Huawei USG6515E/USG6550E/USG6560E/ USG6580E Next-Generation Firewalls



USG6515E/USG6550E/USG6560E/USG6580E

Overview

With the continuous digitalization and cloudification of enterprise services, networks play an important role in enterprise operations, and must be protected. Network attackers use various methods, such as identity spoofing, website Trojan horses, and malware, to initiate network penetration and attacks, affecting the normal use of enterprise networks.

Deploying firewalls on network borders is a common way to protect enterprise network security. However, firewalls can only analyze and block threats based on signatures. This method cannot effectively handle unknown threats and may deteriorate device performance. This singlepoint and passive method does not pre-empt or effectively defend against unknown threat attacks. Threats hidden in encrypted traffic in particular cannot be effectively identified without breaching user privacy.

Huawei's next-generation firewalls provide the latest capabilities and work with other security devices to proactively defend against network threats, enhance border detection capabilities, effectively defend against advanced threats, and resolve performance deterioration problems. The network processing chip provides pattern matching and encryption/decryption service processing acceleration functions, which greatly improve the firewalls ability to process content security detection and IPSec services.

Product Highlights

Comprehensive and integrated protection

- Integrates the traditional firewall, VPN, intrusion prevention, antivirus, data leak prevention, bandwidth management, URL filtering, and online behavior management functions all in one device.
- Interworks with the local or cloud sandbox to effectively detect unknown threats and prevent zero-day attacks.

 Implements refined bandwidth management based on applications and websites, preferentially forwards key services, and ensures bandwidth for key services.

More comprehensive defense

- The built-in traffic probe of a firewall extracts traffic information and reports it to the CIS, a security big data analysis platform developed by Huawei. The CIS analyzes threats in the traffic, without decrypting the traffic or compromising the device performance. The threat identification rate is higher than 90%.
- The deception system proactively responds to hacker scanning behavior and quickly detects and records malicious behavior, facilitating forensics and source tracing.

High performance

- Uses the network processing chip based on the ARM architecture, improving forwarding performance significantly.
- Enables chip-level pattern matching and accelerates encryption/ decryption, improving the performance for processing IPS, antivirus, and IPSec services.

Deployment

Cloud-based management

- Firewalls proactively register with and quickly incorporated into the cloud management platform to implement quick device deployment without manual attendance.
- Remote service configuration management, device monitoring, and fault management are used to implement cloud-based management of mass devices and simplify O&M.

Enterprise border protection

 Firewalls are deployed at the network border. The built-in traffic probe extracts packets of encrypted traffic and sends the packets to the CIS, a big data analysis platform. In this way, threats in encrypted traffic are monitored in real time. The deception function in enabled on the firewalls to proactively respond to malicious scanning behavior and associate with the CIS for behavior analysis to quickly detect and record malicious behavior, protecting enterprise against threats in real time.



