









USG6620/6630



USG6650/6660



USG6670/6680

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 Secospace USG6600 series is designed to address these challenges of Carrier, large- and medium-sized enterprises and next-generation data centers. It analyzes intranet service traffic from six dimensions, including application, content, time, user, attack, and location and then automatically generates security policies as suggestions to optimize the security management and provide high-performance application-layer protection for enterprise networks.

Note: USG6600 is next-generation firewall products series in USG (Unified Security Gateway) product family

Product Features

Granular Application Access Control

- Identifies the application-layer attacks and their application, content, time, user, and location information.
- Flexible bandwidth management optimizes critical services, improves user experience, and cuts costs.
- Provides all-round visibility into service status, network environment, security postures, and user behaviors.

Excellent Performance

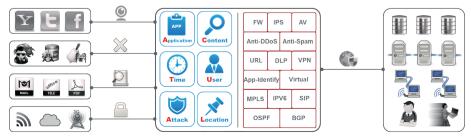
- Provides an Intelligent Awareness Engine (IAE) capable of parallel processing with all security functions enabled after intelligent application identification.
- Improves application-layer protection efficiency and ensures the 10G+ performance with all security functions enabled.

Easy Security Management

- Classifies 6000+ applications into 5 categories and 33 subcategories and supports application access control based on the subcategories.
- Complies with the minimum permission control principle and automatically generates policy tuning suggestions based on network traffic and application risks.
- Analyzes the policy matching ratio and discovers redundant and invalid policies to remove policies and simplify policy management.

Comprehensive Protection

- Multiple defense functions in a single appliance, such as IPS, antivirus, and data leak prevention, to prevent application-based malicious code injections, network intrusions, and data interceptions.
- Implementing cloud-based URL category filtering to prevent threats caused by users' access to malicious websites and control users' online behaviors.
- · Coordinate with sandbox, effectively defend APT attacks.



LEADING NEW ICT, BUILDING A BETTER CONNECTED WORLD



Specifications

Model	USG6620	USG6630	USG6650	USG6660	USG6670	USG6680
IPv4 Firewall Throughput ¹	12 Gbit/s	16 Gbit/s	20 Gbit/s	25 Gbit/s	35 Gbit/s	40 Gbit/s
(1518 byte, UDP) FW + SA + IPS Throughput ²	5.8 Gbit/s	5.8 Gbit/s	8.8 Gbit/s	8.8 Gbit/s	8.8 Gbit/s	15 Gbit/s
FW + SA + Antivirus Throughput ²	5 Gbit/s	5 Gbit/s	8 Gbit/s	8 Gbit/s	8 Gbit/s	13 Gbit/s
Concurrent sessions (HTTP1.1) ¹	6,000,000	6,000,000	8,000,000	10,000,000	10,000,000	12,000,000
New sessions per second (HTTP1.1) ¹	200,000	250,000	300,000	350,000	400,000	400,000
IPsec VPN Throughput ¹ (AES-128 + SHA1, 1420-byte)	9 Gbit/s	12 Gbit/s	15 Gbit/s	18 Gbit/s	18 Gbit/s	18 Gbit/s
Virtual firewalls	200	200	500	500	500	1,000
MTBF	10.08years	10.08years	27.07years	27.07years	23.67years	19.18years
Fixed port	8×GE(RJ45)+4×GE(SFP)	2×10ĠE(SFP+)+8×GE(RJ45)+8×GE(SFP) 4×10ĠE(SFP+)+16×GE(RJ45)+8×GE(SFP)			
Expansion Slots Interface module	2×WSIC 5×WSIC 5×WSIC 5×WSIC 5×WSIC					
Height	1U 3U					
Dimensions (W×D×H)	442mm×421mm×44.4mm		442mm×470mm×130.5mm			
Weight (full configuration)	8.7kg		24kg	24kg 24kg 26kg		
HDD	Optional. Supports single 300 GB or		Optional. Supports 300 GB or 600GB ³ hard disks (RAID1 and hot swappable).			
Redundant power supply	600G hard disks (hot swappable). Optional		Standard configuration			
AC power supply	100 V to 240 V		100 V to 240 V			
DC power supply	-		-		-48 V to -60 V	
Maximum power	170W		350W			DC: 350W ⁴
	Temperature: 0°C to 45°C/5°C to 40°C(with optional HDD)					
Operating environment	Humidity: 5% ~ 95%/ 5% ~ 90% (with optional HDD)					
Non-operating environment	Temperature: -40°C to 70°C/Humidity: 5% to 95%					
Certifications	166411 =:	IDC IDC COLUMN				
Software	ICSA Labs: Firewall, IPS, IPSec, SSL VPN					
Software	CC: EAL4+ NSS Labs: Recommended Rating (USG6650)					
Hardware	CB, CE-SDOC, ROH	S, REACH&WEEE(EU), RCM, ETL, FCC&IC,	VCCI, BSMI		
Functions						
Context awareness	ACTUAL (Application, Content, Time, User, Attack, Location)-based awareness capabilities Eight authentication methods (local, RADIUS, HWTACACS, SecureID, AD, CA, LDAP, and Endpoint Security). The firewall provides built-in portal and portal redirection functions. Fine-grained identification of over 6000 application protocols, application-specific action, and online update of protocol databases					
Application security	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	Provides over 6000 signatures for attack identification. Provides protocol identification to defend against abnormal protocol behaviors. Supports user-defined IPS signatures. Supports APT defense. Interworking with the Sandbox to detect and block the malicious files in the network.					
Web security	Cloud-based URL filtering with a URL category database that contains over 120 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					
	Real-time anti-spam to detect and filter out phishing emails Local whitalist and blacklist, romato real time blacklist, content filtering, knowners filtering, and mail filtering by attachment					
Email security	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					
Network security	and sessions) 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. Huawei-developed VPN client SecoClient to implement remote user access through SSL VPN, L2TP VPN, and L2TP over IPSec VPN.					
Routing	IPv4: static routing, RIP, ÖSPF, BGP, and IS-IS					
<u> </u>	IPv6: RIPng, OSPFv3, BGP4+, IPv6 IS-IS, IPv6 RD, and ACL6 Transparent, routing, or hybrid working mode and high availability (HA), including the Active/Active and Active/Standby mode.					
Working mode and availability Intelligent management	Transparent, routing, or hybrid working mode and high availability (HA), including the Active/Active and Active/Standby mode Evaluates the network risks based on the passed traffic and intelligently generates policies based on the evaluation to automatically optimize security policies. Supports policy matching ratio analysis and the detection of conflict and redundant policies to remove them, simplifying policy management. Provides a global configuration view and integrated policy management. The configurations can be completed in one page.					
garana garan	Provides visualized and multi-dimensional report display by user, application, content, time, traffic, threat, and URL. Enterprise administrators can perform assessment over the current network security status by the network security report and providing the related optimization suggestions.					

- 1. Performance is tested under ideal conditions based on RFC2544, 3511. The actual result may vary with deployment environments.
- 2. Antivirus, IPS, and SA performances are measured using 100 KB HTTP files.
- 3. USG6680-DC doesn't support 600GB hard disk.
- 4. With DC power input, the USG6680 supports up to three WSICs without 2XG8GE or two WSICs with 2XG8GE.