

# The Hillstone Firewall Policy Management Solution Compatible with the FireMon Security Manager

## Overview

Hillstone offers a highly effective solution for security policy management and optimization by integrating with FireMon's unified security policy management platform. This solution provides configuration management, policy analysis and security auditing of Hillstone firewalls. It helps enterprises increase system management efficiency, reduce network management costs, and eliminate network security incidents caused by human operational mistakes. Combined with the FireMon management platform, Hillstone firewalls enable flexible networking while leveraging existing devices in the network.

### Security Policy Management

Security policy management is the core of network security management. Most enterprise network security incidents are caused by insufficient administrator service capability, incomplete processes, change errors, lack of device performance planning, inadequate operational and maintenance staff expertise, and deviation from operational and maintenance procedures. Statistics show that approximately 95% of security incidents arise from inappropriate security policy configuration. Therefore, security policy management is at the very core of network security management. Security management tools to implement security policy management quickly, and to help avoid human configuration errors, are of critical value to enterprises.

### Firewall "Sub-Health" Status

Firewall security in the network is enabled through the configuration of security policies. When configured improperly, the firewall cannot provide the required security protection, and the situation also gives rise to other security risks. Firewall "sub-health" status caused by inappropriate configurations includes the following situations:

- Ineffective policies, redundant policies or "zero-hit" policies
- Inability to understand policy utilization, and to clean up large numbers of accumulated policies
- "Loose" security policies, or security policies where "Any" is selected

- Security policies that open high-risk ports
- Security policies that violate the mutual access specification between security domains

### Hillstone Firewall and FireMon Security Manager Integration

Hillstone offers an enterprise firewall policy management solution that provides unified management of firewall policies across the network, automatically corrects firewall “sub-health” status caused by human error, and eliminates other potential risks in the network. FireMon Security Manager is a unified security policy management platform with an intuitive GUI to help administrators effortlessly manage and analyze the security policies of Hillstone firewalls. With the FireMon Security Manager, administrators can see which policies are unused, and which are used most frequently to analyze the actual traffic permitted by a specific security policy. With this information, administrators can accurately understand the utilization and effectiveness of the access control policies on each Hillstone firewall, enabling them to perform policy optimization. A management view of the integrated solution is shown in Figure 1.

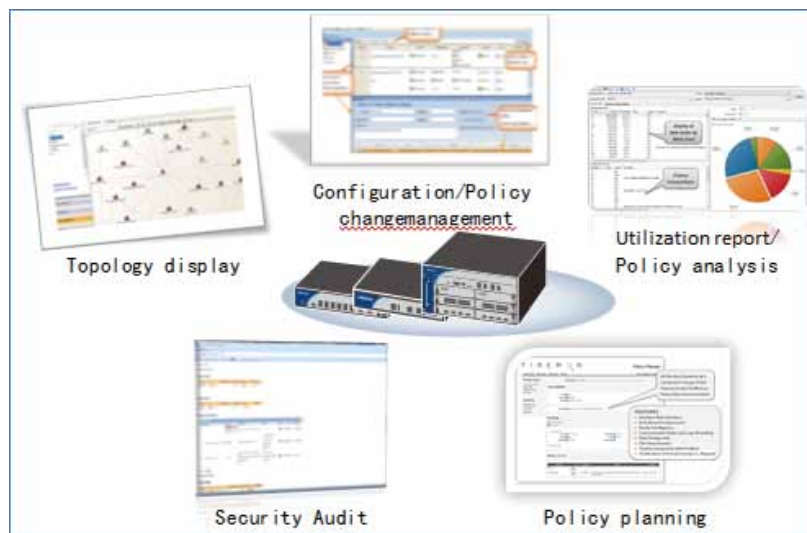


Figure 1: Hillstone Firewall and FireMon Security Manager Integration

### Solution Features

As shown in Figure 2, the integration of the Hillstone Firewall and FireMon Security Manager for security policy management offers several operational benefits, including:

- Unified Management
- Configuration Management
- Policy Analysis
- Security Audit



Figure 2 Joint Solution Features

### Unified Management

The joint solution provides a unified management platform for Hillstone firewalls in the network. Policy synchronization and policy convergence analysis are enabled by linking to the Hillstone firewall logs. The Security Manager allows users to view the network topology, to test service accessibility between network nodes for the current policy configuration, and to analyze the hit rate of each policy.

### Configuration Management

The policy management platform monitors the configuration and policy changes of Hillstone firewalls, maintains change records, and notifies network administrators when changes take place. It also reminds administrators to delete temporary policies about to expire. The policy management platform also provides a firewall configuration comparison feature. A comparison of security policy effectiveness before and after a modification in firewall policy or configuration is shown by comparing the configurations of the same firewall at two different points in time, or by comparing the security policies of two different firewalls.

