



Introduction of Quidway SecPath 1000 Security Gateway

Quidway SecPath 1000 security gateway is new generation security equipment developed specially for enterprise customer by Huawei-3Com. It can help carrier and large enterprise to build up a highly reliable, conveniently expansible and easily manageable intranet.

SecPath 1000 supports multiple VPN services including L2TP VPN, GRE VPN, IPSec VPN, SSL VPN, Huawei-3Com patent dynamic VPN and MPLS VPN. It can provide access for remote users and establish VPNs in multiple forms such as Internet, Intranet and Access via dial-up, leased line, VLAN or tunnels according to the user requirements. In conjunction with the technologies of firewall, AAA, NAT and QoS, the VPN network gateway can ensure a secure and reliable private network on the open Internet.

SecPath 1000 security gateway has 2 10/100/1000 base-T&1000 base-SFP combo GE interfaces, and 1 MIM (Multifunction Interface Module) slot; the 1FE/2FE/4FE/1GE/2GE/HDC module can be applied in this slot to enhance the access ability and processing capacity.

Features

Performance

With high performance CPU, advanced hardware and software structure, the throughput can reach 1.5G, the 3DES encryption capacity can reach 350Mbps, and SecPath 1000 can support 30,000 new sessions per second, 10,000 concurrent tunnels.

VPN Technology

Based on the versatile software platform, SecPath security system can support following VPN technologies: L2TP ,GRE ,IPSEC , SSL , MPLS L2 VPN, MPLS L3 VPN and particular Dynamic VPN(Huawei-3Com patent technology); With these VPN technologies, customers can easily build safe VPN under any network condition.

Robust firewall

With packet filtering firewall, Stateful inspection firewall ASPF (Application Specific Packet Filtering), as many as 2000 ACL (Access Control List), SecPath series VPN gateways can prevent customer network from all unauthorized access.

Encryption & Authentication

SecPath 1000 can encrypt data using 56-bit Data Encryption Standard (DES), 168-bit Triple DES (3DES), or up to 256-bit Advanced Encryption Standard (AES) ,and SecPath also support ARC4; As to authentication algorithms , SecPath 1000 supports MD5 and SHA-1; also SecPath 1000 support pre-shared key ,PKI /X.509-based key and RSA secureID key in IKE .

Scalability

There is a MIM (Multifunction Interface Module) slot in SecPath 1000 and 1/2FE/4FE, 1/2GE, HDC (Hard Disk Card) can be applied in this slot, when FE or GE is applied in this slot, SecPath 1000 can support DMZ (De-Military Zone); when HDC is applied in this slot, and logs can be stored in the hard disk.

High Availability

SecPath 1000 support hot swappable extension module, 1+1 power supply, auto environment temperature detection; together with backup center and VRRP technology, all theses special designs lead to carrier class reliability.

Specification

Feature		Description
Performance	Throughput	1.5Gbps

Feature		Description
	3DES	600Mbps
	Concurrent connections	1,000,000
	New sessions/second	10,000
	Policies	10,000
Firewall	Packet filtering firewall	<p>ACL based firewall</p> <p>Support IP address, port, TOS, DSCP, MAC</p> <p>Support time range</p> <p>Support fragment-inspection</p>
	Stateful inspection firewall	<p>Support ASPF(Application Specific Packet Filtering)</p> <p>Support FTP,H.323,HTTP,RTSP,SMTP,TCP,UDP</p> <p>Support configurable aging time</p>
VPN	L2TP VPN	<p>Support LAC and LNS function</p> <p>Support multi instance L2TP</p> <p>Support work together with IPSEC</p>

Feature	Description
IPSec/IKE	<p>Support AH, ESP protocol</p> <p>Support Manual Key, IKE, PKI (X.509 v3)</p> <p>Support DES (56-bit), 3DES (168-bit), AES (128-bit, 196-bit, 256-bit)</p> <p>Support MD5 and SHA-1 Authentication</p> <p>Support IPSEC aggressive mode</p> <p>Support IPsec NAT Traversal</p> <p>Support Perfect forward secrecy (DH Groups) 1,2</p> <p>Support logic interface based tunnel</p> <p>Support 10K IPsec Tunnels</p>
GRE VPN	<p>Support keepalive</p> <p>Support work together with IPSEC</p>
MPLS L2VPN	<p>Support CCC, Martini, Kompella mode</p>
MPLS/BGP VPN	<p>Support IP address overlapping</p> <p>Support RIP, OSPF, EBGP between PE & CE</p> <p>Support Multi-role host</p> <p>Support HoPE VPN</p>

Feature		Description
	DVPN	Support Auto setup tunnel Support GRE&UDP tunnel Support Authentication Support dynamic IP address Support multi VPN Support NAT traversal Support IPSEC payload
Interfaces	Fixed interfaces	2 10/100/1000 Base-T & 1000Base-SFP combo
	Extension slot	1 MIM slot 1/2FE/4FE,1GE/2GE , HDC supported
	VLAN interface	Support 1024 802.1Q VLAN interfaces
IP services	IP address assignment	PPPOE client DHCP client Static configuration DHCP relay DHCP server

Feature		Description
	IP routing	Static routing RIP V1 RIP V2 OSPF IS-IS BGP4 MBGP Policy routing MD5 based OSPF & BGP Authentication
	NAT	NAT PAT NAT server Support ALG : FTP, NBT, ILS, PPTP, DNS, H323, SIP Support multi instance
	AAA	Support Radius Support Huawei-Tacacs Tight Integration with CAMS(Comprehensive Access Management Server)

Feature		Description
QoS	Congestion Avoidance	RED,WRED
	Traffic Shaping	GTS
	Limit Rate	CAR,LR
	Congestion Management	FIFO,PQ,CQ,WFQ,CBQ,LLQ,RTP,
	MPLS QOS	CBQ,CAR
High Availability	VRRP	Support RFC 2338
	Backup center	Support logic link backup physical link
		Support physical link backup physical link Support Load-balancing
	1+1 Power supply	Support 1+1 AC power supply
Support 1+1 DC power supply		
Hot swappable module	Support hot swappable extension module	

Feature		Description
System management	Configuration	<p>Support CLI(Command Line Interface)</p> <p>Support CLI configuration (Console)</p> <p>Support CLI configuration (Telnet)</p> <p>Support CLI configuration (SSH)</p> <p>Support CLI configuration (AUX)</p> <p>Support CLI priority control</p> <p>Support local user authentication database</p> <p>Support user authentication by AAA</p>
	Upgrade	<p>Support file system</p> <p>Support FTP server</p> <p>Support FTP client</p> <p>Support TFTP</p> <p>Support local X-modem upgrade</p> <p>Support on-line Bootrom upgrade</p>

	Feature	Description
	NMS	Support SNMP V1 Support SNMP V2C Support SNMP V3 Support Huawei-3Com Quidview Support RMON
	Maintenance	Detailed alarm/debug information Hierarchical alarms Alarm generation Alarm filtering Support Statistics Supports Ping and Trace route Support Configuration file for backup and restore Support syslog
	NTP	Support NTP V1 Support NTP V2 Support NTP V3

Feature	Description
Environment	Working temperature: 0~40℃ Storage temperature: -10~60℃ Relative humidity: 10%~90%, non-condensing
Input voltage	AC: 100 to 240V 50/60Hz DC: -60 to -48V
Dimensions	436×44×420(mm) (W×H×D)

Application

1 SecPath 1000 realize integration of MPLS and IP VPN line after IPSEC encryption

2 Using IPSEC multi-instance technologies, SecPath1000 can solve same interior address problem of different branches.