



HP Network Automation software

Data sheet



HP Network Automation software tracks, regulates, and automates configuration and software changes across globally distributed, multi-vendor networks

The power of network automation

Today global 2000 companies, government agencies, and service providers use automation to keep network management costs contained while providing the quality and responsiveness that their businesses demand. HP Network Automation software goes beyond multi-vendor network configuration management to help you prevent errors before they occur and deliver measurable cost savings using process-driven network automation.

The end result is a resilient, maintainable, and cost-effective network that is compliant with both company standards and government regulations.

Network lifecycle automation

HP Network Automation automates the complete operational lifecycle of network devices from provisioning to policy-based change management, compliance, and security administration.

HP Network Automation 7 introduces process-powered automation. When combined with HP Operations Orchestration software, HP Network Automation takes workflow automation to a new level, letting you automate IT workflows beyond traditional network change and configuration management.

When combined with HP Network Node Manager (NNM), the full network management lifecycle is addressed. For integrated network lifecycle management in more environments, NNM, Smarts and Remedy integrations are now bundled with HP Network Automation.

Process-powered automation particularly helps environments with large networks and high costs associated with manual integrations among disparate management systems. It provides a graphical integration workspace, which lets you easily define complex and manually intensive workflows. This empowers network operating centers to achieve greater results with easily deployed workflow automation without the need for scripting.

Automation is of little value if your devices are not supported. That is why HP Network Automation supports an exhaustive set of network devices, giving you comprehensive network change and configuration management coverage for an extensive range of devices.

For customers with Cisco devices, HP Network Automation offers unique capabilities for unmatched change, configuration, and compliance management of those devices.

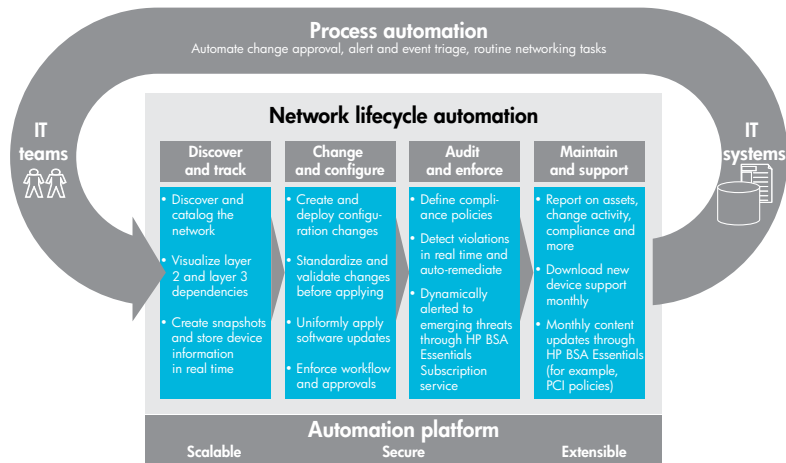
Enforce policies, standardize operations, and meet compliance

Bringing networks into compliance with corporate or regulatory standards is a non-trivial, labor-intensive, and ultimately difficult task. HP Network Automation helps you meet compliance standards through a network compliance model that maps device information, including configurations and run-time diagnostics, as well as policies and user roles, into a normalized structure to prevent compliance violations before they occur.

Built-in best practices immediately measure network compliance against industry-accepted best practices. HP Network Automation incorporates policies such as the National Security Agency (NSA) router configuration guidelines.

Network lifecycle automation

HP Network Automation automates network change control and compliance processes across the network lifecycle



Network run-time compliance enforcement helps you continually meet network compliance requirements. HP Network Automation extends policy-based compliance to include the run-time state of your network to proactively detect problems. It tests and manages releases so devices adhere to policies. Run-time enforcement also validates the run-time state of devices, which can vary from information captured by monitoring systems.

Out-of-the-box reports for Information Technology Infrastructure Library (ITIL), the Sarbanes-Oxley Act (SOX), the Health Insurance Portability and Accountability Act (HIPAA), the Payment Card Industry (PCI) standard, and other regulations offer immediate insight into network compliance. These reports provide the metrics that each of these regulations or processes requires, increasing visibility and saving auditors and network engineers time.

