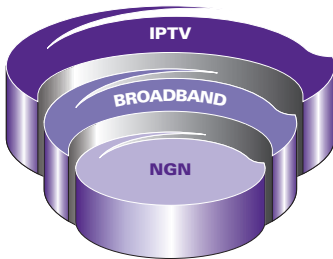




The Cutting Edge is

The UTStarcom MovingMedia[®] 2000 All-IP Solution

Enabling IP-Based CDMA Voice and Data Services



THE UTSTARCOM, MOVINGMEDIA 2000 ALL-IP SOLUTION CAN ENABLE DEPLOYMENT OF REVENUE-GENERATING CDMA2000-BASED WIRELESS VOICE AND DATA SERVICES VIA COST-EFFECTIVE IP NETWORKS.

- Lower transport costs using distributed softswitch-based IP infrastructure
- Modular and scalable architecture
- Wide-area coverage in urban, suburban, rural and enterprise locations
- Complete end-to-end solution

MovingMedia® 2000 All-IP Solution

ENABLING IP-BASED CDMA VOICE AND DATA SERVICES



With the UTStarcom MovingMedia 2000 all IP solution, CDMA2000-based operators can easily and cost-effectively deliver revenue-generating third-generation (3G) wireless services to their subscribers. The solution includes a complete suite of high-performance radio frequency (RF) and core network products, allowing operators to build a single integrated system providing coverage for urban, suburban, rural areas, and enterprise locations.

SCALABLE, COST EFFECTIVE GROWTH

Using the MovingMedia 2000 solution, operators can build a highly cost-effective cellular network compared to a traditional TDM-based network. Savings are achieved in multiple ways. In a MovingMedia 2000-based infrastructure, multiple intelligent media gateways can be distributed at the network edge or at points of presence (POPs) to optimize traffic routing and minimize interconnection costs. Other elements such as MovingMedia 2000 IP base stations eliminate the need for expensive TDM connections. Thus, operators can reduce their dependency on costly backhaul transport and take advantage of less expensive local loops.

Additional savings are gained via modularity. Many of the components in the MovingMedia 2000 architecture enable elements to be decoupled and redistributed at the most advantageous and cost-effective points throughout the network, allowing operators to concentrate resources where they are most effective.

PROVIDES COVERAGE IN RURAL AND ENTERPRISE SITES

The UTStarcom solution can enable seamless roaming for mobile customers – even in areas where wireless coverage has been traditionally unavailable. By eliminating TDM connections, operators can easily expand into rural areas. UTStarcom IP base stations facilitate mobile handoffs for users moving in and outside of enterprise campus buildings.

STANDARDS-BASED SOLUTION

Based on 3GPP2 industry standard specifications, the solution can offer a smooth migration path to emerging technologies and is backwards compatible with CDMA2G (IS-95)-based equipment. Solution components are interoperable with other standards-based products, enabling wireless operators to preserve their existing equipment investment.

SUPPORTS NEXT-GENERATION SERVICES

The MovingMedia 2000 solution is based on CDMA2000 specifications, a next-generation technology developed to provide spectrally efficient, high-speed data rates supporting delivery of advanced services and applications. CDMA2000 technology allows a range of new offerings, including broadband Internet access, music downloads, push-to-talk communications, streaming video and remote corporate access. The solution is compatible with CDMA2000 1x and CDMA2000 1xEV-DO, and can support future revisions of the EV-DO standards.

COMPREHENSIVE SOLUTION

UTStarcom's MovingMedia 2000 solution enables operators to build a complete all IP wireless network. The solution consists of the following components:

RF Network Products

- UTStarcom MovingMedia 2000 iCell Macro IP Base Transceiver System (BTS)
- UTStarcom MovingMedia 2000 iCell Pico IP Base Transceiver System (BTS)
- UTStarcom MovingMedia 2000 iCell Soft Base Station Controller (sBSC)

