

AudioCodes CPE & Access Gateway Products

CPE VoIP Gateways Application Note

OVERVIEW

AudioCodes' customer premises voice over packet media gateways enable Service Providers, Softswitch Vendors, Access Solution Vendors and System Integrators to offer bundled voice services on top of existing data networks. AudioCodes VoIP gateways accelerate operators' ability to generate higher revenues per existing customer or on-net building by interoperating with leading Softswitch, PBX and IP PBX vendors, supporting diverse call control protocols and offering a transport layer agnostic solution. End users are looking to maintain their investment in legacy PBXs, fax machines, modems and phones, while also enjoying the cost reductions and enhanced services of VoIP. Due to the high price of IP phones, vast numbers of customers continue to require VoIP gateways to interface with the packet network. AudioCodes analog and digital VoIP gateways offer superior product solutions.

THE CHALLENGE

Service Providers want VoIP Vendors to:

- Meet high voice quality expectations
- Provide immediate field-proven solutions
- Enable a seamless multi-vendor environment
- Offer low cost per channel
- Support Class 5 features
- Meet lifeline requirements
- Provide long-haul support to reach remote terminals from building basements or rooftops

Softswitch Vendors need to:

- Support various call control protocols
- Minimize interoperability efforts across different access technologies, and channel requirements for residential, small, medium, or large enterprise customers
- Allow for customization or modification ranging from the algorithms to the enclosure level

THE SOLUTION

AudioCodes' offered solution is comprised of the MediaPack (MP) family of Analog Gateways and the Mediant™ 2000 Digital Gateway. The MediaPack family offers diverse analog channel densities. The Mediant 2000 offers diverse digital T1/E1/J1 trunk densities. Both are based on field-proven and best of breed VoIP technology. The versatile offering provides an extensive solution for connecting analog terminals, PBXs or key systems to the IP network

using FXO, FXS, or digital T1/E1. Taking advantage of AudioCodes' extensive interoperability investments, Service Providers, System Integrators and Access Solution Vendors can choose from many of the leading Softswitch Vendors in the marketplace to achieve a complete VoIP solution. The wide selection of AudioCodes' softswitch partners empowers AudioCodes' customers to invest in the solutions best suited to their business priorities. AudioCodes has developed the solution set from core algorithms to the enclosure level making it possible to customize the product, deliver best of breed voice quality, and offer the best value in the industry.

THE ADVANTAGES

- Install on any type of access layer technology
- Use any of the leading VoIP standard protocols
- Maintain highest voice quality along with lower price per port
- Provide a large variety of interoperable softswitches
- Offer a flexible range of legacy interfaces such as T1, E1, FXO, and FXS
- Connect fax, analog phone or modem to any port, any time

SYSTEM ARCHITECTURE

AudioCodes analog and digital VoIP gateways support Class 5 features, remote management and software download, and lifeline connectivity in case of network or power fail-over (for the MediaPack™ family). The MediaPack family supports long haul connectivity of more than 3,000 meters (10,000 feet), enabling installation in a basement, on a roof or in a service closet of an office building, multi unit dwelling, or an enterprise site. Unlike IADs, CPE VoIP Gateways are stackable without unnecessary duplication of WAN data network interfaces. Moreover, a high-end router can serve an enterprise or a building connected to several VoIP Gateways. Since the solution is Ethernet based, it is transport layer-agnostic and can connect behind access devices such as T1, E1, FR, Fixed Wireless, Fiber, xDSL, Cable or Cellular. AudioCodes' VoIP Gateways support H.323, MGCP, SIP, MEGACO and a proprietary protocol that can run in parallel with one of the standards to enhance feature support. In addition, the product portfolio offers ranges of 2, 4, 8 & 24 analog universal ports and 1,2,4,8 & 16 T1/E1 digital trunks in the digital gateway – all while maintaining common software. With all these benefits considered, AudioCodes' Softswitch partners can minimize their interoperability challenges and focus on customer satisfaction issues.

