



## Enterprise Session Border Controllers (E-SBCs)

- Ingate SIParator® / Firewall®
- Ingate Software SIParator® / Firewall®

### Product Family

SIParator/Firewall S22  
800 Calls maximum\*



SIParator/Firewall S42/82  
2000/4000 Calls maximum\*



SIParator/Firewall S95/S97/S98  
4000/8000/20000 Calls maximum\*



Software SIParator/Firewall  
Calls maximum: As much as the hardware supports  
For x86 virtual machines and for the clouds.



\* Calls = Concurrent RTP Sessions, SIP Trunks, 20 ms G.711 packets



### Why Ingate?

- Cost-effective
- Ease of installation
- Scalable 1-20,000 sessions
- Firewall and NAT traversal
- SIP and SIP media routing
- WebRTC media (ICE lite)
- Q-TURN server (patented)
- Quality of Service (QoS)
- SIP normalization and repair
- Support for remote workers
- Security, firewall
- Interoperability
- Diagnostics
- Proven, reliable

**In More Than 10,000 Installations Worldwide**  
Ingate makes it easy to connect SIP trunks to PBXs, Unified Communications (UC) solutions and call centers.

# Functions and Features

## The Enterprise Session Border Controller For Your Network

The **Ingate SIParator®** is a powerful, flexible and cost-effective E-SBC for SIP connectivity, security and interoperability, such as connecting PBXs and Unified Communications (UC) solutions to SIP trunking service providers.

The **Ingate Firewall®**, which is always included in the product, makes the Ingate SIParator an all-in-one appliance for data security as well as the E-SBC.

**Ingate Software SIParator/Firewall** is a software deliverable for virtual machines and for the cloud (Amazon Web Services, Microsoft Azure, OpenStack and Google Cloud Platform).

**Ingate's SIP Trunking Startup Tool** configures the SIParator in three easy steps.

## Feature Summary of the Ingate SIParator/Firewall®

### SIP Security Features

- Topology hiding
- Authentication against a RADIUS server or local database
- Access control
- Intrusion Detection System / Intrusion Protection System
  - Denial of Service and Distributed Denial of Service attacks
  - Malformed message attacks
  - RTP session hijacking
  - SIP spam (SPIT)
- Signaling Encryption interworking: UDP/TCP/TLS/SIP over WSS/SIP over VPN (in any combination)

### SIP Functions

- SIP proxy
- B2BUA on a per call basis
- SIP Registrar
- PBX and ITSP interoperability
- Load balancing of SIP traffic
- DNS override for SIP requests
- Strict SIP parser
- Dynamic port opening/closing, controlled by SIP proxy
- Maintains the state of all sessions and rejects all unrelated SIP packets
- Header manipulation and regular expressions
- HTTP requests from Dial Plan
- IPv4, IPv6 support
- WebRTC SIP over WSS, Media DTLS-SRTP/ICE
- TURN and Q-TURN server

### Quality of Service (QoS)

- Classification and Prioritization
- Bandwidth limitation
- DSCP (diffserv)

### VPN Functionality

- IPSec
- PPTP (server)
- Certificate/PSK(shared secret)/XAUTH(user, password)

### Firewall/Routing

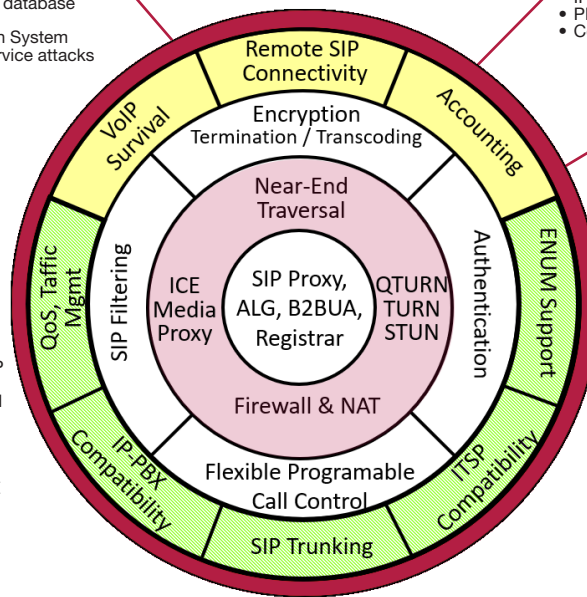
- Stateful inspection
- Packet filtering
- Provides flexible NAT and PAT
- Dynamic port forwarding
- IPv4, IPv6 relays

