Sangoma Session Border Controllers



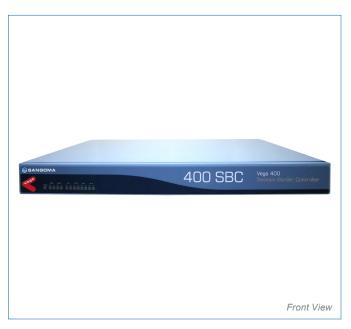
Vega 400 SBC: Session Border Controller



- Interoperability with a Wide Range of Legacy VoIP/SIP/IP Equipment
- ✓ Up to 60 Sessions
- Manipulation
- ☑ VoIP Security
- Transcoding on All Sessions
- ☑ Voice, FAX, and Modem Support

Typical SBC Applications:

- » Secure interconnection of VoIP Enterprise to SIP Trunks
- » Flexible Call Routing for Fallback and Least Cost Routing
- » Connect IP-PBX to Service Provider
- » SIP Dial Tone
- » Secure Enterprise SIP Networks
- » Known Network Demarcation



Overview

The Vega 400 SBC allows service providers and enterprises to deploy SIP trunking and other SIP services, safe in the knowledge that there will be no interoperability issues. Sangoma's knowledge in connecting to different SIP networks is invaluable in allowing any two networks to talk seamlessly.

Security

Using SIP access control, the Vega 400 SBC will protect the network from fraudulent calls and SPIT. SIP over TLS for protecting call signalling and SRTP for encrypting speech are both supported.

Configuration

To ease deployment in the most common scenarios Quick Config is an overlay on the existing configuration and allows configuration on 3 simple webUI screens.

Routing

Calls can be load balanced across multiple SIP endpoints. Other media processing tasks such as DTMF transport interworking, FAX detection and volume changes are also supported.

Media

Transcoding between any supported codec is possible, as well as transrating between different packet times. Other media processing tasks such as DTMF transport interworking, FAX detection and volume changes are also supported.

Dedicated Hardware

Our SBC has dedicated DSP resource that allows scalability for simultaneous voice calls from 12 to 60 sessions.

Ordering Information

SKU	Item Description
VS0156	Vega 400 SBC – 12 calls
LC0201	Per SIP channel upgrade (Each call above 12)
VS0083	1 DSP card
VS0082	3 DSP cards

For above 12 calls, here are the DSP card requirements:

1 – 24 Calls....n/a 37 – 48 Calls...**2 DSPs** 25 – 36 Calls...**1 DSP** 49 – 60 Calls...**3 DSPs**

Examples: For 30 calls – 1x VS0156 + 18x LC0201 + 1x VS0083 For 57 calls – 1x VS0156 + 45x LC0201 + 1x VS0082

KITS Includes upgrade(s) and DSP card(s)	Item Description
VEGA-VS0156-024	Vega 400 SBC – 24 calls
VEGA-VS0156-048	Vega 400 SBC – 48 calls
VEGA-VS0156-060	Vega 400 SBC – 60 calls



Technical Specifications

VoIP

- » SIP
- » Audio codecs:
- G.711 (a-law/μ-law)
- G.729a (8kbps)
- G.723.1 (5.3/6.4 kbps)
- » FAX Support up to G3 FAX, using T.38
- » Modem Support up to V.90, using G.711
- » Transcoding
- » Trans rating
- » DTMF INFO, RFC2833, In-Band

Identification

- » SIP Registration & Digest Authentication
- » Local Registration Termination
- » Remote Registration
- » SIP registration to multiple proxies

Operations, Maintenance & Billing

- » HTTP(S) web server
- » RADIUS Accounting & Login
- » Remote firmware upgrade
 - Auto code upgrade
 - · Auto configuration upgrade
- » SNMP V1, V2 & V3
- » Syslog
- » TFTP/FTP support
- » VT100 RS232/Telnet/SSH

Routing & Numbering

- » Dial Planner sophisticated call routing capabilities, including resilience, least cost routing and call characteristic routing options
- » Fallback in case of failures
- » NAT traversal

Call Quality

- » Adaptive jitter removal
- » Comfort noise generation
- » Silence suppression
- » 802.1p/Q VLAN tagging
- » Differentiated Services (DiffServ)
- » Type of Service (ToS)
- » QoS statistics reporting
- » Echo cancellation (G.168 up to 128ms)

Security & Encryption

- » Call Access Control
- » Load Balancing
- » Media SRTP
- » SIP TLS
- » Management HTTPS, SSH Telnet
- » Configurable user login passwords

Support and Professional Services

Sangoma engineers are here to support your success. Whether you need technical support and software maintenance, training, consultation and installation services, Sangoma can help you. Contact your Sales representative for more information.

Warranty

Standard 12-month warranty is included. Additional warranty services available, contact your Sales representative for more information.

Application Area



Vega SBC manages the connections between two SIP networks, for instance, between an IP-PBX and one or more ITSPs.

Interoperability, security and call management can all be tightly controlled to ensure the best possible service. Optional legacy, TDM connections can be included to integrate existing equipment.

Sangoma is continuously improving its products, features, design, therefore, specifications in this data sheet may be modified without prior notice or obligation.

