

AudioCodes and VocalTec SS7-SIP Solution

Mediant™ SS7-Enabled Gateway and Essentra™ CX Media Gateway Controller (MGC)

KEY FEATURES & BENEFITS

- Intelligent and flexible call routing maximizes business opportunities and network efficiency
- Unmatched SS7 capabilities, including full SS7 backhauling via SIGTRAN and support for over 60 SS7 country variants, enable large-scale global deployments
- Vendor neutrality facilitates easy integration within multi-vendor network solutions
- Multi-protocol interworking, supporting SIP/SIP-T/Q.1912.5, Megaco/H.248, SS7/ISUP, and SIGTRAN, allows for quick and easy deployment
- Carrier-grade reliability based on NEBS level 3-certified hardware and full component redundancy ensures 99.999% availability
- Enhanced scalability enables cost-effective incremental growth of ports, call capacity and services

Operators of wholesale and retail long-distance networks are migrating their legacy trunking networks to VoIP-based next-generation networks (NGNs) to reduce operating costs and enhance service flexibility. At the same time, VoIP service providers are looking for a cost-effective solution to connect their networks to the PSTN.

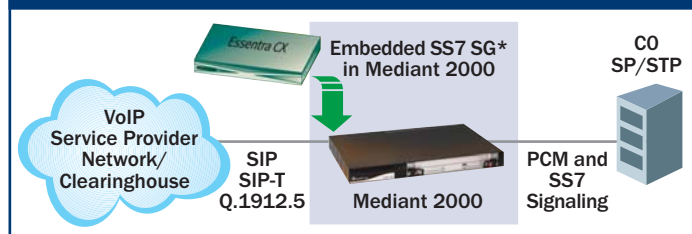
The Mediant™ Series are robust and standards-based media (trunking) gateways with embedded SS7 (M3UA) connectivity, controlled by the MGC using Megaco/H.248 control protocol.

Essentra CX Media Gateway Controller is a scalable, carrier-grade SIP-based MGC that offers high-quality voice services, carrier-grade reliability and maximum service flexibility. With its open interfaces to non-proprietary media devices and application servers, Essentra CX facilitates the creation of best-of-breed network solutions.

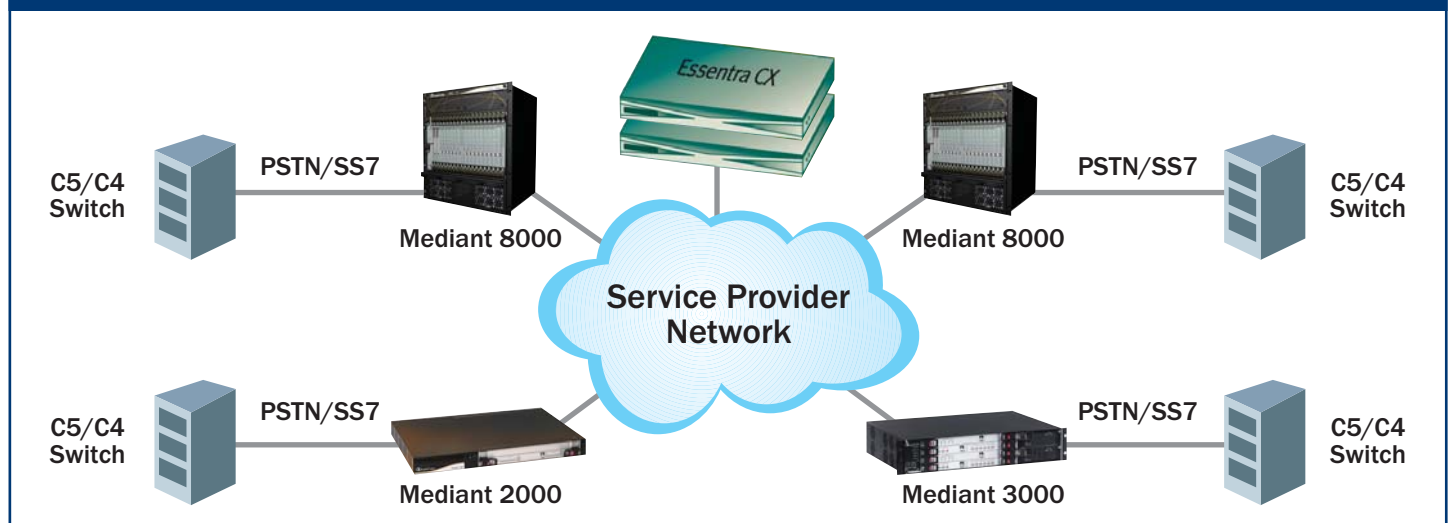
The Mediant and Essentra CX is configured as a distributed “Class 4” solution using the Mediant media gateway for SS7 signaling and PCM trunking and the Essentra CX as the MGC.

