



# BMC Network Automation

BMC Network Automation is the industry-leading solution for automated management, control, and enforcement of network configuration changes in the data center. As part of the BMC BladeLogic Automation Suite, it provides a cross-platform solution for managing both physical and virtual assets — in the traditional data center and in the cloud.

## Key Benefits

- » Reduce operational costs by automating manual and error-prone activities
- » Reduce service downtime through policy-based configuration management
- » Streamline service provisioning by consolidating and centralizing provisioning activities across all platforms
- » Manage physical and virtual network resources in traditional and cloud environments from a single platform
- » Improve operational productivity by increasing network device-to-admin ratio and securely sharing workload
- » Consistently enforce compliance with regulatory, security, and operational compliance policies
- » Improve security by reducing the time to remediate known vulnerabilities
- » Manage change activity by reporting on the “who, what, when, and where” of change — regardless of where it is initiated
- » Automate audit cycles with built-in compliance reports
- » Assess the impact of change on critical business services

## Business Challenge

IT faces numerous challenges, such as growing complexity, cost-reduction mandates, compliance regulations, and pressure to be more responsive to business needs. Many organizations struggle to meet these challenges, and recognize that current approaches are simply not going to work. Manual operations tend to be reactive, labor-intensive, error-prone, and heavily reliant on skilled individuals. Even organizations that have invested in point solutions or homegrown, script-based approaches are recognizing their limits, and are looking for a comprehensive automation solution built on a single, unified platform.

## The BMC Solution

BMC Network Automation enables IT to implement a policy-based automation solution for managing the data center, while also ensuring highest uptime for critical business services. It provides a single platform for managing physical and virtual network devices — across all major platforms. Supported by a robust security model, it dramatically reduces operational costs, improves operational quality, and enables operational compliance by addressing three main areas: Configuration, Provisioning, and Compliance.

## Configuration

Configuration management tasks often make up the bulk of data center activities, including patching, configuring, updating, and reporting on network devices. By shielding users from underlying complexity, BMC Network Automation enables consistency in change and configuration management activities. At the same time, subject to security constraints, it exposes sufficient detail about network devices under management to ensure effective and accurate administrative activities.

### Features

- » Real-time and historical visibility into configuration and change attributes
- » Pre-built templates and jobs that simplify configuration definition and accelerate network changes
- » SmartMerge Technology that automatically creates scripts

## Provisioning

With support for all leading operating systems and virtualization platforms, BMC Network Automation simplifies and expedites the configuration of network devices in multi-tiered networks, including VLANs and associated services for fire-walling, load-balancing, and WAN acceleration. It also enables IT to change network device configurations easily and deploy Access Control List (ACL) changes that support adds, moves, and changes of other service resources, such as servers, without service disruptions.

### Features

- » SmartMerge Technology that deploys changes without rebooting network devices
- » Smart ACL Management that deploys access control lists (ACLs) to network devices without exposing the network to potential security vulnerabilities
- » Smart Syntax Scanning that automatically verifies command syntax with device before execution

## Pre-built Rules

- » Center for Internet Security (CIS)
- » Defense Information Systems Agency (DISA)
- » Health Insurance Portability and Accountability Act (HIPAA)
- » Payment Card Industry (PCI)
- » Sarbanes-Oxley (SOX) Act

## BUSINESS RUNS ON I.T. I.T. RUNS ON BMC SOFTWARE.

Business runs better when IT runs at its best. That's why more than 25,000 IT organizations – from the Global 100 to the smallest businesses – in over 120 countries rely on BMC Software to manage their business services and applications across distributed, mainframe, virtual and cloud environments. With the leading Business Service Management platform, Cloud Management, and the industry's broadest choice of IT management solutions, BMC helps customers cut costs, reduce risk and achieve business objectives. For the four fiscal quarters ended December 31, 2011, BMC revenue was approximately \$2.2 billion.

## Compliance

Most IT organizations are required to maintain network device configurations in compliance with policy, whether regulatory (SOX, PCI, or HIPAA), security (NIST, DISA, or CIS), or operational. BMC Network Automation helps IT achieve and maintain compliance by defining and applying configuration policies. When a network configuration deviates from policy, the solution generates remediation instructions and creates jobs to automatically or manually change the network device to the trusted configuration.

### Features

- » Automated auditing and drift detection with automatic remediation and rollback
- » Pre-configured compliance policies for regulatory and security standards
- » Operating system patch and upgrade management

## Virtualization and Cloud Computing

BMC's industry-leading automation platform seamlessly enables enterprise-class provisioning and configuration across physical, virtual, and cloud environments. It provides the core automation and compliance functionality for the BMC Cloud Lifecycle Management platform, including provisioning full-stack, multi-tier cloud services, security and patch compliance, and configuration automation.

### Features

- » Provision, configure, and manage heterogeneous cloud services in a single platform
- » Deploy networks for full-stack, multi-tier applications in virtual and cloud environments
- » Securely incorporate virtual and cloud services into enterprise and multi-tenant networks

## Reporting

Through add-on functionality provided by BMC BladeLogic Decision Support for Network Automation, BMC helps you understand how IT change impacts data center operations, performance, and quality — and how these changes affect underlying business services. You gain immediate insight into wide-scale change occurring across network infrastructure, coupled with the ability to drill-down to a granular level, helping you make informed business decisions and reducing the negative impact of failed changes.

### Features

- » Out-of-the-box, ad-hoc, and consolidated reports for compliance, inventory, provisioning, patch, and deployment
- » Complex reporting capabilities, such as pivot tables, trending, and data correlation
- » Role-based access control

## Key Integrations

BMC Network Automation integrates with the BMC Atrium CMDB and the BMC Remedy IT Service Management (ITSM) Suite. Bi-directional integration with the BMC Atrium CMDB is built-in, allowing administrators to make service-aware operational decisions, thus improving effectiveness. BMC Atrium Orchestrator, part of the BMC BladeLogic Automation Suite, provides integration with the BMC Remedy ITSM Suite to enable closed-loop compliance by linking change management with change execution.

## Alignment with Best Practices

BMC Network Automation integrates and automates change, release, and configuration management processes across the entire change lifecycle, eliminating time-consuming and error-prone manual handoffs across groups. In addition, it automatically closes the loop on all changes, keeping change management staff apprised of the status of changes and indicating the success or failure of change implementations.

## For More Information

To learn more on BMC Network Automation, please visit [www.bmc.com](http://www.bmc.com).