



Highlights

- Automate time-consuming device configuration and change management tasks
 - Effectively manage the compliance life cycle with an ongoing, closed-loop process
 - Automatically manage operating system upgrades for hundreds of thousands of devices
 - Gain greater visibility into network resources in dynamic and complex environments
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IBM Tivoli Netcool Configuration Manager

Improve organizational management and control of multivendor networks

Networks are the lifeline of today's business. Organizations have no room for error when it comes to the availability, reliability, performance and security of their networks. But the rapidly evolving complexity of networks is costing them money. Errors caused by manual configuration changes contribute significantly to network outages. Time-consuming manual tasks account for huge portions of a network engineer's workload, and incorrect configuration of IT devices is a frequent cause of network security breaches.

To keep networks performing at peak levels, organizations need a network configuration management solution that provides the intelligent automation, standardization and scalable device management capabilities companies require in order to manage and configure complex multivendor networks—all in a policy-compliant manner.

IBM Tivoli® Netcool® Configuration Manager enables network-driven organizations to effectively and efficiently control, manage and scale their networks, and enhance network security by controlling access by users, devices and commands.

With Tivoli Netcool Configuration Manager, organizations can automate routine configuration management tasks such as device discovery, backup and restore, and software upgrades. Utilizing data-driven templates to automate tasks helps improve network integrity by enforcing configuration policies for regulatory mandates, security directives and engineering standards.



What's more, Tivoli Netcool Configuration Manager integrates data and capabilities from other tools to deliver more value from the Tivoli management portfolio. To the capabilities provided by other Tivoli solutions—including IBM Tivoli Netcool/OMNIBus, IBM Tivoli Network Manager, IBM Tivoli Netcool Performance Manager and IBM Tivoli Application Dependency Discovery Manager—it adds the ability to monitor multiple types of changes and ensure that any change made is functionally correct and complies with policy requirements.

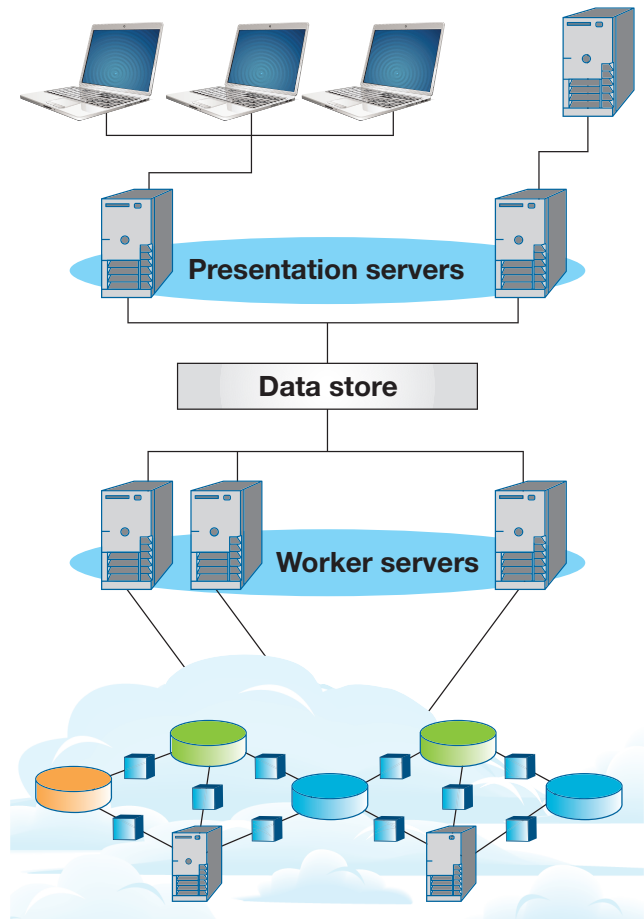
Support, configure, provision and upgrade multivendor devices

Tivoli Netcool Configuration Manager is a powerful solution that enables organizations to manage the change life cycle of multivendor networks, automate critical network configuration and change management tasks, control network device access, and ensure comprehensive network policy compliance.

Acting as a control plane through which multivendor network devices can be configured, provisioned and upgraded in compliance with policies, Tivoli Netcool Configuration Manager provides standardization and scalable device management with support for hundreds of thousands of devices across multiple vendors, device types, models and management protocols.