You can validate new changes against policies automatically to proactively avoid misconfigurations and non-compliant changes. If changes do not comply, HP Network Automation alerts you to make appropriate corrections before applying them to a device.

HP Network Automation can manage dual-stack and pure Internet Protocol version 6 (IPv6) environments. It meets security requirements for managing Simple Network Management Protocol version 3 (SNMPv3) configurations and can communicate over SNMPv3. Next-generation Cisco IOS XR devices are also supported, protecting your strategic investments in Cisco network infrastructure.

Increase network visibility and decrease mean time to repair

HP Network Automation provides visibility and control over globally-distributed, multi-vendor networks. This helps you to dramatically reduce manual misconfigurations that cause the majority of security breaches and network downtime.

HP Network Automation gathers detailed information about network devices and records configuration changes for managed devices. Notifications of changes give you immediate visibility into planned, unplanned, and unauthorized changes.

Generate detailed Visio diagrams of your network automatically, greatly improving network troubleshooting. This view into network dependencies provides valuable insight for troubleshooting and understanding layer 2 and layer 3 relationships. The combination of layer 2 and 3 diagramming provides you with insight that cannot be matched with one view.

Prevent network downtime and increase stability

Studies show that peer reviews reduce the number of defects in a network by almost four times. HP Network Automation automates peer reviews, ticketing, and approval processes to reduce the time between approving a configuration change and implementing it on your network.

You can approve changes through a flexible, integrated approval model that integrates with third-party ticketing systems. With a single click, configuration code is pushed to your network during scheduled maintenance. Approvers of a change can review the change in the context of your device configuration and of the business units that the change affects.

HP Network Automation delivers powerful access control list (ACL) automation and management capabilities. You can quickly react to emerging threats and vulnerabilities. ACL templates are provided to reduce complexity and provide consistency.

The Security and Compliance service from HP BSA (Business Service Automation) Essentials is a security alert service that delivers triaged, network security vulnerability data as actionable compliance policies in HP Network Automation. You can immediately identify all vulnerable devices across your network. Alerts include instructions and patches for rapid remediation.

Supported device vendors

3Com
Adtran
Airspace
Alcatel•Lucent
APC
Arris
Aruba
Avaya
BelAir
Blue Coat
Cabletron
Carrier Access
Check Point
Ciena
Cisco
Citrix
Colubris
Crossbeam
CyberGuard
Cyclades
Dell
Edgemarc
Enterasys
Expand
Extreme Networks
F5 Networks
Foundry Networks
Force10 Networks
Fore Systems
Fortinet
Foundry
Funkwerk
HP
Huawei
Intel
Juniper Networks
Lucent
Marconi
Motorola
NEC Netopia
NetScreen
Network Appliance
Nokia Check Point
Nortel
Packeteer
Paradyne
Powerware
Procket Networks
Secure Computing
Sonus
Symbol
Terayon
UNIX®, Linux, Generic
Yamaha
ZyXEL

The HP Network Automation Horizontal Scalability architecture augments the unique Multi-Master architecture, providing additional options for scaling up deployments. For customers that do not require all the functionality and capabilities of Multi-Master, the Horizontal Scalability feature offers you added flexibility in how you can grow capacity while controlling software and hardware costs.

Enable disaster recovery and remote management

HP Network Automation stores device software images and configurations. It can grow as your network increases in size and complexity. It offers automated network management for geographically dispersed networks. If you need to replace a device, deploy the original software image and configuration to bring the device back into operation easily, quickly, and efficiently.

The Multi-Master and Satellite features offer real-time visibility and control for your enterprise network, including support for remote locations around the world. Multi-Master provides failover support for your network, automatically replicating information to multiple locations, allowing the new locations to use information immediately. It also lets network teams use best practices and knowledge across multiple locations and provides operational consistency across your enterprise. Satellite lets you manage your remote network devices from a central location, supporting overlapping ranges and/or WANlinks.

