

Clarent Command Center™

Intelligent. Network. Control.

The Clarent Command Center brings intelligence, flexibility and unprecedented IP telephony network control to Clarent's highly-scalable distributed softswitch solution.



Carrier grade reliability

Distributed softswitch

NEBS compliance
(level 3 certification)

UNIX or NT

Scalable network architecture

Call detail billing support

Fault-tolerant operation

Dynamic call routing

Web-based management

Inter-network call completion
and settlement

Evolutionary solution for next generation networks

The logical course of telecommunications evolution points emphatically in one direction... converged voice and data networks. Network consolidation, downward price pressure and arbitrage opportunities are making the transition from the PSTN circuit-switching model to next generation networks crucial to the success of Tier I and Tier II providers. Designed to facilitate this migration seamlessly while simultaneously allowing telecommunication service providers to realize their existing network investments, the Clarent Command Center stands at the core of every Clarent IP telephony solution.

Provision. Manage. Control.

The Clarent Command Center is designed specifically to provide the intelligent network control of Clarent's distributed softswitch solution. This means effortless handling of billing and call record management for all networks, regardless of whether they're utilizing Clarent or non-Clarent gateways. This powerful flexibility supports hundreds of thousands of simultaneous telephone calls and can be configured to support Carrier, Enterprise and Local Access IP networking solutions available from Clarent.

Clarent Command Center allows easy access to routing tables, rating tables, subscriber information, dialing rules, and billing records as this information is gathered neatly in a central ODBC-compliant database. Because relevant information resides in a central database, service providers can easily add gateways, add subscribers, modify rating tables, reconfigure routing tables, and perform other administrative functions, all within the framework of a highly scalable distributed network architecture. The viewing and modification of content is option rich, through SQL commands or via the Clarent Element Management System. Clarent Command Center supports Oracle and MS SQL bases with ODBC and OCI interfaces and enables the export of database information to existing operations support systems and billing systems using SQL commands.

Flexible Call Rating – Call rate down to a single, specific telephone number and set different inbound and outbound charges for each route, including internal corporate calls and external off-net calls. Rating can be dependent on time of day, special weekend and holiday rates, elapsed time, calling card number, and a host of other parameters. Free calls or call blocking can be set for individual destinations and egress charges can be included in customer billing for calls made across other networks.

Billing options – Clarent Command Center supports standard open-account billing and debit cards. Accounts can be grouped to track sales or to announce special messages and new features. Clarent Command Center handles billing in real time to prevent duplicate simultaneous usage of debit cards. At account expiration, a voice prompt warns the customer before ending the current call.

Dynamic call routing – Clarent Command Center routes each call based on the full 10-15 digit phone number, or any other number of abbreviated digits. The system works seamlessly with both new and existing abbreviated dialing plans so that users don't have to change their dialing behavior. Large scale, complex dialing plans are easily implemented and managed through an automated dial plan loading and the digit translation feature. Because calls can be routed to specific ports on the egress gateway, gateways can be shared between multiple enterprise customers. A secondary route can be specified for instances when the primary egress gateway is unavailable. Also, optional fall-back to the PSTN can be configured during times of high network congestion for guaranteed call completion.

Call detail records – Database records display both inbound and outbound call information with more than 30 parameters including customer account, time and duration of call, destination and call termination code.

Class of service – Different service profiles can be developed on an enterprise-wide basis, or tailored for specific groups of users. Service profiles can be defined by specifying the codec and availability of fax, data or roaming.



CLARENT®

Clarent Command Center



Web-based management – The Clarent Element Management System offers service providers total network administration and control over routing, rating, billing and subscriber tables from a standard web browser. Ever expanding network management functionality, Clarent also offers the Clarent Domain Controller, which provides Clarent customers a similar web-based tool for managing subscriber directories and service profiles. Standards-based network management supports a rich set of SNMP services and LanManager, and Clarent products easily integrate into Telecommunications Management Network (TMN) environments.

Accounting code support – To easily distinguish between calls made for specific clients or internal departments, Clarent customers need only enter a simple digit code before each call.

Inter-networking – Add the Clarent Connect software to Clarent Command Center and service providers not only enable call completion into partner networks, but can extend geographical coverage without additional capital expenditure. Also, billing records support roaming and settlement between independent networks.

Fault-tolerant – With multiple Clarent Command Centers running on separate machines, service providers can build fault tolerant IP telephony networks with uninterrupted network uptime. Furthermore, the entire flexible distributed NGN solution architecture promotes independent sub-system growth. This delivers the ultimate in economies of scale, and guarantees the ability to grow in lock step with the telecommunications industry.

Hardware platform – The Clarent Command Center can be purchased as software on a CD-ROM or provided on a server as a complete solution with all license keys included. Simply establish network connections and Clarent Command Center is ready for set up and operation.

The server characteristics include:

- 600 MHz processor
- 256 Mbytes of RAM
- 1.44 Mbyte floppy disk drive
- 10.6 EIDE GByte hard drive
- 32x CDROM EIDA drive
- Dual 250 watt, 115/230 VAC or –48 VDC
- Hot-swappable power supplies
- 10/100BaseT Ethernet connection with RJ-45 cat-5 cable

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