MovingMedia® 2000 Sonata MSC® Server

THE UTSTARCOM SONATA MSC SERVER IS A POWERFUL SOFTSWITCH-BASED MOBILE SWITCHING CENTER (MSC) FOR SECOND AND THIRD GENERATION (2G AND 3G) NETWORK DEPLOYMENT.

- **FULL FEATURED, SOFTSWITCH PLATFORM**
- **HIGHLY SCALABLE, MODULAR ARCHITECTURE**
- **STANDARDS-BASED AND INTEROPERABLE**
- **HIGH AVAILABILITY**
- **REGULATORY COMPLIANT**

The UTStarcom Sonata MSC Server provides a comprehensive standards-based softswitch- based mobile switching center (MSC) solution for second and third generation (2G and 3G) CDMA2000, and GSM/UMTS. Fully compliant with 3GPP and 3GPP2 industry standards, this powerful platform is a key component of UTStarcom's MovingMedia 2000 product suite, a complete solution for 3G wireless operators.

MULTIPLE BENEFITS

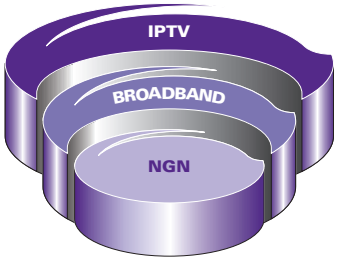
With the MSC server, wireless operators gain substantial benefits, including lower transport and operational costs due to efficient routing and convergence of voice and data services on a single infrastructure. Additional benefits can include increased bandwidth utilization through use of multiple compression schemes. Operators that deploy the MSC server also gain a future proof solution that can enable rapid, cost-effective deployment of advanced services and applications.

HIGHLY SCALABLE

Using the MSC server, operators can serve customers with IP connected base stations virtually anywhere in the world, enabling them to expand geographic coverage and serve new markets. The MSC server can scale from small deployments to very large configurations supporting up to 500,000 Busy Hour Call Attempts (BHCAs). Its open, standards-based, distributed architecture enables flexible distribution of platforms such as Home Location Registers (HLRs) and media gateways at optimal locations in the network. This modular solution scales easily and cost effectively with the addition of off-the-shelf hardware and distributed software applications.

FULL FEATURED PLATFORM

The MSC server features system redundancy, and advanced application management, ensuring reliable, carrier-class performance for networks regardless of size. The MSC Server is standards-based and communicates with other distributed elements using industry open standards such as MGCP, Megaco/H.248, SIP, M2UAand M3UA. The MSC Server incorporates industry standards as defined by ETSI, ITU, GSM, 3GPP and 3GPP2 and other leading standard bodies. The MSC Server is proven to easily and seamlessly integrate and interoperate in multi-vendor environment to meet the diverse needs of the operator. The MSC Server is Open Services Architecture (OSA) ready and is tightly integrated with the Sonata OMC (Operations Maintenance Center) to provide directory-enabled subscriber- centric services. The UTStarcom Sonata OMC provides comprehensive control for the MSC and other elements in the MovingMedia 2000 network. The MSC supports the regulatory environment set by governing bodies via its support for E911, CALEA/Legal Intercept, Wireless and Local Number Portability, TTY/TTD, and Number Pooling requirements.



Technical Specifications

OPERATING PLATFORM

Sun Microsystems® Netra® family machines

cPCI SPARC blades

Sun Microsystems Solaris 8®

CAPACITY

Up to 500,000 BHCA (Busy Hour Call Attempts)

2 to 1,024 SS7 links

2 to 2,048 E1/T1 spans

PSTN INTERFACE

ITU ISUP:ITU Q.762, 763, 764;Q730-737

ANSI ISUP:ANSI 88, ANSI 92

CAS:R1, R2, DTMF

ISDN:Primary Rate Interface

Intelligent Network:WIN

GSM/UMTS MOBILITY INTERFACE

A (BSC-MSC):GSM 08.08, GSM 04.08

D (HLR-VLR):TS29.002 v3.5.0 Release 99

E (MSC-SMS):TS29.002 v3.7.2 Release 99

Iu CS (RNC-MSC):TS25.413 v3.4.0 Release 99

Gr, Gc, and Gs GPRS interfaces

IS41 MOBILITY INTERFACE

BSC-MSC:IS634-0, IS-634-A, TSB-80;IOS 2.x, IOS 3.X, IOS 4.X

MSC-VLR-HLR:IS41D MAP

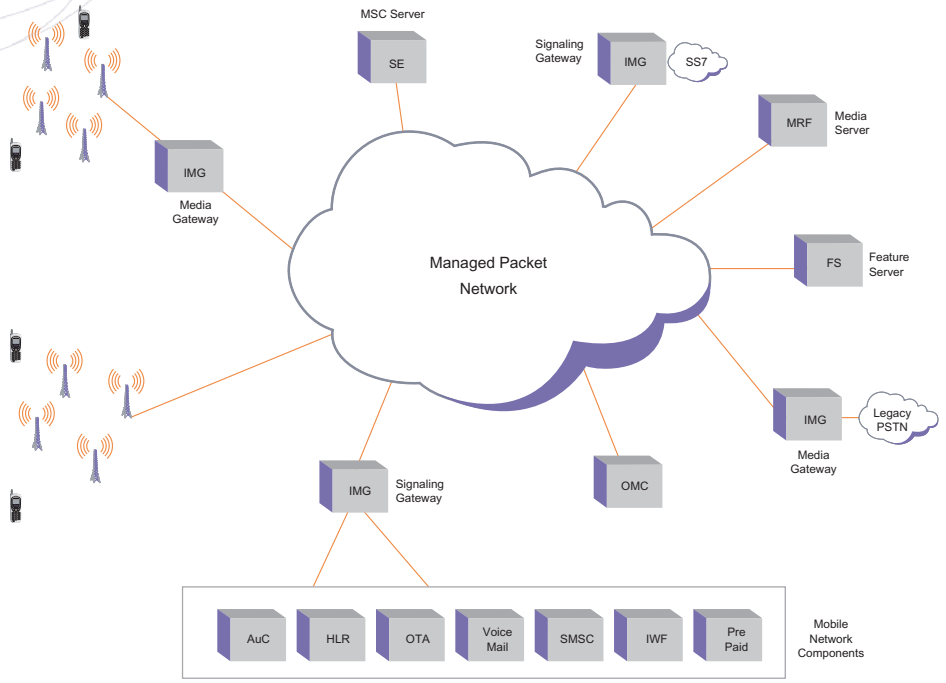
PROTOCOL SUPPORT

Media control:MGCP, Megaco/H.248, SIP

Signaling transport:M2UA, M3UA, SCTP, SCCP-Lite, TCCS

Management:XML, SNMP

DISTRIBUTED IP-BASED WIRELESS ARCHITECTURE



Please note the information contained herein is for informational purposes only. Technical claims listed depend on a series of technical assumptions. Your experience with these products may differ if you operate the products in an environment, which is different from the technical assumptions. UTStarcom reserves the right to modify these specifications without prior notice. UTStarcom makes no warranties, express or implied, on the information contained in this document.

UTStarcom, Inc. USA
1275 Harbor Bay Parkway
Alameda, CA 94502 USA
Tel: 510-864-8800
Fax: 510-864-8802

www.utstar.com

About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

WS-DS-0080-MSC-0308