### Monitoring and Diagnostics

- SNMP
- Internal logging to HD
- Logging to PCAP file
- Syslog
- Automatic check for new releases
- Monitoring using SIP OPTIONS

### Media

- Dynamic port opening/closing, controlled by SIP proxy
- Media Encryption interworking RTP/SRTP/DTLS-SRTP
- Transcoding between any of: PCMU, PCMA, G722 and G729A, OPUS and SILK



## Bringing Global SIP Communications to the Private Network

Ingate SIParators are enterprise session border controllers (E-SBCs) made for small to large enterprises and service providers to provide a secure solution for bringing SIP into the private network. Traditional firewalls block SIP communications or if opened, compromise security and/or don't provide full quality for IP telephony and UC communications. The SIParator works with existing SIP-unaware firewalls to allow and secure SIP traffic, maintaining the existing security infrastructure.

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

Ingate's award-winning SIParators also include a fully featured stateful inspection and packet filtering enterprise firewall. The SIParator, in addition to its SIP functionality, can also be used as the enterprise's main firewall. The built-in firewall also provides a complete and secure environment for the SIParator functions and customer services, all in one and the same product.

Firewall and NAT (Network Address Translation) traversal and SIP security are fundamental functions of an E-SBC. SIP, like all real-time communication protocols, is blocked by firewalls, not being aware of SIP signaling and media. The SIParator's SIP proxy routes the SIP traffic and opens media ports in the built-in NAT/firewall to securely deliver calls to

the protected enterprise LAN.

The SIParator connects any type of ITSP's SIP trunk, managed like MPLS or over the public Internet, and also connects home workers and road warriors. Ingate's FENT (Far End NAT Traversal) function connects SIP phones and soft clients behind remote NAT/firewalls.

## Trusted Network Security for VoIP and Unified Communications

Ingate's SIP proxy architecture grants fully secure NAT/firewall traversal of the SIP traffic, so does its ICE support, using STUN and TURN for client based NAT/firewall traversal.

The SIParator's enhanced security can handle and add TLS (Transport Layer Security) as well as WSS (Web Socket Secure) for secure SIP signaling. It also supports and transcodes SRTP (Secure Real-Time Transport Protocol, both SDES-SRTP and DTLS-SRTP) for encrypted voice and video. The high level of security and confidentiality further includes authentication and replay protection and other firewall means to shield users from eavesdroppers, hackers and spoofers and protect against theft of service.

SIP IDS/IPS (Intrusion Detection System/Intrusion Prevention System) works in tandem with Ingate's existing security technologies, further strengthening security for VoIP, SIP trunking, UC and other SIP applications.

# Functions and Features

## Diagnostics, Troubleshooting and Monitoring

The SIParator has extensive logging and diagnostic features, to ease troubleshooting and resolve problems quickly. It can also directly generate PCAP traces, allowing more extensive analyses with WireShark and similar tools. There is a built-in test agent that can schedule calls and assess MOS scores.

The voice quality of calls can be monitored and reported via RADIUS, including packet loss, jitter, delay and MOS score.