It dynamically provisions network resources for next-generation services and provides real-time network status information for an “always accurate” view of even the most complex networks, while enabling a secure network management environment. Role-based access control helps ensure that only approved users can access specific devices and perform upgrades.

IBM Tivoli Netcool Configuration Manager Three-tier architecture



Each presentation server in the architecture can serve multiple clients, and each worker server can interact with all or part of the network.

Proactively identify and manage devices across your network

Tivoli Netcool Configuration Manager provides device discovery capabilities that scan the network to identify devices and import device data into a central database. The software detects changes to network devices as they occur and helps ensure that it always stays synchronized with the real-time state of the devices.

The software can handle hundreds of thousands of devices and scale up with increased device and change volume. It provides its own device-support libraries, which are updated regularly. Users can add additional device support in the field as needed.

A flexible, distributed, three-tier architecture of presentation servers, worker servers, and a high-availability data store means that Tivoli Netcool Configuration Manager can scale to meet the needs of large and small enterprises and service providers. Users can configure the system with multiple presentation servers, each independently serving clients—or with multiple worker servers, each independently connecting to network devices. Presentation and worker servers can be geographically distributed for global deployments with stringent redundancy and resiliency requirements.

Leverage deep insight into real-time and historical device configuration

The configuration and change management capabilities of Tivoli Netcool Configuration Manager are specifically designed to support dynamic, complex and heterogeneous network environments, and to automate time-consuming device configuration and change management tasks.

By automating configuration changes with the highest levels of standardization, accuracy and control, the software provides full insight into current and historical device configurations and helps ensure that every change is accurate and valid given the real-time configuration state of a device.

Tivoli Netcool Configuration Manager maintains a full audit trail of current and historical device configurations as well as all transactions executed against these devices. It enables users of different levels of proficiency to validate configurations quickly and make reliable configuration changes in an efficient and repeatable manner.

With Tivoli Netcool Configuration Manager, organizations get a full history of configurations for each device in the network, and can restore a historical configuration without rebooting the device. It's easy to identify differences between configurations on the same or different devices, as well as to search all current and historical configurations for specific parameters.

Execute transactions, set parameters and manage change with simplified views

Change management is simplified with configurable work-type specific change management workflows. The software provides full documentation of work executed, including responses returned by device. Transactions can be executed on an ad-hoc, recurring or scheduled basis, and parameters can be set so that transactions can be defined once and reused multiple times.

The native configuration mode enables administrators to define changes or device information requests in the native configuration language, via reusable native command set templates.

The Tivoli Netcool Configuration Manager Device Terminal enables Telnet or SSH terminal access to devices. There is also session logging of all keystrokes and device responses and automatic backup of device activity after the session is terminated.

The patented SmartModels™ technology enables simplified management of multivendor network devices by translating device information—regardless of the vendor, type, model and operating system—into an XML-based representation so diverse information can be used for configuration as if it were on a single platform.

Approval levels can be set for individual user groups, and work can be reviewed, approved or rejected before execution. Detailed reports are provided for work summaries, approvals, configuration archives and user privileges.

The software utilizes an intuitive user interface that provides the ability to access all device-related data with a single mouse click. It also includes an extensive range of granular APIs that enable rapid integration with third-party applications such as trouble ticketing or service assurance programs.

Improve the compliance of network resources in even the most complex environment

Tivoli Netcool Configuration Manager enables organizations to automate and manage the entire compliance life cycle with capabilities that are based on the use of policies. The software enables an ongoing, closed-loop process that includes defining compliance policies, running validations of the active network configuration, executing automated or user-driven resolution of compliance violations, and providing compliance reports for audit and business purposes.

Specifically designed for the demanding compliance needs of network-driven organizations, Tivoli Netcool Configuration Manager is an ideal solution for helping IT and network staff gain greater control of their network resources in dynamic and complex environments. It effectively manages the inherent network complexity of such environments, providing support for dynamic compliance at multiple levels and helping to balance the competing demands of absolute compliance and business continuity.

