

The Clarent Class 5 Call Manager (C5CM) brings to market the critical features and functions demanded by NGN service providers. This enables carriers to offer advanced residential and enterprise communication services.

The C5CM delivers central office switch features for enterprise managed services; for wholesale, residential, and SOHO (small office/home office) applications; and for other next-generation voice solutions as well. As a key component of the Clarent Edge Access Softswitch, the C5CM offers service providers a true end-to-end VoIP solution.

THE KEY TO TRUE END-TO-END VOIP

The C5CM serves as the central call control and supplementary service management engine for the Clarent Edge Access Softswitch. It can route calls to partners' IP networks and global clearinghouses and, when combined with the Clarent PSTN Access Softswitch, it can route calls directly to the Public Switched Telephone Network (PSTN). This enables service providers to make full use of their legacy assets while greatly reducing CapEx and OpEx.

The C5CM dramatically reduces the need for carriers to pass calls through competitors' networks and incur any additional transport costs. It provides everything needed to support a true end-to-end, carrier-based VoIP solution.

VOICE OVER BROADBAND

The C5CM provides feature-rich Voice over Broadband (VoBB) to enterprise and residential markets over any broadband medium including satellite, cable, xDSL, wireless, fiber, microwave, and power-line networks. You can create true satellite offices with the same access and dialing plan capabilities as corporate PBX stations by combining the VoBB and enterprise managed services features.

SCALABILITY AND FLEXIBILITY

The C5CM grows seamlessly, allowing you to provision as many or as few ports as needed, and it easily scales when additional capacity is required. A single C5CM can also provide support for multiple applications within a single network design.

CALL CONTROL FOR NEXT-GENERATION VOICE SOLUTIONS

The C5CM provides:

- » business phone and enhanced supplementary services for use in consumer and enterprise applications
- » seamless interconnection for SIP, H.323 and MGCP-based edge devices including customer premises gateways, integrated access devices, IP endpoints, SIP access gateways, H.323 access gateways, and LRQ gatekeepers
- » prepaid calling offerings on edge devices
- » support for integration of a unified messaging solution, a readily marketable solution for enterprises, small-to-medium businesses and residential customers

COMPLIANCE

The C5CM supports emergency services (E911), ensuring that calls to emergency numbers take precedence over all other incoming and active calls, and that they are not disconnected. It also supports Location Routing Number (LRN) portability, so subscribers can change service providers without changing phone numbers. In addition, the Lawful Interception (LI) solution provides legally sanctioned access to private communications by authorized agencies.

EASY CONFIGURATION AND MANAGEMENT

The C5CM can be deployed, configured, and managed remotely using the Clarent Element Management System (CEMS), the web-based tool used for provisioning and managing all components of the Clarent network, as well as third-party edge devices. At a component level, the C5CM supports SNMP with a comprehensive management information base (MIB). You can set configuration parameters, poll devices for performance statistics, check status information, and receive alarms, if faults occur.



Regulatory and Compliance

- » Compliant with Regulatory Emergency Services (E911) requirement
- » Supports the Location Routing Number (LRN) method for number portability
- » Supports Lawful Interception (LI) to provide legally sanctioned access to private communications by authorized agencies

Class 5 Services

- » Residential services, including class features
- » End-user account management and authentication
- » Voice mail services
- » Supplementary features
 - Call Forward All/Busy/No Answer
 - Caller ID
 - Call Return
 - Customer Originated Trace
 - Call Waiting
 - Caller ID Block
 - Selective Caller ID Blocking/Unblocking
 - Speed Dial
 - Three-Way Calling*
 - Call Transfer (conditional/unconditional)
 - Message Waiting Indicator
 - Hotline
 - Video

- » Announcement of Number Change
 - Anonymous Call Rejection
 - Do Not Disturb
 - Music on Hold
 - Simultaneous Ring
- * Three-Way Calling is supported by the C5CM when provided by the edge device

C5CM Architecture Features

- » Open architecture, standard SIP and H.323 control of media gateways
- » H.323 and SIP interconnect to remote softswitch
- » GR-303 and V5.2 network interconnect to enable service provider migration to a VoIP infrastructure
- » High Availability, N+1 sparing, C5CM routing redundancy
- » Multiple protocol (H.323, SIP & MGCP) support with a single C5CM
- » DTMF transport type negotiation (Out-of-Band, Transparent, RFC-2833)
- » T.38 fax relay, fax bypass, modem bypass
- » Complete call rating & accounting services for complex rating schemes
- » Interactive Voice Response (IVR) supporting applications such as credit card and prepaid services

- » Multiple route choices offering proportional and least-cost routing
- » Ability to rate calls based on source, destination, and supplementary information
- » Flexible configuration for ingress and egress ANI/DNIS normalization
- » Call limiting to control bandwidth utilization
- » Service creation environment for defining IVR and call control
- » Private IP addressing support
- » H.323/SIP Gateway Topology Hiding
- » RADIUS when interfacing with a Radius Server,
- » SNMP management and monitoring
- » Sun UNIX platforms: runs on a Solaris 10 operating system

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