Ingate Firewall 2950

The Highest Level of Security for SIP, UC and Your Network - Ingate Firewall

Ingate's enterprise-class Firewalls make secure SIP communications possible – including VoIP, SIP trunking and more — while also protecting the network. They create one truly converged network for both data and VoIP, enabling Unified Communications (UC) with one simple, elegant solution – the Ingate Firewall.

The Ingate Firewall* 2950 is a high capacity, high performance SIP security product made for large enterprises and service providers. The Firewall can handle up to 1,800 concurrent sessions, or simultaneous VoIP calls (RTP sessions), at any given time.

Ingate Firewalls are fully featured, supporting stateful inspection and packet filtering with rules defined and maintained by the network security administrator utilizing the GUI. Ingate Firewalls include an encrypted Virtual Private Network (VPN) termination module. They boast complete SIP support; they also have a proxy for all standard protocols, including TCP, UDP, FTP and DHCP.

ware module, make secure SIP trunking possible by solving Network Address Translation (NAT) traversal, allowing the enterprise to connect to the SIP trunk. They also ease compatibility issues between the IP-PBX and ITSP, ensuring a quick and simple deployment.

Choose the Right Features for Your Network Ingate's add-on software modules allow you to tailor the Ingate Firewalls to meet the specific demands of your business:

- Ingate Remote SIP Connectivity allows remote and mobile workers to work from behind a NATing device at home, a hotel or wireless hotspot and make and receive calls using the PBX located at the corporate headquarters.
- Ingate Enhanced Security allows support for Transport Layer Security (TLS) and encrypted SRTP (Secure Realtime Transport Protocol).
- VoIP Survival allows an enterprise using a CENTREX or hosted PBX solution to fail over to the Ingate, to enable internal calls and redirect outside calls to a local PSTN gateway.
- Quality of Service (QoS) ensures excellent voice quality by setting priorities and allocating bandwidth properly.

The Ingate Advantage

Ingate's standards-based solutions are interoperable with most major suppliers of SIP products. Ingate supports SIP connect, allowing the enterprise to successfully connect to SIP connect-compliant SIP trunking service providers quickly, easily and securely.

Trusted Network Security for VoIP

in Gate

Ingate's SIP proxy architecture grants fully secure traversal of the SIP traffic. Ingate products support Transport Layer Security (TLS) for secure SIP signaling. They also support encrypted SRTP (Secure Realtime Transport Protocol), providing a high level of security for live data with advanced encryption, confidentiality, message authentication and replay protection. When combined, these protocols further shield users from eavesdroppers, hackers and spoofers.

Intrusion Detection System/Intrusion Prevention System (IDS/IPS) has become a crucial security measure for enterprise deployments of SIP. IDS/IPS works in tandem with Ingate's existing security technologies, further strengthening security for VoIP, SIP trunking, Unified Communications and other SIP applications.

Support for SIP Trunking

More and more Internet Telephony Service Providers (ITSPs) offer SIP trunks – a combined Internet and voice connection that delivers exceptional cost-savings and proven ROI in less than a year. Ingate Firewalls, with Ingate SIP Trunking soft-

Why Ingate?

- For secure SIP trunks, secure VoIP, secure network
- SIP normalization: resolving interoperability issues between IP-PBX and ITSP, for simplified installations
- Secure NAT traversal
- Proven, reliable