Key features and benefits

- Reduce costs by automating time-consuming manual compliance checks and configuration tasks.
- Pass audit and compliance requirements easily with proactive policy enforcement and out-of-the-box audit, and compliance reports (ITIL, CISP, HIPAA, SOX, GLBA, and others).
- Improve network security by recognizing and fixing security vulnerabilities before they affect the network, using an integrated security alert service.
- Increase network stability and uptime by preventing the inconsistencies and misconfigurations that are at the root of most problems.
- Use process-powered automation to deliver application integrations, which deliver full IT lifecycle workflow automation, without scripting.
- Support SNMPv3 and IPv6, including dual-stack IPv4 and IPv6 support. HP Network Automation supports both of these technologies to provide flexibility in your protocol strategy and implementation.
- Use automated software image management to deploy wide-scale image updates quickly with audit and roll-back capabilities.

A complete solution

Comprehensive training

HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments

With more than 30 years of experience in meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP Software products, positions HP to deliver an outstanding training experience. For more information about these and other educational courses, visit www.hp.com/learn

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Contact information

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HP Services

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To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit www.hp.com/go/swcustomerconnection

HP Network Automation capabilities

Feature	Description
Network lifecycle management	Taking a holistic approach to managing the network lifecycle, HP Network Automation combined with HP NNM and HP Operations Orchestration software delivers a complete management and automation solution, which spans traditional IT silos. This approach provides unparalleled potential to enhance the overall impact of automating your network operations.
Process-powered automation	Using integrated, single-source software, automate IT workflows for otherwise-manual processes, accomplished primarily through complex scripting.
Real-time configuration and asset tracking	In real time, detect configuration and asset information changes made across a multi-vendor device network, regardless of how each change is made.
Compliance control	Perform rapid troubleshooting and manage network compliance by comparing devices to defined, best-practice standards. Control non-compliance with automatic remediation of devices that violate standards. Speed internal and external audit processes with out-of-the-box network compliance reports for ITIL, SOX, HIPAA, PCI DSS, and more. Validate device operating states in real time to stay in compliance.
Diagramming and visualization, including layer 2 and 3 modeling	Generate a graphical representation of your network. Identify which devices are inactive or out of compliance. Use filters to immediately view isolated specific network segments. Capture a snapshot of the current state of the network, including topology and virtual LAN (VLAN) information. Identify the hosts connected to specific switches or interfaces by MAC address.
SNMPv3 and IPv6 management	Manage dual-stack and pure IPv6 environments. Manage SNMPv3 configurations and communicate over SNMPv3.
Automated software image management	Update Cisco images and feature sets quickly, reliably, and easily.
Real-time audit trail	In real time, store a complete audit trail of configuration changes, (hardware and software) made to network devices, including critical change information.
Role-based access control	Configure granular, customizable user roles to control permissions on device views, device actions, and system actions. Support common authentication systems, such as Terminal Access Controller Access-Control System Plus (TACACS+), Radius, SecurID, Active Directory, and Lightweight Directory Access Protocol (LDAP).
Network lockdown	Manage device access and authorization through a centralized control model that is integrated with your standard workflow and approval processes.
Template-based device provisioning	Automate routine configuration tasks for updates, such as password or community string changes. Reduce the time needed to build automation scripts and increase accuracy with auto-generated scripts derived from device sessions.
Device operating system management	Deploy and monitor operating system images from a centralized network management system. Control the deployment of images for specific requirements to prevent mistakes before they happen.
Automated software synchronization and image management	Create a repository, and synchronize all device software images across your enterprise network. Use image management to automatically identify, download, and install the recommended software image for your network devices.
Automation engine	Create complex automation flows, integrating internal and third-party systems. Leverage more than 200 system triggers to drive automation.
Workflow and approvals	Enforce change processes in real time. Model complex approval processes with flexible rules. Force approvals for changes, including changes made by a direct command line interface (CLI) session. Combine multiple tasks into a project workflow to determine whether the system should proceed to the next step.
Multi-Master and Satellite	Implement high-availability and disaster-recovery solutions with Multi-Master and Satellite deployments. Administrators can effectively manage geographically dispersed networks without a single point of failure.
Horizontal Scalability	Horizontal Scalability feature offers you added flexibility in how you can grow capacity while controlling software and hardware costs.
HP Server Automation software integration	Understand which servers are affected by changes to specific network devices. HP Server Automation and HP Network Automation integration provides a comprehensive view and automation of your entire IT infrastructure.

Technology for better business outcomes

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