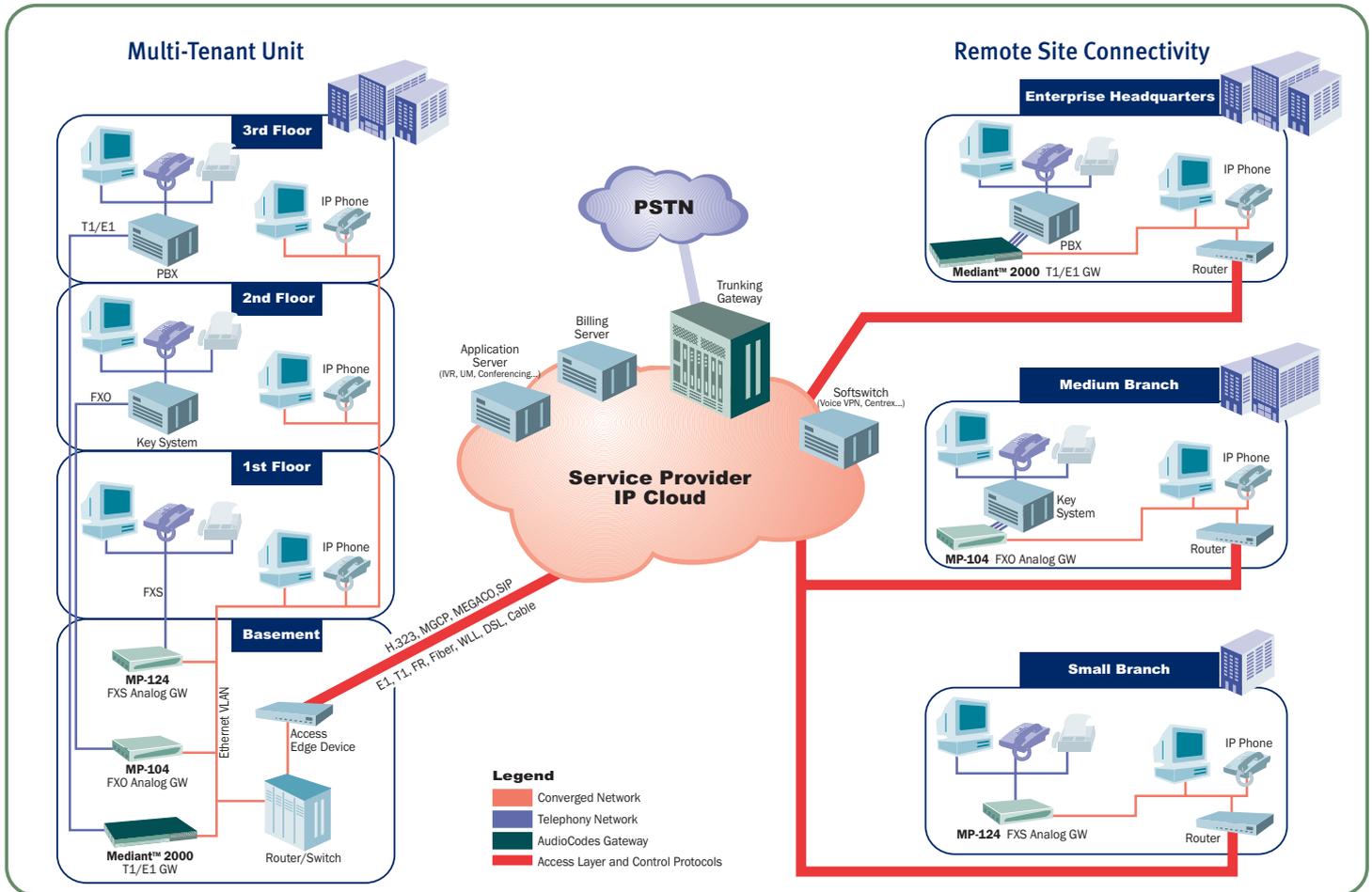
THE BOTTOM LINE

- Connect customers' distributed remote sites over existing data networks
- Allow end users to migrate to VoIP while maintaining their existing legacy investment
- Lay the ground for newly enhanced converged services
- Optimize capital expenses by serving a Multi Tenant Unit from its basement



CPE VoIP Gateways

LEVERAGING DATA INFRASTRUCTURE USING CPE VOIP GATEWAY



ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC) enables the new voice infrastructure by providing innovative, reliable and cost-effective Voice over Packet technology and Voice Network products to OEMs, network equipment providers and system integrators. AudioCodes provides its customers and partners with a diverse range of flexible, comprehensive media gateway and media processing technologies, based on VoIPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture. The company is a market leader in voice compression technology and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, and enhanced voice services markets. AudioCodes enabling technology products include VoIP and CTI communication boards, VoIP media gateway

processors and modules, and CPE devices. AudioCodes' headquarters and R&D facilities are located in Israel with an R&D extension in the U.S. Other AudioCodes' offices are located in Europe, the Far East, and Latin America

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