



Ingate SIParator[®] 18

Leveling the playing field for smaller enterprises, Ingate[®] Systems offers the Ingate SIParator[®] 18, 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 18, 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 18

The Ingate SIParator 18 has three ports and offers a 30 Mbit/s throughput. Small and versatile, the 18 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 (GUI) that has been cited by Ingate customers and the media for ease-of-use.

Included with the Ingate SIParator 18 are ten SIP user licenses that can be used for the registration of SIP users on the built-in SIP registrar. Five SIP traversal licenses are also included, allowing up to five calls to traverse at the same time. Additional SIP user and 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 18 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.

Choose the Right Features for Your Network

Ingate offers several add-on software modules that allow you to tailor the SIParators to meet the specific demands of your business. Ingate Quality of Service (QoS) sets priorities to different kinds of data and allocates bandwidth for varied purposes – for instance, giving priority to VoIP.

Ingate Remote SIP Connectivity extends the SIP capabilities of the enterprise to employees working remotely (home office workers, road warriors, etc.). Remote SIP Connectivity manages the traversal of the remote NAT from a central place and also includes a STUN server. Ingate VoIP Survival software module adds a whole new dimension to the hosted VoIP service by securing full redundancy in a SIP-based hosted IP-PBX environment all the way out to the customer premise. It serves as a customer premise backup to enhance the reliability and availability of a VoIP application platform.

Add Global VoIP Connectivity to your IP-PBX

The SIParator 18 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 18 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.

Do More with Microsoft LCS 2005

Adding value to Microsoft Live Communications Server (LCS) 2005, Ingate SIParators allow voice and video applications to work outside the LAN. In addition, Ingate makes LCS available to mobile users through Remote SIP Connectivity.

Trusted Network Security for VoIP

The Ingate SIParator SIP Proxy architecture grants fully secure traversal of the SIP traffic. The ports for the media streams are only opened between the specific parties of a call and only for the duration of the call. The SIP proxy inspects the SIP packets before sending them on. TLS encryption ensures privacy when communicating, making call eavesdropping, call hijacking and call spoofing harder to do. Ingate also supports authentication of users and servers.

Free Software Upgrades for the First Year

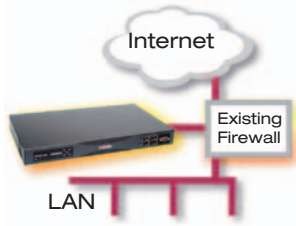
The Ingate SIParator 18 has no data user restrictions. Software upgrades are free for the first year. Thereafter, an annual licensing fee will apply. New software versions can be downloaded quickly and easily online from the Ingate website.

For more information, visit us at www.ingate.com or write to info@ingate.com.

inGate[®]

www.ingate.com

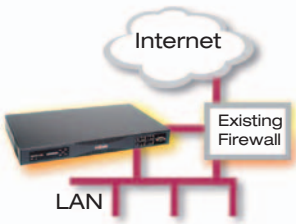
Configuration 1: DMZ



Configuration 1: DMZ

The Ingate SIPParator connects to the existing firewall through the DMZ interface. All traffic will pass through the existing firewall. This configuration requires that a static range of UDP and TCP ports are opened between the Internet and the SIPParator and between the SIPParator and the LAN. SIP clients on the LAN need to have the SIPParator defined as their outgoing proxy or be referred to it *via* DNS. The firewall continues to control security, but SIP traffic is routed to the LAN only through the SIPParator.

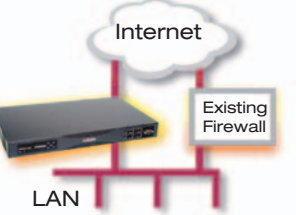
Configuration 2: DMZ/LAN



Configuration 2: DMZ/LAN

The Ingate SIPParator connects to the DMZ of the existing firewall and to the LAN. This means that SIP traffic and media streams only have to pass through the existing firewall once (or not at all for all calls inside the office). A static range of UDP and TCP ports needs to be opened in the firewall between the Internet and the SIPParator. SIP clients on the LAN need to have the SIPParator defined as their outgoing proxy or be referred to it *via* DNS.

Configuration 3: Standalone



Configuration 3: Standalone

The Ingate SIPParator connects to both the LAN and the Internet, operating entirely in parallel with the existing firewall. The SIPParator will only handle SIP signaling and media streams; everything else will pass through existing firewall. This setup has no requirements for the existing firewall and requires no configuration changes. SIP clients on the LAN need to have the SIPParator defined as their outgoing proxy or be referred to it *via* DNS.

In all configurations the SIPParator requires a public IP address.

Technical Specifications Ingate SIPParators

Feature	Ingate SIPParator 18	Ingate SIPParator 45 and 45+	Ingate SIPParator 60	Ingate SIPParator 88
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 (mm)	228x146x44	426x280.5x44	428,6x360x44	482,6x460x177
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL
Management				
Automatic check for new releases	Yes	Yes	Yes	Yes
WEB GUI	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes
Max numbers of VLANs	16	32 and 64	128	256
Internal log to HD	No	Yes	Yes	Yes
Logging to PCAP file	Yes	Yes	Yes	Yes
Syslog	Yes	Yes	Yes	Yes
E-mail events	Yes	Yes	Yes	Yes
Support for multiple ISP's	Yes	Yes	Yes	Yes
Free software upgrades	First year	First year	First year	Yes
SIP Functionality				
SIP proxy	Yes	Yes	Yes	Yes
SIP registrar	Yes	Yes	Yes	Yes
SIP traffic to private IP addresses (NAT/PAT)	Yes	Yes	Yes	Yes
TLS encryption	Yes	Yes	Yes	Yes
SIP Connection set up (SIP + RTP)	0.15 s	0.15 s	0.15 s	0.15 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
Number of concurrent RTP sessions	30	150 and 240	500	800
Max concurrent encrypted RTP sessions (both for signalling and media)	15	100 and 150	240	400
Registered SIP users licenses included	10	10	50	50
Registered SIP traversal licenses included	5	5	25	25
Billing and authentication of SIP users from an external RADIUS	Yes	Yes	Yes	Yes
Encrypted RTP media for Microsoft Windows Messenger	Yes	Yes	Yes	Yes
Remote SIP Connectivity				
STUN server	Yes	Yes	Yes	Yes
Far-End NAT traversal (also symmetric NAT)	Yes	Yes	Yes	Yes

Ingate 20051028