



Hillstone Security Solution for Enterprise Networks

1. Enterprise Current Status Analysis

Today, the development of information technology makes computer usage ubiquitous. Lots of enterprises construct their own IT networks and business operation relies heavily on IT techniques. Internet connects isolated PC, and makes them communicate with each other and share resources. It greatly improves competitiveness of enterprises. But in the mean time, the open nature of internet means that what follows resource sharing is resource misuse. Network security becomes a serious problem for enterprises.

As enterprises are relying more and more on IT system for its uninterrupted operation, the enterprise needs to solve the problem of how to enhance the security of the system and effectively control security risks. But, enterprises also face fierce competition and need to manage their cost and resources effectively.

Problems Existing in Enterprise Network

External Security

Security breaches are common occurrences on the internet. Enterprise users may suffer security threats coming from internet, such as worms, virus, spam etc. For enterprises, these often lead to destroyed data, crashed system, hogged network, stolen data. Work efficiency also is affected, causing big economic damage.

Internal Security

Beside attacks from internet, enterprise networks also need to deal with intranet threats. It is reported that more than 60% employees use the network for their personal purpose at working time. Improper use of network reduces working efficiency, consumes network resources, introduces virus and spy software, and may cause loss of enterprise secrets.

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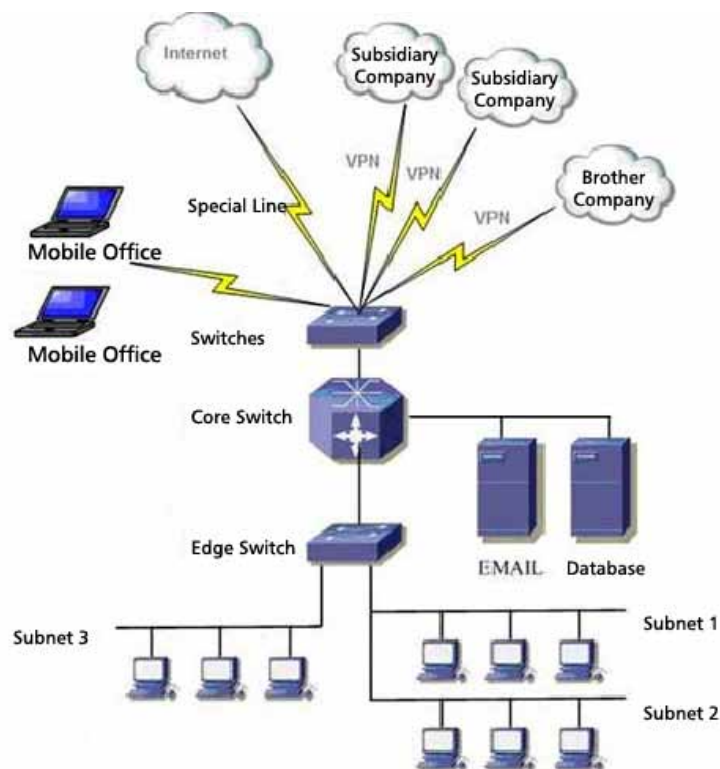
Security Connection within Intranets, or between Intranet and Extranet

As enterprises become larger, the network that interconnects headquarters, branch offices, remote personnel also becomes more complicated. So, how to make information available to all parties while keeping data transfer safe is a big problem. The security of network connections between offices at different locations and employees at different locations greatly affects enterprise operation.

Requirements for Network Behavior Control and Role Based Management

Network becomes an essential part of enterprise business. And it also becomes an essential part of every employees in their daily working and sometimes personal activities. Employees may at one time or another visit their favorite websites to read news, shop online, visiting SNS sites, trade stock, watch online movies etc. Some of these activities goes against the purpose of the network as a productivity enhancing business tool. How to manage the network resources and improve working efficiency, control or block non-work and resource consuming activities is what IT managers need to consider.

Network Topology of Small and Medium-sized Enterprises Network:





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2. Solution for Enterprise

External Security

Hillstone UTM Plus solution is based on new generation multi-core hardware architecture. It can offer network attack defense, anti-virus defense, and other application level security capabilities.

Network Attack Defense:

With multi-core parallel processing capability and application layer attack detection, Hillstone security appliance can identify network attacks and provide a high performance defense solution.

Network Virus Defense:

Cooperating with Kaspersky, Hillstone offers parallel stream based virus scanning that effectively block virus while at the same time provide high throughput data transfer.

IPS:

Hillstone Networks uses a innovative way that combines signature based detection with behavior based detection. Its application identification and analyzation technology accurately identifies the threats and reduces false positives and false negatives.

Internal Security

Hillstone Networks also provides ARP attack defense, servers attack defense and application layer security on the intranet.

ARP Attack Defense:

- Hillstone Secure Defender Client
- MAC-IP-PORT binding
- Port isolation function
- Auto-Send of Gratuitous ARP for gateway or for other PCs/servers
- ARP inverse query
- Limit IP address per MAC

Application Security: Hillstone Security Appliance can classify each interface to individual zone, and logically separate server and departments on the intranet. Through



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using AD and IPS function, servers can be better protected.

Security Connection within Intranets, or between Intranet and Extranet

For security between head office and branch office, Hillstone offers:

- IPSec VPN with hardware acceleration
- Offer easy-to-use PnPVPN solution for the enterprise which having multiple branch offices

For employees who need to access intranets remotely, Hillstone offers:

- Third generation SSLVPN
- USB-KEY authentication
- Support the third party authentication servers, such as Radius, AD, two-factor authentication, PKI etc
- Offer client security inspection and hardware binding function, which can provide better security for remote access

Network Behavior Control and Role Based Management

Hillstone offers Network Behavior Control(NBC) and Role Based Management solutions (RBNS).

- Authentication and identification based on user
- Limit bandwidth based on user or IP
- Limit session based on user or IP
- Guarantee bandwidth for key business application
- Manage and control P2P, IM, SNS, online videos, etc.
- Control URL that users can visit through URL database
- Control email users send and receive, record the email' s subject, sender, receiver, attachments, etc.
- Audit and record posting contents to BBS
- Offer detailed NBC logs