



HP Network Management Center

Brochure

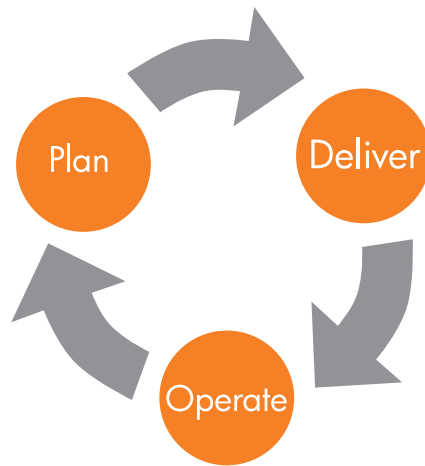
Enhance network availability and performance, optimize resource utilization, deliver compliant and more secure networks, and meet service level agreements (SLAs).

HP Software Network Management Center provides IT organizations with network management solutions that unify fault, performance, change, and configuration, while automating the technology process workflow across these capabilities. This integrated approach called automated network lifecycle management (ANLM) spans the planning, delivery, and operations phases of network lifecycle management. ANLM enables companies to reduce the cost of meeting SLAs, enhance network availability, and achieve compliant and hardened networks.

Meet your network management challenges

As the Internet era has evolved, IP networks have become essential enablers of business. For example, today's networks support unified communications, including email, IP telephony, and media services that support revenue-generating transactions. Because of this strategic reliance on networks, companies cannot afford unplanned network downtime. This strategic reliance logically leads to business requirements driving the operational objectives for network engineering and operations teams, including:

- Increasing revenue—enhancing network availability and performance
- Reducing expense—optimizing resource utilization (people and infrastructure)
- Reducing liability and risk—delivering compliant and secure networks



Plan networks to meet business requirements

Deliver networks to support business applications and services

Operate to meet service level agreements and financial goals

- Proving accountability—meeting and reporting on service level agreements
- Managing change effectively and efficiently without disruption

However, network engineering and operations teams face significant challenges in their pursuit of these objectives. First of all, they are tasked with managing a moving target. Today's networks are large, complex, and constantly changing. For example, networking technology now includes virtualization technologies, such as virtual LANS and router redundancy protocols. Furthermore, new network services are running over today's IP networks, such as IP multicast, MPLS, and IP telephony. And, through mergers and acquisitions, a company's network can change substantially—overnight. All of this must be managed, and just keeping up with the new technology and controlling incident, and fault management and fluctuating network size can consume network engineering and operations time and resources.

Also creating challenges for network engineering and operations teams are incomplete and/or ineffective management solutions. For example, many companies still rely on manual processes to accomplish various network engineering and operations tasks (for example, network change and configuration, fault isolation, or root cause analysis). Furthermore, companies may have cumbersome management frameworks consisting of a conglomeration of disparate point tools. This can contribute to contention between groups. Incomplete and ineffective management frameworks consume technology staff time that must be allocated to plug the holes and fill the gaps in suboptimal systems.

What's needed is a comprehensive network management solution consisting of an integrated set of tools that span the network lifecycle.

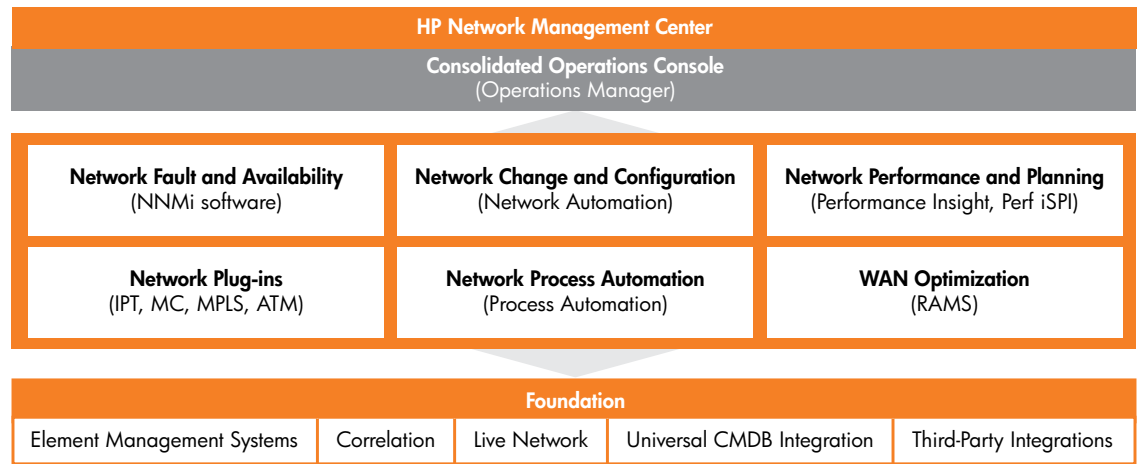
Automated network lifecycle management is more than a strategy—it's a solution to the problems of today's network management organizations.