The AudioCodes and VocalTec SS7-SIP solution enables smooth migration to NGNs, while maintaining seamless connectivity to PSTN/SS7 services. In addition to controlling media gateways, Essentra CX provides intelligent call control, an advanced routing engine, and PSTN SS7 signaling support, providing control and interworking functionality.

Complete SS7-SIP gateway solution



IMS-TISPAN Ready: MGCF, BGCF, SGF, T-MGF.



* Contact AudioCodes for Details



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SPECIFICATIONS

Protocols	
SIP	SIP Redirect, RFC 3261 Session Initiation Protocol, RFC 2327 Session Description Protocol (SDP)
Megaco/H.248	IETF RFC 3525 (base protocol), ITU-T H.248.1 (base protocol), H.248.2 (fax packages), H.248.8 (error code and service change reasons)
Other Related Protocols	T.38 fax relay DTMF RFC 2833, in-band and out-of-band
Carrier Grade Features	
High Availability	99.999% availability No downtime and no call loss No single point of failure
Redundancy Scheme	1+1 high availability
Regulatory	NEBS compliant
PSTN Interfaces and Port Capacity	
Mediant 2000	E1/T1/J1 (480 ports)
Mediant 3000	OC-3/STM-1/T3 (over 2000 ports)
Mediant 8000	OC-3/STM-1/T3 (over 16,000 ports)
Routing	
Policies	Source-based, time-based, random, weight-based, locality, prefix-based, codec negotiation
Number Analysis	Calling party and called party number analysis and called party number analysis
Call Control Functionality	
Channel Selection Order	Ascending, descending, random, odd/even, longest idle, cyclic (up/down), and others
Resource Availability	Support for resource availability and routing calls to available resources
Number Manipulation	Modify calling party number Modify called party number Modify number to carriers' dialing/routing plan
Number Screening	CLIP/CLIR support
Session Admission Control	Admission control based on origination and available resources
Signaling	
End-to-End SS7	Sigtran support for signaling allowing for transport of ISUP parameters end to end via SIP SIP T/I
Glare Resolution	Support for glare resolution methods; support for dual seizure resolution procedures Q.764
SS7 Flavors	Support for over 60 SS7 national variants
Accounting	
CDRs	RADIUS interface support Successful and unsuccessful calls
Hardware Components	
MGC Server - Essentra CX Host	IBM BladeCenter T IBM x3550
SS7 Signaling Gateway	AudioCodes Mediant Signaling Gateway platform
Management	
Configuration and Management	Advanced web-based management; XML; SNMP traps Version 3
Scalability	Distributed MGC platform provides unlimited scalability through adding blades to the IBM BladeCenter T

ABOUT AUDIOCODES

AudioCodes Ltd. (NASDAQ: AUDC), Your Gateway to VoIP, provides innovative, reliable and cost-effective Voice over Packet (VOP) technology and Voice Network products to OEMs, Network Equipment Providers, Service Providers and System Integrators worldwide. AudioCodes provides a diverse range of flexible, comprehensive media gateway and media processing technologies (based on VolPerfect™ – AudioCodes' underlying, best-of-breed, core media gateway architecture) and Session Border Controllers (SBCs). The company is a market leader in product development, focused on VoIP Media Gateway, Media Server and SBC technologies and network products. AudioCodes has deployed tens of millions of media gateway and media server channels globally over the past few years and is a key originator of the ITU G.723.1 standard for the emerging Voice over IP market. The Company is a VoIP technology leader focused on quality, having recently received a number one ranking from ETSI for outstanding voice quality in its media gateways and media servers. AudioCodes voice network products feature media gateway and media server platforms for packet-based applications in the converged, wireline, wireless, broadband access, enhanced voice services and video markets. AudioCodes enabling technology products include VoIP and CTI communication blades, 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. For further information on AudioCodes, visit www.audiocodes.com

ABOUT VOCALTEC

VocalTec Communications (Nasdaq: VOCL) is a leading global provider of carrier-class multimedia and voice-over-IP solutions for communication service providers. A pioneer in VoIP technology since 1994, VocalTec provides proven trunking, peering, access gateway and service delivery solutions that enable flexible deployment of next-generation networks (NGNs). Leveraging a unique combination of cutting-edge technologies and interoperable solutions, VocalTec maintains a solid track record of successful deployments worldwide. VocalTec has played a central role in the implementation and support of dozens of advanced telecom solutions, specializing in the smooth migration of voice networks from TDM to ATM and IP. Partnering with prominent system integrators and equipment manufacturers, VocalTec serves an installed base of leading carriers including Deutsche Telekom and Telecom Italia San Marino. www.vocaltec.com

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