Application Server

Mōvius

The foundation of a carrier-class service delivery platform

For years there was a belief that carriers could rely on a few "killer" applications to grow revenue. Yet in today's fragmented marketplace, with ever-changing subscriber tastes, carriers must be able to quickly build and deploy a variety of killer applications that cater to individual needs and preferences. But to create a successful services portfolio requires a service delivery platform that is both remarkably flexible and can offer carrier-class performance and reliability. That is why more service providers and developers around the world employ the Movius Application Server.

Robust Service Execution Environment

The standard Java-based runtime engine is exclusively designed for event-driven applications that require extremely high transaction throughput, while also supporting a distributed and replicated event processing environment. The result is a powerful service execution platform that delivers scalability and reliability to any application deployed on it.

Application Development & Deployment Framework

Ideal for individual and blended media-rich services, the Application Server features service-independent building blocks that abstract session and media management functions. These building blocks can be assembled into sophisticated services that combine telephony, Web and data sessions into a singular unified communications experience.

Modular & Extensible Design

New features and functions can be seamlessly added into the framework. This dramatically reduces the time to market for new services without compromising carrier-grade robustness and performance.

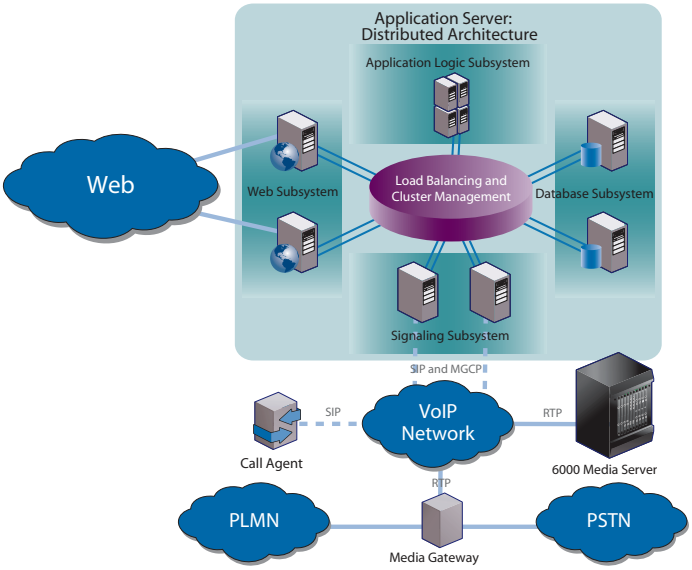
Flexible Multi-nodal Clusters

Available as a standalone or multi-node clustered service delivery platform, the Application Server offers inherent scalability and redundancy for true carrier-class performance.

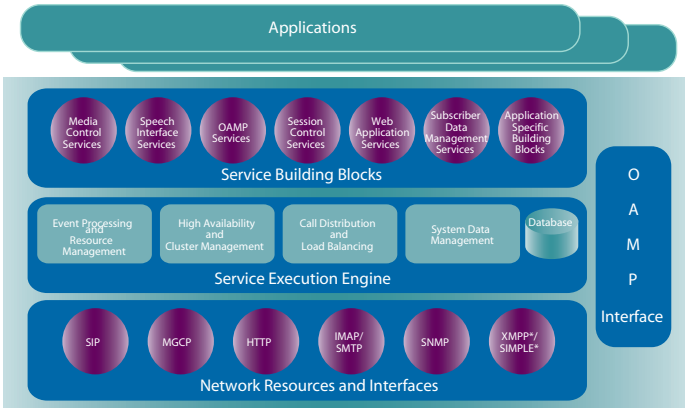
Network Agnostic

The Application Server is designed to be a core network element in PSTN, PLMN and NGN networks, and complies with various standards including PacketCable and IMS. Its networking interfaces and signaling features offer comprehensive support for services on next-generation VoIP networks, but can also be readily adapted for legacy TDM networks.

Distributed Application Server Cluster



Application Server Architecture



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Proven Architecture

The Application Server is the underlying engine and development framework for a range of market proven applications including unified messaging, multi-media conferencing, personal calling and prepaid services. And, combined with the Software Development Kit (SDK), it enables third parties to easily develop and deployed their own applications.

Carrier-tested Platform

The Application Server is deployed in numerous Tier 1 service providers in North America, as well as leading PTTs worldwide.

Carrier-class Service Execution Engine

- Java-based service logic execution environment
- Comprehensive set of service building blocks that abstract application and system functions
  - Telephony and data session control
  - Media control for IVR and speech-driven interfaces
  - Multi-threaded event processing and state management framework
  - Transparent management of common resource pools
- High throughput, event-driven service execution model
  - Support for 1000's of simultaneous events resulting in hundreds of thousands of BHCC (Busy Hour Call Completion)
- Redundancy at system, subsystem and process level
  - No single point of failure
- Native load balancing algorithms for even distribution of service transactions
- Promotes hitless upgrades, startup and shutdown at system and subsystem level
  - Minimal disruption of active services during upgrades, maintenance and troubleshooting
- Ease of installation and management
  - Well-defined installation process for even complex network configurations
  - Bundled JSP and EJB components provide a Web-based Operations Administration Maintenance and Provisioning interface
- Multi-protocol signaling and media processing
  - SIP
  - SIP (RFC3261), Privacy (RFC3323, RFC3325), Offer/Answer (RFC3264), 3pcc (RFC3725), Reason (RFC3326), REFER (RFC3515), Early-Media (RFC3960), UPDATE (RFC3311), PHeader (RFC3455), Reliability of Provisional Responses (RFC3262)
  - MGCP
  - MGCP BAU
  - Text-To-Speech (TTS)
  - Automated Speech Recognition (ASR)

Application Development Framework & SDK

- Modular and layered application development framework – Low level, standards-based APIs — including JAIN SIP, and MGCP — for signaling and media control interfaces
  - Higher level abstraction of communications APIs and functions
- Service-independent building blocks
  - Represent commonly used call control and media manipulation functions
  - Standards-based component container architecture for defining service building blocks
  - Application primitives constructed as finite state machines that can be assembled into robust, media-rich call models
  - Easily extensible to encapsulate new functions, interfaces and protocols using standard Java programming and IDE
- Standardized API
  - Based on well understood Java object classes and hierarchy structure
  - Framework organized into functional packages that represent an end-to-end communications application
  - EJB and Servlet interfaces for representing business logic that drives application execution
  - Support for Web interfaces such as SOAP, XML and Web Services to allow extending the platform to or integrating with external entities such as OSS and provisioning systems
- Transparency of carrier-grade architecture
  - Underlying distributed and redundant platform architecture transparent at application level
  - Application developers focus solely on application logic
  - System scalability, performance and reliability seamlessly available to all hosted applications
- Multiple SIP Application Server functions supported
  - Terminating and originating UA
  - Proxy and redirect server
  - 3rd party call control server
  - Core network element for IMS architecture

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