



# Verso Clarent® Element Management System

## Centralized Network Wide Configuration, Provisioning and Management Tool for Clarent PSTN and Edge Access Softswitch Solutions

The Clarent Element Management System enables turnkey provisioning and management of network elements, from one central application, through a user-friendly, browser-based interface.

### Centralized Access and Full Control

The Clarent Element Management System (CEMS) is a centralized application for provisioning, configuring and monitoring Clarent network elements and associations with third-party edge devices supported by Clarent softswitch solutions. CEMS provides the means to effectively and efficiently manage enterprise managed services, wholesale and retail toll bypass, IP based peering (H.323/SIP/SIP-T interconnection) and Voice over Broadband.

Unlike other vendor solutions, which employ multiple systems and data streams, CEMS combines all of the input required to process calls, from configuration of the actual network devices, to subscriber and call routing management, in order to provide error free network deployment.

### Immediate Response to Customer Demands

CEMS's integrated management of the Clarent network enables you to provide quick response to customer, partner and internal network demands. Whether it's a network technician in a remote location checking the configuration of a network port - to a marketing manager opening a new sales center and adding new service reps with order processing capabilities - to a network engineer assessing capacity requirements; as the fully integrated web-based configuration component of the Clarent network, CEMS enables these network tasks to be completed simultaneously at any location.

### Flexible Network Environments

CEMS is designed to operate over a wide range of operating and networking environments. Based on Java and web technology, CEMS is accessible from any client system with a standard web browser such as Netscape or Internet Explorer. The CEMS server can be installed on a Windows-based or Solaris-based system, and supports a MS SQL or Oracle database.

### Simplified Configuration and Provisioning

CEMS enables one step configuration, provisioning, and management of Clarent network elements, associations with third party edge devices, subscriber accounts, call rating and call routing, ingress and egress dial rules, and other network settings.

By combining network element hardware configurations with corresponding network database entries, CEMS greatly simplifies the network provisioning experience. The CEMS user interface directs you to configuration tools for each hardware and software element in the network. A simple click on the appropriate icon allows you to add new network elements or display and update existing configurations.

### Multiple Levels of User Access

CEMS allows you to establish multiple levels of user access to control configuration and monitor access. Each CEMS users is associated with access permissions enabling you to match the appropriate access level to a job role.

### Network Wide Settings via Clarent Assist

CEMS Clarent Assist allows you to configure and manage subscriber services (e.g., CLASS), extended services (e.g., emergency and operator services), call routing, call rating, and call accounting with real time database update capabilities.

### Customer Access to Accounts and Services

The CEMS Subscriber web portal enables service providers supporting MGCP and SIP endpoints to provide customers with web-based access to account information, such as call activity records; and settings for services provided to their account, such as call forwarding and speed dial.

### Real Time Control and Monitoring

CEMS offers real time control and monitoring tools, including options for:

- Start and stop applications
- View network elements - status and statistics
- Query network element attributes
- Track network statistics for analysis

### It's easy to learn more

For more information about the Clarent Element Management System and what it can do for your IP network, just call, email, or visit us online.

**Toll-free: +1.866.829.8776 (U.S. and Canada only)**

**Outside the U.S. and Canada: +1.678.589.3653**

**E-mail: [marketing@verso.com](mailto:marketing@verso.com)**

**[www.verso.com](http://www.verso.com)**

# Verso Clarent<sup>®</sup> Element Management System

## Key Features:

- Browser-based, easy configuration
- Supports Command Center, C4CM, C5CM, BHG 2500 (telephony blade and SG5600 SS7 blade), BHG 1000 and BHG 8000 (telephony blade) configuration and process management
- Real-Time Command Center and C4CM Network and Call Control Monitoring
- Supports C5CM Associations with Third-Party Edge Devices
- Multiple levels of user access to view and modify configuration settings
- Subscriber Portal providing subscribers with direct access to their accounts
- Secure Socket Layer Encryption for securing connections between clients and the CEMS server
- Seamless, one-step network configuration and provisioning
- Standardized interfaces: SNMP, XML, JDBC

## Technical Specifications

### CEMS Operating Platforms

#### UNIX Platform (Solaris O/S)

- Sun Netra T1 200 and 120 servers (NEBS compliant)
- SunFire V100/V120/V210 servers
- Solaris 8 O/S, Solaris 10 O/S

#### Windows Platform (Windows OS)

- Pentium III based platform of 600 MHz or greater
- Windows 2000 O/S
- Windows XP Professional O/S

### CEMS Database Support

- MS SQL 2000
- MS SQL7
- Oracle 9i
- Oracle 10g



**Worldwide Headquarters:** Verso Technologies • 400 Galleria Parkway • Suite 200 • Atlanta, GA. USA. 30339

Tel: +1.678.589.3653 • Toll-Free 1.866.829.8776 • E-mail: [marketing@verso.com](mailto:marketing@verso.com) • [www.verso.com](http://www.verso.com)

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