

# Ingate E-SBC

## Ingate SIParator®

### – The Secure Enterprise Session Border Controller

**Adopting SIP is a simple process with the Ingate SIParator®, the secure enterprise session border controller (E-SBC). The SIParator makes secure SIP communications – including VoIP, SIP trunking and more – possible while working seamlessly with your existing network firewall. Harness the benefits of Unified Communications while maintaining current investments in security technology with Ingate's proven, cost-effective SIParator.**

The Ingate SIParators® are enterprise session border controllers (E-SBCs) made for small to large enterprises and service providers. They provide a secure solution for bringing SIP into the network. Traditional firewalls block SIP communications; the SIParator works with existing SIP-unaware firewalls to allow and secure SIP traffic, while leaving your existing security infrastructure in place.

Available in a range of sizes, Ingate's security products offer unprecedented value to enterprises adopting SIP.

Ingate's award-winning SIParators are fully featured, supporting stateful inspection and packet filtering with rules defined and maintained by the network security administrator utilizing the GUI. Ingate SIParators 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.



#### 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 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 SIParators, with Ingate SIP Trunking software 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 SIParator to meet the specific demands of your business:

- Ingate Remote SIP Connectivity allows remote and mobile workers to work from behind a NAT-ing 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.

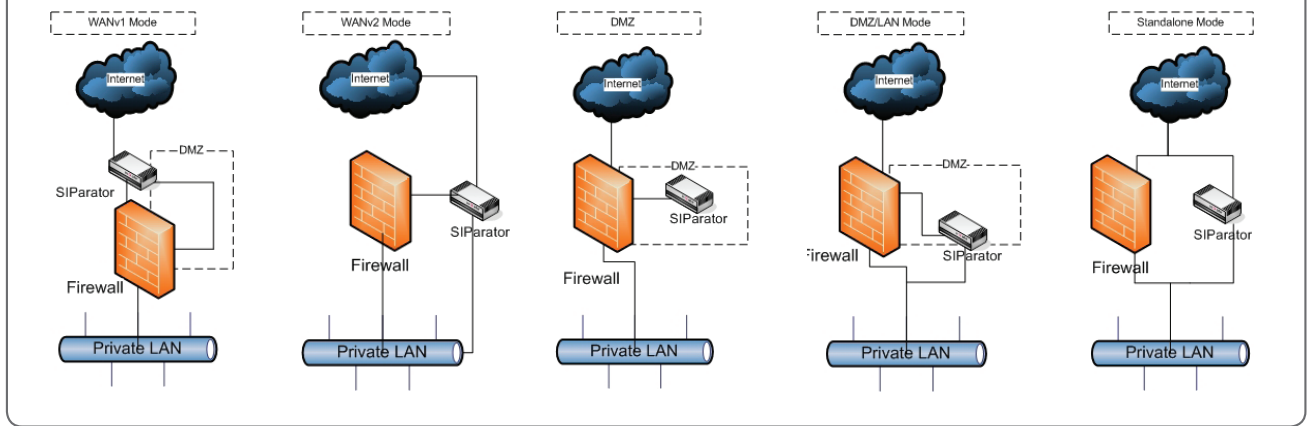
#### The Ingate Advantage

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

#### 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 SIParators

| Feature  | Ingate SIParator 21 | Ingate SIParator 51 | Ingate SIParator 56 | Ingate SIParator 66 | Ingate SIParator 95 | Ingate SIParator 96 | Ingate SIParator 97 |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Interfaces (10/100/1000 Mbit/s)  | 4                   | 4                   | 4                   | 4                   | 6                   | 6                   | 6                   |
| Redundant power supply   | No                  | No                  | No                  | No                  | Yes                 | Yes                 | Yes                 |
| Type of disk   | Compact Flash       | HDD                 | HDD                 | HDD                 | RAID 1              | RAID 1              | RAID 1              |
| Dimension WxDxH (mm)   | 300x145x44          | 426x365x44          | 426x365x44          | 426x365x44          | 426x772x43          | 426x772x43          | 434x700.5x42.8      |
| Certifications   | CE, FCC, UL         | CE, FCC, UL         | CE, FCC, UL         | CE, FCC, UL         | CE, FCC, UL         | CE, FCC, UL         | CE, FCC, UL         |
| Power consumption (typical)  | 25 W                | 100 W               | 100 W               | 100 W               | 200 W               | 200 W               | 200 W               |
| Power supply 100 – 240 VAC, 50-60 Hz   | External            | Internal            | Internal            | Internal            | Internal            | Internal            | Internal            |
| Automatic check for new releases   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Management/Configuration options:<br>Web GUI (HTTP, HTTPS)<br>and CLI (SSH, serial cable)                      | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| SNMP V2, V3  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Max numbers of VLANs   | 16                  | 32                  | 64                  | 128                 | 256                 | 256                 | 256                 |
| Internal log to HD   | No                  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Logging to PCAP file   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Syslog   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| E-mail events  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| External RADIUS server authentication<br>for GUI and SIP   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Support for multiple ISPs  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Free software upgrades   | First year          | First year          | First year          | First year          | First year          | First year          | First year          |
| <b>SIP Functionality</b>   |                     |                     |                     |                     |                     |                     |                     |
| SIP proxy  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| SIP registrar  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| SIP traffic to private IP addresses<br>(NAT/PAT)   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| SIP Connection set up (SIP + RTP)<br>max calls/s   | 15                  | 30                  | 30                  | 30                  | 50                  | 50                  | 75                  |
| RTP data delay<br>(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        | 0.19/0.08 ms        |
| Max number of concurrent calls<br>(20 ms voice packets)  | 50                  | 150                 | 400                 | 1000                | 1800                | 3000                | 8000                |
| Concurrent encrypted voice RTP sessions,<br>both trans-coding SRTP and TLS.<br>(With Enhanced Security Module) | 50                  | 150                 | 400                 | 700                 | 1300                | 1300                | 4000                |
| Billing and authentication of SIP<br>users from an external RADIUS   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| <b>Add-on modules</b>  |                     |                     |                     |                     |                     |                     |                     |
| SIP Trunking (connecting an IP-PBX to<br>an ITSPs SIP-trunk)   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Remote SIP Connectivity<br>(Far-end NAT Traversal incl STUN-server)  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| QoS (bandwidth limitation and<br>prioritization)   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| Enhanced Security (SRTP and TLS)   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| VoIP Survival (VoIP redundancy if Internet<br>connection fails)  | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |
| SIP Registrar (Ingate is used as the primary<br>SIP registrar)   | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 | Yes                 |

\*IX78 is only for Service Provider Volume Deployment.

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