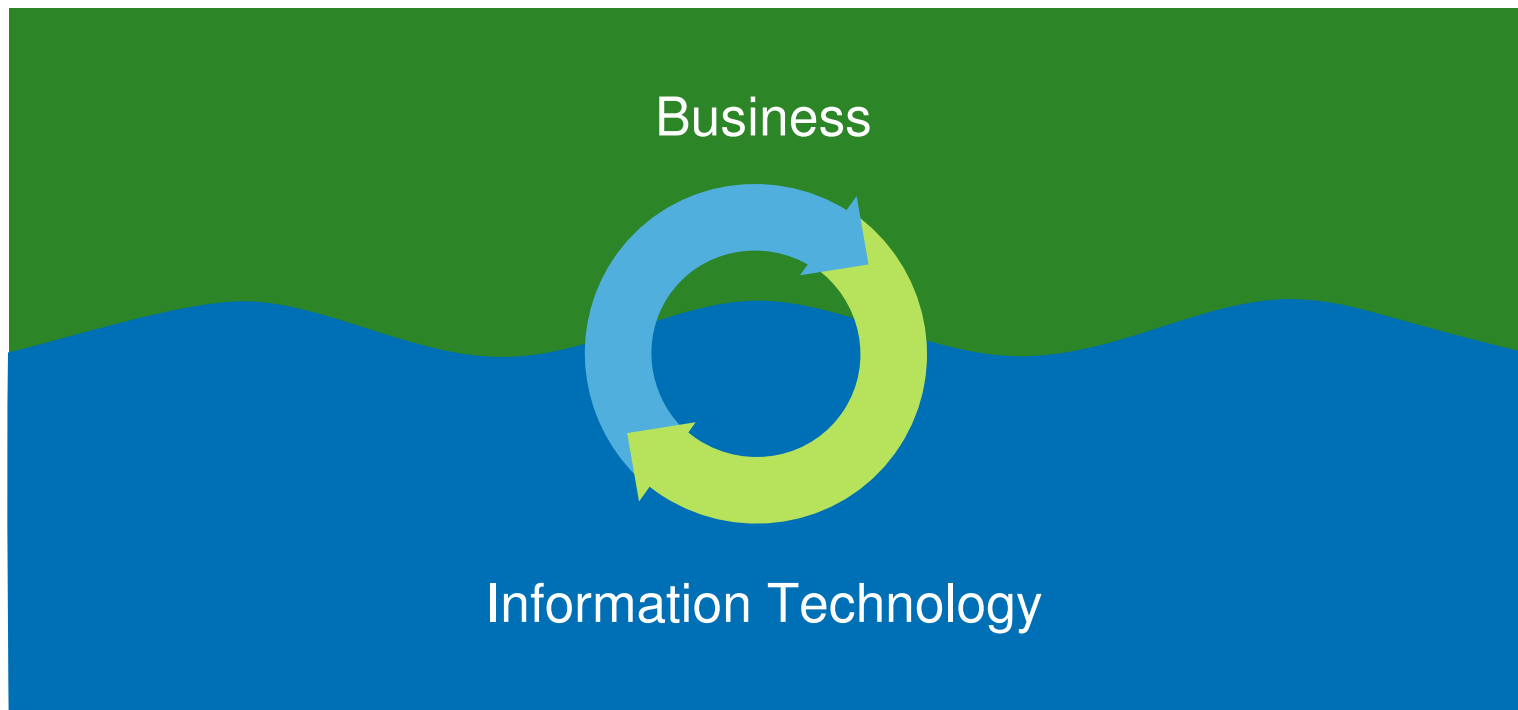


- All processes and content will be transformed from physical and static to digital, mobile, virtual & personal
- The demand for simplicity, manageability, and adaptability will change how customers work and organize, buy and use technology
- It's a horizontal, heterogeneous, networked world. Standards are about connection and common language