Technical Specifications Ingate Firewall						
Feature	Ingate Firewall 1190	Ingate Firewall 1510	Ingate Firewall 1560	Ingate Firewall 1660	Ingate Firewall 2950	Ingate Firewall 296
Interfaces (10/100 Mbit/s)	3	0	0	0	0	0
Interfaces (10/100/1000 Mbit/s)	0	4	4	4	6	6
Redundant power supply	No	No	No	No	Yes	Yes
Type of disk	Flash	HDD	HDD	HDD	RAID 1	RAID 1
Dimension WxDxH (mm)	228x146x44	426x365x44	426x365x44	426x365x44	772x426x43	772x426x4
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, U
Performance						,
Throughput (Mbit/s) (1500 byte packets)	50	500	700	900	4 500	4 500
Packets per second (46 byte packets)	6 000	28 500	50 000	90 000	300 000	300 000
VPN tunnels	25	100	200	400	1600	1600
3DES (168) (Mbit/s) (1438 byte packets)	10	45	55	65	130	130
AES (128-bit) (Mbit) (1438 byte packets)	15	60	80	85	270	270
SIP connection set up (SIP+RTP)	0.15s	0.15s	0.15s	0.15s	0.02s	0.02s
RTP data delay (10Mbit/s/100 Mbit/s)	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 r
Number of concurrent calls (20 ms voice packets)	50	150	400	800	1800	3000
Secure VoIP sessions (TLS + SRTP)	20	75	150	330	900	900
Administration						
Automatic check for new releases	Yes	Yes	Yes	Yes	Yes	Yes
Configuration options: Web GUI (HTTP, HTTPS) and CLI (SHH, serial cable)	Yes	Yes	Yes	Yes	Yes	Yes
DHCP client and PPPoE	Yes	Yes	Yes	Yes	Yes	Yes
DHCP server	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes	Yes	Yes
Max number of VLANs (802.1q compliant)	16	32	64	128	512	512
Internal log to HD	No	Yes	Yes	Yes	Yes	Yes
Logging to PCAP file	Yes	Yes	Yes	Yes	Yes	Yes
Syslog	Yes	Yes	Yes	Yes	Yes	Yes
E-mail events	Yes	Yes	Yes	Yes	Yes	Yes
Support for failover multiple ISPs	Yes	Yes	Yes	Yes	Yes	Yes
External RADIUS server authentication for IPsec, GUI and SIP	Yes	Yes	Yes	Yes	Yes	Yes
Unlimited data users	Yes	Yes	Yes	Yes	Yes	Yes
Free software upgrades	First year	First year	First year	First year	First year	First year
Firewall functionality						
Stateful inspection	Yes	Yes	Yes	Yes	Yes	Yes
Packet filtering	Yes	Yes	Yes	Yes	Yes	Yes
DHCP proxy	Yes	Yes	Yes	Yes	Yes	Yes
Proxies for TCP, UDP and FTP	Yes	Yes	Yes	Yes	Yes	Yes
Flexible NAT and PAT	Yes	Yes	Yes	Yes	Yes	Yes
VPN functionality	Vee	Vac	Vaa	Vaa	Vaa	V
X.509 certificate or shared secret Generating of X.509 certificates for clients	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
PPTP server	Yes	Yes	Yes	Yes	Yes	Yes
IPsec (3DES, AES, NULL, MD5 and SHA1)	Yes	Yes	Yes	Yes	Yes	Yes
SIP Functionality	165	165	162	165	162	165
SIP proxy	Yes	Yes	Yes	Yes	Yes	Yes
SIP registrar	Yes	Yes	Yes	Yes	Yes	Yes
SIP traffic to private IP addresses (NAT/PAT)	Yes	Yes	Yes	Yes	Yes	Yes
Billing and authentication of SIP users from an external RADIUS server	Yes	Yes	Yes	Yes	Yes	Yes
SIPconnect compliance	Yes	Yes	Yes	Yes	Yes	Yes
Add-on modules						
SIP Trunking (connecting an IP-PBX to an ITSPs SIP-trunk)	Yes	Yes	Yes	Yes	Yes	Yes
Remote SIP Connectivity (Far-end NAT Traversal incl	Yes	Yes	Yes	Yes	Yes	Yes
STUN-server)	T. Control of the Con					

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QoS (bandwidth limitation and prioritization)

VoIP Survival (VoIP redundance if Internet connection fails)

SIP Registrar (Ingate is used as the primary SIP registrar)

Enhanced Security (SRTP and TLS)



Yes

Yes