



Ingate SIParator 19

Leveling the playing field for smaller enterprises, Ingate® Systems offers the Ingate SIParator® 19, a powerful tool that offers small businesses, branch offices and home workers complete support for IP communications based on Session Initiation Protocol (SIP). With the SIParator 19, these businesses can leverage the same productivity and cost-savings benefits of Voice over IP (VoIP) and other IP-based communications as large corporations.

The SIParator works seamlessly with your existing firewall to allow the flow of the SIP traffic. While traditional firewalls block SIP traffic – including mission-critical applications like VoIP – the SIParator resolves this problem, working in tandem with your current security solutions.

It also solves the Network Address Translation (NAT) traversal issues inherent in SIP communications, and offers both far- and near-end NAT traversal to extend the SIP capabilities within the corporate network to remote workers.

With Ingate products, enterprises can use VoIP and other live communications on the LAN and globally over the Internet or private IP networks.

Ingate SIParator 19

Small and versatile, the Ingate SIParator 19 is perfect for smaller office environments – with no fan; the SIParator is virtually silent, which means there's no need for a separate server room. The management interface for the products is the same Web-based Graphical User Interface that has been cited by Ingate customers and the media for ease-of-use.

Included with the Ingate SIParator 19 are five SIP traversal licenses, allowing up to five calls to traverse at the same time. Additional traversal licenses can be purchased at any time.

All Ingate SIParators are fully featured and can be maintained by the network security administrator utilizing the GUI. Ingate SIParators include an encrypted Virtual Private Network (VPN) termination module. The SIParator 19 can be configured as a part of the DMZ or in a standalone mode. In both cases, the benefits of SIP-based communications can be added to the network quickly and easily.

Trusted Network Security for VoIP

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 Service Providers offer a SIP trunk - a combined Internet and voice connection. For enterprises with an IP-PBX this is an ideal cost-saving solution as they no longer need local PSTN gateways or costly PRIs/BRIs. However, the SIP traffic, as all other data traffic, needs to traverse the enterprise firewall. Ingate SIParator19 handles the firewall and NAT traversal using the built-in SIP proxy.

Choose the Right Features for Your Network

Ingate's add-on software modules allow you to tailor the SIParator 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.

Add Global VoIP Connectivity to your IP-PBX

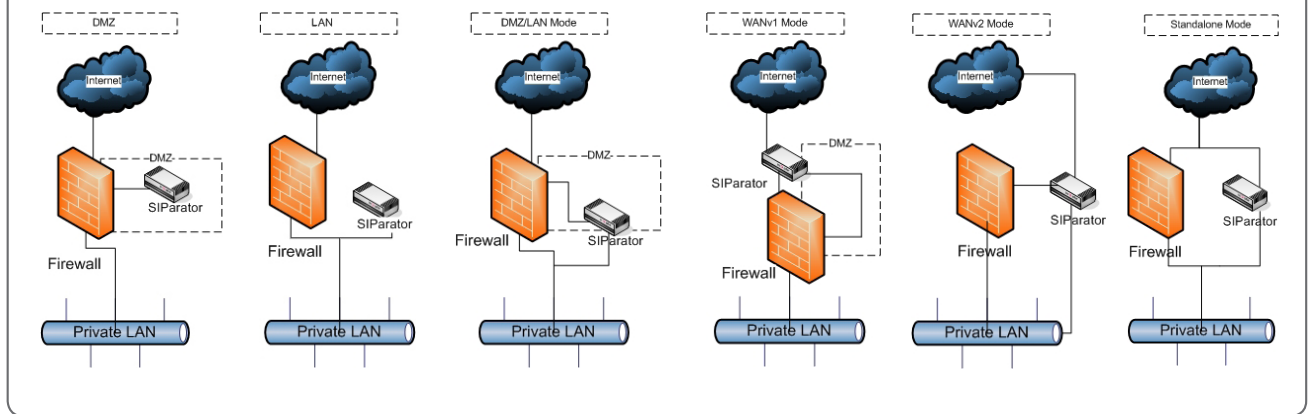
The SIParator 19 opens up a world of possibilities and cost savings when used with a SIP based IP-PBX. Businesses can route telephone calls via IP, not only between branch offices and home workers, but also to offices and other users using SIP-based Internet telephony. No longer limited to telephony voice, communication can also include video, instant messaging, presence and more.

In addition, the SIParator 19 makes it possible for home workers, road warriors and even branch offices to belong to the same central IP-PBX - with the highest level of security. The SIParator also affords the possibility to set up a private VoIP network, if preferred. Advanced IP-PBX functions are supported, including such as call transfer, call hold, and voicemail.

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

Flexible deployment



Technical Specifications Ingate SIPParators

Feature	Ingate SIPParator 19	Ingate SIPParator 51	Ingate SIPParator 56	Ingate SIPParator 66	Ingate SIPParator 95	Ingate SIPParator 96
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	772x426x43
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL
Management						
Automatic check for new releases	Yes	Yes	Yes	Yes	Yes	Yes
Configuration options: Web GUI (HTTP, HTTPS) and CLI (SSH, serial cable)	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes	Yes	Yes
Max numbers of VLANs	16	32	64	128	256	256
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
External RADIUS server authentication for GUI and SIP	Yes	Yes	Yes	Yes	Yes	Yes
Support for multiple ISPs	Yes	Yes	Yes	Yes	Yes	Yes
Free software upgrades	First year	First year	First year	First year	First year	First year
SIP Functionality						
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
SIP Connection set up (SIP + RTP)	0.15 s	0.15 s	0.15 s	0.15 s	0.02 s	0.02 s
RTP data delay (10 Mbps/100 Mbps) network	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 ms
Number of concurrent calls (20 ms voice packets)	50	150	400	800	1800	3000
Concurrent encrypted voice RTP sessions, both transcoding SRTP and TLS. (With Enhanced Security Module)	25	150	400	700	1300	1300
Billing and authentication of SIP users from an external RADIUS	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 STUN-server)	Yes	Yes	Yes	Yes	Yes	Yes
QoS (bandwidth limitation and prioritization)	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced Security (SRTP and TLS)	Yes	Yes	Yes	Yes	Yes	Yes
VoIP Survival (VoIP redundancy if Internet connection fails)	Yes	Yes	Yes	Yes	Yes	Yes
SIP Registrar (Ingate is used as the primary SIP registrar)	Yes	Yes	Yes	Yes	Yes	Yes

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