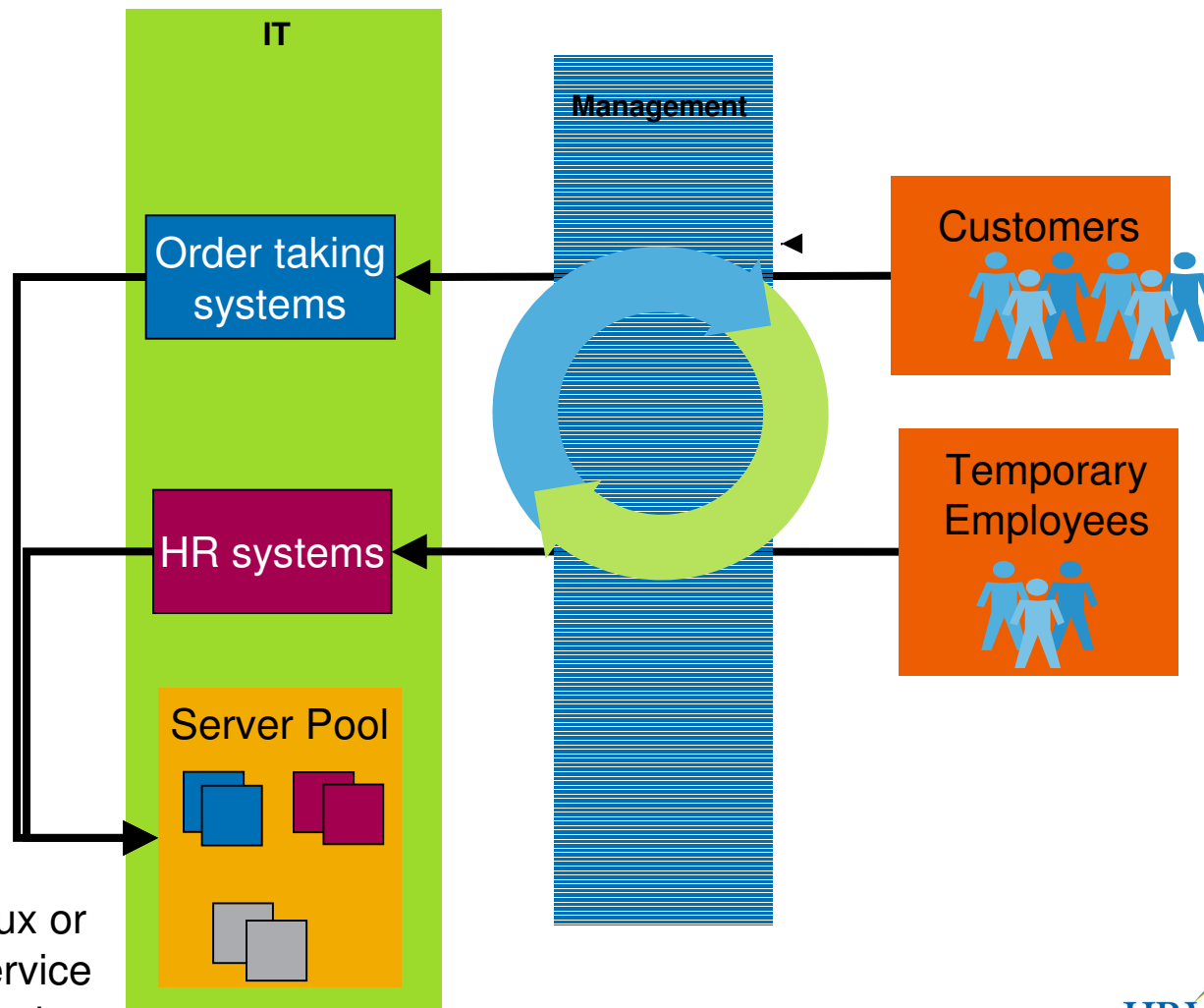
The Adaptive Enterprise

Business and IT synchronized to capitalize on change



Business benefits: simplicity, agility, value

Example: automated server provisioning to meet increased holiday sales



Windows, Linux or HP-UX in a service oriented architecture

Blade servers – fast track to the Adaptive Enterprise



