

SOLUTION BRIEF

KEY BENEFITS

Faster Design

- Collaborate with multiple teams securely thanks to complete role-based security
- Employ automation to quickly create error-free large-scale designs

Safer Changes

- Use “golden configs” to create templates for new device deployments
- Complete routine and complex tasks with ITIL-compliant change processes and workflow approvals

Robust Compliance

- Enforce policies over the entire domain—or just one network, site, or subnet
- Demonstrate on-demand compliance and its change/control process

Network Configuration Management Designed for Secure and Reliable Networks

Challenge

Maintaining proper network configuration is critical for guaranteeing network stability, security, and performance. However, as networks grow in size and complexity, the challenges associated with managing configurations intensify, often hindering agility and increasing risks. Key areas of concern include:

- **Operational Complexity:** Implementing configuration updates, patches, or policy changes across a large number of devices is an extremely lengthy process. The scale amplifies the risk of configuration drift, making it difficult to maintain a standardized practice.
- **Manual Intervention:** Manual configuration changes are prone to errors, leading to misconfigurations, inconsistencies, and potential network disruptions. Inexperience or oversight can introduce vulnerabilities and compliance violations.
- **Continuous Compliance:** Regularly verifying configurations against industry standards or internal policies is critical for security and compliance. Manual audits are labor-intensive and don't offer real-time visibility, leaving networks vulnerable to configuration drift and non-compliance.

Network operations teams need automated solutions that streamline configuration tasks, minimize human error, ensure continuous compliance, and provide comprehensive visibility across the entire network infrastructure, allowing them to focus on strategic initiatives rather than reactive firefighting.

Solution

Network Observability by Broadcom integrates network configuration management capabilities that allow scheduled automated bulk configuration changes, enforce controlled change processes, and ensure continuous compliance. By providing unprecedented visibility and control over network devices and service configurations, the solution enhances security, availability, and overall operational efficiency.

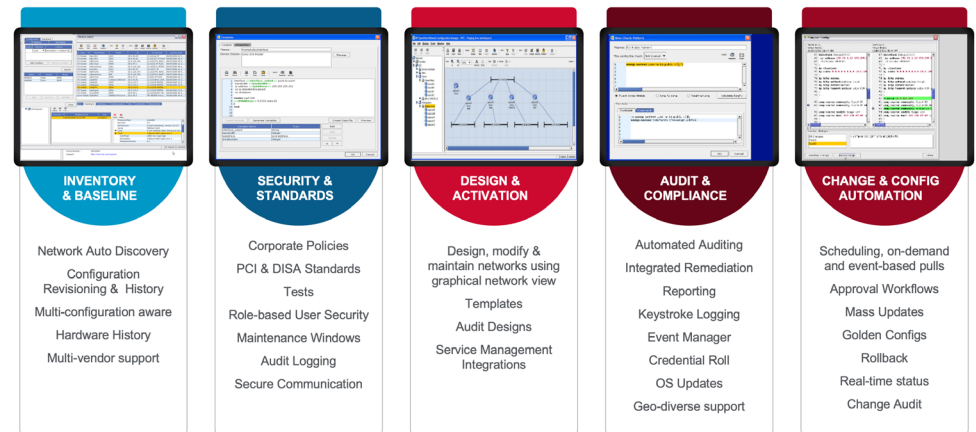
Designed for simplified management of even the most complex network environments, the solution features a multi-tiered, scalable architecture that supports automation, change control, and compliance processes. Broadcom uses a vendor-neutral approach to managing and modeling network devices, combined with the ability to handle vendor-specific configurations. The solution streamlines management across diverse technology landscapes, enabling a single point of control for both traditional and modern systems.

In essence, Broadcom provides comprehensive network configuration management empowering network operations teams to proactively manage their environments, reduce operational expenses, improve compliance, and mitigate risks. This enhanced level of control and visibility translates directly into a more agile, secure, and resilient network

KEY CAPABILITIES

- Multi-tiered architecture provides extreme scalability and flexibility
- Up to 50k devices supported per application server
- Auto-discover, baseline, design, validate, update, audit and manage device configurations
- Abstract device configurations in a vendor-neutral manner at the class and policy levels
- Audit designs—before deployment—for compliance with policies and standards
- Define compliance rules that work across multiple hardware vendors' devices
- Queries multiple devices at once for software and firmware compliance
- Perform bulk configuration changes and push software patches to multiple devices
- Modifies access control lists on thousands of network devices simultaneously
- Manage both IPv6 and IPv4 devices
- Integrates with popular workflow, trouble ticketing, and help-desk solutions

infrastructure. By effectively addressing the challenges of network complexity, Network Observability by Broadcom transforms configuration management into a proactive enabler of improved network stability and performance, facilitating quicker adaptation to evolving business needs.



Delivering Rapid Return on Investment

Network Observability by Broadcom accelerates return on investment by automating and streamlining critical network management tasks. It simplifies compliance, change, and configuration management across planned initiatives, reactive fixes, new project deployments, and ongoing network consistency. This powerful combination of automation and model-based management directly translates to increased efficiency, improved network availability, streamlined service activation, enhanced security, and guaranteed compliance.

Automation

- Perform commonly executed network management tasks in a fraction of the time.
- Meet the ideal frequency of credential, network access control list (ACL), and updates for your entire network—while spending less than you do today.

Efficiency

- Allow your network operations staff to support significantly more devices—without increasing headcount.
- Reduce costly travel, lengthy site visits, and pre-staging of devices through automated configuration provisioning.

Security

- Avoid service-affecting network outages and security leaks by strictly controlling change.
- Deploy security-related updates for selected network devices in minutes per network, instead of minutes per device.