### Policy Analysis

The policy management platform analyzes the configuration and utilization of security policies on Hillstone firewalls, discovers redundant policies, and points out ineffective policies as well as “loose” security policies. Additionally, it generates reports for current policies, and provides a policy optimization function accompanied by configuration suggestions. Based on the policy utilization report, administrators understand which policies are highly utilized and can adjust the order of security policies accordingly, thereby improving the matching efficiency of security policies on Hillstone firewalls.

## Security Audit

The security audit function determines configuration compliance. The Security Manager audits compliance of Hillstone firewall configurations with dozens of pre-built compliance templates including those of PCI, ISO27001, and other international standards organizations. The security auditing function is also used to determine whether administrators' configurations conform to the mutual access specification between security domains and the security specification defined by the enterprise, as well as whether a policy opens a high-risk port.

## Solution Value

The Hillstone firewall policy management solution effectively addresses issues such as human operational errors and the lack of a foundation for configuration optimization. The joint solution provides an easy-to-use tool for enterprise network security management. Administrators can detect misconfigured policies, delete invalid or redundant firewall policy entries, and fix incorrect security policy configurations in a timely manner through a single interface without the need to log into each Hillstone firewall individually to view its policy utilization. This enhanced capability helps enterprises prevent network security incidents.

The policy management solution supports the full portfolio of Hillstone firewalls. It is an ideal solution for users who have already deployed, or plan to deploy, Hillstone firewalls in financial institutions, large enterprises, industrial parks and carriers. The Firemon management platform enhances Hillstone firewall functionality and security. Users can implement security management functions through a single platform, significantly reducing network security management costs.

## Deployment Example

A global enterprise deploys nearly 100 Hillstone firewall devices, and it takes several days to inspect the configurations of these devices individually. It is difficult for the administrators to understand the policy and operational status of each individual firewall, and to discover incorrect policies and configurations. With the Hillstone policy management solution, the administrators can understand all Hillstone firewall policies and configurations far more easily, and manage all policies from a unified interface. Moreover, the administrators now have insight into the real-time health of current policy configurations by using sophisticated analysis tools. The protective capabilities of each Hillstone firewall is maximized through policy optimization and policy correction, thereby ensuring continuous business availability while also taking full advantage of the security policies. A sample deployment scenario is shown in Figure 3.

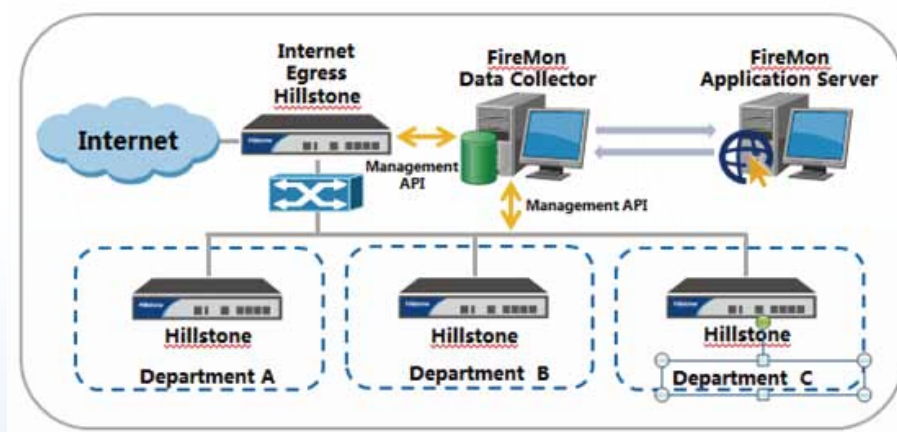


Figure 3: Sample Deployment Scenario

## Summary

Hillstone firewalls offer a highly effective solution for security policy management and optimization by integrating with FireMon's unified security policy management platform. This solution provides configuration management, policy analysis and security auditing of Hillstone firewalls.

## Hillstone Networks

As a leading provider in network security, Hillstone Networks' security products are widely used by carriers, government agencies, large enterprises and universities. With its innovative Intelligent Next-Generation Firewall, Hillstone Networks is recognized by the Gartner firewall report as a vendor providing continuous innovation efforts in the China market. In 2014, Hillstone Networks was positioned in the Gartner Magic Quadrant for Enterprise Network Firewalls due to its outstanding innovative capabilities and competitiveness, surpassing many other global vendors in terms of "completeness of vision" of network security technology.



## FireMon

FireMon is one of the leading global network security management service providers, committed to providing advanced security management solutions. As the first world-wide vendor to deliver firewall security policy management solutions, FireMon enables users to control network security infrastructure in real-time and enhance overall network security by providing comprehensive capabilities for security management, policy optimization and risk analysis. FireMon Security Manager is currently widely adopted by carriers, financial institutions, large enterprises, hosted service providers and government agencies throughout the world.