## Reliability, Load Balancing and High Availability Failover

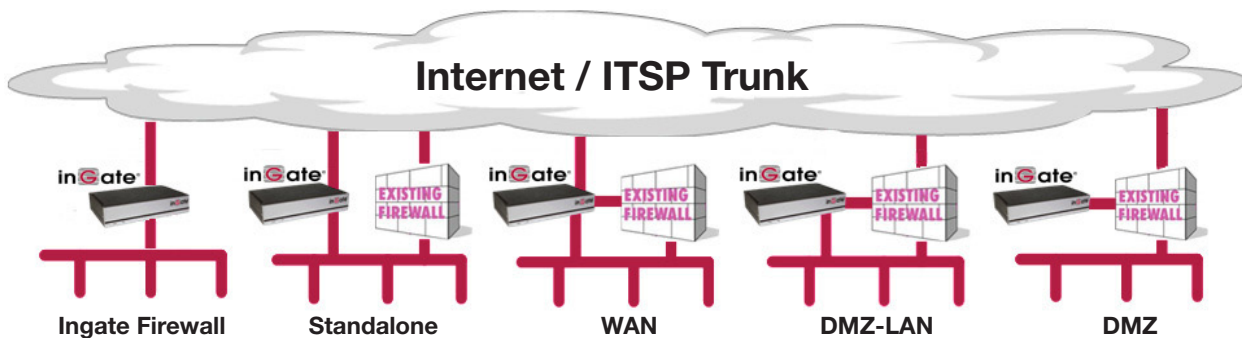
The SIParator fully supports load balancing and failover using

DNS SRV and speeds up failover by monitoring SIP servers.

In addition, the SIParators can be used in failover pairs. By synchronizing long time states and allowing the idle device to take over at the Ethernet level, this failover method also protects against software faults, since it directly allows dropped calls to be setup freshly again. The largest Ingate E-SBC servers (S95/S97/S98) are highly protected against hardware failure with redundant dual power supplies and RAID 1 hard disks. The powerful Ingate desktop models (S22/S42/S82) manages 800/2000/5000 concurrent calls and can also be used in failover pairs. All models except the S22 allow permanent continuous logging to internal hard disk for monitoring.

## Flexible Network Deployment Scenarios

The Ingate SIParator/Firewall can be implemented in various ways to fit the customer network:



QoS (voice quality over data-crowded accesses) is provided by the SIParator. DMZ-LAN & DMZ modes also require QoS setup in existing firewall.

## Software Modules and Licenses

**SIP Trunking** allows over 100 trunk groups and configures the SIP trunk between IP-PBXs and SIP trunking services in three easy steps. Licenses for the number of concurrent calls needed over a particular trunk group are easily added. The Back-to-Back User Agent (B2BUA) brings extensive SIP normalization for interoperability and a dial plan including support for regular expressions, header manipulation, prefix addition / removal and much more.

**Remote SIP Connectivity** lets remote workers leverage the benefits of Unified Communications by performing Far-End NAT Traversal (FENT) to allow home workers and road warriors to use their SIP clients behind well-behaved remote NATs and firewalls. One simply adds the number of Remote User SIP Session licenses needed.

**Quality of Service (QoS)** prioritizes voice and video traffic and allocates bandwidth to assure the highest voice quality, undisturbed by data traffic. This is a standard feature and also

enables computation and reporting of Mean Opinion Scores (MOS) and other voice quality metrics on a per call basis.

**Ingate VoIP Survival** is another standard feature, allowing an enterprise using a hosted PBX solution to fail over to the Ingate, to enable internal calls and redirect outside calls to a local PSTN gateway.

**SIP Registrar** user licenses make the Ingate SIParator or Firewall the primary registrar server and permits SIP clients to register.

**TURN and Q-TURN** are now standard features with a capacity shared among all calls through the SIParator (the total number of licenses for concurrent sessions). Q-TURN is Ingate's patented technology for a TURN server between the LAN and the WAN, allowing prioritized real-time traffic separated from data traffic often congesting the Internet access. The TURN server can also be used stand alone for a service provider's users and works with WebRTC and other real-time protocols using ICE/STUN/TURN.

## The Ingate Advantage

**For enterprises**, Ingate provides for a seamless transition to SIP and Unified Communications globally. Ingate enables fast, simplified deployments with controlled firewall border traversal, for quality and security.

**For service providers**, Ingate products offer a high-quality, reliable SIP trunk demarcation point between the customer's IP-PBX and the service provider network. Placed at the customer network edge (locally as a CPE, at the service provider or in the cloud), Ingate provides secure firewall traversal, interoperability, diagnostics and security to simplify SIP trunk deployments whether over a managed connection or the public Internet.

