



Network Security Change Automation

Solution Brief

The Challenges & Risks of Network Security Change Management

Business today demands the agility to respond rapidly to changing customer needs and increased competitive challenges in the marketplace. The accelerating pace of business also requires numerous application and infrastructure changes. And when these changes involve enterprise networks, attention must also be focused on maintaining security.

This reality is exacerbated by the complexity of enterprise networks and the lack of resources to maintain them. Network security changes must be applied to heterogeneous environments consisting of many devices and multi-vendor platforms spanning physical networks as well as virtual environments, including the hybrid cloud. IT operations teams too often are asked to spend valuable time on manual change processes, resulting in delays and backlogs or worse—unreliable and insecure networks. Further complicating matters, there is a critical shortage of skilled network security professionals to meet the demand for these changes.

While automating network security changes can address the resource constraint issue, there is concern that uncontrolled changes may lead to cybersecurity risks as well as errors in change design/management. Changes that open more access than required or approved, or access that is never decommissioned, can expand the attack surface and lead to potential cyberattacks.

In addition to these factors, every enterprise has its own compliance requirements for industry standards as well as internal policies and best practices. Audits are a fact of life for every enterprise, yet audit preparation with documentation to demonstrate compliance with change processes, is time-consuming and costly. Enforcing compliance via a standard, documented change process is crucial to the bottom line - especially since non-compliance can lead to hefty penalties and even breaches.

The Tufin Orchestration Suite™ Solution

The Tufin Orchestration Suite™ provides network security change automation with built-in controls for security and compliance. The solution enables enterprises to implement network changes securely and accurately in minutes instead of days through:

End-to-end Change Automation



Enable zero-touch implementation of network security policy changes across physical networks and hybrid cloud platforms by automating each step in the change workflow as well as the change process itself. Automated design and implementation of changes are based on accurate topology path calculations and policy analysis to ensure fast and precise provisioning of applications and services.

Continuous Compliance & Audit Readiness



Maintain continuous compliance with internal policies and industry regulations by proactively identifying and addressing potential violations in all change requests. Audit preparation is easier when all changes are well-documented and follow a standard change process. And changes that are made outside the process are identified and remediated in real-time.

Highlights & Benefits

Tufin Orchestration Suite™ streamlines network security changes to increase business agility while maintaining policy compliance across the enterprise

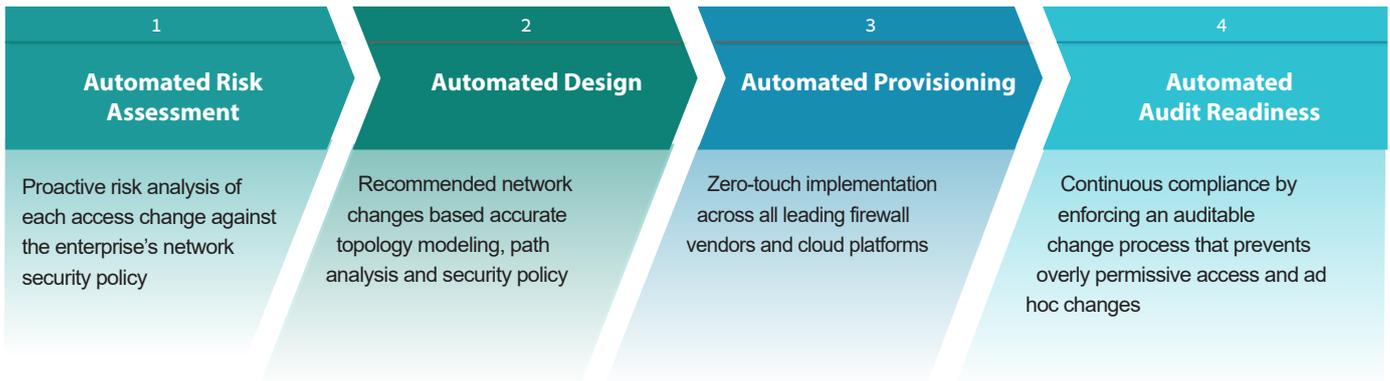
- **Implementation of network changes in minutes instead of days**
- **Proactive risk analysis** to avoid security and compliance violations
- **Flexible, customizable workflows** for full integration into enterprise ITSM processes
- **Increased control with a unified console** supporting all leading enterprise network security platforms
- **Automated provisioning and end-to-end orchestration** to reduce complexity and human error in multi-vendor environments
- **Reduced time and effort required for audit readiness** through continuous compliance and automated audit trail
- **End-to-end automation** for secure and reliable application connectivity changes



Network Access Life-cycle Management

Minimize the network attack surface by assessing the risk of proposed connectivity changes across heterogeneous environments proactively using a centralized, documented network security policy. Leverage a standard workflow process to decommission unnecessary or unapproved access and recertify existing approved access to ensure your enterprise network security policy allows only required access, improving your ability to contain the next attack.

How It Works – Tufin Network Security Change Automation



Custom Process Flow to Align with the Enterprise

Tufin's Network Security Change Automation solution allows simple yet complete customization of every aspect in the change workflow, from approval escalations to input validation. The Tufin Orchestration Suite also integrates seamlessly with enterprise IT Service Management (ITSM) solutions such as BMC Remedy and ServiceNow, enabling end-to-end network security change automation across systems and teams.

Application-driven Change Automation

The Tufin Orchestration Suite provides end-to-end automation for application connectivity changes. By modeling and analyzing application connectivity across heterogeneous networks, Tufin allows application users to submit changes at the application level, then translates those changes into specific network security policies, and automates them across physical networks and cloud platforms.

Conclusion

The Tufin Orchestration Suite provides process automation that results in faster, more secure network changes in minutes instead of days. Tufin's network security policy orchestration automates the workflow process – from zero-touch to user-approved - based on an organization's acceptable business risk and security policy. The results in a flexible, auditable change process that helps enterprises maintain a state of continuous compliance and enhance audit-readiness. With Tufin's Network Security Change Automation, IT operations and security teams are able to do more with their existing resources.

Technology Partners



Tufin® is the leader in Network Security Policy Orchestration, serving more than half of the top 50 companies in the Forbes Global 2000. Tufin simplifies management of some of the largest, most complex networks in the world, consisting of thousands of firewall and network devices and emerging hybrid cloud infrastructures. Enterprises select the award-winning Tufin Orchestration Suite™ to increase agility in the face of ever-changing business demands while maintaining a robust security posture. Tufin reduces the attack surface and meets the need for greater visibility into secure and reliable application connectivity. Its network security automation enables enterprises to implement changes in minutes with proactive risk analysis and continuous policy compliance. Tufin serves over 1,800 customers spanning all industries and geographies; its products and technologies are patent-protected in the U.S. and other countries.

