

# Verso IP-Based Voice Mail Solution

The essential network-based voice messaging solution offering huge revenue opportunities for today's service providers.



Carrier Benefits		End-User Benefits
Highly Scalable. Carrier-Grade Solution Scalable to Supporting Millions of Subscribers		Flexible. Voice Mail Access from Phone and E-Mail
Accessible. Multi-Tier Web-Based Management Lowers Operation Costs		Reachable. Multi-Device Message Notification and Retrieval
Open. Solution with Standard Protocols and APIs		Global. Multiple Language Support
Versatile. Seamless Migration to Value-Added Messaging Solutions		Customizable. Configurable greetings and message recording options

The Verso IP-Based Voice Mail Solution enables you to efficiently deliver a high-performance network-based voice mail solution to target enterprises, SMBs and residential customers. This value-added enhanced service allows you to differentiate your service offerings from the competition, increase revenues/margins and reduce subscriber churn. Voice mail is an important telephony application that has been widely adopted by residential consumers and business enterprises. As the migration from CPE-based voice mail to network-based voice mail solutions continues to accelerate, the service revenue opportunities for wire-line, wireless and cable operators enormously increase.

When combined with the Clarent Edge Access Softswitch Solution, the Verso Voice Mail Solution provides voice mail and messaging services to SIP and MGCP-based edge devices, including customer premises gateways, integrated access devices and IP endpoints. The Verso Voice Mail Solution, comprised of the Voice Mail Server, Media Server blade installed in the BHG 2500 Universal Gateway, and the Audio Provisioning Server, provides a fast and cost-effective way to deploy a ubiquitous, network-hosted voice mail solution to increase revenues and margins.

## Voice Mail Server

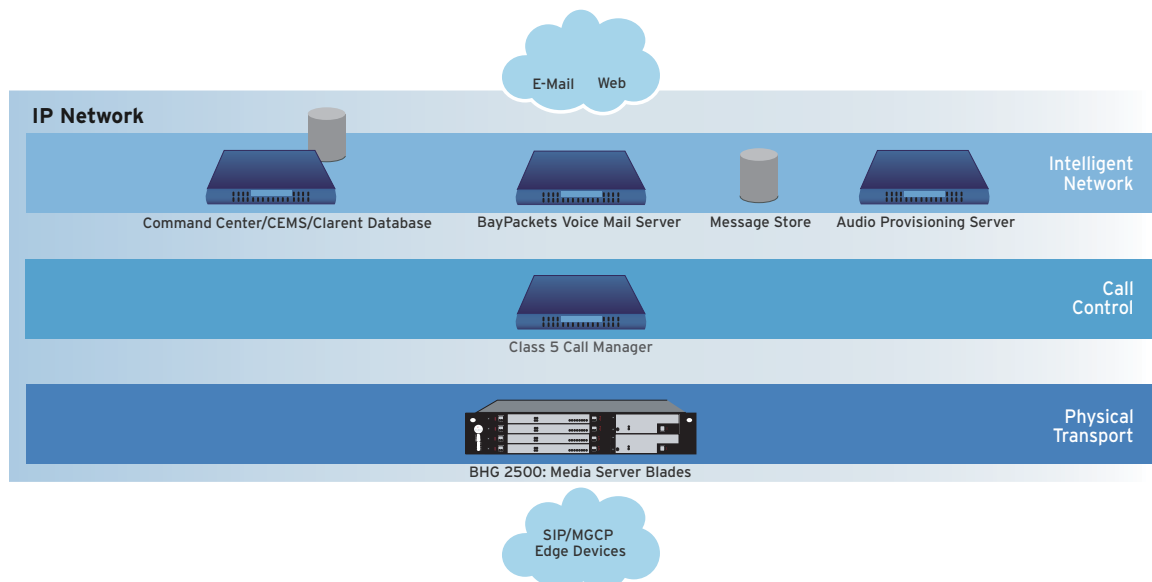
The Voice Mail Server (VMS) is the key component of the Verso Voice Mail Solution. The VMS is an enhanced next generation network-based voice messaging server providing an alternative to less scalable and flexible CPE-based voice mail solutions. The VMS offers a full range of features and functionality including multiple subscriber and caller features as well as flexible message management and notification options. The VMS is a scalable Solaris-based, carrier-grade application designed from the ground up to support millions of subscribers in today's heterogeneous circuit-switched and packet-based networks.

## Media Server Blade

The BHG 2500 Universal Gateway provides the media server component of the Verso Voice Mail Solution. The IPM-1610 media blade serves as the media server component that enables the ever expanding list of Verso's IP telephony applications such as voice mail, by providing media processing capabilities such as message record/playback, on-board announcements, voice coding, and echo cancellation.

## Audio Provisioning Server

The Audio Provisioning Server (APS) provides standard audio prompts to the Media Server blade on the BHG 2500 Universal Gateway.