**Flexible and advanced Call Control REST API**, for adding and extending various service provider, contact center and PBX features and functions. The configurable API allows integration with external web services during call processing, by HTTP commands modifying the SIP requests being processed.



# Ingate's Flexible Products and Solutions

## Ingate Software SIParator® / Firewall®

Ingate's SBC, the SIParator® / Firewall® is available as one of six hardware products or as various software variants for virtualized x86 hardware (for your own or for clouds). The customer selects which is best for the application, depending on the service, VoIP, UC and security equipment involved.

The Software SIParator®/Firewall® has complete feature parity with Ingate's SBC hardware products. The Software SIParator®/Firewall® is delivered as an ISO file that runs on all major commercial hypervisors.

Like all Ingate SBCs, the Software SIParator®/Firewall® makes secure SIP-based communications – including VoIP, SIP Trunking and Unified Communication (UC) – possible. With Ingate's Software SIParator SBC you can harness the benefits of secure real-time communication without introducing new hardware products.

The Ingate Software SIParator® / Firewall® is the ideal solution for carriers, IP-PBX vendors, system integrators, and all customers that want to deploy the SIParator on virtual x86 machines, typically on COTS (Commercially Off The Shelf) servers.

## Ingate Cloud SIParator® / Firewall®

If the VoIP, WebRTC, UC or real-time applications have components in a commercial cloud, it may be beneficial (or necessary) to deploy the Ingate SIParator SBC in the same cloud. The Ingate Cloud SIParator® / Firewall® is now available for Amazon Web Services (AWS Marketplace) for Microsoft Azure, OpenStack and Google Cloud Platform.



Ingate's SIParator for the commercial cloud platforms is a software version of Ingate's SIParator, specially customized for each of the cloud platforms.

Like all Ingate's SBCs the Ingate Cloud SIParator/Firewall, is a key component to build secure SIP-based communications - including VoIP, RTC, SIP Trunking and UC.

Ingate's SIParator is – contrary to many other SBCs - a real-time session (RTS) firewall and router for both signaling and media, handling both front end and back end SBC needs in the same device and only pulling media into the cloud when required.



## Ingate SIParator® / Firewall® S22

The S22 model is a small fan less (silent) desktop device, but still capable of handling 800 simultaneous calls. It was recently introduced and has a new rack mounting kit option, now being a tray where two S22 (if needed) can be mounted side by side, occupying only 1U space.



## Ingate SIParator® / Firewall® S42/S82

These midrange desktop models with hard disks for permanent logging and monitoring, replace Ingate's classic S5x server type models and comes standard with "ears" that can be used for both 19" rack mounting and for wall mounting.



The S42/S82 have two SFP+ 1/10 Gbps network ports, for fiber and direct access cables as standard and the S82 has very high capacity.

## Ingate SIParator® / Firewall® S95/S97/S98

The Ingate SIParator®/Firewall® S95/S97/S98 are high capacity, high performance SBCs designed for large enterprises, call centers and service providers, and can handle up to 20,000 concurrent calls (RTP sessions). This server line comes with dual redundant power supplies and hard disks for very high reliability.

### Optional Power Over Ethernet for the S42 and S82

On special request, the S42 and the S82 models can be equipped with Power Over Ethernet to feed local VoIP phones.

### Wireless WiFi and LTE Additions for Volume Projects

Upon request, for volume projects, Ingate can add WiFi modules for the LAN side of the S22, S42 and S82 models. For the WAN side connection, the S42 and S82 models can be equipped with a 4G/LTE wireless module.

Since 2001, Ingate® Systems has been developing firewall technology to enable SIP-based communication to provide the best access for telephony, global real-time and unified person-to-person communication. Ingate offers enterprises, service providers and carriers elegant solutions for SIP trunking and trusted real-time communications beyond the LAN. Ingate products are used by retail companies, financial institutions, industrial firms, government agencies, call centers and small-to-large enterprises throughout Europe, Asia and North America.

