AboveEdge VP-0808 Intelligent VoIP Gateway with Built-In NAT Traversal and Proxy Server

AboveEdge VP series is a concise VoIP Switch. Besides its basic VoIP Gateway function, its greatest feature is its built-in Proxy and Relay, which can not only support registration and authentication for various CPE devices, but also can solve the problem of multi-net communication of CPE devices. AboveEdge VP can help the users upgrade their legacy PBX and make it support VoIP application in a short time, and realize expandable application of IP extensions.

The built-in IVR function and intelligent routing capabilities makes it an ideal product for businesses to fulfill leading telecommunications and business requirements without changing their dialing habits.
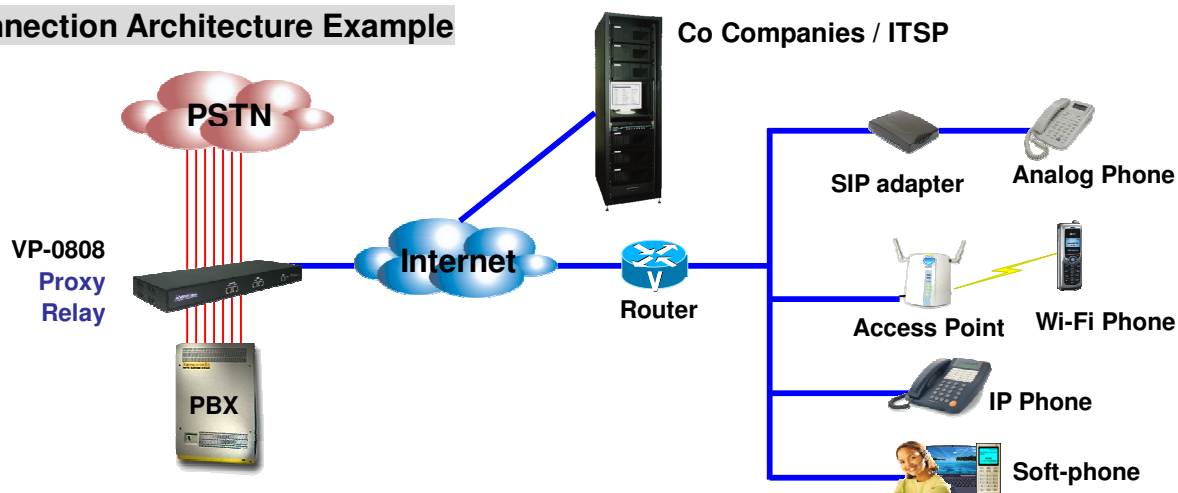
Main applications:
- Expand extensions without adding extension cards.
- Upgrade the PBX, providing VoIP features to legacy PBX.
- Support multi-net remote IP extension.
- Work with Co companies/ITSP for international calls and cell phone calls saving
- Work with TeleSynergy's TelePCX to extend PBX feature of TelePCX to remote site.

FEATURES

► Conforms to IETF latest SIP protocol RFC-3261
► With built-in Registrar Server, support user registration, authentication and call authorization
► With B2BUA, provide routing distribution and call control
► Support various SIP customer endpoints such as IP-Phone, Softphone, SIP adapter, Wi-Fi phone and VoIP Gateway, etc.