HP Network Management Center

To address the objectives of enhancing network availability and performance, optimizing resource utilization, delivering compliant and secure networks, and meeting service level agreements, HP provides a complete ANLM solution. ANLM is focused on automating technology workflow processes across the lifecycle of planning, delivery, and operations. This is based on an ITIL model and integrates with HP service management solutions. Through this combination of capabilities, ANLM helps network engineering and operations teams overcome their challenges and meet their operational objectives.

Typical use cases for ANLM include rolling out an IP telephony infrastructure, working through a data center consolidation project, managing network traffic at the edge, or just managing the day-to-day churn of a network's lifecycle. HP provides capabilities to plan for changes, including:

- Network design, simulation, and modeling capabilities
- The ability to deliver designs such as configuring the network change and configuration management
- Root cause analysis
- The ability to operate physical and virtual networks to make sure that a desired state is maintained, including service and business-impact operational views and run-book automation



Plan networks to meet business requirements

Planning is the first phase of Automated Network Lifecycle Management. The high-level goal of the planning phase is to design an end-state for the network that will support all of the required business services at optimal levels of availability and performance. Effective planning reduces business risk and expense while maximizing project success.

HP provides several automated capabilities to enable efficient and accurate network planning. These capabilities include:

- Network configuration standards and policies library
- Network change simulation and modeling engine, including traffic analysis
- Network capacity planning, trending, and forecasting
- Integrated route analytics modeling

Deliver networks to support business services and applications

The second phase, delivery, is about delivering or building the network once the designs are complete. Depending on the project, the delivery phase may consist of numerous tasks. For example, delivering quality-of-service settings to support VoIP to every device and interface across a network may involve thousands of tasks. Thus, automation is a necessity in the delivery phase to maintain cost efficiency and accuracy.

Again, HP provides several automated capabilities to enable successful and efficient delivery of network designs. These capabilities include:

- Automated network change and configuration management for physical and virtual networks
- Real-time validation of changes through WAN optimization and run-book automation

Operate networks to meet SLAs and financial goals

The operations phase is the final phase in ANLM. The main goal of the operations phase is to make sure that the desired state of the network—along with the services and applications that it supports—is continuously maintained. With today's technology systems, this can be a multi-dimensional problem. For example, it's entirely possible that a set of routers are up and running—but improperly routing traffic. Thus, it's not enough to manage availability and performance of those routers; insight into the routing service is required as well. Furthermore, to ensure efficiency and success across technology, it's imperative to connect technology systems (the network) to the applications, services, and business processes that they support. It's possible for multiple things to go wrong at the same time, so by understanding business and technology dependencies, technology can utilize their resources in alignment with business priorities. Finally, providing the desired state means combining a proactive fault-prevention approach with traditional monitoring approaches to network management.

HP offers a complete set of capabilities to make sure that the desired state of the network is maintained. These capabilities include:

- Consolidated operations management, including run-book automation
- Extensible and intelligent network fault and availability management with real-time dynamic root cause analysis that can adapt to a changing network
- Continuous assurance of network configuration standards and policies, including a subscription-based daily vulnerability notification service
- Network performance management and capacity planning
- Real-time layer-3 WAN optimization management

Center components

The HP Network Management Center is an integrated solution designed to support ANLM. At the pinnacle of this solution is the Consolidated Operations Console that provides service-oriented event consolidation and cross-domain management.

The core of the Network Management Center is comprised of products that provide coverage across the network lifecycle (planning, delivery, and operations). The solution is integrated to provide maximum operator efficiency and effectiveness. Lastly, the products can be extended through add-on modules called Smart Plug-ins for managing advanced services such as IP telephony, MPLS, and IP multicast.

The foundation components of the Network Management Center allow for integrations with element management systems, third-party applications, and the HP Universal CMDB—all of which extend the value and reach of this center.

The products that make up the HP Network Management Center include:

- HP Network Node Manager i software
- HP Network Node Manager Smart Plug-ins
- HP Performance Insight
- HP Network Automation Software
- HP Route Analytics Management System

Why HP?

Proven successes: HP has proven successes in network services management as one of the largest installed bases in the industry. Companies around the world trust HP for network service management.

Lifecycle management: HP is the only vendor providing a complete network lifecycle management solution including run-book automation and automated network configuration management.

Technology leadership: HP Network Node Manager i software provides the only automated root cause analysis engine in the industry that is able to dynamically adapt to network topology changes.

An integrated solution: The HP Network Management Center is an integrated solution designed to support consolidated operations and business service management.

Partnership: HP has a large partner community that extends the value and reach of our network management solutions.



Get connected

www.hp.com/go/getconnected

Get the insider view on tech trends, alerts and HP solutions for better business outcomes

Technology for better business outcomes

To learn more, visit www.hp.com/go/nmc

© Copyright 2007, 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

4AA1-6185ENW Rev. 1, October 2009

