ONEVoIP16

Voice Services Gateway

Reliable Voice Solution

The ONEVOIP16 offers a complete and proven voice over packet solution. With various signaling protocols and flexible voice routing, the ONEVOIP is a secure choice in evolving networks to connect your legacy telephony infrastructure to IP networks. By allowing voice and fax into your existing data network, the ONEVOIP enables a complete voice service while protecting investments made in existing telephony equipment. ONEVOIP achieves this by acting as a pure gateway between the legacy digital telephony system and the VoIP network. ONEVOIP is compatible with Skype for Business and BroadSoft's SIP infrastructure.

The ONEVOIP16 is available for up to 8 ISDN BRI port models with various protocols.

Its flexible Operating System (OneOS) makes the connection compatible with next generation network IMS systems.

■ Up to 8 BRI interfaces
■ NETCONF support
■ Easy installation and support with its web user interface and industry-standard CLI

Simplified Management

The unit is managed as a single logical device with an industry standard CLI or a unified Web GUI. The provisioning can be fully automated with CWMP TR-069 protocol.

Integration with Today's and Next Generation OSS

Industry-standard MIBs, a TR-069 client and a Command Line Interface (CLI) enable a swift integration with incumbent management systems and a short learning curve for operational teams. In addition, the latest generation OneAccess software, OneOS6, delivers one of the most complete NETCONF implementations on the market, thus enabling a major gain in service agility and automation for service providers.

Technical Features

Ethernet Interfaces

- 1 x 10/100/1000 UTP with maximum throughput of 50 Mbps

ISDN Intefaces

- Up to 8 BRI; RJ45 connectors
- BRI NT (Network) / TE (Terminal)
- ISDN Permanent layer-2 & layer-1
- Line Hunting, Local port switching
- ISDN header insertion / suppression

Analog Interfaces

- Up to 12 FXS & 1 FXO; RJ-11 connectors
- FXS Line Voltage Drop
- Direct call (automatic call after off-hook)
- Fully configurable ringing & tones
- FSK/DTMF caller-id presentation on POTS terminal interface
- FXO loop/ground start & far end disconnect supervision
- Line Hunting, Local port switching

Console Port

- RS232 – RJ-45 port

SIP

- SIP 2.0 over UDP/TCP/TLS and RTP/SRTP
- Geo-localization: NAPTR, DNS-A, DNS-SRV
- SIP Registration (basic, 3GPP method) for Trunking and Hosted solutions
- SIP Authentication
- DTMF in-band (RFC 2833) and out-band (SIP INFO)
- Support for SIP multi-trunks with different IP addresses, ports & settings
- SIP Session Timer according to RFC4028
- SIP redundancy, survivability & fail-over
- SIP monitoring via OPTIONS method
- Automatic call disconnection on no RTP flows
- Configurable automatic device reboot on SIP NOTIFY reception

Voice Routing

- Selection of voice processing
- Call routing, Pre and Post Routing
- Call backup
- Numbering plan management, Insertion & suppression of digits
- Call Admission and Control
- Gateway Intrusive mode
- Intrusive voice-port
- Dialer watch list
- Inline Test Calls
- Configurable Test Calls

VoIP Processing

- Voice compression: G.711 (a/µ law), G.729ab, G.722, AMR-WB*, CES configurable
- Codecs with static & dynamic payload
- Packet length
- Echo cancellation: G.165/168 compliant, non-linear processing
- Adaptive jitter, packet loss concealment
- Country specific tone generation and customization
- Silence suppression and comfort noise generation
- Fax pass-through, T.38 ECM & Modem over IP
- VAD/CNG

Voice Quality

- RTCP-XR report
- RTP extended statistics (loss, jitter, voice quality diagnostics)
- MOS-LQ / MOS-CQ / R-factor calculation
- VQM (Voice Quality Monitoring) report
- Voice statistics

Interoperability

- SIP Header Manipulation
- SIP Connect 1.1 / 2.0
- Interworking ISDN/SIP and Analog/SIP

Management

- Command Line Interface (CLI)
- Telnet, SSH, HTTPS
- NETCONF server compatible V1.0/V1.1
- Web-based configurator for LAN
- SNMP V1/V2C/V3
- Flow capture and decoding
- Configurable end-user web GUI
- Support of user privileges
- FTP/SCP/SFTP/TFTP upload/download configuration and binaries
- QoS measurement probe
- Traceroute, ping, extended ping
- User authentication via RADIUS or TACACS+
- RADIUS accounting
- Global statistics screens (console, web-based). Event and trace buffering
- Syslog client
- Flow capture and decoding

Auto-Provisioning

- NETCONF
- TR-069
- Embedded Event Manager
- Easy provisioning through OneManage*

Regulatory

- FCC, CE

Dimensions and Environment

- Desktop, wall mountable, rack mountable
- W x H x D: 360 x 59 x 221 mm (14.18 x 2.33 x 8.7 inches)
- Weight: 1.45 kg (3.20 lb) w/o power supply

Power Supply

- External adapter 12V – 3A
- On/Off switch
- System reset button

* Contact Ekinops for avaiability

About EKINOPS

Ekinops is a leading provider of open and fully interoperable Layer 1, 2 and 3 solutions to service providers around the world. Our programmable and highly scalable solutions enable the fast, flexible and cost-effective deployment of new services for both high-speed, high-capacity optical transport networks and virtualization-enabled managed enterprise services

Our product portfolio consists of three highly complementary product and service sets: Ekinops360, OneAccess and Compose.

-   Ekinops360 provides optical transport solutions for metro, regional and long-distance networks with WDM for high-capacity point-to-point, ring and optical mesh architectures, and OTN for improved bandwidth utilization and efficient multi-service aggregation.

-   OneAccess offers a wide choice of physical and virtualized deployment options for Layer 2 and Layer 3 access network functions.

-   Compose supports service providers in making their networks software-defined with a variety of software management tools and services, including the scalable SD-WAN Xpress.

As service providers embrace SDN and NFV deployment models, Ekinops enables future-proofed deployment today, enabling operators to seamlessly migrate to an open, virtualized delivery model at a time of their choosing.

A global organization, with operations in 4 continents; Ekinops (EKI) - a public company traded on the Euronext Paris exchange - is headquartered in Lannion, France, and Ekinops Corp., a wholly-owned subsidiary, is incorporated in the USA.

EKINOPS360
Dynamic Optical Transport

COMPOSE

ONEACCESS