Automated end to end provisioning

Automated node recovery

Scheduled re-provisioning

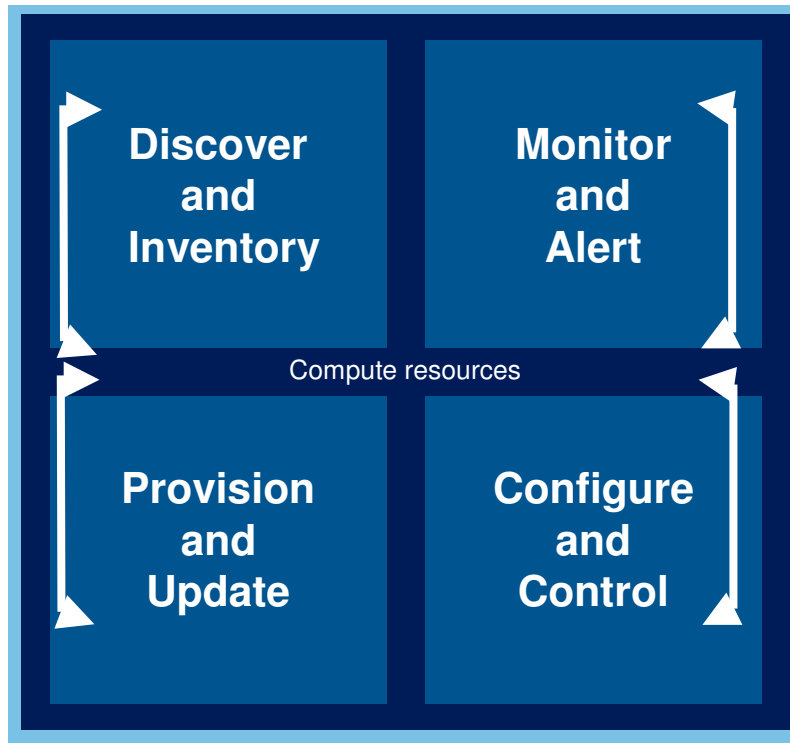
Dynamic scaling, physical or virtual resources



Holistic management is key to unlocking full potential

	Rack-mount	Blade
Installation, provisioning, & re-purposing	4 hrs. per server	10 - 30 min. per blade = 85% - 95% reduction