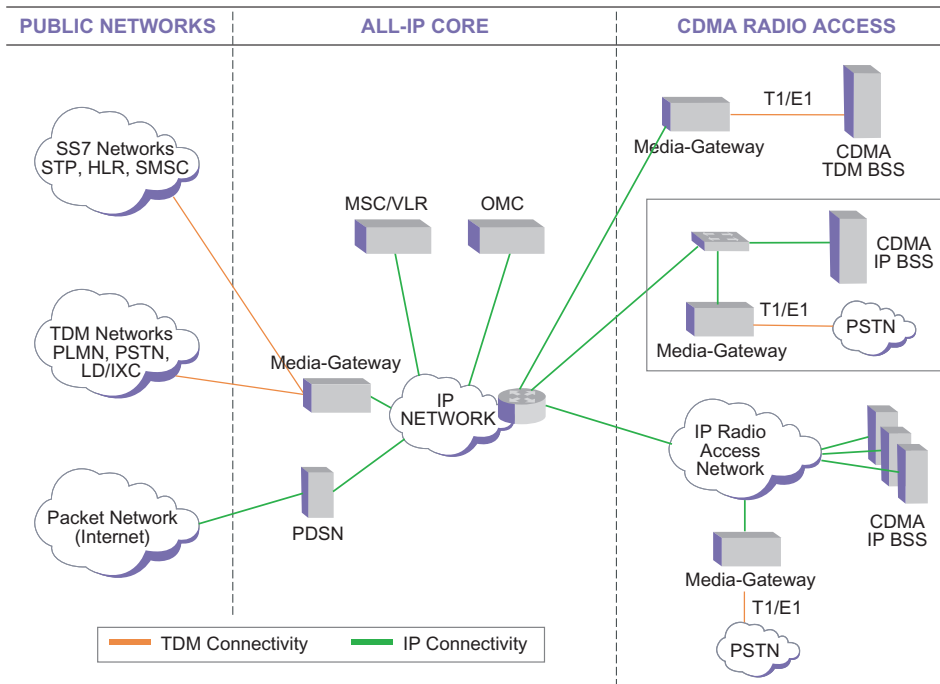
Core Voice Network Products

- UTStarcom MovingMedia 2000 Sonata® – Mobile Switching Center (MSC) Server
- UTStarcom MovingMedia 2000 Sonata – Intelligent Media Gateway (IMG)
- UTStarcom MovingMedia 2000 Sonata – Signaling Gateway (SGW)
- UTStarcom MovingMedia 2000 Sonata – Operations Maintenance Center (OMC)

Core Data Network Products

- UTStarcom Total Control® 800, 1000, 2000 packet data switching node (PDSN) and Home Agents (HA)

UTStarcom MovingMedia® 2000 Network Configuration—Evolution to an All-IP Network



UTSTARCOM MOVINGMEDIA 2000 iCELL MACRO IP BASE TRANSCEIVER SYSTEM (BTS)

Designed to provide wireless coverage in urban, suburban, and rural areas, this full-featured BTS eliminates the need to carry traffic over expensive TDM connections to a central Base Station Controller (BSC). By leveraging IP local loop connections, wireless operators can save on backhaul charges, enabling them to reduce costs and operational complexity. Using the BTS, operators can expand into new areas for minimal capital expenses and serve customers in locations where it was previously cost-prohibitive.

The BTS provides a three-sector carrier channel in one rack-mounted unit. By contrast, other alternative solutions require multiple interface cards to provide similar capacity, increasing potential failure points and complicating configuration and ongoing maintenance.

UTSTARCOM MOVINGMEDIA 2000 iCELL PICO IP BASE TRANSCEIVER SYSTEM (BTS)

The UTStarcom IP BTS can enable wireless operators to provide indoor campus-wide coverage. Leveraging flexible, low-cost IP networks, this powerful platform allows corporate customers to use the same handset, whether they are traveling, moving between corporate buildings, or talking inside offices or enterprise conference rooms.

The Pico IP RAN comes in a large capacity, highly compact form factor that can be mounted anywhere – on a wall, shelf, or hidden in a ceiling. The product features a built-in antenna that can be removed for direct connection to a Distributed Antenna System (DAS).

