

Essentra™ BAX: Application Server

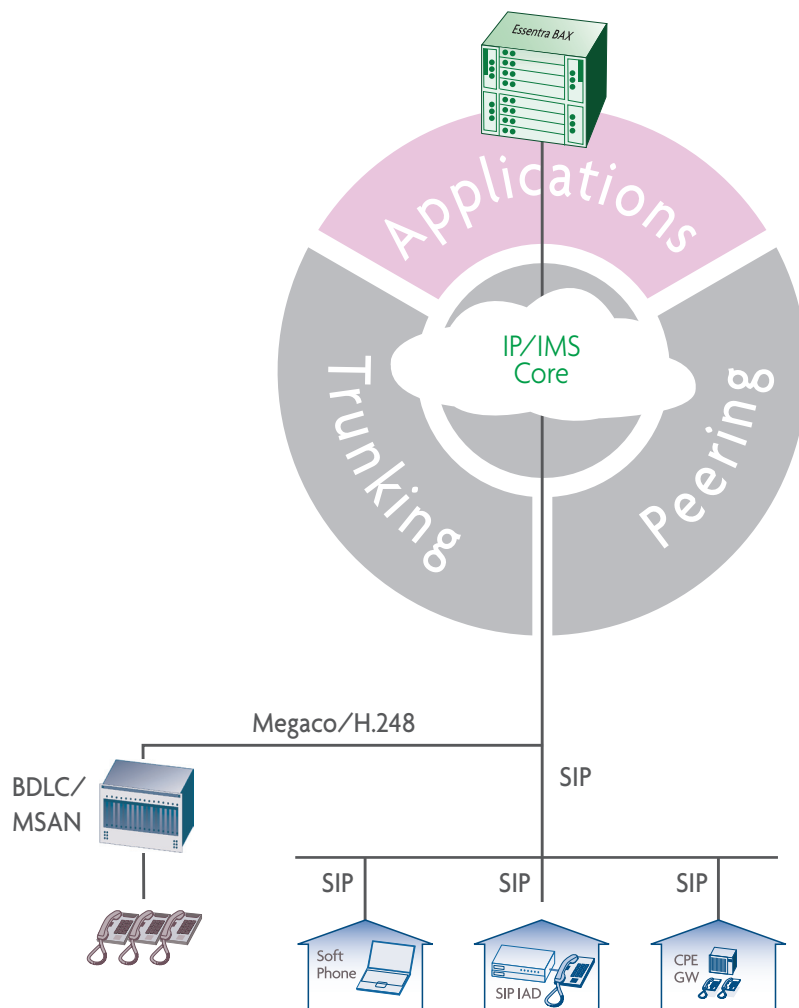
Service providers are looking for ways to leverage the burgeoning broadband access market in order to introduce new revenue-generating IP communications services. Enabling the delivery of residential and hosted enterprise VoIP services over any broadband infrastructure, VocalTec's Essentra BAX Application Server helps service providers take advantage of evolving IP opportunities.

Based on over a decade of leadership in VoIP solutions, Essentra BAX offers service providers an efficient solution for delivering broadband VoIP services, with the capability of scaling up to millions of subscribers over time. Featuring carrier-grade availability, Essentra BAX supports traditional subscriber calling features, such as call waiting and call forward, as well as a wide range of cutting-edge IP features including click-to-dial, attendant console, auto-attendant and others. For enterprise customers, Essentra BAX supports VoIP virtual private networks (VPNs) and an array of IP-Centrex features. Equipped with a web-based subscriber self-provisioning interface, Essentra BAX enables subscribers to manage their own services, thereby enhancing the user experience while reducing operating expenses (OPEX) for service providers.

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Features & Benefits

- Broad range of subscriber calling features creates new revenue-generating opportunities
- Hosted enterprise services, including VoIP VPNs and IP-Centrex, serve multiple enterprise customers with networks distributed over wide geographic areas
- Enhanced scalability enables gradual growth of subscriber base while maintaining entry-level cost efficiencies
- Carrier-grade availability ensures maximum network utilization and service usage
- Fully customizable web-based management at administrator and subscriber levels facilitates management and monitoring, while lowering operating costs
- Proven interoperability with leading SIP devices and Megaco/H.248 access gateways facilitates quick and easy deployment
- Immediate and transparent integration with PSTN and VoIP networks reduces time to market for new services



