



# Enterprise VM SBC

## SBC Virtual Machine Software – VoIP Security at its Best

As the demand for virtualized infrastructures increases, the Sangoma Enterprise SBC (VM) is the perfect solution for Enterprises and Carriers. The virtual Machine edition of our award-winning SBC offers the same rich functionality as that of our hardware-based SBCs with the added benefit of utilizing existing hardware or cloud infrastructure to implement your solution.

Sangoma Enterprise (VM) SBC is designed to work in leading edge virtualization platforms, including VMware, Hyper-V, KVM and Amazon Web Services.

### 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!

### Protection from Enterprise Security Threats

#### Denial of Services

- » Call / registration overload
- » Malformed messages (fuzzing)

#### Theft of Service / Fraud

- » Unauthorized users
- » Unauthorized media types

#### Configuration Errors

- » Mis-configured devices
- » Operator and application errors

#### BYOD

- » Smartphones running unauthorized apps
- » Viruses and malware attacking your VoIP network

### Benefits

- » Network security
- » Protocol normalization
- » Statistics and billing
- » Regulatory compliance
- » Connectivity
- » Media services
- » Quality of service/ Quality of experience

If you require transcoding capabilities, add an optional Sangoma D150 transcoder.

### Use Cases

#### Service Provider Applications

- » SIP trunking
- » Remote worker
- » Hosted PBX
- » Core session router and load balancer

## Quick Facts

- » Supports Up to 4000 Simultaneous Calls
- » Completely Virtual SBC Solution for VM & Cloud-based Infrastructures
- » Field Upgradeable Session Expansion
- » Browser-based GUI for Easy Configuration
- » Session-based Licensing – No Hidden Fees
- » Enterprise Inter-site Networking & SIP Trunking
- » Optional Annual Support & Software Maintenance Plans

### Capacities:

- » Max. 4000 calls / sessions
- » Full transcoding capability
- » Full security (SRTP / TLS) capability
- » Unlimited SIP trunks

### 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:

- » IPv4, IPv6g
- » VLAN support

### Licensing:

- » Only max. number of calls are licensed
- » Field upgradeable in 25/50/150/250 call increments

### Security:

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

### High Availability / Redundancy:

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

### Call Control:

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

### VoIP:

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

### Session and Monitoring:

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

### 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

### Management:

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

### Specifications / Minimum Requirements:

- » Hypervisor: VMware, ESX, Linux KVM, Microsoft Hyper-V, Oracle Virtualbox
- » Virtual Network Interfaces: minimum 1 (2 preferred)
- » Virtual Cores: 1-4 (depending on session capacity)
- » 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](http://Sangoma.com/partner-program)