AudioCodes Solutions for Open IP-PBX Deployments

Robust Platforms for Hosting IP-PBX Applications
AudioCodes offers two platforms for hosting IP-PBX applications: the Mediant 1000 and Mediant 800. Both platforms are available as pure VoIP gateways or as Multi-Service Business Gateway (MSBG) devices with additional Enterprise Session Border Controller (E-SBC) functionality and data networking capabilities.

Built-in Server Module Enables Integrated IP-PBX Solutions
AudioCodes Mediant 800 and 1000 MSBG products extend the flexibility of the Multi-Service Business Gateway with the built-in Open Solution Network (OSN) server option. The OSN module is a fully-fledged server based on an Intel processor which resides on the Mediant MSBG platform. Independent Software Vendors and OEM customers can utilize the OSN to host their own applications saving on costly hardware, reducing equipment footprint and minimizing integration headaches.

Connect to the PSTN with Trunk Media Gateways
Interconnectivity with the PSTN is still a necessity for enterprise VoIP deployments, including fallback to the PSTN to ensure continuous service when the external VoIP connections are interrupted. AudioCodes Trunk Media Gateways provide the essential interface between VoIP networks and the PSTN. They support a wide variety of digital and analog telephony interfaces (E1/T1, BRI, FXO/FXS) with flexible density options to suit any deployment. AudioCodes underlying voice processing technology ensures exceptionally high levels of voice quality.

Enterprise Session Border Controllers for Flexible SIP Trunking
The AudioCodes family of Enterprise Session Border Controllers (E-SBCs) represents the critical demarcation point between the enterprise VoIP network and the SIP trunking service provider domain. AudioCodes E-SBC products have proven interoperability with leading IP-PBX vendors and major SIP Trunking providers, ensuring that SIP trunks can be deployed quickly and with minimal effort. E-SBC functionality is supported on AudioCodes Media Gateways and MSBGs via an additional software license, or as a standalone platform.

Multi-Service Business Gateways – Integrated Voice and Data on a Single Platform
AudioCodes Multi-Service Business Gateways (MSBG) represent an all-in-one multi-service access solution, especially suited to distributed enterprise deployments. AudioCodes MSBGs are based on AudioCodes highly interoperable Media Gateway platforms which support a mix of digital and analog interfaces, strong voice processing capabilities and SIP protocol mediation. AudioCodes Media Gateways are optimized for wire-speed delivery of data services, supporting multiple LAN ports with an integrated switch module enabling support for IP phones and other PoE-powered devices. The MSBGs are equipped with a versatile WAN interface supporting copper and optical Ethernet, and a selection of serial data transmission interfaces. Data routing capabilities are provided by static as well as dynamic routing protocols.

Reduce Processing Load with a Built-In DSP Farm
To minimize the extra processing demands of DSP intensive applications, AudioCodes platforms support an advanced, on-board DSP Resource Farm. This enables the implementation of narrowband and wideband High Definition VoIP (HD VoIP) media processing services, such as announcements, recording, IVR, conferencing and transcoding, all controlled by standard protocols (e.g. SIP and MSCML).

Enterprise IP Phones with HD VoIP Support
The AudioCodes 300HD Series of High Definition (HD) IP Phones includes a number of models, each suited to the requirements of different types of business users. All models support HD VoIP with Power over Ethernet as an option. With full SIP support, the 300HD Series IP Phones can integrate with a wide range of IP-PBXs, softswitches and other SIP-based application servers, including full interoperability with Asterisk.

Enhanced Voice Quality with HD VoIP
AudioCodes High Definition VoIP - HDVoIP - technology is embedded in a wide range of feature-rich and scalable products. AudioCodes Gateways, IP Phones, and soft clients enable true HD transcoding between different wideband coders (i.e. G.722, AMR-WB and Microsoft RTA) resulting in wideband voice quality end-to-end and an enhanced user experience.

SIP-Based Mobile Clients Enable End-User Mobility
The AudioCodes Enterprise Mobility SIP Client enables employees to connect to the IP-PBX via their smartphone device, PC or web browser. By configuring the clients as VoIP extensions of the business IP-PBX, workers can appear as connected to the IP-PBX even when on the road. AudioCodes Mobility Clients are available for most popular smartphone operating systems, including Apple iOS and Google Android.

Seamless Interoperability with SIP Devices and Applications
With over fifteen years of experience developing and deploying complex VoIP products and solutions, AudioCodes understands the need for strong interoperability between different elements in the network. The AudioCodes SIP Mediation Gateway function translates between the different SIP variants implemented in SIP endpoints, IP-PBXs and the service provider network, allowing for a smooth and successful SIP trunk roll-out.

Analog Gateways Enable Smooth Migration to VoIP
AudioCodes analog media gateways enable legacy telephone and fax equipment to be connected seamlessly to the new IP based communications network. They provide full support for the SIP protocol enabling interoperability with IP-PBXs and other SIP application servers and are available in a variety of port densities. They are all based on AudioCodes field-proven VoIP technology, resulting in exceptional voice quality and reliability.

Branch Office Survivability
AudioCodes standalone survivability (SAS) agent embedded in its media gateways ensures that basic communications can be maintained at a remote office even when the link to the main IP-PBX is lost. In such circumstances, SIP endpoints at the remote office register with the SAS agent enabling calls between users at the remote office to continue. In addition, external calls can be rerouted over the PSTN.

AudioCodes Private Labeling Opportunities
AudioCodes is a leading supplier to global telecom OEM vendors. Solid experience in supporting OEM models allows AudioCodes to provide OEM vendors, large Systems Integrators and Service Providers with important services such as full private labeling of gateway hardware and software (management interface).