



Solution Highlights

MIND-iPhonEX support of Cisco VoIP gear

- Turn-key solution for prepaid & post-paid services
- "Pay as you grow" implementation
- Proven track record with more than 50 joint customers

VoIP markets and MIND-iPhonEX

MIND-iPhonEX solutions together with Cisco voice products target a variety of service providers, such as broadband, cable, mobile, IXC, ILEC/CLEC and ASPs, dealing with international wholesale termination, transit voice services or retail VoIP. MIND-iPhonEX supports each of these services concurrently on the same platform, allowing service providers to grow from one market into the next without changing their OSS solution.

MIND-iPhonEX provides a complete line of billing and customer care functionalities including real-time and batch

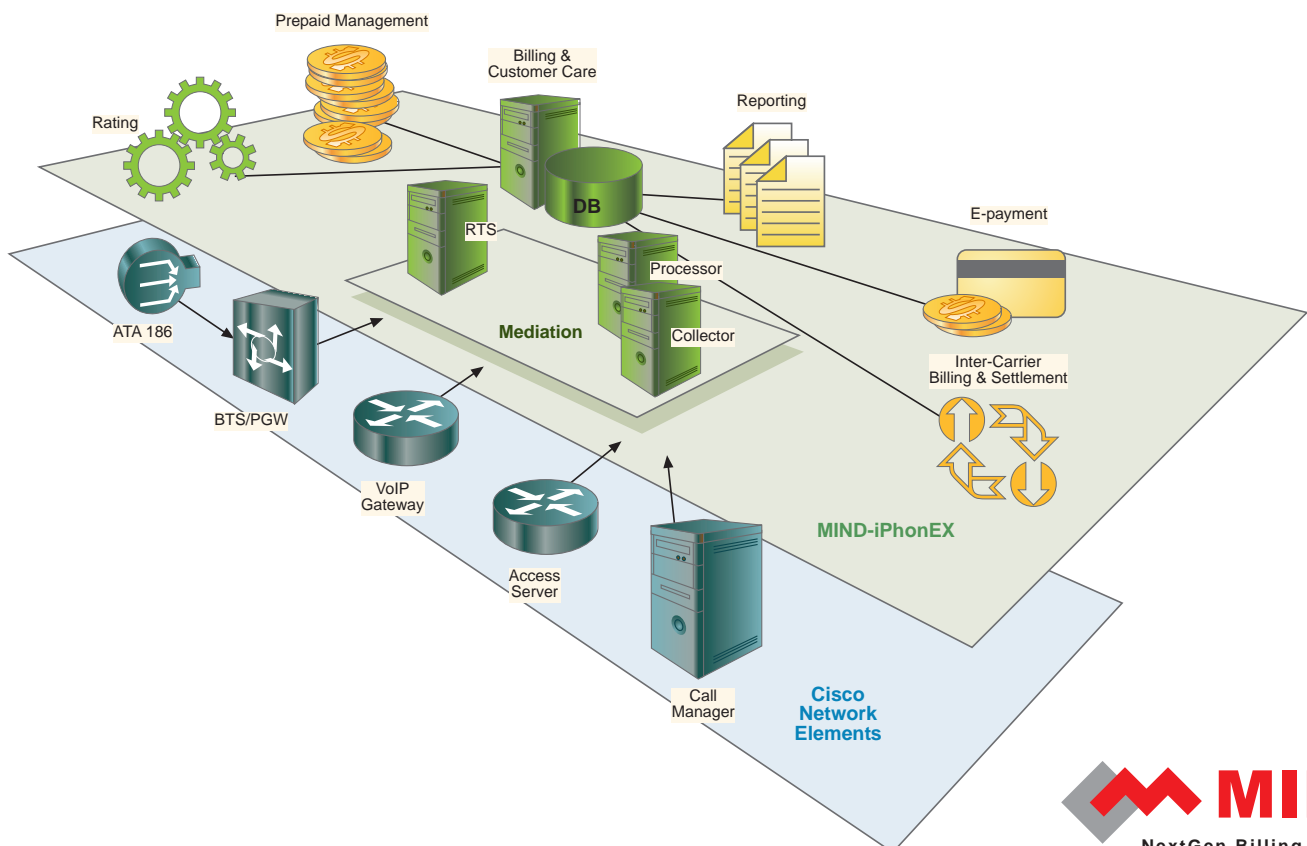
MIND-iPhonEX[®]
Billing & Customer Care

mode mediation, rating, billing, settlement, reporting, customer care and customer self-care.

Business solutions

MIND provides billing solutions for voice service providers offering retail services to business and/or residential end users and for providers offering wholesale or transit services to other service providers. In the Virtual Service Provider (VSP) model, other service providers and content providers can manage their own business, including enterprise and carrier hierarchies, within a single system.

MIND-iPhonEX is the Authentication, authorization, Accounting (AAA), rating, billing, and customer-care system used with Cisco gateways in more than 50 installations worldwide. MIND-iPhonEX supports a wide variety of retail solutions, including voice VPN, unified communications,



enhanced services over broadband and Class 5 softswitch solutions. With MEIPS -its companion enterprise solution-, MIND-iPhonEX, extends the service provider's value into the enterprise network with enterprise call management functions.

MIND-iPhonEX is integrated with a wide range of Cisco gear supporting H.323, SIP and MGCP as the signaling protocols. For international wholesale and voice transit services, MIND-iPhonEX supports SS7/ISUP data in the billing record, enabling the same services and inter-carrier settlement functions that circuit-switched solutions provide.

Real-time AAA and mediation
MIND-iPhonEX acts as the real-time AAA server for the voice PGW 2200s, proxies, gateways and gatekeepers. Each subscriber is authenticated in real-time based on the ANI or user code and PIN. Each call is then authorized based on the number dialed and the subscriber profile. For prepaid customers, the actual balance is checked, and the allowed duration of the call is returned based on the relevant tariff. The MIND-iPhonEX AAA server is seamlessly integrated with Cisco IVR solution.

MIND-iPhonEX can also import CDR batch files from the BTS softswitch or poll the Cisco Call Manager, making residential services seamless. Moreover, MIND-iPhonEX can deliver the CDRs to either the MIND-iPhonEX billing function, or export them to legacy systems.

Comprehensive rating and service bundling

The MIND-iPhonEX rating engine offers flexible rating methods for VoIP services. The MIND-iPhonEX rating engine supports setup, recurring and usage charges. Usage charges can be based on various parameters

including duration (dropping rates), call origin and destination, on-net and off-net combinations (for VPNs), time-of-day, etc. For fax services, additional per-page and priority charges can apply. In addition, traditional telephony charging features, such as call increments, CAP, initial charge per call and maximum daily usage limit are available.

Prepaid for SIP networks
MIND-iPhonEX provides full prepaid solution based on the SIP protocol, by connecting directly to a Softswitch or any other call routing network element. This SIP application server implementation provides full call control capabilities , internal IVR , and connection to external media servers, thus allowing incumbent and new entrants to implement complete SIP-based prepaid services in their network.

OSS functions: traffic analysis and call management

The solution includes traffic analysis and call management modules that provide queries and reports on customer usage and network resources. The reports can be automatically scheduled and sent to any service administrator. A fraud module provides fraud detection based on user-defined rules meeting the service provider's business and network architecture.

MIND-iPhonEX fits the bill for Cisco solutions

Whether using the complete suite of MIND-iPhonEX functions or integrating critical modules, such as the real-time AAA and CDR mediation subsystems, into a legacy solution, service providers find MIND-iPhonEX the one system necessary for a complete solution across their diverse Cisco VoIP infrastructures.

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