NetBorder™ SS7 VoIP Media Gateway

Carrier Gateway

FEATURES

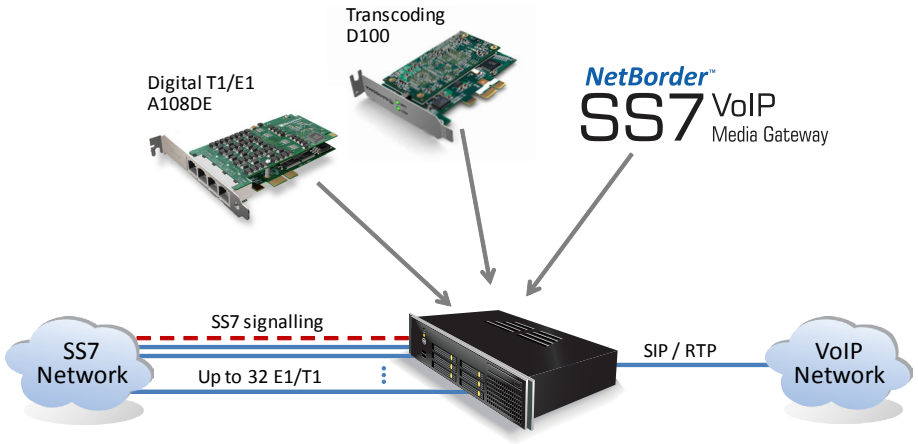
- ☑ **SS7 ISUP** (including several national variants)
- ☑ **SIP RFC3261**
- ☑ **Up to 32 E1/T1 per server**
- ☑ **Delivered as a Software Application**
- ☑ **Convenient Binary package or ISO image**
- ☑ **Support for wide range of VoIP and wireless codecs**
- ☑ **Sophisticated Call Routing via XML Scripts**
- ☑ **Management**
  - » **CLI**
  - » **Web GUI**
  - » **Statistics/Logs**
- ☑ **Distributed Architecture and Signalling Relay** (future)
- ☑ **SIGTRAN** (future)

Sangoma's NetBorder SS7 to VoIP Gateway software provides full-featured, carrier-class VoIP deployments while leveraging the flexibility of standard computing platforms and operating systems.

SS7 TO VOIP MEDIA GATEWAY SOFTWARE

The NetBorder SS7 to VoIP Gateway allows telecom service providers to introduce VoIP in their networks in the most cost-effective and flexible way. This is simply accomplished by combining the software with Sangoma's award-winning digital E1/T1 and transcoding boards on standard computing servers. The combination works as a full-fledged SS7 to VoIP gateway, with the flexibility and expandability of software.

The solution supports up to 32 E1/T1 per server. For larger installations (up to 256 E1/T1), distribution across multiple servers provide maximum flexibility to support growth.



BENEFITS

- Wide range and support of SS7 PSTN protocols and variants
- Scalable
- Flexibility of software deployments – instead of monolithic hardware platforms
- Low cost installation leveraging Open-Source and off the shelf components
- Robust implementation with distribution, failover and redundancy

CONTINUE READING »

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SANGOMA
sangoma.com

TECHNICAL SPECIFICATIONS

PSTN Protocols:
- SS7-ISUP
- ITU, ANSI, Bellcore, UK, China, India and Russian variants.
- Up to 32 signalling links, single or multiple point codes, ISUP relay for larger configurations

Network Interfaces via Sangoma Telephony Hardware
Up to 32 E1/T1 (960 ports) per server via digital hardware:
- A101D / A101DE – 1-port E1/T1
- A102D / A102DE – 2-port E1/T1
- A104D / A104DE – 4-port E1/T1
- A108D / A108DE – 8-port E1/T1

Extend capacity over 960 ports and single server via ISUP relay feature. Sangoma recommends hardware echo cancellation option.

VoIP Protocols:
- SIP V2 / RFC3261

Call Routing:
- Configurable and extendable XML-based dial plan and routing rules

Operating System Support:
- 32 bit and 64 bit Linux; CentOS recommended
- Software delivered as binary package or ISO image

Minimum Server Requirements:
- Varies with size of deployment
- Dual Core CPU with 2GB or RAM
- Consult Sangoma Sales for specifics

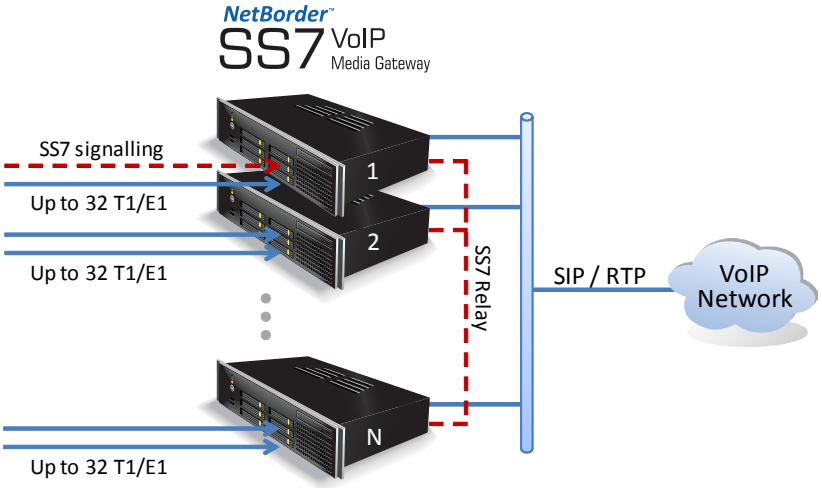
Media Processing
Transcoding:
- Wide Range of codecs support via Sangoma Transcoding Hardware (D100/D150/D500):
  - G.711
  - G.726
  - G.729AB
  - G.722
  - G.722.1
  - G.723.1
  - iLBC
  - GSM
  - AMR

Echo Cancellation:
- G.168-2002 with 128ms tail
- Via Sangoma hardware echo cancellation option

DTMF Detection and Generation:
- RFC2833 Tone Relay
- In-band
- Hardware and software DTMF detection and generation

Management and Configuration
- Web GUI
- Command line interface
- Call detail records in XML format
- Detailed logs with user configurable file size and auto-rotation

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. Please contact your Sales representative for more information.



Distributed Architecture for Large Scale Deployments *(future)*

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