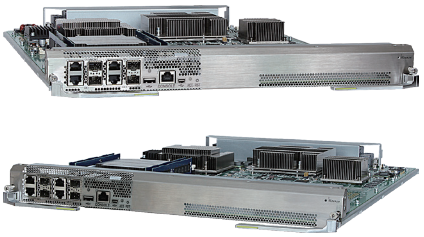
HUAWEI NGFW Module For CE Series Switchs



NGFW module

Overview

Enterprise networks are evolving into next-generation networks that feature mobile broadband, big data, social networking, and cloud services. Yet, mobile applications, Web2.0, and social networks expose enterprise networks to the risks on the open Internet. Cybercriminals can easily penetrate a traditional firewall by spoofing or using Trojan horses, malware, or botnets.
HUAWEI NGFW Module is designed to address these challenges. Based on ACTUAL (application, content, time, user, attack, and location) awareness, it uses the cloud technology to identify unknown threats and provide high-performance application-layer protection for enterprise networks. In addition, the CE-FWA NGFW module can be inserted on basic network devices, such as the CE12800/S switches, providing plug and play and scalability features. This greatly simplifies user management and reduces maintenance costs.

Product Features

Easy Deployment and Expansion

- Uses software to adjust the networking, which simplifies the installation and deployment and frees the administrators from adjusting the complex cables.
- In case of performance bottlenecks, more NGFW modules can be inserted into the slots on the switches, without requiring extra space.
- Integrates networks with security using products from the same vendor, which facilitates unified management and simplifies the management.

Comprehensive Threat Prevention

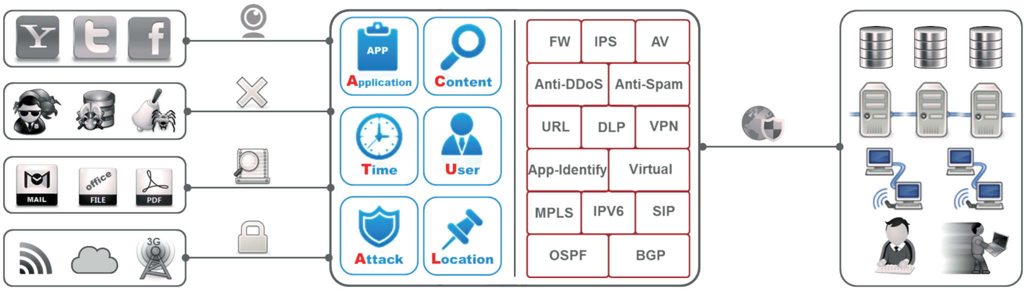
- Provides professional security functions, including IPS, Antivirus, anti-spam, web security, and application control, besides basic defense functions, such as SVN, authentication, and anti-DDoS.
- Provide samples of worldwide suspicious threats. The NGFW module executes suspicious samples within the sandbox in the cloud to monitor the activities of the samples and identifies unknown threats, automatically extracts threat signatures, and rapidly synchronizes the signatures to the devices to defend against zero-day attacks.

Granular Application Access Control

- Innovative next-generation context awareness and access control: Identifies application-layer threats from six dimensions: application, content, time, user, attack, and location to implement application-layer security protection.
- Integrated next-generation content security: Provides an analysis engine that integrates application identification and security functions to prevent application-based malicious code injections, network intrusions, data interceptions, and Advanced Persistent Threat (APT) attacks.

Excellent Performance

- Employs dedicated software and hardware platform architecture and provides an Intelligent Awareness Engine (IAE) capable of parallel processing with all security functions enabled after intelligent application identification.
- Implements hardware acceleration for content checks to improve application-layer protection efficiency and ensure the 8G performance with IPS and Antivirus functions enabled.



LEADING NEW ICT,
BUILDING A BETTER CONNECTED WORLD

HUAWEI

Specifications

Model	CE-FWA
FW throughput (1518 bytes)[1]	40G
IPS throughput	8G
IPS+AV throughput	8G
Concurrent sessions	12,000,000
New sessions per second	400,000
IPSec VPN throughput (AES,1420 byte)	18 G
Maximum number of IPSec connections	15,000
Maximum number of SSL concurrent users	5000
Default number of SSL concurrent users	100
Maximum number of virtual firewall	1000
Default number of virtual firewall	10
Hardware interface	
Fixed ports	4 x GE (combo)
USB port	1 x USB + 1 x mini-USB
Console port	1
Functions	
Context awareness	ACTUAL (Application, Content, Time, User, Attack, Location)-based awareness capabilities
	Eight authentication methods (local, RADIUS, HWTACACS, SecurID, AD, CA, LDAP, and Endpoint Security)
Application security	Fine-grained identification of over 6000 application protocols, application-specific action, and online update of protocol databases
	Combination of application identification and virus scanning to recognize the viruses (more than 5 millions), Trojan horses, and malware hidden in applications
	Combination of application identification and content detection to identify file types and sensitive information to prevent information leaks
Intrusion prevention	Over 3000 signatures for attack identification
	Protocol identification to defend against abnormal protocol behavior
	Support for user-defined IPS signatures
Web security	Cloud-based URL filtering with a URL category database that contains over 85 million URLs in over 130 categories
	Defense against web application attacks, such as cross-site scripting and SQL injection attacks
	HTTP/HTTPS/FTP-based content awareness to defend against web viruses
	URL blacklist and whitelist and keyword filtering
Email security	Real-time anti-spam to detect and filter out phishing emails
	Local whitelist and blacklist, remote real-time blacklist, content filtering, keyword filtering, and mail filtering by attachment type, size, and quantity
	Virus scanning and notification for POP3/SMTP/IMAP email attachments
Data security	Data leak prevention based on content awareness
	File reassembly and data filtering for more than 30 file types (including Word, Excel, PPT, and PDF), and file blocking for more than 120 file types
Security virtualization	Virtualization of security features, forwarding statistics, users, management operations, views, and resources (such as bandwidths and sessions)
Network security	Defense against more than 10 types of DDoS attacks, such as the SYN flood and UDP flood attacks
	VPN technologies: IPSec VPN, SSL VPN, L2TP VPN, MPLS VPN, and GRE
Routing	IPv4: static routing, RIP, OSPF, BGP, and IS-IS IPv6: RIPng, OSPFv3, BGP4+, IPv6 IS-IS, IPv6 RD, and ACL6
Working mode and availability	Transparent, routing, or hybrid working mode and high availability (HA), including the Active/Active and Active/Standby mode
Policy management	Provides a global configuration view and integrated policy management. The configurations can be completed in one page.
Bandwidth management	Provides per-user or per-IP bandwidth management based on application identification, ensuring network quality for key services and users. The management and control can be implemented by maximum bandwidth, guaranteed bandwidth, application-based PBR, and changing the forwarding priority of application traffic.
Load balancing	Supports server load balancing and link load balancing to fully utilize network resources.

[1]: The throughput is based on 1518 byte packet size and tested under ideal conditions. Real result may vary with different deployment environments.