Vega 400GF

High-Density Fax over IP Gateway

Sangoma's Vega 400GF gateway provides data centers and service providers with a rich set of Fax-over-IP (FoIP) features and functions suitable for high-speed, high-density fax production, saving you money on toll charges.

The Vega 400GF connects your FoIP application to T1/E1 trunks to enable TDM connectivity when SIP trunks are not available, delivering highly reliable real-time faxing over the T.38 protocol. It comes with 4 T1/E1 ports for up to 120 licensed channels optimized for high-density faxing. Since the T.38 protocol retains the standard T.30 fax data stream, it can be used with legacy T.30-based devices and with newer T.38-based solutions.

Advantages of the Vega 400GF

Choose the Right License for Your Business

For growing businesses, the Vega 400GF can be field-upgradable for 30, 60, 90, 120 simultaneous calls. Each call may be used for either fax or voice.

Rapid Deployment

Every Vega VoIP gateway features a GUI-based installation wizard for rapid deployment. For high volume deployments, the Auto Exec tool is perfect for auto configuration and firmware updates across multiple gateways.

Enable FoIP when T.38 is Not Supported

While more susceptible to IP network issues, such as packet loss or jitter, G.711 fax pass-through provides an option for enabling FoIP when T.38 is not supported.

Error Correction Mode

The Vega 400GF has built-in error correction mode (ECM) which checks each fax for errors and requests a re-transmission from your FoIP software when required.

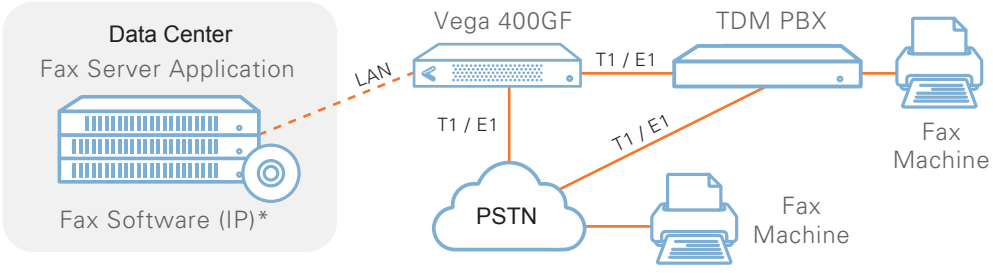
Supported Protocols

The Vega 400GF supports the following:

- SIP & T.38 Fax
- V.34 Fax Standard (G.711 Pass-through)
- Error Correction Mode (ECM)
- TLS and SRTP

FoIP Deployment in the Enterprise

Corporate Site



Quick Facts

- Base Unit Includes 4 T1 / E1 Ports & License for 30 Simultaneous Calls, Expandable to 120 Calls
- Supports V.8 Fast Handshaking & Advanced Compression Cutting Call Setup Time
- Emergency PSTN Backup
- Compatible with Dialogic Brooktrout SR140 Fax Software & Your Existing FoIP Application
- Auto-Provisioning Support Using the PBXact / FreePBX Vega Gateway Module
- Interoperability with a Wide Range of Legacy & IP Equipment
- Optional Annual Support & Software Maintenance Plans

*An example of fax software would be the Dialogic® Brooktrout® SR140

About Sangoma

Sangoma Technologies is a trusted leader in value-based Unified Communications (UC) and UC as a Service (UCaaS) solutions for SMBs, enterprises, OEMs, carriers, and service providers.

Sangoma's Voice over IP offerings include on-premises and cloud-based phone systems, SIP trunking services, and telephony hardware. Sangoma's products and services are used in leading PBX, IVR, contact center, carrier networks, and data communication applications worldwide.

Sangoma is the primary developer and sponsor of the Asterisk project, the world's most widely used open source communications software, and the FreePBX project, the world's most widely used open source PBX software. Businesses can achieve enhanced levels of collaboration, productivity, and ROI with Sangoma.

Founded in 1984, Sangoma Technologies Corporation is publicly traded on the TSX Venture Exchange (TSX VENTURE: STC).

Become a Sangoma Partner

Provide your customers with outstanding VoIP and Unified Communications quality products that deliver industry-leading value. As an Empowered by 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

Interfaces

FoIP & VoIP Interface:

- SIP V.2
- Fax support - up to G3 FAX, using T.38
- Modem support - up to V.90, using G.711
- FoIP / VoIP channel capacity:
  - Up to 120 faxes / calls
- Audio codecs:
  - G.711 (a-law / μ-law) (64kbps)
  - G.723.1 (5.3 / 6.4 kbps)
  - G.729a (8 kbps)
  - G.726

Telephony Interface:

4x T1 / E1 / PRI (Configurable NT / TE):

- T1
  - NI1 / NI2
  - AT&T 5ESS
  - CAS (RBS)
  - DMS100
  - ISO QSIG
  - CAS Private Wire
- E1
  - Euro-ISDN
  - ISO QSIG
  - VN4
  - CAS R2MFC
  - CAS Private Wire

LAN Interface:

- 2x RJ-45, 1000BaseT / 100BaseTx / 10BaseT, full / half duplex

Features

Fax Standards:

- T.38 / T.30
- V.34 (G.711 pass-through)
- V.8
- V.33, V.17, V.29 and V.27ter up to 14400 bps

Operations, Maintenance & Billing:

- HTTP(S) web server
- SNMP V1, V2c and partial V3 (USM authentication)
- TFTP / FTP support
- TR-069
- RADIUS accounting & login
- Remote firmware upgrade
- VT100 - RS232 / Telnet / SSH
- Auto configuration upgrade

Routing & Numbering:

- DID / DDI
- SIP registration to multiple proxies
- Dial planner - sophisticated call routing capabilities, standalone or gatekeeper / proxy integration
- NAT traversal

Security & Encryption:

- Management - HTTPS, SSH Telnet
- Configurable user login passwords
- SIP / TLS and SRTP

Call Quality:

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

Redundancy / Survivability:

- Hardware failover using port bypass
- Local Survivability - Business Continuity during WAN/SIP outage

Hardware

High Precision:

- Stratum III clock

Certification:

- EMC (CLASS B)
  - EN55022
  - EN55024
  - FCC Part 15
  - Industry Canada
- TELECOMS (ISDN)
  - E1: TBR4
  - T1: FCC Part 68
  - T1: CS-03
  - VCCI
- Safety
  - EN60950
  - IEC60950
  - UL60950

Environmental:

- 0° .. 40°C
- 0% .. 90% humidity (non-condensing)

LED Indicators:

- Power
- ISDN: link up
- LAN: speed / activity

Dimensions:

- 437mm (W) x 153mm (D) x 43.5mm (H)
- Weight: 1.97kgs (4.35lbs)
- Rackmount ears supplied

Power Supply:

- Internal PSU 100..240 VAC, 47..63 Hz, 1..0.5 A