► Support multi-account and registration to multi-Proxy server.
► Support DNS inquiry for multi-ENUM server.
► Provide NAT traversal of CPE end; no troublesome setting for VoIP CPE. You can easily connect the network whether you are in WAN or LAN, fixed or dynamic IP environment.
► Intelligent Routing Management:
  o Backup route: second route alternative when the network is unconnected
  o Routing by time section: you can set a special routing for a special time
  o Route screen: according to inbound IP address or ANI, sift the group for special arrangement.
  o Route distribution: Routing by Answer Success Ratio (ASR) condition
► Call Incoming Management
  o Hotline mode
  o DNI/ANI re-dialing by dial tone or IVR
► Support E.164 coding mode
► Support IP-to-PSTN, PSTN-to-IP and IP-to-IP application
► T type architecture support "Trunk Bypass", when power off, FXO connect with FXS directly, remaining the usual communication of trunk.
► Support check caution affair through Syslog Server and call detail record (CDR)
► Support TeleSynergy Billing solution (optional), provide various billing solution, account information and call control
► Remote management through Web-base user port:
  o On-line system parameter modification
  o On-line system supervision and management
  o Firmware upgrade
► Support Caller ID identification (FXS: DTMF and FSK Caller ID generation / FXO: DTMF and FSK Caller ID detection)
► Support Polarity Reverse (FXS- generation / FXO- detection)
► Fax message auto-detection (support T.38 online fax protocol)
► Support QoS (IP TOS)
► Support 100 CPE user to sign in, and 50 On-line calls for one box
► Support 8 multi-net concurrent call for one box

TeleSynergy™

Connection Architecture Example

VOICE SPECIFICATIONS

- ► Communication protocol
  - o SIP (RFC 3261) compliant
  - o SIP RFC2833 DTMF signaling
- ► Voice algorithms: ITU G.711 μ-law/A-law at 64kbps, G.723.1 at 5.3/6.3kbps, G.729A at 8kbps, auto codec negotiation
- ► Echo Cancellation: G.168-2000 compliant with 40ms echo tail length.
- ► VAD(Voice Activity Detection) & CNG(Comfort Noise Generation): G.723.1A for G.723.1, G.729B for G.729A
- ► Fax protocol: T.38 FAX relay supports Group III V.17, V.21, V.27ter, V.29, V.33 (2.4 to 14.4 Kbps)
- ► Quality Enhancement: Jitter Buffer and Programmable Gain Control
- ► Tone Generation and Detection: DTMF
- ► Call Progress Detection: Dial tone, Busy tone, Ring Back tone

GENERAL SPECIFICATIONS

- ► Power: AC 100V~240V, 50/60 Hz, 3A
- ► Operating Temperature: 0℃ to 45℃
- ► Storage Temperature: -20℃ to 75℃
- ► Humidity: 20% to 90% non-condensing
- ► Dimension: 438mm ✕ 173mm✕ 44mm(W/D/H)

HARDWARE SPECIFICATIONS

- ► Physical port number: 16 ports (8 FXO / 8 FXS)
- ► AbovEdge-VP-0808：8 FXO / 8 FXS / 8 VoIP channel
- ► Trunk interface
  - o Loop start
  - o Loop voltage polarity reverse detection
  - o Loop current: 20~80mA，Polarity insensitive
  - o Impedance: 600Ω nominal
  - o Frequency response: 200~3400Hz
  - o Ring detection: 30Vrms~140Vrms (16~68Hz)
  - o Pulse dialing: 10/20 PPS，M/B ratio 33/66，40/60 selectable
  - o Caller ID receiving: Bellcore GR-30-CORE & DTMF
  - o Ring detection: Onhook / offhook control
  - o Connector: 2 port RJ-45
- ► Extension interface
  - o Loop start
  - o DC Supply: 50v (standby)
  - o Loop current: 25mA
  - o Frequency response: 200~3400Hz
  - o Ringing: 44Vrms (20Hz) / 60mA
  - o Caller ID generating: Bellcore GR-30-CORE / DTMF
  - o Message light: Bellcore FSD 01-02-2000
  - o Pickup/Hangup/Flash detection; Flash duration selection
  - o Connector: 2 port RJ-45

NETWORK SPECIFICATIONS

- ► Network interface: 1 Fast Ethernet port (10/100 Base-T) auto-detection
- ► Connector: RJ-45
- ► QoS：Support IP TOS (Type of Service)

SETUP AND MANAGEMENT

- ► Managing tool: Web Browser, Telnet and Console Port, SNMP, syslog
- ► Firmware upgrade: FTP / TFTP / Provision Server