



# Ingate<sup>®</sup> Systems -

## Bringing SIP to the Enterprise

Enterprise firewalls and Network Address Translators (NATs) perform important functions, providing security for communications applications. For companies wishing to adopt SIP-based Voice Over IP (VoIP) communications, however, they can pose a problem by blocking SIP-based traffic along with unwanted traffic. How can companies allow the flow of SIP traffic while maintaining high security?

Ingate Systems meets this need with the Ingate Firewall<sup>®</sup> and Ingate SIParator<sup>®</sup> families of products.

### Enabling SIP Communications

Firewalls are required to make the Local Area Network (LAN) private and not part of the public Internet. They block unwanted access and generally prohibit inbound traffic. In addition, the shortage of IP addresses has led to the need for NATs, which allow the use of many private IP addresses behind a single public IP address.

Although they perform important functions, firewalls and NATs (often combined into a single product) create several problems for the SIP protocol. Most firewalls on the market will not let SIP-based traffic through, since they do not know which ports to open for the media. For security reasons, a large range of ports cannot be left open at all times. Also the private IP address of the recipient SIP user is unknown to those outside the firewall.

Ingate Firewalls solve these problems, allowing SIP-based communications while preventing unauthorized access. They sit on the edge of the network and protect, monitor and manage all types of data packets, including SIP.

The Ingate SIParator is a device that connects to an existing network firewall to seamlessly enable the traversal of SIP communications without the need for replacing the existing firewall.

Both product lines solve protocol problems by allowing NAT traversal of SIP-based communications. Ingate's wide range of security products are priced for businesses of any size, on any budget.

### Ingate VPN

Allowing employees the ability to work from home or on the road increases productivity and reduces time lost due to absences. Ingate VPN enables secure encrypted connections between authorized offsite computers and office networks.

Ingate VPN uses IPSec, 3DES or AES encryption ensuring maximum security and can communicate with any VPN clients, firewalls and other products supporting IPSec and IKE protocols. Ingate VPN can be obtained as an extension module for Ingate Firewalls.



Ingate Firewalls are available in four models: 1200, 1400 and 1800/1880.

Ingate SIParators are available in four models: SIParator 20, 40 and 80/88.

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[www.titan-tech.net](http://www.titan-tech.net)

## Ingate Remote SIP Connectivity

Need to connect home office workers and road warriors to your business? Ingate offers Remote SIP Connectivity, an applications suite that enables far-flung users to leverage the benefits of SIP-based communications already integrated into the company's network.

Ingate's Remote SIP Connectivity is the only product available today that delivers far-end NAT traversal from within the firewall itself, managing the traversal of the remote residential firewall or the NAT device from a central location. This unique module is available as a separate software upgrade for all models and includes a STUN server

## Features of all Ingate Products

Ingate Firewalls and SIParators are easy to install and configure. All products share features that enable SIP-based communication.

### SIP Proxy

The SIP proxy inspects all SIP signalling, and ports for the media streams are only opened between the specific parties of the call and only for the duration of the call. All Ingate products also support authentication, encrypted signalling and other security methods available in the SIP protocol.

### SIP Registrar

A record-keeper that logs the location of every SIP device on the private network. This means that the SIP Registrar can direct incoming and outgoing traffic to the correct device, while still hiding private IP addresses from the outside.

### SIP ALG

Provides the NAT traversal function, associating the private IP addresses with SIP user names and rewriting the headers so they reach the destination end-point.

## About Ingate® Systems

A world leader in next generation firewall technology, Ingate Systems produces and sells the world's only fully SIP-capable enterprise firewalls and the Ingate SIParator®, a device that connects to an existing network firewall to seamlessly enable the traversal of SIP communications and winner of *Internet Telephony* magazine's Product of the Year Award in 2002 and again in 2003. Ingate Systems has a long history of developing secure communications technology and today offers enterprises unprecedented value and ability to develop SIP-based, person-to-person realtime communications. Ingate's security products currently protect the networks of retail companies, financial institutions, industrial firms, government agencies and small-to-large enterprises throughout Europe, Asia and North America. Ingate's principal shareholders are Intertex Data AB and Bell Net Corp. Ingate Systems AB is located in Stockholm and Linköping, Sweden. Its wholly-owned subsidiary, Ingate Systems Inc., is located in Hollis, New Hampshire.

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