Server patch management needs to be handled differently

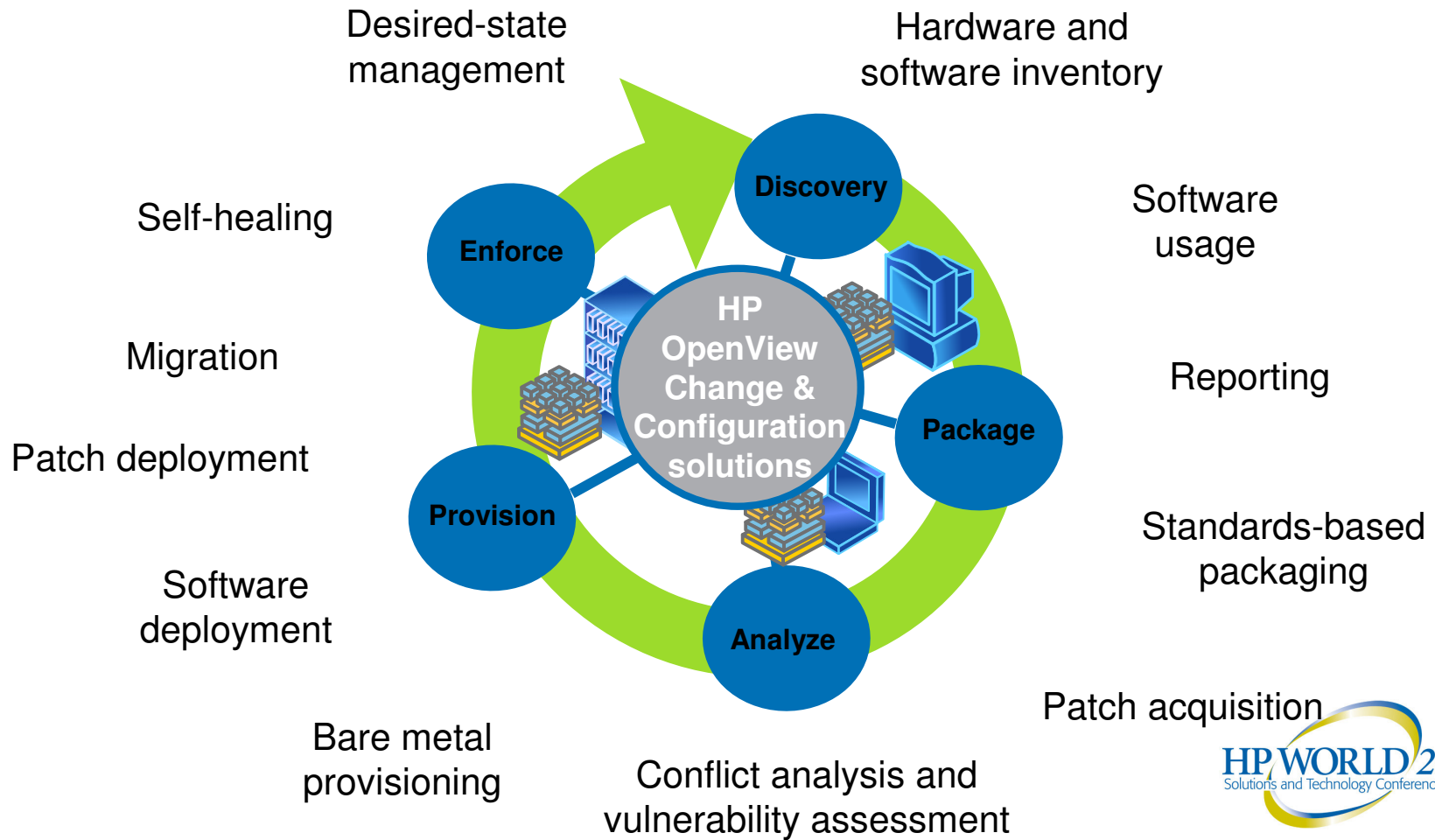


- Point patch products typically focused on desktops
- Patching of the server has to be done in the context of management of the infrastructure

Comprehensive software lifecycle management using Radia



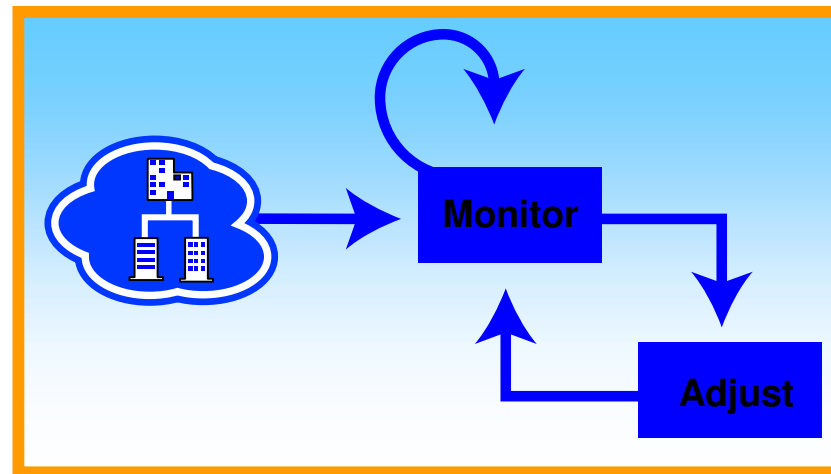
Any scale, any complexity, any rate of change, any platform, any software



Unique approach – desired-state automation



HP's automated change and configuration management solutions substitute automation for manual intervention



