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Abstract

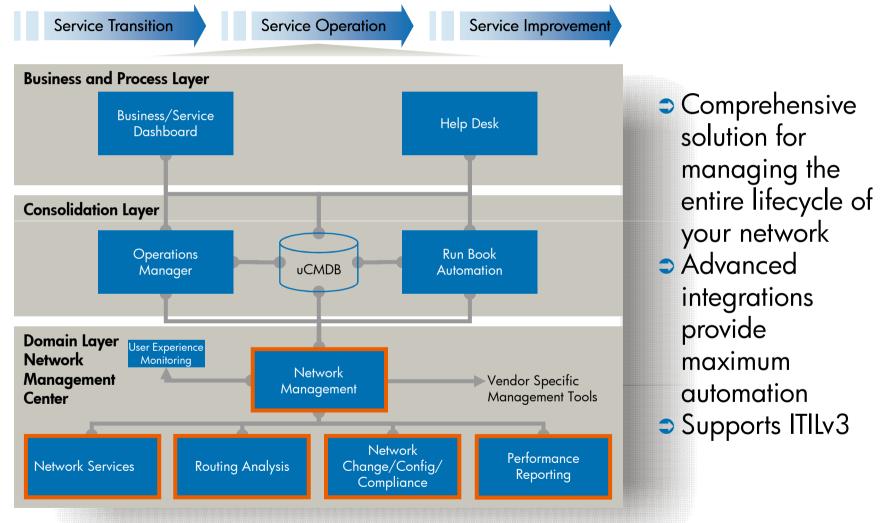
Reducing costs and increasing efficiency are key initiatives for managing today's complex networks.

The traditional approach for deploying point tools to address network management is inefficient, as are the manual processes which are prone to human error.

This session will show how the HP Software Automated Network Lifecycle Management solution can address these network management challenges.

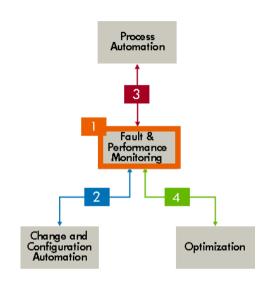


HP Automated Network Lifecycle Management





Unified fault and performance management (HP NNM i-series)





Solution Overview

Key Challenges

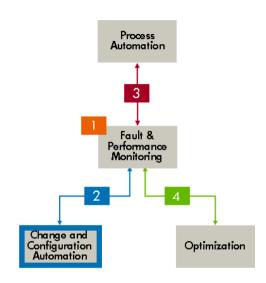
- Large, distributed and dynamic networks expensive to map and maintain
- Rapid adoption of new technologies
- Event storms and lack of biz impact visibility

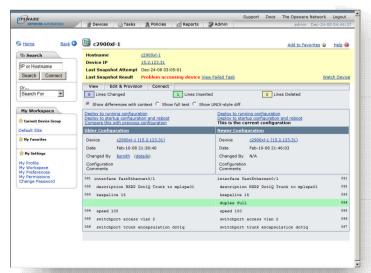
Key Capabilities

- Continuous network discovery
- Unified fault and performance management
- Automated root cause analysis
- iSPIs: Perf. ,IPT, Multicast, MPLS, NET

- Integrations: NLM, BSM and ITSM
- Automated root cause analysis for dynamic networks
- Brand new state-of-the-art architecture

Change and configuration automation (HP Network Automation)





Solution Overview

Key Challenges

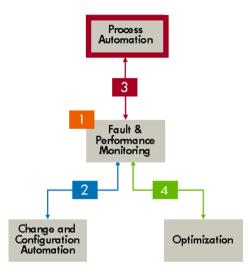
- Explosive growth of network and complexity
- Compliance and security burden
- Eliminating time-consuming and error-prone manual tasks

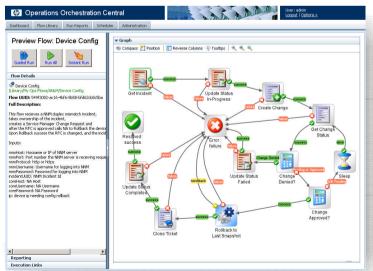
Key Capabilities

- Automated change and configuration management for heterogeneous networks
- Policy-driven compliance and security mgmt
- Reduced costs and increased reliability

- Pre-integrated with NNM for provisioning/incident resolution
- Broadest network device support
- Unique Cisco/Nortel endorsement & deep integration to largest NEPs
- Multi-master for HA and scalability

Process Automation (HP Operations Orchestration)





Solution Overview

Key Challenges

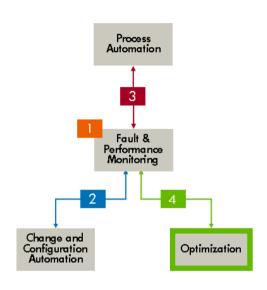
- Inability to enforce best practices/ITIL
- Errors and delays due to inconsistent handoffs between systems, tools, and groups
- Increasing alert volumes with slowing time to discovery and incident resolution

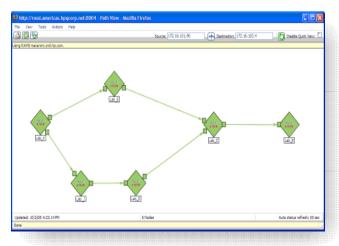
Key Capabilities

- Intuitive friendly UI for flow design
- Automation of key processes, such as incident resolution and change orchestration
- Informative guided workflows