VoIP Protocols

- SIP B2BUA, SIP Proxy, SIP Registrar
SIP (RFC 3261, 3262, 3264, 3265, 2327, 2976, 3326, 3842)
- Megaco/H.248 Line side control of access gateways for supporting legacy POTS deployments connected to BDLCs/MSANs
- Interworking with H.323 in conjunction with Essentra EX Peering Manager

Interoperability

Multi-vendor interoperability including support for wide variety of SIP-based endpoints: IADs, SIP phones, soft phones and gateways

Call Features

Subscriber Call Features:

- Call waiting
- Call forward
 - Unconditional
 - On busy
 - On no answer
 - Offline
 - Group based
- Caller ID sending/blocking
- 3-way calling
- Automatic redial
- Repeat dial
- Call return
- Call transfer
- Call hold
- Do not disturb
- Timed do not disturb
- Anonymous call blocking
- Outbound call restriction
- Selective call rejection
- Find me/Follow Me
- Personal speed dial
- Peer-to-peer video calls
- Click-to-dial
- Emergency call support
- Wakeup call
- Malicious Call
- Hotline/Delayed hotline
- Self ringing

IP Centrex Features

- Subscriber call features - see call features
- VoIP VPNs
 - Private numbering plans
 - VOIP trunking for existing PBX location
- Calling features
 - Music on hold
 - Hunt groups
 - Call park/pickup
 - Boss/secretary filtering
 - Selective call rejection
 - VPN speed dial
 - Peer-to-peer video calls
 - Billing codes
- Applications
 - Attendant console
 - Multi-party ad-hoc bridge conferencing
 - Integrated automated attendant system
 - User-configurable flows and announcements
 - Time-based call flows
- Management
 - Web-based management
 - System level
 - Reseller level
 - Enterprise level
 - Web-based self-provisioning portal
 - Multi-level call long and statistics
 - Class of service
 - Camp on busy
 - DID

Essentra BAX-VM Integrated Voicemail System

- Calls routed to voicemail under defined conditions
 - No answer, busy, subscriber off-line/unreachable
- Administrator control over voicemail boxes
- DTMF-controlled voicemail menu
- Personalized greetings
- Message waiting indication

Routing

- Policies: source, time, prefix
- Random selection between terminating trunking gateways
- Use enterprise CPE gateways for terminating off-net calls
- Enhanced routing capabilities enabled in conjunction with Essentra EX
- Alternate endpoints for improved call completion

Hardware Specifications

- IBM BladeCenter-T
- IBM xSeries 3550

Management and Accounting

Configuration and Management

- Advanced web-based management for subscriber self-provisioning web interface includes:
 - Service activation/deactivation/configuration
 - View call logs
 - Modify personal details
 - Contact service provider
- System/enterprise administrator Web interface includes:
 - Account creation/activation/deactivation
 - Service configuration
 - System/VPN monitoring and statistics
- Service activation via activation codes entered on subscriber's handset
- Fully customizable Web interfaces

CDRs and Billing

- Successful and unsuccessful call
- CDR files for offline billing (through FTP)
- Built-in RADIUS client for real-time integration with prepaid/postpaid billing system

Carrier Grade

- 1+1 high availability
- No downtime and no call loss through server clustering and call state replication
- 99.999% availability
- No single point of failure
- No downtime and no call loss
- NEBS (Level 3) compliant

NAT Transversal

- Built-in STUN server
- Built-in media relay function

Security

- SIP digest security
- HTTPS support between provisioning interface and Essentra BAX
- Pinhole firewall

Regulatory/Lawful Interception

- Support for emergency call routing
- Support for CALEA Lawful Interception
- Support for SORM (Russian Lawful Interception)

Capacity

- Up to 20,000 subscribers on a single TU server
- Unlimited number of VPNs
- Scalable media relay sessions: up to 10,000 sessions

Operating System

Red Hat Enterprise Linux 4

About VocalTec

VocalTec Communications (Nasdaq: VOCL) is a 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 and residential/enterprise VoIP application solutions that enable the flexible deployment of next-generation networks (NGNs). Partnering with prominent system integrators and equipment manufacturers, VocalTec serves an installed base of dozens of leading carriers including Deutsche Telekom and Telecom Italia San Marino. VocalTec is led by a management team comprised of respected industry veterans.

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