

GENBAND's C3 Signaling Controller is a multi-application control platform for GENBAND's carrier class G9, G6 and G2 gateways that provides a new level of network reliability, flexibility, and scalability for carriers. Its fully featured, advanced routing and control solutions manage the complex interworking of fixed and mobile network operators at the TDM/circuit and packet network borders. The C3 platform also provides an extensive subscriber and network services that allow these operators to deploy international gateway, tandem and broadband subscriber services without deploying multiple standalone systems.

Residing on industry standard, high availability commercial platforms, the C3 efficiently provides a number of high value, integrated features in fixed and mobile service provider networks, including: signaling gateway controller, media gateway controller, billing server, application server and element manager. Its protocol-independent signaling and media gateway control functions manage interconnections between TDM and packet protocols, independent of incoming and outgoing facilities and signaling types. This enables it to be an efficient control element for TDM and packet networks, supporting distributed media gateways and centralized signaling interworking and call control that offers cost savings and revenue generation from new, VoIP-based service offerings.

The C3 platform offers the following:

Wide Subscriber and Transit Feature Set - The standards-based C3 supports a wide range of advanced routing, signaling, and trunking features and services. Applications supported by the C3 include Inter-MSC trunking, Gateway MSC, and IP trunking -- including IP tandem and International gateway, and PSTN gateway for IMS.

High Capacity Platform Architecture - The highly-scalable C3 operates in small and large configurations. Operators add capacity as needed by adding pairs of C3 platform nodes to a deployed system, provisioning call processing and signaling across the complete C3 system for cost-effective network deployments. The C3 platform supports the efficient deployment of distributed media gateways that are supported by a single C3 node or even multiple, geographically redundant C3 nodes.

Complete Protocol Suite for IP, TDM and ATM Networks - The C3 supports a wide range of signaling protocols and internetworking. It also supports multiple SS7 protocols, including ANSI, ITU, ETSI and multiple national C7 protocols. In IMS and TISPAN NGN networks, the C3 provides the Media Gateway Control Function (MGCF) for distributed gateway deployments.

Integrated CDR Collection - The C3 platform includes an easy-to-use, integrated CDR and IPDR collector that generates call detail records in both standard and user-definable formats.

Flexible Service Creation - The service creation environment available in the C3 can be used by operators for service development. The platform also supports off-board SCP systems via both AIN and SIP to enable other high capacity network services.

Carrier-Grade Platform - The C3 platform supports fully-redundant network deployments and geographic redundancy via its distributed software architecture and NEBS servers. It is a carrier-grade platform for all types of networks.

Integrated GenView Network Management - The C3 has an integrated GenView Element Management System that enables remote and centralized OAM&P control of multiple C3 nodes and gateways via multiple web-based terminals. It includes a suite of SNMP and CORBA data objects to support FCAPS functions.



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 sparing 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

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