

GENBAND's C3™ Gateway Controller is a multi-application softswitch and media server/media gateway control platform that enables a new level of reliability, flexibility, and scalability for network operators. Deployed worldwide and operating with GENBAND's G9, G6, and G2 IP gateways, the C3 allows operators to cap-and-grow or replace their TDM switches or provide scalable VoIP in greenfield applications.

WIRELESS AND WIRELINE NETWORK CONVERGENCE

The C3 provides service convergence and feature transparency across a wide range of wireless and wireline, TDM and IP, and core and access networks. Solutions supported by the C3 include Class 4/IP Trunking, IP Tandem, International Transit, Long Distance Bypass, and PSTN gateway for IMS; Subscriber services; Wireless solutions including Inter-MSC Trunking and Gateway MSC; and IP Transcoding/Media Adaptation.

OPEN ARCHITECTURE AND STANDARD INTERFACES

Unlike proprietary platforms, the C3 provides open, standard access and trunking interfaces for signaling, management, and line equipment/CPE, including SIP, SIP-I, SIP-T, H.323, H.248, MGCP, PRI, SIGTRAN, CAS/R2, SS7/C7, BICC, IS-41, AIN/IN, V5.2, and GR-303. This allows it to be an efficient, standards-based element that provides signaling interworking, call control and features, supporting distributed or centralized architectures to generate cost savings and new revenue from VoIP-based service offerings.

EXTENSIVE FEATURE SETS

The C3 enables robust services for the most demanding environments. Class 4/IP Trunking features include comprehensive routing, translations, screening, database interface (toll free, prepaid, etc.), and protocol interworking. A commonly-used set of subscriber features are also provided and include an integrated SBC with per session firewall, NAT learning, and dynamic ACL; Lawful Intercept; Number Portability; audio bridging/conferencing; and emergency services.

TRANSCODING/MRF

Working in conjunction with GENBAND's G9 Converged Gateway, the C3 is a media resource controller that enables direct IP to IP transcoding between disparate networks. Its extensive wireless

and wireline codec support and SIP interfaces enable the C3 to be an efficient centralized transcoding control platform for all networks, physically separating control from the media processing elements so that transcoding resources can be sized and scaled according to network needs.

INTEGRATED FEATURES FOR SIMPLICITY AND COST REDUCTION

The C3 integrates media gateway and media server control, service logic, billing, regulatory, signaling, service creation, and element management within a common, scalable software and hardware environment, thereby reducing the need to deploy costly additional platforms. Its protocol-independent signaling and media control functions manage the interconnections between TDM and packet protocols, independent of incoming and outgoing facilities and signaling types.

FLEXIBLE SERVICE CREATION

The service creation environment available in the C3 can be used by operators for advanced service development. The platform also uses open interfaces to support off-board application servers and SCP systems via both AIN and SIP to enable other revenue-generating network services.

IMS COMPATIBILITY

A flexible platform for standalone pre-IMS networks, the C3 can also operate in parallel with an IMS core or TISPA networks to maximize investment protection. The C3 provides standard interfaces to IMS cores for media processing control as the Media Gateway Control Function (MGCF) and Media Resource Function Controller (MRFC).

HIGH CAPACITY PLATFORM ARCHITECTURE

Network-proven worldwide, the C3 supports millions of Busy Hour Call Attempts (BHCA). The highly-scalable C3 operates in small to large configurations. Operators can grow capacity as needed by simply adding pairs of C3 nodes to a deployed system, provisioning call processing and signaling across the complete C3 system for cost-effective network deployments.

INTEGRATED CDR COLLECTION

An easy-to-use, integrated CDR and IPDR collector is provided by the C3, allowing call detail records to be generated in both standard and user-definable formats.

PLATFORM CAPACITY

- Up to 2 Million BHCA per server pair
- Up to 16 servers per system

PHYSICAL CHASSIS DIMENSIONS

- Sun T2000
- Height: 3.44 in.
- Width: 17.4 in.
- Depth: 20 in.

ELECTRICAL CHARACTERISTICS

- Input Voltage: -40 to -75VDC
- Input Current: 20A
- Power Consumption: 800 watts

OTHER COMPLIANCE

- NEBS Level 3 per GR-63-CORE, physical protection
- NEBS Level 3 per GR-1089-CORE, EMC, and electrical safety
- UL and Canadian Standards Association (CSA), safety of IT equipment
- FCC Part 15 Class A, emissions
- CE Mark (Europe) EMC standards
- Restriction of Hazardous Substances (RoHS)

GENVIEW EMS

- Supports G9, GENBAND 8000 and C3
- OSMINE Certified
- Full FCAPS functionality
- User-friendly GUI and CLI
- Multi-node management
- Northbound interface: SNMP, CLI, TCP/IP, Telnet, FTP
- Supports any configuration – TDM, ATM or IP (IPDR, SDR)
- Highly Scalable – support of up to 100 clients
- Client is platform-agnostic
- No standalone server platform required

FEATURES

- Highly scalable platform with an enhanced load distribution system that allows service providers to expand capacity incrementally as the network grows
- Integrated media gateway controller, signaling gateway, application server, billing server and element management system simplifies network complexity and management
- Complete set of subscriber services for SIP and NGDLC-based local networks
- Complete set of transit services and advanced routing for IP tandem, and retail and wholesale long-distance network providers
- Complete set of international gateway and VoIP termination services for global service providers
- Geographic redundancy for greater network reliability
- Proven, carrier-grade reliability on a fully redundant architecture with no single point of failure
- Service development and management available via on-board service creation environment, INAP and AIN triggers and SIP
- Lower space, cooling and power costs from a next-generation platform for lower total cost of ownership (TCO)
- Industry standard servers reduce inventory requirements and associated management and sparring costs
- Access, trunking and signaling protocols supported by the C3 platform and compatible gateways include ATM, GR-303, V5.2, H.323, MGCP, SIP, SIP-T, SIP-I, H.248, MEGACO, BICC, GR-317, GR-394, GR-444, CAS/R2, and PRI
- Supports multiple SS7 protocols, including ANSI, ITU, ETSI and multiple national C7 protocols, for ISUP and TCAP
- Complete suite of SNMP and CORBA objects
- Extensive performance monitoring and network diagnostics
- Supports variable CDR for any-to-any billing format conversion as well as AMA-BAF

www.genband.com 1-866-GENBAND

© 2011 GENBAND Inc. All rights reserved.

The GENBAND logo is a registered trademark of GENBAND Inc. This document and any products or functionality it describes are subject to change without notice. Please contact GENBAND for additional information and updates.

