Implementing a Vega Gateway is an ideal addition to your business continuity plans. In spite of external network failures, you can stay connected—Vega Gateways have industry-leading resiliency and fault tolerance built right in. Enhanced Network Proxy (ENP) keeps SIP endpoints operational in the event that connectivity to the main switch is lost.

**ENTERPRISES** Take advantage of wide ranging benefits of next generation VoIP technology, like reduced telephony charges. Keep transition costs down by seamlessly integrating existing premise equipment with a Vega gateway from Sangoma.

**SERVICE PROVIDERS** Sangoma Vega gateways help you introduce new IP products to your client base, and add revenue streams, while reducing your costs. Award-winning IP-to-TDM stand-alone gateway devices from Sangoma effectively bridge disparate technologies easily and cost-effectively.

Vega Gateways support ISDN BRI, PRI, FXS, FXO, and E1/T1 line codes and protocols for installations ranging from small businesses to large enterprises. Easily deployed as Service Provider Customer Premises Equipment (CPE), the Vega appliances feature auto-detection and simple GUI-based configuration. The Vega series also include models for multi-tenant applications via legacy telephone wiring and systems.

<table>
<thead>
<tr>
<th>Vega Series</th>
<th>Vega 50</th>
<th>Vega 100G*</th>
<th>Vega 200G*</th>
<th>Vega 400G*</th>
<th>Vega 5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>VoIP Channels</td>
<td>4–16</td>
<td>Up to 30</td>
<td>Up to 60</td>
<td>Up to 120</td>
<td>24 or 50</td>
</tr>
<tr>
<td>Telephony Interfaces</td>
<td>FXO/FXS/BRI</td>
<td>1 T1/E1</td>
<td>2 T1/E1</td>
<td>4 T1/E1</td>
<td>FXS</td>
</tr>
<tr>
<td>Audio Codecs</td>
<td>• G.711 • G.729a • G.723.1 • G.726 • T.38</td>
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</tr>
</tbody>
</table>

Why Choose Vega Gateways?

The Most Fault Tolerant Gateways in their Class

- Qualified and tested for use with Microsoft® Lync®
- Local Survivability: Stay Connected
- Emergency PSTN Backup
- Flexible Call Routing for Fallback and Least Cost Routing
- Interoperable with a Range of Legacy and IP Equipment
- Voice, Fax and Modem Support

**Service Provider Applications:**
- Survivability for IP phones
- Customer premises gateway for SIP trunking
- Low-density PSTN gateway

**Enterprise Applications:**
- Enterprise VoIP networking
- PSTN trunking for IP-PBXs
- Enterprise IP telephony gateway
Interfaces:

**VOIP INTERFACES:**
- SIP
- H.323 version 4 (Vega 50, Vega 5000 only)

**Audio codecs:**
- G.711 (a-law/μ-law) (64 kbps)
- G.729a (8 kbps)
- G.723.1 (5.3/6.4 kbps)
- G.726

**FAX Support** – up to G3 FAX, using T.38

**Modem Support** – up to V.90, using G.711

Up to 120 VoIP channels (depending on the model)

**TELEPHONY INTERFACES:**

**ANALOG**
- Vega 50: 1 FXO/FXS port per RJ-11
- Vega 5000: Up to 25 FXS ports per RJ-21
- 600R, 900R or CTR-21 line impedance

**ETSI BRI**
- 2 or 4 S/T interfaces presented on RJ45
- Point to point or point to multipoint
- Each interface can be configured NT or TE

**Primary Rate ISDN (User configurable NT/TE):**
- E1
  - Euro-ISDN
  - ISO QSIG
  - CAS Private Wire (Vega 400 only)
- T1
  - NI1/NI2
  - AT&T BRI
  - CAS Private Wire

**LAN INTERFACES:**
- 2 RJ-45s, 1000BaseT (Vega 100G/200G/400G)/10 BaseT/10 BaseT, full/half duplex
- IPv4

**Features:**

**IDENTIFICATION:**
- Caller ID presentation
- Caller ID screening allows connections to be accepted only from selected call sources
- SIP Registration & Digest Authentication
- H.323 gatekeeper registration (Vega50 only)

**OPERATIONS, MAINTENANCE & BILLING:**
- HTTP(S) web server
- RADIUS Accounting & Login
- Remote firmware upgrade:
  - Auto code upgrade
  - Auto config. upgrade
- SNMP V1, V2 & V3
- TFTP/FTP support
- VT100 – RS232/Telnet/SSH

**ROUTING & NUMBERING:**
- Dial Planner – sophisticated call routing capabilities, standalone or gatekeeper/proxy integration
- Direct Dialing In (DDI)
- SIP registration to multiple proxies
- NAT traversal

**CALL QUALITY:**
- Adaptive jitter removal
- Comfort noise generation
- Silence suppression
- 802.1p/Q VLAN tagging
- Differentiated Services (DiffServ)
- QoS statistics reporting
- Echo cancellation (G.168 up to 128ms)
- Type of Service (ToS)

**SECURITY & ENCRYPTION:**
- Management – HTTPS, SSH Telnet
- Configurable user login passwords
- SIP/TLS and SRTP

**Hardware:**

**CERTIFICATION:**
- **EMC (CLASS B)**
- EN55022
- En55024
- FCC Part 15
- AS/NZS3548
- AS/NZS60950

- **SAFETY**
- EN60950
- IEC60950
- UL60950
- AS/NZS60950

- **TELECOMS (ISDN)**
- E1: TBR4
- T1: FCC Part 68
- T1: CS-03

- **PHYSICAL DIMENSIONS:**
  - All units are standard 1U high and support rack mount

- **EXTERNAL POWER SUPPLY:**
  - 100…240 VAC, 47…63 Hz, 1…0.5 A
  - -48V DC, 1.2A (Max) available subject to MOQ (Optional)

- **PROGRAM STORAGE:**
  - Code and configuration data are stored in FLASH and executed from RAM

Sangoma is continuously improving its products, features, design, therefore, specifications in this data sheet may be modified without prior notice or obligation.