UTSTARCOM MOVINGMEDIA 2000 iCELL SOFT BASE STATION CONTROLLER (SBSC)

The UTStarcom MovingMedia 2000 sBSC efficiently controls all BTS's in a UTStarcom All IP-based CDMA infrastructure. This software-based solution can be distributed locally, eliminating expensive backhaul connections to a central BSC. Additional backhaul saving can be achieved by separating vocoders from the BSC platform and integrating them in MovingMedia 2000 intelligent media gateways which can be located where connections to the Public Switched Telephone Network (PSTN) are required.

The sBSC supports both MovingMedia 2000 Pico and Macro BTS, allowing operators to provide full coverage from city, suburb, and rural areas to enterprise campus locations. This rack mountable unit can be mounted anywhere in the enterprise and connected to an IP network to support multiple Pico units. For wide-area coverage solutions, the sBSC can also be co-located with the iCell Macro IP BTS.

UTSTARCOM MOVINGMEDIA 2000 SONATA SE – MOBILE SWITCHING CENTER (MSC) SERVER

The UTStarcom Sonata MSC® provides a scalable, cost-effective softswitch-based switching solution for MovingMedia 2000-based networks. Wireless operators that use the MSC server can gain substantial benefits, including lower transport and operational costs due to efficient routing and convergence of voice and data services over a single IP infrastructure. Other advantages may include increased bandwidth utilization through use of multiple compression schemes.

Using the MSC server, operators can provide services via IP connected base stations anywhere in the world, enabling them to expand geographic coverage and enter new markets. The server can scale from small deployments to very large configurations supporting up to one million Busy Hour Call Attempts (BHCA's).

UTSTARCOM MOVINGMEDIA 2000 SONATA SE – INTELLIGENT MEDIA GATEWAY (IMG)

This high density, highly compact hardware device efficiently translates calls between traditional telephone and wireless networks. Multiple IMGs can be distributed at the network edge or in POPs to optimize traffic routing and minimize interconnection costs by reducing dependency on expensive backhaul transport in favor of lower cost local loop connections.

The solution supports as few as two T1/E1 trunks or as many as 16 T1/E1 trunks per board or 240 T1/E1 per chassis.

The IMG combines media gateway and SS7 signaling in the same chassis – unlike other solutions that separate functions – enabling the IMG to perform two functions concurrently.

UTSTARCOM MOVINGMEDIA 2000 SONATA SE – SIGNALING GATEWAY (SGW)

The SGW provides protocol processing and signaling functions for MovingMedia 2000-based wireless networks. The SGW can enable separation of protocol and signaling duties from other tasks in the wireless infrastructure, enhancing operational and resource efficiency, while improving performance. Designed for use in load sharing, distributed configurations, SGW components can reside on a single server or be deployed on multiple platforms, depending on network requirements.

UTSTARCOM MOVINGMEDIA 2000 SONATA SE – OPERATIONS MAINTENANCE CENTER (OMC)

The UTStarcom OMC provides a complete, centralized platform for managing all MovingMedia 2000 components. This standards-based solution features a consistent common user interface and a complete set of powerful integrated features, providing tools such as centralized monitoring of events and alarms.

Sophisticated management tools can enable rapid network and service deployment. Additional capabilities allow network operators to quickly identify problems, optimize network resources, and ensure quality of service (QoS).

TOTAL CONTROL PACKET DATA SWITCHING NODE (PDSN)

The UTStarcom PDSN serves as the access gateway for calls delivered between RF and core data networks.

Configured on either the Total Control 2000, 1000, or 200 chassis, the PDSN establishes, maintains, and terminates Point-to-Point Protocol (PPP) links and performs Foreign Agent (FA) functionality. Functioning as the FA, the PDSN registers callers and facilitates service delivery, allowing wireless subscribers to use the Internet or corporate intranets.

The PDSN works in conjunction with three essential network components: the radio access network (RAN) through a standard-based radio-port (R-P) interface, a RADIUS AAA server used for user authentication and session accounting, and with a home agent for Mobile IP applications.

Please note the foregoing is the current opinion of UTStarcom, it may not be a comprehensive treatment of the subject matter covered and it is intended for informational purposes only. Because UTStarcom must respond to changing market conditions, the information herein should not be interpreted to be a commitment on the part of UTStarcom and the specifications are subject to change without notice. UTStarcom makes no warranties, express or implied, on the information contained in this document.



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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

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