# Technical Specifications Ingate SIParator® / Firewall®

| Feature  | Ingate SIParator S22             | Ingate SIParator S42             | Ingate SIParator S82             |
|--|----------------------------------|----------------------------------|----------------------------------|
| Interfaces 10/100/1000 Mbps Ethernet   | 4                                | 6                                | 6                                |
| Interfaces 1/10 Gbps DA/SFP+ optical   | No                               | 2                                | 2                                |
| DISK:  | SATA DOM SDD                     | 500 GB                           | 500 GB                           |
| Dimension WxDxH  | 180x132x34 mm                    | 250x252x44 mm                    | 250x252x44 mm                    |
| Rack Mounting Kit  | Optional tray for 2 units        | Rack ears included               | Rack ears included               |
| Certifications   | CE, FCC, UL, CB                  | CE, FCC, UL, CB, AS/NZS          | CE, FCC, UL, CB, AS/NZS          |
| Power consumption (typical)  | 10W                              | 20W                              | 30W                              |
| External power supply 100 – 240 V AC   | 12 V DC, 2 A                     | 12 V DC, 5.4 A                   | 12 V DC, 5.4 A                   |
| Management/Configuration options: Web GUI (HTTP, HTTPS), CLI (SSH, serial cable) and HTTP Rest API | Yes                              | Yes                              | Yes, also IPMI port              |
| SNMP, V1, V2, V3   | Yes                              | Yes                              | Yes                              |
| VLAN Support   | Yes                              | Yes                              | Yes                              |
| Internal log to HD   | No                               | Yes                              | Yes                              |
| Logging to PCAP file   | Yes                              | Yes                              | Yes                              |
| Syslog   | Yes                              | Yes                              | Yes                              |
| Support for failover multiple ISPs   | Yes                              | Yes                              | Yes                              |
| Failover to secondary inactive device  | Yes                              | Yes                              | Yes                              |
| External RADIUS server authentication for IPsec, GUI and SIP                                       | Yes                              | Yes                              | Yes                              |
| Free software upgrades, incl. with Support   | Yes                              | Yes                              | Yes                              |
| <b>Firewall functionality*</b>   |                                  |                                  |                                  |
| Stateful inspection  | Yes                              | Yes                              | Yes                              |
| Packet filtering   | Yes                              | Yes                              | Yes                              |
| Throughput (Mbit/s) (1500 byte packets)  | 400                              | 1000                             | 1000                             |
| Packets per second (46 byte packets)   | 50 000                           | 250 000                          | 250 000                          |
| DHCP client and PPPoE  | Yes                              | Yes                              | Yes                              |
| DHCP server  | Yes                              | Yes                              | Yes                              |
| DHCP proxy   | Yes                              | Yes                              | Yes                              |
| Proxies for TCP, UDP and FTP   | Yes                              | Yes                              | Yes                              |
| Flexible NAT and PAT   | Yes                              | Yes                              | Yes                              |
| <b>VPN functionality</b>   |                                  |                                  |                                  |
| VPN tunnels  | 100                              | 600                              | 600                              |
| 3DES (168) (Mbit/s) (1438 byte packets)  | 20                               | 50                               | 50                               |
| AES (128-bit) (Mbit) (1438 byte packets)   | 30                               | 100                              | 100                              |
| X.509 certificate, shared secret or XAUTH  | Yes                              | Yes                              | Yes                              |
| Generating of X.509 certificates for clients   | Yes                              | Yes                              | Yes                              |
| PPTP server  | Yes                              | Yes                              | Yes                              |
| IPsec (IKEv1 and IKEv2)  | Yes                              | Yes                              | Yes                              |
| <b>SIP functionality</b>   |                                  |                                  |                                  |
| SIP proxy  | Yes                              | Yes                              | Yes                              |
| SIP registrar  | Yes                              | Yes                              | Yes                              |
| SIP traffic to private IP addresses (NAT/PAT)  | Yes                              | Yes                              | Yes                              |
| SIP Connection set up, max calls/s   | 40                               | 60                               | 60                               |
| RTP media packet delay (+ at transcoding packets)  | 0.02-0.07 ms (+ voice packet ms) | 0.02-0.07 ms (+ voice packet ms) | 0.02-0.07 ms (+ voice packet ms) |
| Number of concurrent calls (20 ms G.711 voice packets)   | 800                              | 2000                             | 4000                             |
| Secure VoIP (TLS+SRTP) transcoding sessions  | 550                              | 1100                             | 2200                             |
| Media Transcoding (G.722, G.729, G.711; OPUS, SILK; PCMA and PCMU): Max transcoding sessions       | 125; 50; 300                     | 250; 100; 600                    | 500; 200; 1200                   |
| Billing and authentication of SIP users from an external RADIUS server                             | Yes                              | Yes                              | Yes                              |
| <b>Add-on licenses</b>   |                                  |                                  |                                  |
| Concurrent Calls SIP Session Licenses (CCS), multiple trunk groups                                 | Yes                              | Yes                              | Yes                              |
| Remote User SIP Session Licenses (RUS), can be added for the number of users needed.               | Yes                              | Yes                              | Yes                              |
| SIP Registrar User Licenses (SRU), can be added for the number of clients needed.                  | Yes                              | Yes                              | Yes                              |

