



Ingate Firewall®

The Ingate Firewall® fits the needs of enterprises of all sizes to provide full data network security. Coupled with our VPN termination module, Ingate offers secure access from anywhere in the world. Today, many companies are considering the benefits of Voice over IP (VoIP) and Instant Messaging (IM); Ingate products meet the demands of these businesses by supporting Session Initiation Protocol (SIP) – the industry standard for realtime communications – to provide enterprises with maximum flexibility and iron-clad security.

Ingate Firewalls are attractively priced and have no data user restrictions. With Ingate, enterprises can increase their use of SIP-based communications and pay for capacity as the number of users expands.

Ingate Firewalls

Most businesses have a Local Area Network (LAN) with Internet access. To maintain privacy and security on the LAN, it must be protected and separated from the public Internet by a firewall. Ingate Firewalls are installed around the world, successfully protecting the networks of large and small enterprises, government agencies and banks from intruders. Our firewalls are fully featured, supporting stateful inspection and packet filtering with rules defined and maintained by the network security administrator utilizing our graphical user interface. In addition to the basic firewall functions, Ingate also offers an encrypted Virtual Private Network termination module that allows remote workers and travelers to connect to the Local Area Network and utilize all of the services available to their in-house colleagues. A Quality of Service module can also be added to any Ingate Firewall.

Ingate's larger firewalls can support failover if two units are connected with a heartbeat cable. Ingate's firewalls are designed to perform remote configuration updates for all of the firewalls installed throughout an organization.

Ingate offers unlimited firewall user licenses and free software upgrades to provide our customers with the best value in the industry. And, each of our firewall models uses the same robust software, so large enterprises can deploy units of various sizes and configure each one in exactly the same way.

Ingate supports SIP

SIP is the signaling protocol that is becoming for realtime communication what HTTP is for the Web. Now that SIP has become the standard protocol, providers and suppliers are beginning to roll out products and services to support this vision.

Ingate is proud to offer the world's only enterprise firewall with complete support for the SIP protocol. The SIP proxy and SIP registrar that come standard on all Ingate Firewalls enable the seamless, secure traversal of SIP communications with the addition of a single piece of hardware: the Ingate Firewall.

Ingate's SIP proxy and registrar manage registrations, allowing the system to keep track of where to send incoming session requests even on networks using Network Address Translation (NAT). It is also possible to restrict which users are allowed to register and from where. The system administrator can monitor currently registered users at any time.

Ingate Remote SIP Connectivity

For businesses that want to connect with home office workers and road warriors, Ingate® Systems offers Remote SIP Connectivity, an applications module that enables far-flung users to leverage the benefits of realtime communications based on the SIP protocol that are already integrated into the company's network. With Remote SIP Connectivity, employees can enjoy the efficiency of SIP communications no matter where they are: in the office, at home or on the road. This unique module is available as a separate software upgrade for all models and includes a STUN server.



Ingate has a firewall to meet your needs for today and that will support the emerging and exciting trend toward realtime communications. For more information, visit our website at www.ingate.com or write to info@ingate.com.

inGate®
www.ingate.com

Technical Specifications Ingate Firewalls

Feature	Ingate Firewall 1180	Ingate Firewall 1400	Ingate Firewall 1600	Ingate Firewall 1880
Interfaces (10/100 Mbit/s)	3	4	4	4-8
Interfaces (10/100/1000 Mbit/s)	No	No	2	0-8
Redundant power supply	No	No	No	Yes
Flash disc for system operation	Yes	No	No	Yes
Dimension WxDxH (inch)	9"x5,75"x1.75"	19"x10"x1.75"	428,6x360x44	19"x18"x7"
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL
Performance				
Throughput (Mbit/s) (1500 byte packet)	28	150	412	800
Packets per second (46 byte packet)	3500	14500	75000	100000
VPN tunnels	20	100	400	800
3DES (168-bit) (Mbit/s) (1438 byte packet)	6	24	69	100
AES (128-bit) Mbit/s) (1438 byte packet)	9	49	150	230
SIP connection set up (SIP+RTP), time	0.15 s	0.15 s	0.15 s	<0.15 s
RTP data delay (10 Mbit/s, 100 Mbit/s)	0.19/0.08ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms
Number of concurrent RTP sessions	30	180	360	800
Management				
Automatic check for new releases	Yes	Yes	Yes	Yes
WEB GUI	Yes	Yes	Yes	Yes
DHCP client and PPPoE	Yes	Yes	Yes	Yes
DHCP server	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Internal log to HD	No	Yes	Yes	Yes
Syslog	Yes	Yes	Yes	Yes
E-mail events	Yes	Yes	Yes	Yes
Support for multiple DNS servers	Yes	Yes	Yes	Yes
Unlimited data users	Yes	Yes	Yes	Yes
Free software upgrades	First year	Yes	First year	Yes
Purchase of VPN module, unlimited VPN tunnels	Yes	Yes	Yes	Yes
Firewall Functionality				
Stateful inspection	Yes	Yes	Yes	Yes
Packet filtering	Yes	Yes	Yes	Yes
DHCP proxy	Yes	Yes	Yes	Yes
Proxies for TCP, UDP, and FTP	Yes	Yes	Yes	Yes
Flexible NAT and PAT	Yes	Yes	Yes	Yes
QoS (bandwidth limitation and priority)	Yes	Yes	Yes	Yes
Authentication	RADIUS	RADIUS	RADIUS	RADIUS
VPN Functionality				
Authentication algorithms	MD5, SHA1	MD5 SHA1	MD5 SHA1	MD5 SHA1
X.509 certificates	Yes	Yes	Yes	Yes
Generating of X.509 certificates for clients	Yes	Yes	Yes	Yes
IPSec (3DES and AES)	Yes	Yes	Yes	Yes
PPTP gateway	Yes	Yes	Yes	Yes
SIP Functionality				
SIP proxy	Yes	Yes	Yes	Yes
SIP registrar	Yes	Yes	Yes	Yes
SIP traffic in&out without extra proxy	Yes	Yes	Yes	Yes
SIP traffic to private IP addresses (NAT/PAT)	Yes	Yes	Yes	Yes
TLS encryption	Yes	Yes	Yes	Yes
Authentication of SIP users from an external RADIUS	Yes	Yes	Yes	Yes
Max recommended registered SIP users	300	1000	3500	8000
Remote SIP Connectivity				
STUN server	Yes	Yes	Yes	Yes
Far-End NAT traversal (also symmetric NAT)	Yes	Yes	Yes	Yes