Sangoma SBC Series

Sangoma's SBC product line is designed to provide SMBs, enterprises, carriers and service providers with high performance, highly-secure, scalable and cost-effective solutions. Sangoma SBCs allow VoIP calls to pass through the firewall, route VoIP traffic properly across the network and enhance network security.

SBCs for Enterprise

All of our Enterprise SBC solutions feature an easy-to-use GUI and simple licensing plan based only on the number of sessions; no per feature, per user or per codec licensing is required. This offers the maximum predictable SBC capacity and cost in every use case.

SMB SBC (5 - 30 Calls)   Enterprise SBC (25 - 250 Calls)

SBCs for Carriers

The NetBorder Carrier SBC has the same easy-to-use feature set and GUI, scaling up to 4,000 sessions in a single chassis. Plus, it has required carrier-grade features, including available dual AC or DC power and Raid-1 solid state drives.

NetBorder Carrier SBC (250 - 4,000 Calls)

High Availability

Ensure business continuity with our High availability (HA) feature, allowing mirroring of your main SBC with a standby SBC ready to automatically take over calls in case of failure. This feature is included free of charge!

SBC Benefits

» Network security
» Protocol normalization
» Statistics and billing
» Regulatory compliance

» TDM resilience
» Media services
» Quality of service / Quality of experience

Use Cases

Service Provider Applications

» SIP trunking
» Remote worker

» Hosted PBX
» Core session router and load balancer

Quick Facts

» Supports 5 - 4,000 Simultaneous Calls

» Field Upgradeable Session Expansion

» Browser-based GUI for Easy Configuration

» Session-based Licensing – No Hidden Fees

» Enterprise Inter-site Networking & SIP Trunking

» Local Security Management for SMBs

» Hardware-based Transcoding & Media Handling

» Optional Annual Support & Software Maintenance Plans

Capacities:

- » Max call / sessions
  - › 4000 - NetBorder Carrier
  - › 4000 - VMSBC
  - › 250 - Vega Enterprise
  - › 30 - SMB SBC
- » Unlimited SIP trunks
- » Max. 120 TDM-SIP calls/sessions
  *Applicable only to Enterprise SBC
- » Full security (SRTP / TLS)
- » Full transcoding capability (excludes SMB SBC)

Media Capabilities:

- » Voice, Video, FAX, IM and Presence support
- » Full RTP transcoding (G.711, G.722, G.729, G.726, G.723.1, iLBC, AMR, G.722.1) *Only with hardware transcoding option
- » T.38 Fax Relay *Only with hardware transcoding option

Networking:

- » 10/100/1000 BaseT Ethernet ports
  - › 6x - NetBorder Carrier
  - › 3x - Vega Enterprise
  - › 4x - SMB SBC
- » IPV4, IPV6
- » VLAN support

Licensing:

- » Field upgradeable in 5/10 call increments (SMB)
- » Field upgradeable in 25/50/100/250 call increments

Security:

- » DDoS / DoS attack protection
- » Media security with SRTP
- » IPSec encryption
- » IP firewall with port forwarding
- » Call security with TLS / SRTP
- » Two-stage authentication

VoIP:

- » SIP 2.0 compliant
- » SIP intrusion prevention
- » SIP trunking and remote working
- » SIP registration pass-thru
- » SIP malformed packet protection
- » Topology hiding
- » ENUM routing
- » SIP request rate limiting
- » SIP registration scan attack detection
- » SIP friendly load limitation
- » SIP header normalization
- » Advanced NAT traversal capabilities

Debugging:

- » Dedicated Browser interface for capturing full RTP media and signaling information
- » Onboard browser-based PCAP tracing, signaling and media – wireshark compatible
- » Large onboard storage capacity for long term tracing

Session and Monitoring:

- » Multiple session routing options
- » RTCP statistics reports
- » QoS (ToS or DSCP)
- » RADIUS CDR and authentication
- » QoS monitoring and reporting

High Availability / Redundancy:

- » 1:1 active / standby two-box redundancy to guarantee business continuity

Call Control:

- » Least cost routing
- » Multiple call access control options
- » Rate limiting: Call and registration
- » Endpoint authentication
- » Dynamic load balancing and call routing
- » Advanced XML routing engine
- » Intelligent media anchoring / release
- » Media bandwidth policy

Management:

- » Easy to use web interface
- » Real-time monitoring and debugging
- » HTTP XML-based CDR
- » TR-069 for remote provisioning
- » REST based interface to remotely configure SBCs

Telephony Interface (Enterprise SBC):

- » Up to 4 E1/ T1s (with A101DE/A102DE/A104DE card)
- » Echo cancellation up to 128ms tail
- » Primary rate ISDN, configurable NT/TE
- » T1: Q.931, NI2, 4ESS, 5ESS, DMS-100
- » E1: Q.931, ETSI

Hardware Specifications and *Minimum Requirements:

SMB SBC

- » Power: External universal AC/DC power brick
- » Dimensions: 127mm (W) x 127mm (D) x 50mm (H)
- » Weight: .68kgs (1.5lbs)

Enterprise SBC

- » Power: 60W universal internal power supply
- » Dimensions: 430mm (W) x 305mm (D) x 45mm (H)
- » Weight: 7.25kgs (16lbs)
- » Mounting clips included

NetBorder Carrier SBC

- » Power: Dual internal 100~240V power supply
- » Dimensions: 430mm (W) x 520mm (D) x 44.5mm (H)
- » Weight: 6.35kgs (14lbs)
- » 19 inch rackmount brackets included

*VM SBC:

- » Hypervisor: VMware, ESX, Linux KVM, Microsoft Hyper-V, Oracle Virtualbox
- » Virtual Network Interfaces: minimum 1 (2 preferred)
- » Virtual Cores: 1-4
- » Memory: 2GB
- » Disk Space: 20GB

About Sangoma

Sangoma Technologies is a trusted leader in value-based Unified Communications solutions for SMBs, enterprises, OEMs, carriers, and service providers. Sangoma is the primary developer and sponsor of the Asterisk and FreePBX projects and offers Voice over IP systems which enable businesses to achieve enhanced levels of collaboration, productivity, and ROI.

Become a Sangoma Partner

Provide your customers with outstanding VoIP and Unified Communications quality products that deliver industry-leading value. As a Sangoma Partner, you'll get the help you need to grow your business and the incentives you want to make it easy to win sales. Discover more at: Sangoma.com/partner-program

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