<sup>1</sup>Transcoding sessions are doubled if unit is equipped with two CPUs.

\* The Firewall functions in the SIParator/Firewall product are hidden by default — can be reconfigured to be available.

Ingate Firewall® and Ingate SIParator® are registered trademarks of Ingate Systems.

# Technical Specifications Ingate SIParator® / Firewall®

| Feature  | Ingate SIParator S95          | Ingate SIParator S97                                    | Ingate SIParator S98                                     | Ingate Software SIParator   |
|--|-------------------------------|---|--|---|
| Interfaces 10/100/1000 Mbps Ethernet, (10 Gbps DA/ SFP+ optical optional)                          | 6 (2 optional 10 Gbps)        | 6 (2 optional 10 Gbps)                                  | 6 (2 optional 10 Gbps)                                   | <b>For x86 VM &amp; Cloud Platforms:</b><br>Amazon Web Service (AWS) Marketplace<br>Microsoft Azure<br>OpenStack<br>Google Cloud Platform |
| Redundant power supply   | Yes                           | Yes   | Yes  |   |
| DISK:  | 1 TB Raid 1                   | 300 GB Raid 1   | 300 GB Raid 1  |   |
| Dimension WxDxH  | 426x607x43 mm                 | 426x705x43 mm   | 426x705x43 mm  |   |
| Rack Mounting Kit  | Sliding included              | Sliding included  | Sliding included   |   |
| Certifications   | CE, FCC, UL, CB               | CE, FCC, UL, CB   | CE, FCC, UL, CB  |   |
| NEBS (Network Equipment-Building System)   | No                            | Compliant   | Compliant  |   |
| Power consumption (typical)  | 180 W                         | 200 W   | 250 W  |   |
| Power supply 100 – 240 V AC, (48 V DC optional)  | Internal                      | Internal (DC optional)                                  | Internal (DC optional)                                   |   |
| Management/Configuration options: Web GUI (HTTP, HTTPS), CLI (SSH, serial cable) and HTTP Rest API | Yes                           | Yes, also iDRAC port                                    | Yes, also iDRAC port                                     |   |
| SNMP, V1, V2, V3   | Yes                           | Yes   | Yes  | Yes   |
| VLAN Support   | Yes                           | Yes   | Yes  | Platform Dependent  |
| Internal log to HD   | Yes                           | Yes   | Yes  | Yes   |
| Logging to PCAP file   | Yes                           | Yes   | Yes  | Yes   |
| Syslog   | Yes                           | Yes   | Yes  | Yes   |
| Support for failover multiple ISPs   | Yes                           | Yes   | Yes  | Yes   |
| Failover to secondary inactive device  | Yes                           | Yes   | Yes  | Yes   |
| External RADIUS server authentication for IPsec, GUI and SIP                                       | Yes                           | Yes   | Yes  | Yes   |
| Free software upgrades, incl. with Support   | Yes                           | Yes   | Yes  | Yes   |
| <b>Firewall functionality*</b>   |                               |   |  |   |
| Stateful inspection  | Yes                           | Yes   | Yes  | Yes   |
| Packet filtering   | Yes                           | Yes   | Yes  | Yes   |
| Throughput (Mbit/s) (1500 byte packets)  | 4 500                         | 4 500   | 4 500  | Hardware Dependent  |
