Clarent® Class 4 Call Manager

Call Control for the Clarent Class 4 Softswitch.

The **Clarent Class 4 Call Manager** is the definitive call control element of Clarent's distributed softswitch solution, and provides a true IP alternative to the traditional TDM switch.

- Carrier grade
- Distributed softswitch
- NEBS level 3 compliance
- UNIX
- Connection control (setup and teardown)
- Media control via Clarent BHG™

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.

The Clarent NGN (Next Generation Network) is designed specifically to facilitate this migration seamlessly, while simultaneously allowing carriers to leverage their existing PSTN investments. The Clarent NGN is an intelligent aggregate of cost effective, highly flexible products and services that provide the perfect solution for continued success and profitability in providing the next generation of voice services.

Authenticate. Connect. Control.

The Clarent Class 4 Call Manager is the strategically crucial central call control element of Clarent's end-to-end NGN distributed softswitch solution. This tandem Class 4 call manager cost effectively performs the key functions of managing active calls, processing and generation of call signaling protocols, interfacing with the Clarent Command Center to query for and execute intelligent call routing decisions, extract and populate the CCC database with information such as CDRs, and most importantly, the full intelligent control of the Clarent BHG (Backbone High-density Gateway).

The interfaces between the Clarent Class 4 Call Manager and trunking gateway includes MGCP for control of SS7 calls. Adopting these open protocols assures that the Clarent Class 4 Call Manager will offer a smooth integration for Clarent customers to the next level of telephony evolution as media gateways evolve.

Clarent Class 4 Call Manager joins with each element of the Clarent NGN solution to form a flexible architecture allowing for independent sub-system engineering and modular growth. This delivers the ultimate in economies of scale, and flexibility, and guarantees the ability to grow in lock step with the telecommunication industry as subsystems evolve in the future.

CLARENT®

Features & Benefits

Telco Grade – Carrier Class Reliability & Serviceability
- Multi-protocol capability
- Discrete form factor
- Carrier-class performance
- Scalability
- Open architecture
- Support for multiple applications

Availability
- Call manager high availability service
- Cost effective Interlace redundancy
- N+1 redundancy available Q102

Capacity
- Matched call manager-gateway capacity engineered
- 960 trunking gateway ports per Clarent Class 4 Call Manager server
- 32 Clarent Class 4 Call Manager servers per equipment rack provides up to 1M BHCA per rack
- Professional services support of network / capacity engineering to match customer configuration

Universal Offering
- NEBS level 3 compliance
- Unix-based

Protocols
- MGCP protocol platform system integrated with BHG blades and enables interoperability with third party MGCP trunking gateways
- Audio Codes TPNCP protocol support for control of ISDN PRI calls on BHG trunking GW
- Clarent ThroughPacket™ service for higher efficiency audio service and compatibility with smaller legacy Clarent gateways.

Call Control
- Clarent Class 4 Call Manager provides call control of NEBS-compliant high-density trunking gateway
- Supports 64 E1 or 80 T1 interfaces per BHG
- Works with Clarent Announcement Server™ for Credit Card / IVR service

Key Clarent Gateway & Clarent Command Center Functionality
- Single stage dialing service
- Clarent credit card and IVR services

Trunk Types
- ISDN,and SS7 trunk types (standard ANSI / ITU variants),
- MF trunking support under development
- Country variants supported as per opportunity, and in conjunction with the Clarent MPSS signaling server.

Compatibility and Interoperability
- Clarent gateways
- Clarent Command Center ™
- Clarent Class 5 Call Manager
- Clarent Gatekeeper
- Clarent Announcement Server
- Clarent MPSS SS7/C7 signaling server
- Clarent Element Management System (CEMS)

OAM&P Services
- Java GUIs (provided via Clarent Element Management System)
- SNMP traps

Fax & Data Modem Support
- Fax support (9.6 and 14.4 kbps) and data modem support (28.8 and 56K)

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