

Overview

MACH7-SS7 Stack provides a high performance and scaleable Signaling System No. 7 (SS7) solution for network equipment manufacturers and OEMs' with requirements for connecting to Intelligent Networks or SS7. Designed for flexible and scalable solution on multiple links, MACH7-SS7 Stack will meet and exceed requirements of today's evolving telecommunication marketplace.

Benefits

- **EFFICIENT SOLUTION**

Upper layers of the SS7 protocol (MTP3, SCCP, TCAP, ISUP) operate in a Solaris / Linux environment with a set of industry-standard Application Programming Interfaces (APIs). The Stack provides increased flexibility and scalability as the higher layers runs on host computing environment. At the same time it reduces the processing overload of the lower layers MTP1 and MTP2 from the host environment to the board level.

- **EASE-OF-USE**

teleSys provides a well-documented suite of API's for MTP3, SCCP, TCAP, ISUP, INAP, AIN, MAP (GSM & IS41), CAP and WIN with sample application source; also available is a Web-based GUI to provision and monitor the stack.

- **LEADING EDGE PROFESSIONAL SERVICES**

A business relationship with teleSys can provide opportunities for evaluation and professional services to implement and integrate teleSys solutions to meet the needs.

- **WELL PROVEN SOLUTION**

teleSys customers around the world are using MACH7-SS7 for implementation of wide range of applications and services. Network elements currently in place or under development include: SCPs, Intelligent Peripherals, SMSCs, Soft Switches, HLRs, and several others. For efficiency and flexibility, the MACH7-SS7 is an intelligence choice.



Options

- Operating Environment : Solaris or Linux.
- API packages for MTP3, SCCP, ISUP, TCAP,
- Programming Interfaces for application modules including, INAP/AIN, MAP (GSM & IS41), CAP and WIN.
- PCIe, PMC and AMC form factor for the SS7 interface.
- Support for T1/E1/J1 interface.
- ANSI, ITUT, NTT Japan, TTC / NTT Japan, China and other country specific variants.
- Up to 124 Low Speed or 4 High Speed Links per card.

MACH7-SS7

Features

- **USER APPLICATION PROGRAMMING INTERFACE (API)**

C/C++ and JAVA based MACH7-SS7 Stack API (Application Programming Interface) is available on Solaris and Linux operating environments. The API packages also provide sample application source code for ease of understanding to the application developers to integrate their applications with MACH7-SS7 Stack efficiently and effectively. API packages for other operating environments can be provided by teleSys professional services.

- **SS7 FEATURES**

The MACH7 conforms to functions and message protocols as described in ANSI, ITU-T, Japan NTT, Japan TTC, China standards along with other country specific variants; supports both Point Code based and Global Title Translation based routing capabilities.

- **MULTIPLE HIGH PERFORMANCE SS7 LINKS**

MACH7-SS7 Stack supports multiple scalable options for SS7 connectivity and provides flexibility to our clients. Options include: T1/E1/J1 with Basic or PCR (Preventive Cyclic Retransmission) error control support. Supports both MTP2 based Low Speed and High Speed Links. Also supports ATM-HSL interface for higher bandwidth.

- **OAM&P**

The Platform offers a comprehensive Systems Management interface, which includes: Command Line Interface with options for Web Browser based Graphical User Interface and SNMP Interface to the network management system. It also provides configuration APIs to integrate with the customers' existing element management systems.

- **CAPACITY**

Capacity to support up to 620 Low Speed Links with handling capability up to 60,000 messages per second on a Single Server. It is scalable to support higher performance by adding more SS7 links and computing elements.

Specifications and Standards

TCAP

ETS 300 287-1 - TCAP version 2, ETSI
Q.752, Q.771, Q.772, Q.773, Q.774,
Q.775, Q.787 - ITU-T; T1.114 -ANSI

ISUP

Q.761, Q.762, Q.763, Q.764, Q.766,
Q.730, Q.767 - ITU-T; T1.113 ANSI ; ETS
300 356 - ETSI v2 ; JJ-90.10, JT Q.761 ~
Q.764

SCCP

Q.711, Q.712, Q.713, Q.714, Q.716, Q786
- ITU-T; T1.112 ANSI

MTP3

Q.701, Q.704, Q.781, Q.791 ITUT;
T1.111.4 - ANSI ; NTT Q 704 - NTT
Japan ; JT Q703, Q 704 - TTC Japan ;
China ;

MTP2

T1.111.3 - ANSI; Q.701, Q.781 - ITU-T;
NTT Q701-702;

MTP1

Software selectable T1/E1/J1 interfaces;

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.