Cruise Control



Auto-Pilot

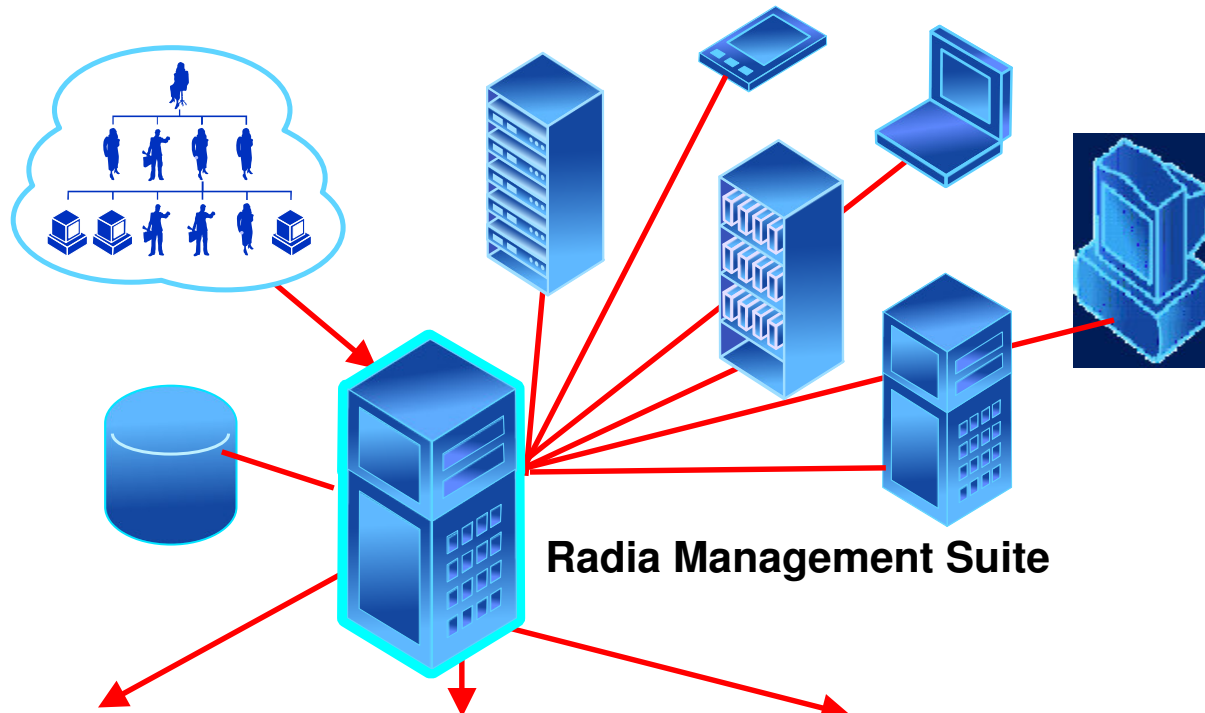


GPS

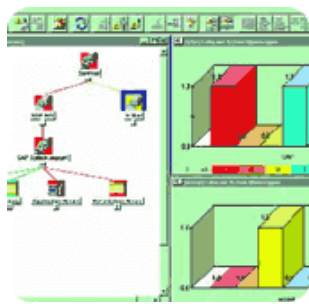


HP WORLD 2004
Solutions and Technology Conference & Expo
Thermostat

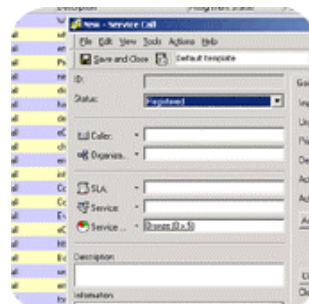
Integrated HP OpenView solution



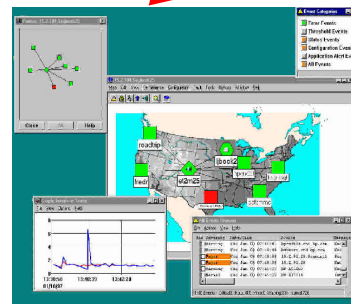
- Integration with OVO, SD, and NNM
- Inventory and event information to SD and NNM
- HP certified OVO SPI
- OVO integration supports automated responses to software events



