MACH7-HA

"High Available Signaling Platform"

Overview

The MACH7-HA (**MACH7 H**igh **A**vailable) is a high available platform for network equipment providers, application developers, system integrators and service providers. The platform's open system architecture offers benefits to deploy new applications, including "24x7" operations, cost-effective open platforms, major signaling protocols in the wireline, wireless and next generation networks with 99.999% (5 nines) availability.

Applications

teleSys' customers are using MACH7-HA for developing and deploying wide range of applications and enhanced services globally across traditional and next-generation networks.

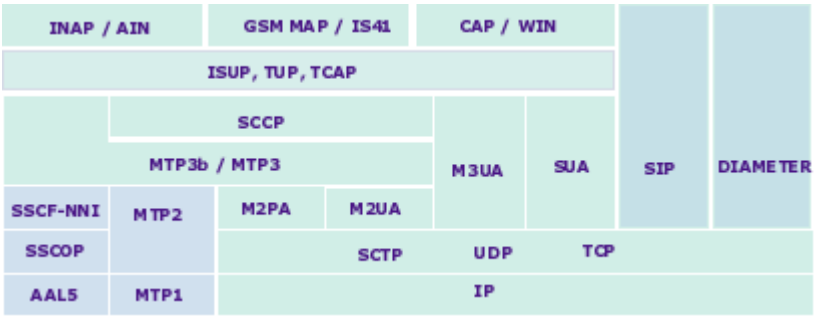
For Wireline and Wireless Networks: Mobile Switching Center (MSC), Service Control Point (SCP), Home Location Register (HLR), Soft Switches, Signaling Gateway, Media Servers, Application Servers and others

For 3G/4G Wireless Network : Converged Services Gateway, Home Subscriber Servers (HSS), Online / Offline Charging Services (OCS/OFCS), and others.

It also hosts enhanced applications like Voice Mail, Local Number Portability, Prepaid Calling, Unified Messaging, Location-based services, Presence Application, and others.

Benefits

- Increased revenue due to reduced downtime with six nines (99.9999%) availability.
- Accelerated time-to-market due to open architecture implementation.
- Easy-to-use APIs for enhanced services and applications.
- Service portability due to open system architecture.



Protocol Layers

MACH7-HA's unique advantages provide the ideal platform for developers to rapidly develop and deploy services in traditional, Next Generation IP and Converged networks. It supports all network signaling requirements for those applications providing services for:

SS7 Signaling : Basic MTP, SCCP, ISUP, TCAP protocols along with the higher layers INAP, AIN, MAP (GSM, IS41), CAP and WIN capabilities as per ANSI, ITU-T, NTT/TTC Japan, China and other country standards.

SIGTRAN Signaling : M3UA, SUA, M2PA, M2UA over SCTP conforming to IETF's latest RFC standards for SS7 over IP (SS7oIP) signaling.

SIP Signaling : Next Generation SIP signaling along with SDP and multiple SIP extensions like REFER, INFO, PRACK, SUBSCRIBE-NOTIFY and more.

DIAMETER : As per IETF and 3GPP standards with support for Cx, Dx, Ro, Rf, Rx, Sh and other interfaces.

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MACH7-HA

teleSys Advantages

- **HIGH-AVAILABILITY**

MACH7-HA incorporates teleSys' cutting-edge technology for distributed high-availability. This platform-independent framework allows processing of traffic via all available signaling interfaces connected to the platform. MACH7-HA load balances the traffic across relevant protocol layers on multiple computing elements in the system; software runs as "In-Service/Active" on these servers. The Platform appears as a single node in the network with its All-Active redundant architecture.

With the MACH7-HA, traffic can flow over available resources in the network and will be instantaneously re-routed in the event of an outage, thus guarantees no Single Point of Failure and complete redundancy.

- **SCALABILITY**

The scalable architecture enables users to minimize their initial deployment costs while supporting incremental growth as demand increases. With the increase in service demand and signaling capacity in the network, the transaction capacity and throughput can be increased with the incorporation of additional modules and interfaces.

- **PERFORMANCE**

The MACH7-HA provides solutions for all performance needs. With carrier proven throughput and performance, it supports signaling requirements from low throughput per second requirements to large network element with high transactions demands.

- **PROGRAMMING INTERFACE**

Comprehensive suite of C/C++ or JAVA based application programming interfaces (APIs) for user applications across multiple operating environments enables seamless integration of client applications. This easy-to-use advanced environment allows developers and integrators to focus on the development and integration of services, resulting in faster deployment times with low training and maintenance costs.

- **OAM&P**

The Platform offers a comprehensive Systems Management interface, which includes: Command Line Interface, Web Browser based Graphical User Interface and SNMP Interface to the network management system.

- **OPEN ARCHITECTURE**

MACH7-HA operates on open architectured off-the-shelf hardware running Solaris or Linux with multiple physical connection options for LSL or HSL interface for the SS7 network, and 10/100/Gigabit Ethernet for SIP, SIGTRAN and DIAMETER protocols.

- **CARRIER GRADE**

MACH7-HA has been specifically developed to deal with the most stringent requirements of telecom networks. MACH7-HA has been extensively tested and benchmarked at several carrier deployments globally and provides a clear competitive advantage to its customers.

- **FUTURE PROOF**

Because of the flexible, modular and open architecture solution, MACH-HA provides OEM customers with the capability to support new network elements as new technologies and new network topologies emerge. Thus enables easy migration of client applications, to any evolving networks in future.

teleSys Software, Inc.

teleSys is the premier provider of advanced Telecommunications solutions for the next generation LTE Signaling Networks, providing open systems hardware and software.

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