



For carriers who want better performance, network flexibility and customer satisfaction, the GENBAND Converged Application Server (A2™) delivers. The GENBAND A2 converges IP communications and applications to deliver a rich feature set and enhanced service customization over multiple IP access networks. The good news for end users: the GENBAND A2 delivers a more robust and communications experience. Even better news for carriers: the A2 translates into greater speed, accuracy, business agility and ROI. Those are powerful qualities in today's competitive telecom marketplace. That is why GENBAND's A2 is deployed in more than 190+ operators worldwide, either embedded in the industry-leading GENBAND C20 or as a Standalone SIP application server in NGN and IMS environments.

Extending Voice and Multimedia

Today's on-the-go consumers demand more personalized and satisfying communications, and with GENBAND solutions, carriers and service providers can meet those expectations.

Consumers and professionals have more communications devices and services than ever before. Services are evolving to deliver a seamless experience across devices and technologies for personal and business users. The proliferation of devices and applications has greatly enhanced both communications and productivity. For network operators, this expanding communications universe creates new revenue opportunities, while also presenting more complex service, implementation and operational challenges.

Network operators can now deliver more feature options and greater customization, with the A2 from GENBAND. The A2 enables service providers to extend voice and multi-media communications over any IP based environment, whether fixed or mobile. This allows service providers to increase profitability by leveraging the same investment across a much wider customer base, while accelerating time-to-market for today's most popular and profitable new services.



SIP over IP Broadband Networks

The A2 is a software-based SIP application server that delivers SIP applications over any IP broadband network. The A2 can be deployed embedded within the industry-leading GENBAND C20 softswitch or as a standalone NGN or IMS SIP application server. For maximum deployment flexibility, A2 software can be configured over hundreds of Red Hat Linux compliant servers.

Network Operators can leverage the A2 to deliver a vast array of consumer services across both fixed and mobile networks. The GENBAND A2 offers the scalability and functionality needed to address both business and residential market segments.

Meeting Needs

The GENBAND A2 is ideally positioned to serve the growing enterprise marketplace. Business users have led the way in adopting new and more robust communications solutions. Forward-looking search constantly for communications solutions that allow them to improve customer service and the quality of their products or services. Cutting-edge communications also allow businesses to simplify their operational systems and increase productivity.

With the GENBAND A2, service providers can offer business users a richer set of features, including Hosted Unified Communications across both TDM and IP lines, Uniform and Automatic Call Distribution, Hunt groups for call centers, multi-cell SIP digital cordless (DECT) phones for SMB and SIP trunking to PBX. SIP trunking to PBX is essential for migration of enterprise PBX systems to IP PBX.

Serving the Residential Market

GENBAND can also position operators to better serve demanding residential consumers. There are many kinds of residential customers, from basic users who are satisfied with a simple fixed line or mobile, to the tech savvy consumer who demands the newest device, the latest service and today's most popular applications. Service adoption in the residential market is driven by cost savings, flexibility and convenience.



Operators can meet those diverse residential market demands with the A2. This fully-capable applications engine provides a range of features ideally suited to serving the residential marketplace:

- Rich multimedia features with Personal Communication Client (PC Client) such as:
 - Personal meet-me/conferencing service
 - Federated Instant Messaging
 - Web Portal
- Per call screening and management
- Simultaneous ringing, sequential ringing
- Single number and caller ID
- Presence based routing
- Multiple device management

Broad Interoperability

GENBAND solutions protect current equipment investments, while opening a flexible, cost-effective pathway for network evolution. GENBAND has achieved interoperability success with over 80% of the industry's leading IP PBXs and IP phone manufacturers, and has tested across all major broadband access types and 100% of IP Protocols. To demonstrate compatibility with mobile VoIP and 3G/4G networks, GENBAND has also performed interoperability tests on industry leading Smartphone devices, including the iPhone, Symbian and Windows Mobile OS-based devices on the Android OS.

KEY SPECIFICATIONS

- Comprehensive IP voice and multimedia feature set for business and residential users, increase revenue and reduce churn for carriers
- Scalability from hundreds to millions of subscribers. Multiple sites can be networked to scale for several millions subscribers if required
- Open Programmability Suite for custom value-add applications and improved time-to-market
- Flexibility: deployable as Standalone SIP App Server, in conjunction with IP softswitch and IMS compliant App Server or embedded within industry leading C20

HARDWARE SUPPORTED

- Up to 600 industry standard Red Hat Linux compliant servers are supported as part of hardware Freedom Model, NEBS compliant hardware options
- Fully redundant configuration available with 1+1 hot stand-by configuration
- GENBAND GENIUS

PROTOCOLS SUPPORTED

- Session Initiation Protocol (SIP) (SIP 3GPP, SIP IETF)
- H.323
- SIP-Telephony (SIP-T)
- RTP/SRTP
- Common Channel Signaling System 7 (CCS7) incl. regional variants
- Primary Rate ISDN (PRI) including regional variants
- Call Associated Signaling (CAS) including regional variants
- H.263
- H.264

WEB SERVICES

- Parlay X/REST
- SOPI
- HTML/SOAP
- Java-based API
- ECMA 348
- Application Control Interface (ACI)
- Personal Agent Portlets (Web Portal Portlets)

INTERFACES SUPPORTED

- 10/100BaseT Ethernet

MANAGEMENT

- SNMP
- XML
- SOAP/HTTP

BROADBAND SUPPORTED

- Cable Multimedia
- FTTN
- xDSL
- WiFi
- 2G/3G
- 3G (EVDO, HSPA)
- 4G (WiMAX, LTE)