- NNM embedded (NNM iSPI NET) for automated diagnosis and troubleshooting
- Broadest out of the box content including over 2000 pre-built flows
- User friendly GUI for workflow development
- Powerful dashboard and reporting

Optimisation (HP Route Analytics Management Software)





Solution Overview

Key Challenges

- Lack of visibility to routing and traffic
- Transient routing problems are extremely difficult to diagnose
- Network routing changes are high risk

Key Capabilities

- Automated discovery and monitoring
- Topology and event capture for forensics
- Simulation and modeling for routing changes

- Unique management approach RAMS speaks the language of routing
- Real-time routing service monitoring
- Network wide traffic analysis requires very few collection points

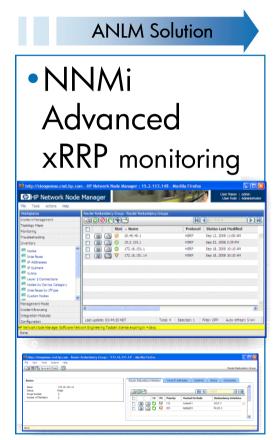
Router Redundancy Protocol Problems

Problems

- HSRP Failover has occurred
- No Standby HSRP router
- No Active HSRP router
- Two Active HSRP routers

Business Impact

•Loss of HSRP service or Loss of HSRP redundancy will place business critical network applications at risk



NNMi advanced automatically polls HSRP and VRRP group routers for redundancy service health



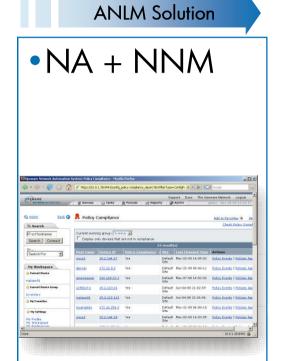
Device configurations do not adhere to established policies

Problems

Network
 Engineer creates
 a configuration
 that does not
 conform to
 corporate
 security
 standard.

Business Impact

Creates a security risk for the business



NA automatically detects and reports configurations that are out of compliance. NA automates the process of remedying out of compliance configurations

Routes Flapping

Problems

Routes are flapping frequently

Poor application performance across wide areas of the network lost user productivity

Business Impact

ANLM Solution •NNMi + RAMS

RAMS detects common routing conditions such as route flapping



Congested Links

Problems

High network
 utilization is
 congesting your
 network

Business Impact

Business

 applications
 performance
 and user
 productivity
 impacted
 during peak
 traffic periods

ANLM Solution

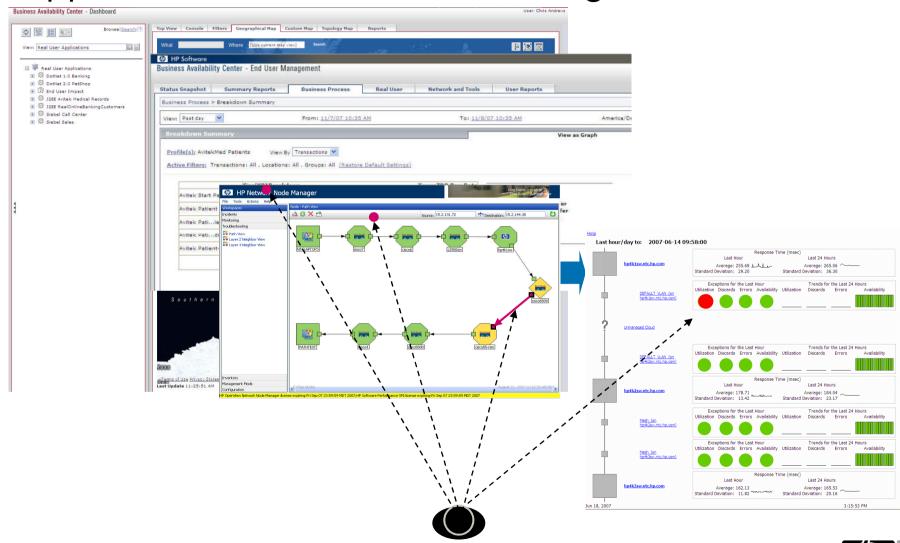
NNMi +iSPI forPerformance



NNMi + iSPI for Performance detects high link utilization and sends a utilization incident and sets status on the map to operators.



Application Aware Network Management





HP AUTOMATED NETWORK LIFECYCLE MANAGEMENT

Unified automation across entire network operations

Maximum service availability and performance

Global compliance visibility and enforcement

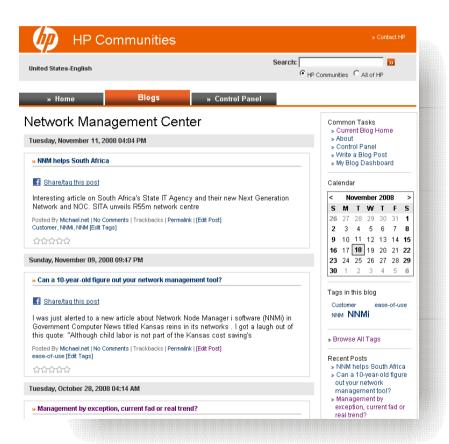


The only solution for end to end network management



For More Information about HP Automated Network Lifecycle Management

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 Management Center blog for discussion topics and the latest news from the Network Management Center:
 - www.hp.com/go/NNMblog
- Also, visit the ANLM website to download whitepapers and obtain additional information on ANLM:
 - www.hp.com/go/ANLM





Technology for better business outcomes