OpenView Operations

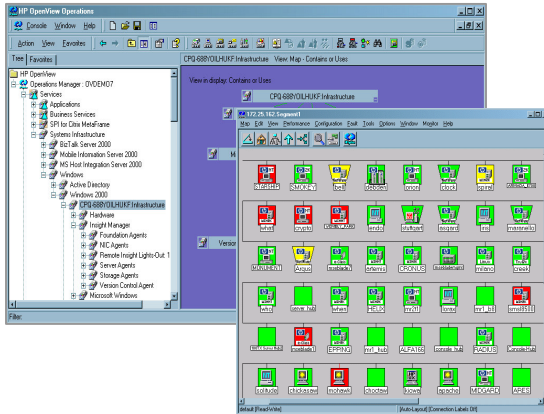


Service Desk

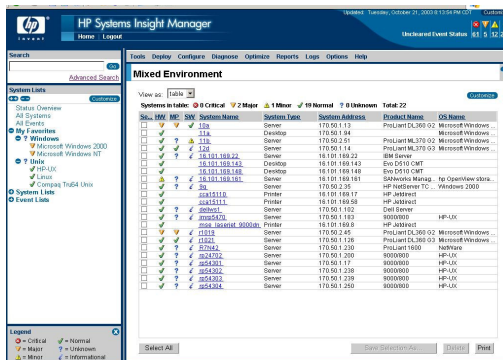


Network Node Manager

OpenView and Systems Insight Manager



- HP OpenView products
 - Maximize availability & performance of IT services
 - Manage all levels of the IT service solution stack: hardware, networks, applications
 - Delivers heterogeneous, vendor-independent mgmt.
 - Deployed at enterprise level

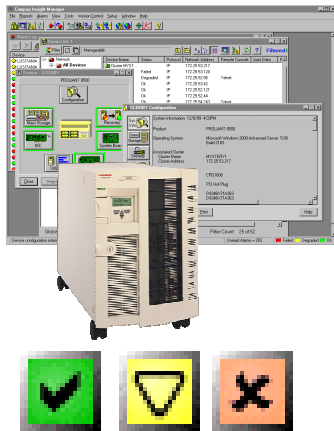


- HP Systems Insight Manager
 - Maximize availability of platform hardware
 - Reduce hardware lifecycle costs
 - Best at managing HP hardware
 - Deployed at departmental and site level

HP Systems Insight Manager



A cornerstone of Adaptive Enterprise



ProLiant Fault Management

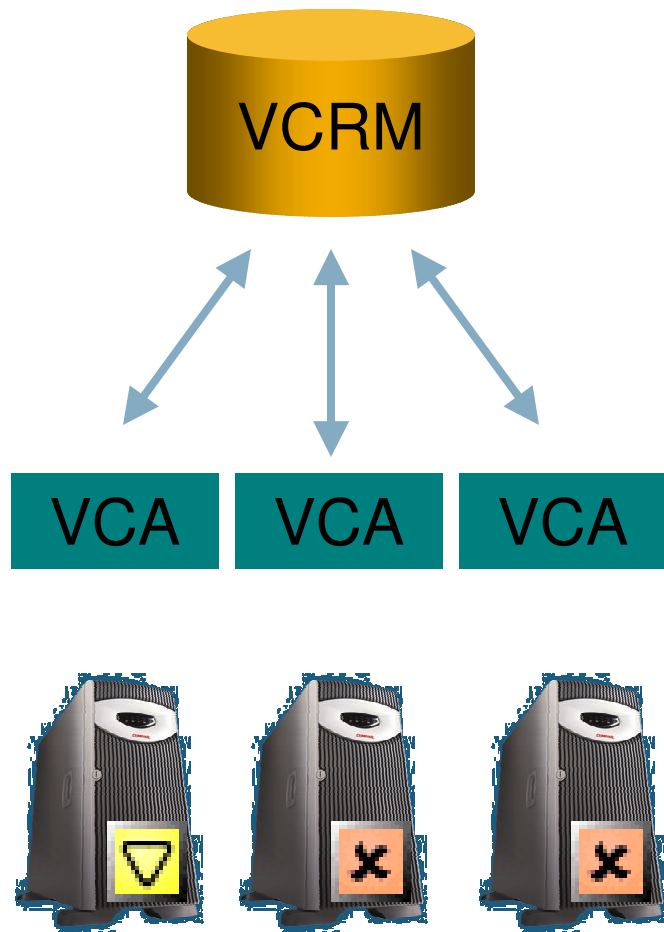


Infrastructure Lifecycle Management
across all hardware resources



HP SIM Version Control

Unique baseline approach to system software maintenance



- Version Control Repository Manager
 - Catalogs components downloaded from HP website
 - Allows creation of custom system software baselines
- Version Control Agent
 - Catalogs software on the end node
 - Displays software status
- VCRM and VCA work together to create software status and update BIOS, drivers, and agents



Vulnerability and Patch Management integrated into HP SIM

- Technology preview incorporating Radia technology for patch management of servers
- Leverages Radia's unique desired state approach



HP WORLD 2004

Solutions and Technology Conference & Expo

Co-produced by:



RECOMMENDED TRAINING VENUE FOR THE
HP Certified Professional

