

## Automated Firewall Rule Analysis and On-Demand Audit

As firewalls increase in complexity, streamlining the compliance audit process and optimizing the rule sets becomes an extremely labor-intensive task. Multiple firewall platforms add further challenges by introducing additional management interfaces, capabilities, and log formats. Many organizations have found that manually auditing firewalls has become expensive and ineffective. The overwhelming number and diversity of rules, complexity and constant network change makes it next to impossible for organizations to maintain full compliance with regulatory and internal policy demands.

Skybox Firewall Compliance Auditor automatically and continuously collects information from multiple firewalls and analyzes their compliance with industry best practices or custom-tailored policies. Firewall rules can be optimized by eliminating unused or ineffective rules and objects. With the Firewall Compliance Auditor, network operation professionals can produce audit reports and compliance scorecards in a matter of minutes.

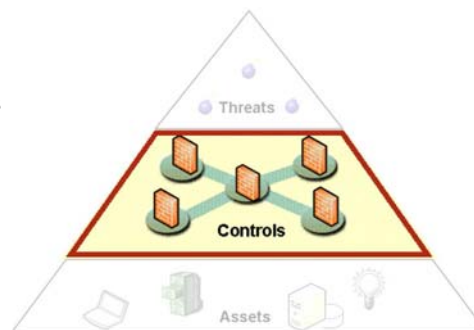
## Business Problem

- Regulations mandate regular auditing of production firewalls
- Lack of consistency due to unique firewall management interfaces
- Rule analysis and compliance audit process is ineffective and labor-intensive
  - Takes weeks or months to audit a few firewalls
  - Manual audits miss dangerous configuration errors
  - Errors introduce unacceptable risk exposure
- Rules grow exponentially and cleanup is a manually intensive burden—unsafe to eliminate unused or ineffective rules
- Poor change management support
  - Change validation stage prior to deployment does not exist

## Value Proposition

The Firewall Compliance Auditor helps organizations avoid the negative outcome of firewall mis-configurations while significantly reducing costs. Unique firewall platforms are quickly normalized and analyzed in the same manner. With this solution, network engineers can ensure compliance, optimize firewall rule base, and discover policy violations that results in non-compliance or damage to an organization's reputation.

As regulations require more frequent audits, the Firewall Compliance Auditor will enable organizations to instantly and cost-effectively scale to meet demand, all while providing a single corporate perspective of the entire firewall network.



## Why Skybox Security?

*“One version of the truth.”*  
- Reuters

*“Risk exposure window is reduced by 95%.”*  
- USAID

*“Allows us to carry out a measurable, repeatable, and predictable risk assessment and mitigation planning process.”*  
- EGG Bank

*“By visualizing threats quickly and efficiently, we realized a full ROI in a year and a 300% ROI in three years.”*  
- Credit Suisse

*“We now have more answers than questions.”*  
- Barclays Capital

*“Once you have it, you realize you can't live without it.”*  
- Standard Chartered Bank

*“Skybox could completely change the vulnerability assessment landscape and become the dominant vendor in the world.”*  
- Forrester

## Why Should You Care?

- Avoid outcome of firewall mis-configurations and reduce cost significantly
- Comply with regulatory and best practice requirements: PCI, FISMA, NIST, SOX, and more
- Increase frequency of firewall audits without adding more staff
- Optimize rule-sets for better performance and security

# Firewall Compliance Auditor

## Key Features

- Support for most major firewall types; Check Point, Cisco, Juniper, Symantec, etc.
- Out-of-the-box best practice policies based on NIST, NSA, and PCI DSS standards fulfill requirements for many regulations like PCI, SOX, ISO, NSA, FISMA, and more
- Side-by-side comparison between past, present, and future configurations of a firewall
- Access policy—customizable to organization's needs
- Firewall access path analysis
- Rule usage analysis and optimization
- Access policy violation discovery, root cause analysis and management
- Automated access compliance analysis
- Access policy violation management
- What-if analysis: access policy - policy violation - change prediction
- Audit reports and compliance metrics

## Benefits

- Consistent firewall compliance audits across all types in minutes
- Significant time and labor savings by automating processes—more frequent auditing of firewalls
- Improved firewall management—despite complexity and rate of change
- Lower cost of compliance despite an increase in auditing requirements
- Drastic reduction of human errors and network access configuration error in change management process
- Ability to validate proposed changes and resulting impact prior to deployment
- Provide impact analysis on compliance and audit requirements
- When combined with Skybox Network Compliance Auditor, provides comprehensive network security compliance support

## How It Works

Implementation of Skybox Security's Firewall Compliance Auditor is a five step process that will ultimately optimize the visibility and productivity of existing security layers.

**Step 1: Normalized Firewall Repository**—Device configurations are imported; access control rules are normalized, and devices are mapped into zones.

**Step 2: Access Policy**—Out-of-the-box best practice policy is standard; rules and policies are customized to corporate policy; source and destination is specified by zones allowing for scalable policy management; policy compliance reports are then generated instantaneously.

**Step 3: Policy Compliance Management**—Policy compliance analysis is automated using Skybox's access simulation technology; generated reports automatically provide metrics with the current stats of compliance percentage; violations that impede compliance are listed in drill down format; root cause of violations is determined, with access route details.

**Step 4: Rule Usage Analysis**—Firewall logs are imported into the system and normalized across all policy changes, and usage statistics are generated from all rules and objects.

**Step 5: Report Generation**—Reports are generated and presented in either custom or template form as either a PDF, HTML, or RTF file; the scope and details of each report is completely customizable to your needs; generated on an ad hoc basis or continuously through regularly scheduled intervals delivered via email.