Tivoli Netcool Configuration Manager helps in auditing and enforcing a wide variety of regulatory, industry, security and operational compliance requirements—including the Sarbanes-Oxley Act (SOX), European Union Safe Harbor regulations, the Payment Card Industry Data Security Standard (PCI DSS), and the Health Insurance Portability and Accountability Act (HIPAA)—as they pertain to networks. But it also supports a unique range and combination of compliance policies, enables policies to capture a large variety of rules and standards, and fosters reuse of existing policies through parameter management.

Tivoli Netcool Configuration Manager provides support for more than one million validations per hour and supports scheduled, ad-hoc and automatic validation as well as intelligent remediation to resolve compliance violations. It applies corrective actions automatically or through user intervention, and enables corrective action based on the type of violation, the historical compliance status of the device, and other user-defined parameters.

The software supports compliance exemptions and avoids unnecessary alarms. It's audit ready and can generate compliance reports for audit purposes as well as a variety of standard reports for both business and technical audiences.

And with Tivoli Netcool Configuration Manager, users can validate configuration changes for compliance violations before they are sent to a device—to enhance service availability and reduce outages and configuration errors.

Automatically manage upgrades for hundreds of thousands of devices

Tivoli Netcool Configuration Manager provides management capabilities designed to help customers with the laborious and error-prone process of handling upgrades to the operating system running on a network device. The software enables

flexible, reliable and automated management of operating system software in a multivendor network, provides a holistic view of network devices and associated software versions in a unified repository, and can support hundreds of thousands of devices across multiple vendors, types and models.

Tivoli Netcool Configuration Manager performs automated upgrade processes based on available device resources and versions, and enables administrators to specify and customize operating system upgrade processes according to business needs, best practices or internal policies. The software applies device configurations automatically after an upgrade, keeps track of changes to the devices for reporting, and supports multiple upgrade protocols.

With Tivoli Netcool Configuration Manager, organizations can increase network reliability by ensuring that devices have accurate and up-to-date software versions. They can free up valuable network engineering time—and reduce upgrade windows from days to minutes—by automating otherwise time-consuming manual upgrade processes for hundreds of thousands of heterogeneous devices across multiple locations.

Tivoli Netcool Configuration Manager validates operating system images, checking available device memory and storage, and automatically backing up configurations prior to upgrade. The software supports upgrades for hundreds of thousands of devices in a dynamic network environment, including devices from a wide range of vendors such as Cisco, Juniper, Alcatel-Lucent and Huawei.

Realize the multiple benefits of network automation solutions

Tivoli Netcool Configuration Manager provides the automation, visibility and scalability that support configuration and change management across the complete network life cycle. It not only helps to ensure compliance—it enables enterprises to better control, manage and grow their networks.

With Tivoli Netcool Configuration Manager, organizations can automate critical network configuration and change management tasks, control network device access, facilitate comprehensive network policy compliance, enable dynamic provisioning of network resources, and provide a single, trusted view of network resources.

Leverage the Tivoli event and network management family

The Tivoli family of solutions easily ties together its fault and event management capabilities with its extensive network management capabilities. This integration enables a more effective and efficient organization. Solutions in the family include:

- **IBM Tivoli Netcool/OMNIBus:** A manager of managers for event consolidation, prioritization and enrichment designed to improve mean-time-to-recovery
- **IBM Tivoli OMNIBus and Network Manager:** A combination of the best features of IBM Tivoli Netcool/OMNIBus and IBM Tivoli Network Manager at an attractive price point
- **IBM Tivoli Network Manager:** Network discovery, topology visualization and availability monitoring for root-cause analysis
- **IBM Tivoli Netcool Configuration Manager:** Network configuration backup and restore, change, and policy management
- **IBM Tivoli Netcool Performance Manager:** Network performance optimization, trending and capacity planning for incident avoidance

IBM Tivoli Netcool Configuration Manager at a glance

System requirements:

- Oracle 10.2
- JVM 1.6

Supported platforms:

- Red Hat Enterprise Linux® 4.x ES & 5.x ES
 - Oracle Solaris 10 for Sparc
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For more information

To learn more about IBM Tivoli Netcool Configuration Manager, contact your IBM sales representative or IBM Business Partner, or visit

ibm.com/software/tivoli/welcome/netcool



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Please Recycle

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