Next-Generation Firewalls

Specifications

System Performance and Capacity

Model		LICCOFFOR		LICCEDOF
	USG6515E	USG6550E	USG6560E	USG6580E 8/8/1.5 Gbit/s
IPv4 Firewall Throughput ¹ (1518/512/64-byte, UDP)	2/2/1.5 Gbit/s	4/4/1.5 Gbit/s	6/6/1.5 Gbit/s	
FW+SA*+IPS Throughput ²	1.5 Gbit/s	2.1 Gbit/s	2.2 Gbit/s	2.2 Gbit/s
Full Protection Throughput ³	1.1 Gbit/s	1.6 Gbit/s	1.7 Gbit/s	1.8 Gbit/s
Concurrent Sessions ¹ (TCP)	3,000,000	4,000,000	4,000,000	4,000,000
New Sessions/Second ¹ (TCP)	70,000	78,000	80,000	80,000
IPSec VPN Throughput ¹ (AES-256+SHA256, 1420-byte)	2 Gbit/s	3 Gbit/s	3 Gbit/s	3 Gbit/s
Maximum IPSec VPN Tunnels	4000	4000	4000	4000
SSL Inspection Throughput ⁴	300 Mbit/s	450 Mbit/s	500 Mbit/s	550 Mbit/s
SSL VPN Throughput ⁵	300 Mbit/s	450 Mbit/s	480 Mbit/s	500 Mbit/s
Concurrent SSL VPN Users (Default/Maximum)	100/500	100/1000	100/1000	100/1000
Firewall Policies (Maximum)	15,000	15,000	15,000	15,000
Virtual Firewalls (Maximum)	50	100	100	100
Dimensions (H×W×D) mm	44×442×420	100	100	100
Form Factor/Height	10			
Fixed Interface		GE + 2×GE WAN + 1×USB2.0 + 1×USB3.0		
USB Port	1×USB 2.0+1×USB 3.0 Ports			
MTBF	45.56 years			
Weight (Full Configuration)	5.8 kg			
1	Optional, SSD (M.2)	0	P	
Local Storage	supported, 64/240GB	Optional, SSD (M.2) supported, 240G	В	
AC Power Supply	100V to 240V, 50/60Hz			
Power Consumption (Average/Maximum)	25W/55.16W			
Power Supplies				
rower supplies	Single AC power supply; optional dual AC power supplies			
Operating Environment (Temperature/Humidity)	Temperature: 0°C to 45°C			
	Humidity: 5% to 95%, non-condensir			
URL Filtering: URLs	Can access a database of over 120 m			
Automated Threat Feed and IPS Signature Updates	Yes, an industry-leading security center from Huawei			
	(http://sec.huawei.com/sec/web/index.do)			
High Availability Configurations	Active/Active, Active/Standby			
Certifications				
Hardware	CB, CE-SDOC, ROHS, REACH&WEEE(EU), RCM, NRTL, FCC&IC, CCC, VCCI			
Feature	Description			
to be successful as set of a	Integrates firewall, VPN, intrusion pre-	vention, antivirus, data leak prevention, ba	ndwidth management, anti-DDoS, URL filter	ing, and anti-spam functions.
Integrated protection	Provides a global configuration view.	and manages policies in a unified manner.	.	
			down to application functions. The firewall	combines application identification with
Application identification and control	Identifies over 6000 applications and supports the access control granularity down to application functions. The firewall combines application identification with intrusion detection, antivirus, and data filtering, improving detection performance and accuracy.			
	The firewall initiates authentication and registration to the cloud management platform to implement plug-and-play and simplify network creation and deployment.			
Cloud-based management mode				
			ned remotely, implementing the managemer	
Cloud application security awareness	Controls enterprise cloud applications in a refined and differentiated manner to meet enterprises' requirements for cloud application management.			
Intrusion prevention and web protection	Accurately detects and defends against vulnerability-specific attacks based on up-to-date threat information. The firewall can defend against web-specific attacks,			
	including SQL injection and XSS attack			
Antivirus	Rapidly detects over 5 million types of	viruses based on the daily-updated virus s	ignature database.	
	Collaborates with the local or cloud sandbox to detect and block malicious files.			
	Supports the flow probe information collection function to collect traffic information and send the collected information to the CIS(Cybersecurity Intelligence System)			
Anti-APT	for analysis, evaluation, and identification of threats and APT attacks.			
Anti-APT	Encrypted traffic does not need to be decrypted. The firewall can work with the CIS to detect threats in encrypted traffic.			
	The firewall can proactively respond to malicious scanning behavior and work with the CIS to analyze behavior, guickly detect and record malicious behavior, and			
	protect enterprises against threats in real time.			
	protect enterprises against threats in a	eal time.		tect and record mancious benavior, and
Data leak prevention (DLP)			PDE based on file content, and filters the fi	
Data leak prevention (DLP)	Inspects files to identify the file types,	such as WORD, EXCEL, POWERPOINT, and	PDF, based on file content, and filters the fi	le content.
Data leak prevention (DLP) Bandwidth management	Inspects files to identify the file types, Manages per-user and per-IP bandwi	such as WORD, EXCEL, POWERPOINT, and idth in addition to identifying service appl	ications to ensure the network access expe	le content. rience of key services and users. Contro
	Inspects files to identify the file types, Manages per-user and per-IP bandwi methods include limiting the maximum	such as WORD, EXCEL, POWERPOINT, and dth in addition to identifying service appl n bandwidth, ensuring the minimum band	ications to ensure the network access expe dwidth, and changing application forwarding	le content. rience of key services and users. Contro priorities.
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Bandwidth management URL filtering Behavior and content audit Load balancing Intelligent uplink selection VPN encryption DSVPN SSL-encrypted traffic detection SSL offloading Anti-DDoS	Inspects files to identify the file types, Manages per-user and per-IP bandwi methods include limiting the maximu Provides a URL category database with Supports DNS filtering, in which acces Supports the SafeSearch function to f Audits and traces the sources of the a Supports service-specific PBR and init status) in multi-egress scenarios. Supports multiple highly available VI SecoClient for SSL VPN, L2TP VPN, an Dynamic smart VPN (DSVPN) establish of the branches. Defends against more than 10 types of Supports multiple user authentication	such as WORD, EXCEL, POWERPOINT, and dth in addition to identifying service appl m bandwidth, ensuring the minimum banc over 120 million VRLs and accelerates access issed web pages are filtered based on dom- itter resources of search engines, such as G ccessed content based on users. Is load balancing, fully utilizing existing nee illigent uplink selection based on multiple PN features, such as IPSec VPN, SSL VPN d L2TP over IPSec VPN remote access. ses VPN tunnels between branches whose iSL-encrypted traffic using application-layer p cryption and decryption, effectively reduci of common DDoS attacks, including SYN fl	ications to ensure the network access expe dwidth, and changing application forwarding to specific categories of websites, improving a ain names. isoogle, to guarantee access to only healthy r twork resources. e load balancing algorithms (for example, bi- , L2TP VPN, MPLS VPN, and GRE, and pro- public addresses are dynamically changed, rotection methods, such as intrusion prevention g server loads and implementing HTTP traffi ood and UDP flood attacks. TACACS, AD, and LDAP. The firewall suppor	le content. rience of key services and users. Contro priorities. access experience of high-priority websites network resources. ased on bandwidth ratio and link health vides the Huawei-developed VPN client reducing the networking and O&M costs n, antivirus, data filtering, and URL filtering. c load balancing.
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The performance is tested under ideal conditions based on RFC2544, 3511. The actual result may vary with deployment environments.
 Antivirus, IPS, and SA performances are measured using 100 KB HTTP files.
 Full protection throughput is measured with Firewall, SA, IPS, Antivirus and URL Filtering enabled. Antivirus, IPS and SA performances are measured using 100 KB HTTP files.
 SL inspection throughput is measured with IPS enabled and HTTPS traffic using TLS v1.2 with AES128-GCM-SHA256.
 SSL VPN throughput is measured using TLS v1.2 with AES128-SHA.
 *SA: Service Awareness.

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