# IP-Based Voice Mail Server - Key Features in the Clarent Network

## Caller Features

- Conditional greetings (Busy/No-Answer) for situation-based caller greeting
- Primary/secondary welcome greetings providing greeting flexibility
- Options for customers to configure the VMS to support Basque, Belgian/Dutch, Cantonese, Czech, English, French, Galician, German, Greek, Hebrew, Italian, Japanese, Korean, Malay, Mandarin, Spanish, Netherlands Dutch, Portuguese, Tagalog, Thai, Turkish, and Vietnamese. Other languages can be added by Verso upon request.\*
- Message recording, erase, re-record options offers callers full message control
- Message delivery options allowing the caller to mark a message urgent, private and sent

## Subscriber Features

- PIN based access for quick but secure access to an account
- Play, replay, save and delete options providing full message playback control
- Reply, forward/redirection of messages allowing for quick handling of voice mail and closure
- Listen to header info, providing the ability to rapidly scan long mail boxes

## Voice Message Service Features

- Voice messages can be played or deleted in any sequence
- Single voice mail box for multiple telephones for SOHO subscribers

## Voice Message Notification (Message Waiting)

- Voice mail notification via traditional stuttered dialtone
- Voice mail notification via e-mail and capability to play messages directly on a PC
- Voice mail notification on cell phone, PDA or pager

## Voice Message Management

- Retrieval of voice mails anywhere via phone
- Reply and forwarding of voice mails using phone
- Voice messages via e-mail with voice message as an e-mail attachment
- Personalized branding of greetings and announcements

## Voice Mailbox Provisioning and Management

- Subscriber self-provisioning of voice mail service options and voice mail user preferences
- Phone and web-interface options for setting up voice mail boxes
- Add/delete greetings, either generic, name-based, and/or customized
- Setup or reset password or PIN numbers
- Maintenance of subscriber profiles for Class of Service options such as mail box sizes
- Administrator can broadcast important voice messages to a subscriber group
- Maximum number of messages and storage limits can be set by administrator based on Class of Service
- Administrator can create/delete multiple Class of Service profiles and assign to subscribers

## OAM&P Features

- Multi-Tier Web-based Management (user, enterprise, service-provider, network-provider)
- Rule-based customization of voice mail services
- SNMP manageable, with NOC and OSS/BSS interfaces
- Statistics with operational measurements for traffic/usage and maintenance statistics
- Message Of The Day can be set by administrator

## Technical Specifications

### Voice Mail Server

- Small Platform (up to 15,000 subscribers)  
Sun Fire V240 with Solaris O/S
  - 1 @ 1.34 GHz UltraSPARC IIIi CPU
  - 2 GB RAM
  - 2x146 GB hard drive
  - 4x10/100/1000 Ethernet ports
  - DVD-ROM

### Voice Mail Server

- Large Platform (up to 30,000 subscribers)\*\*  
Sun Fire V240 with Solaris O/S
  - 2 @ 1.5 GHz UltraSPARC IIIi CPU
  - 4 GB RAM
  - 3x146 GB hard drives
  - 4x10/100/1000 Ethernet ports
  - DVD-ROM

### Media Server

- IPM-1610 media blade installed on the Clarent BHG 2500 Universal Gateway  
Density Offerings: 60, 120 and 240 media channels per blade

### Audio Provisioning Server

- Standalone Platform  
Sun Fire V120 with Solaris O/S
  - 1 @ 650 MHz CPU
  - 1 GB RAM
  - 1x73 GB hard drive
  - 2x10/100/1000 Ethernet ports
  - CD-ROM

\* Verso distributes the VMS and APS with English prompts

\*\* Larger capacity VMS platforms can be designed specifically for your network requirements.

## About Verso Technologies, Inc.

Verso is a leading provider of next generation communication solutions for carriers and service providers that want to lower their communication infrastructure costs and enhance service capabilities without sacrificing reliability, scalability and quality of service. With an extensive solutions portfolio that extends from the core to the edge of a network, Verso enables customers to leverage technology investments towards converged networks that are faster and more cost-effective to deploy and easier and more flexible to manage. Verso solutions are currently deployed worldwide in hundreds of customer networks. For more information, contact Verso at [www.verso.com](http://www.verso.com) or call 678.589.3500.



**Worldwide Headquarters**  
Verso Technologies  
400 Galleria Parkway, Suite 300  
Atlanta, GA USA 30339  
Tel: +1.678.589.3500

**Softswitch Operations**  
1221 West Mineral Avenue, Suite 100  
Littleton, CO USA 80120  
Tel: +1.303.734.5050  
Sales: [clarentsales@verso.com](mailto:clarentsales@verso.com)

Specifications are subject to change without prior notification.

©Copyright 1997-2005. Verso Technologies, Inc. All rights reserved.

No part of this publication, including text, examples, diagrams, or icons, may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical or otherwise, for any purpose, without prior written permission of Verso Technologies, Inc. Information in this publication is subject to change without prior notification. Verso Technologies, Inc. may have patents or pending patents applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this publication. The furnishing of this document does not give you license to these patents, trademarks, copyrights, or other intellectual property.

### Trademarks

Clarent, Clarent logo, Clarent Announcement Server (AS), ACTview, Clarent BHG 1000, Clarent BHG 2500, Clarent BHG 8000, Clarent OpenAccess, Clarent Command Center, Clarent Connect, Clarent Connect Proxy, Clarent Connect Clearinghouse, Clarent CPG, Clarent Database, Clarent Domain Controller, Clarent Element Management System (CEMS), Clarent Extender Director SDK, Clarent Gateway, Clarent Gatekeeper, Clarent Class 4 Call Manager (C4CM), Clarent Class 5 Call Manager (C5CM), Clarent Multipoint Signaling Server (MPSS), PowerCell, SkyPerformer and Clarent ThroughPacket are trademarks or registered trademarks of Verso Technologies in the United States and other jurisdictions. All other trademarks, registered trademarks and service marks are the property of their respective owners.  
VERSO\_VM\_SOLUTION\_0205