Vega Enterprise VM SBC

IP communications across multiple, sometimes untrusted, networks needs to be normalized, managed and secured. There is a need to guarantee interoperability of multiple devices, carriers and protocols in a transparent way to the user of the network. Session border controllers take care of the conversion between protocols, transcoding, threat prevention, resource limiting, and accounting at the edge of VoIP networks of enterprises and carriers alike.

You wouldn't put your data network on the internet without a firewall—why would you expose your voice network without a Session Border Controller?

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.

Tailored for Your Business Needs

All Sangoma SBCs feature field upgradable, session-based licensing as well as hardware-based transcoding and media handling (optional for Vega SMB). Support for a broad range of SIP trunking topologies and integration with Skype for Business and Microsoft Lync environments, the Vega series includes comprehensive security configuration and a full suite of GUI-based tools and APIs for deployment, management, reporting and troubleshooting.

Lync Skype for Business

Quick Facts

- Supports 25 - 500 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

ADVANCED CAPABILITIES

High Availability

Ensure business continuity with our new 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)

Configuration Errors

- Mis-configured devices
- Operator and application errors

Theft of Service / Fraud

- Unauthorized users
- Unauthorized media types

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

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TECHNICAL SPECIFICATIONS

Features

Capacities:

- Max. 500 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 to guarantee 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, signalling 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

VM Minimum Requirements

Specifications:

- 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: 20 GB

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