| Packets per second (46 byte packets)   | 500 000                       | 900 000   | 2 200 000  |   |
| DHCP client and PPPoE  | Yes                           | Yes   | Yes  | Yes   |
| DHCP server  | 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   |
| <b>VPN functionality</b>   |                               |   |  |   |
| VPN tunnels  | 1200                          | 1 600   | 1 600  | Hardware Dependent  |
| 3DES (168) (Mbit/s) (1438 byte packets)  | 100                           | 130   | 130  |   |
| AES (128-bit) (Mbit) (1438 byte packets)   | 200                           | 270   | 270  |   |
| X.509 certificate, shared secret or XAUTH  | Yes                           | Yes   | Yes  | Yes   |
| Generating of X.509 certificates for clients   | Yes                           | Yes   | Yes  | Yes   |
| PPTP server  | Yes                           | Yes   | Yes  | Yes   |
| IPsec (IKEv1 and IKEv2)  | Yes                           | Yes   | Yes  | Yes   |
| <b>SIP functionality</b>   |                               |   |  |   |
| SIP proxy  | Yes                           | Yes   | Yes  | Yes   |
| SIP registrar  | Yes                           | Yes   | Yes  | Yes   |
| SIP traffic to private IP addresses (NAT/PAT)  | Yes                           | Yes   | Yes  | Yes   |
| SIP Connection set up, max calls/s   | 80                            | 100   | 100  | Hardware Dependent<br>Compare with:<br>(S95: 4 Core, 2GHz)<br>(S97: 6 Core, 1.9GHz or 4 Core 3GHz)<br>(S98: 12 Core, 2.3GHz)              |
| RTP media packet delay (+ at transcoding packets)  | 0.01-0.05 ms (+ voice pkt ms) | 0.01-0.05 ms (+ voice pkt ms)                           | 0.01-0.05 ms (+ voice pkt ms)                            |   |
| Number of concurrent calls (20 ms G.711 voice packets)   | 4000                          | 8 000   | 20 000   |   |
| Secure VoIP (TLS+SRTP) transcoding sessions  | 2500                          | 3 000   | 8 000  |   |
| Media Transcoding (G.722, G.729, G.711; OPUS, SILK; PCMA and PCMU): Max transcoding sessions       | 500; 200; 1200                | 550 <sup>1</sup> ; 215 <sup>1</sup> ; 1500 <sup>1</sup> | 1500 <sup>1</sup> ; 600 <sup>1</sup> ; 7000 <sup>1</sup> |   |
| Billing and authentication of SIP users from an external RADIUS server                             | Yes                           | Yes   | Yes  | Yes   |
| <b>Add-on licenses</b>   |                               |   |  | Yes   |
| Concurrent Calls SIP Session Licenses (CCS), multiple trunk groups                                 | Yes                           | Yes   | Yes  | Yes   |
| Remote User SIP Session Licenses (RUS), can be added for the number of users needed.               | Yes                           | Yes   | Yes  | Yes   |
| SIP Registrar User Licenses (SRU), can be added for the number of clients needed.                  | Yes                           | Yes   | Yes  | Yes   |

<sup>1</sup> Transcoding sessions are doubled if unit is equipped with two CPUs.

\* The Firewall functions in the SIParator/Firewall product are hidden by default — can be reconfigured to be available.

Ingate Firewall® and Ingate SIParator® are registered trademarks of Ingate Systems.



Ingate's mission is to enable the best access for telephony, global real-time and unified person-to-person communication for everyone.