

A true IP alternative to traditional TDM-based networks that supports your network requirements for Class 4 softswitch features

The Clarent Class 4 Call Manager (C4CM) is a next-generation call control solution for softswitch technology that significantly reduces capital and operating costs, reduces reliance for overlay networks, simplifies service provisioning, and enables new revenue-generating services.

AN ESSENTIAL COMPONENT IN THE MIGRATION TO WORLD-CLASS IP COMMUNICATIONS

The C4CM is a highly flexible, carrier-class alternative to traditional tandem (Class 4) circuit switches. It offers carriers a cost effective way to transport voice and data protocols via IP packet while maintaining Quality of Service (QoS).

The C4CM is the central call control element of the Clarent PSTN Access Softswitch Solution. When deployed with the Clarent Class 5 Call Manager (C5CM) for “last mile” broadband networks, it enables service providers to interface with the traditional PSTN and provide off-net calling to any public telephone number in the world.

COMPLETE NETWORK CONTROL

The C4CM's extensive functionality enables the network to:

- » provide centralized, intelligent call routing logic for least-cost routing
- » handle voice, real-time fax, and data traffic simultaneously, enabling you to deploy value-added services with maximum flexibility
- » support pre- and post-paid calling card applications, Interactive Voice Response, multiple languages, and advanced subscriber services

SCALABILITY AND FLEXIBILITY

The C4CM is ideal for customers ranging in size from competitive startups with low-density requirements and rapid growth expectations, to tier-1 service providers requiring carrier-class solutions. It has the ability to achieve call capacities of more than 300,000 busy hour call attempts on a single server.

RELIABILITY

Designed for carrier-grade availability, the C4CM is available on a NEBS-compliant, Unix-based platform, providing N+1 redundancy with failover capabilities. Active calls are maintained during platform switchovers, enabling upgrades without service disruptions.

COMPLIANCE

The C4CM 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.

EASY CONFIGURATION AND MANAGEMENT

The C4CM can be deployed, configured, and managed remotely with the Clarent Element Management System (CEMS), the web-based tool used for provisioning and managing all components of the Clarent network.

At a component level, the C4CM supports SNMP with a comprehensive management information base (MIB), through which 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

Class 4 Services

- » Interactive Voice Response (IVR) support
- » Flexible routing offering source, proportional, ASR, and least-cost routing
- » Ability to rate calls based on source, destination, and supplementary information
- » Single C4CM support for multiple carriers interconnections
- » Service creation environment for defining IVR and call control
- » Flexible configuration for ingress and egress ANI/DNIS normalization
- » Call-back application support
- » End-user account management and authentication

- » Complete call rating & accounting services for complex rating schemes
- » Private IP addressing support within the Clarent network

Class 4 Technical Features

- » Compatibility with the entire Clarent product line
- » Clarent ThroughPacket when communicating with Clarent media gateways
- » High Availability, N+1 sparing
- » C4CM routing redundancy
- » Open architecture, standard MGCP control of media gateways
- » Support for varied ANSI and ETSI signaling protocols (CAS, MFCR2, ISDN, ISUP and SS7)
- » Multiple protocol support with a single C4CM
- » T.38 fax relay, fax bypass, modem bypass

- » DTMF transport type negotiation (Out-of-Band, Transparent, RFC-2833)
- » SS7/TCAP-based Intelligent Network (IN) services
- » SNMP management and monitoring
- » RADIUS when interfacing with a Radius Server
- » Operating Platforms
 - Solaris Platform
 - SUN T1000/T2000 platforms
 - Solaris 10 O/S
 - Linux Platform
 - Intel based single/dual CPU platform with a minimum of 2 GB RAM
 - RedHat Linux EL5 O/S

Support et Démonstrations en Français



4 rue Edouard Branly — Immeuble Hermès II
ZA de Pissaloup — 78190 TRAPPES - FRANCE
Tel: +33 134 521 480 — Fax: +33 134 521 489
pkt@pkt-net.com



6155 EL CAMINO REAL CARLSBAD - CALIFORNIA 92009
TEL / 760 476 2200 FAX / 760 795 1046 WWW.VIASAT.COM

Copyright© 2009 ViaSat, Inc. All rights reserved. Printed in the USA. ViaSat, the ViaSat logo, LinkStar and, Clarent are registered trademarks of ViaSat, Inc. LinkStarS2 and LinkWayS2 are trademarks of ViaSat, Inc. All other trademarks mentioned are the sole property of their respective companies. Specifications and product availability are subject to change without notice.