Vega 3000G Analog Gateway

Virtually every business and most government departments today use a mix of old analog communications tools that run through a telephone line Private Branch Exchange (PBX), Internet connected data lines, cell phones, dedicated fax lines, voice mail, and more. These systems can't talk to one another. In most cases, it's a mess – and new replacement systems are expensive.

What if you could unify your existing communications systems without discarding what you have or starting over?

You can! With Sangoma's Vega 3000G Analog Gateway, it's easy to get everything (and everyone) connected with up to 8km loop length support.

Take advantage of the newest Voice over Internet (VoIP) technology and achieve wide-ranging benefits, such as reduced telephone charges and transition costs, by seamlessly integrating your existing equipment with a Vega 3000G Analog Gateway from Sangoma.

Sangoma Vega Gateways are easy to install and set up thanks to an intuitive, web-based user interface, and seamless interoperability with every telephone system and carrier on the planet. We've installed tens of thousands of Vega Gateways around the world. Find out if the Sangoma Vega 3000G Analog Gateway is right for you.

THE MOST RESILIENT VOIP GATEWAY IN ITS CLASS

The Vega 3000G Analog VoIP Gateway connects up to 24 of your analog handsets, fax machines and POS terminals to an Internet Protocol (IP) network. The entire Sangoma Resiliency Enablement Suite (SRES) including the Enhanced Network Proxy (ENP) is available and the rich set of telephony features create an outstanding and resilient solution that maintains key communications functions even in the event of a loss of connectivity to the IP-PBX or Hosted Solution.

Vega Gateway Devices

Sangoma Vega Gateway devices effectively bridge your disparate technologies easily and cost-effectively. From the entry level Vega 50 Media Gateway (perfect for up to 8 lines), to the to the Vega 3000G Analog Gateway (designed for up to 50 analog lines and right up to the Vega 100G / 200G / 400G (designed for up to 4 T1/ E1), you get built-in, industry leading resiliency with the Enhanced Network Proxy (ENP) feature. The Vega series also gives you auto-detection and simple configuration, and includes models for multi-tenant applications using legacy telephone wiring and systems. Additionally, the Vega series comes with industry leaders interop certifications such as Lync / Skype for Business, Broadworks and Interactive Intelligence Ask us about the Vega Gateway product that's exactly right for you.

Why Sangoma?

Sangoma's customer-centric approach, product innovations, and worldwide network of distribution partners give you the industry's best-engineered, highest quality IP and UC solutions, supporting "any app, anywhere" for businesses and service providers of all sizes. All Sangoma products are backed by more than 30 years of IP communications experience, expert engineering and technical resources, and a comprehensive warranty.

Certified for Skype for Business

Lync

Support and Professional Services

Sangoma offers you a complete range of professional services, including technical support, software maintenance, training, deployment, and consulting services.

Visit sangoma.com/support or contact your Sales representative for more information.

Warranty

All Sangoma Vega Gateway products are supported by a 1-year warranty. Extended warranties are also available.

Find out More

View a current list of available Vega Gateway products at sangoma.com/voip-gateways/vega-gateways.

Technical Specifications

The Vega 3000G analog media telephony gateway is designed to simplify the integration of legacy phone systems to IP infrastructure. The Vega 3000G connects analog handsets and devices to an IP network, typically either an Internet Telephony Service Provider (ITSP) or a corporate network.

Vega 3000G analog media gateways are available with 24 Foreign Exchange Subscriber (FXS) ports, for connection to standard analog telephones.

Service Provider Applications

- Connect analog phones to hosted telephony platforms
- Low-density PSTN gateway
- Survivability for IP phones in case of wide area network (WAN) disruptions

Enterprise Applications

- Enterprise VoIP networking
- Enterprise IP telephony gateway
- Compatibility of legacy phones with IP-PBX and UC (Unified Communications) platforms

Enhanced Network Proxy

This option enables continuity of service during Wide Area Network (WAN) or Session Initiation Protocol (SIP) outage and may be configured to operate in a number of ways including:

- Standalone proxy
- IP device survivability
- IP device call routing
- Emergency call routing
- SIP to SIP call routing

Density

- With up to 24 FXS ports in a chassis that is only 1U-high and half a rack deep, these gateways provide exceptional density.

(Technical specifications continue on next page.)

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Technical Specifications Continued

Open, Non-Proprietary Interfaces

All Vega gateways support SIP and T.38 fax.

The gateway can be configured for different country requirements, such as tones and line impedance.

All Vega gateways have proven interoperability with a wide range of existing telecommunications and VoIP equipment.

Interfaces

VoIP Interface:
» SIP
» Audio Codes:
- G.711 (a-law/μ-law)
- G.729a (8kbps)
- G.723.1 (5.3/6.4 kbps)
- G.726
- GSM
- Clear Mode

» Fax support - up to G3 FAX, using T.38
» Modem support - up to V.90, using G.711
» Up to 24 VoIP channels

Telephony Interface:
» 24 ports on an RJ-21 connector
» 600R, 900R or CTR-21 line impedance

LAN Interface:
» 1 RJ-45, 1000BaseT/100 BaseTx/10 BaseT, full/half duplex

USB Interface:
» 1 USB 2.0 for extra storage

Features

Telephony Features:
» Call waiting
» Call forward – unconditional, busy, no-answer
» Call transfer – blind, consultative
» 3-Way conference
» Do Not Disturb
» Message waiting indicator – audible, visual
» Music on hold
» Executive barge
» Caller ID presentation – UK, DTMF, Bellcore GR30, ETSI
» Caller ID screening
» SIP registration & digest authentication

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
» Voice readback of IP parameters

Routing & Numbering:
» Dial planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
» Direct Dialing In (DDI)
» SIP registration to multiple proxies

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)

(Technical specifications continue on next page.)

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Technical Specifications Continued

Features (Continued)

Security & Encryption: *Optional
» *Media – SRTP
» *SIP – TLS
» Management – HTTPS, SSH Telnet
» Configurable user login passwords
» Enhanced Network Proxy (ENP)

Learn more about the technical specifications at: sangoma.com/products/vega-3000.

Hardware

Certification (Pending):
» EMC (CLASS B)
- EN55022
- EN55024
- FCC Part 15
- AS/NZS3548

» Safety
- EN60950
- IEC60950
- UL60950
- AS/NZS60950

Environmental:
» EMC (CLASS B)
- 0° .. 40°C
- 0% .. 90% humidity (non-condensing)

FXS Line Length:
» Max. loop impedance 2000 ohms
» Up to 8km depending on environment

LED Indicators:
» System: Power/System Ready/Activity
» LAN: Speed/Activity

Dimensions:
» 1U: 270mm (W) x 155mm (D) x 43mm (H)
» Weight: 1.5kgs (3.31lbs)
» Rackmount ears supplied: 107mm (2 pieces)

Power Supply:
» External AC adapter
» 100–240 VAC (50/60 Hz)
» DC output 12V/5A (60W)

Program Storage:
» Code and configuration data are stored in FLASH and executed from RAM

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