

Continuity™

A FIXED MOBILE CONVERGENCE (FMC) SOLUTION

DELIVERING CONVERGED SERVICES TO VIRTUALLY ANY LOCATION,
ACTIVE DEVICE AND NETWORK ACCESS METHOD

Enabling subscribers to use their services seamlessly over broadband/WiFi and cellular networks is what the Continuity™ Fixed Mobile Convergence (FMC) solution is all about. Today, both cellular and fixed networks are equally adept at delivering a wide variety of services and applications. The reality of leveraging either fixed-line or cellular networks to deliver a converged communication experience is available today.

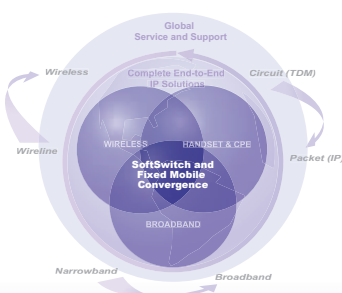
To meet this market demand, UTStarcom has developed the Continuity FMC solution. This leading edge system enables carriers flexibility in providing services over fixed-line and mobile networks for voice and data applications.

Solution Highlights

- **Investment Protection** – Continuity easily integrates with existing mobile and wireline softswitch network components enabling the delivery of converged services and applications. Continuity is a network component of the mSwitch® system. mSwitch® is a full end-to-end switching solution.
- **Scalable Growth** – The Continuity solution is scalable by design to grow to meet large network capacity requirements. It can be initially deployed in small networks and incrementally grow as you add more subscribers.
- **Complete Solution** – Back-office systems compatibility that provides billing, administration, and provisioning functions.
- **IMS-based Solution** – The Continuity system complies with the 23.806 Voice Call Continuity providing a smooth migration path to an IMS network.

Key Features to End User:

- **Convenience** – By using a dual mode phone users may continue their session as calls are seamlessly handed over from one type of network to another.
- **Cost Savings** – By leveraging current broadband connections, Continuity FMC may enable reduced service costs to consumers.
- **Better Coverage** – In-home and In-office coverage gaps disappear by leveraging WiFi.



Solution Capability:

- WiFi homed Fixed Mobile Convergence (FMC) user roaming to mobile (cellular)
- Mobile (cellular) homed FMC user roaming to WiFi
- Registration and authentication in both home network and in roaming network
- Make outbound call in both home network and in roaming network
- Receive incoming call in both home network and in roaming network
- Single telephone number in both WiFi and mobile (cellular) network
- Dual telephone numbers in WiFi and mobile (cellular) network
- Caller ID presentation and restriction in both WiFi network and mobile (cellular) network
- Call waiting in both WiFi network and mobile (cellular) network
- Handover call session from WiFi to mobile (cellular) and from mobile (cellular) to WiFi
- Receive message indication from home voice mail server while in roaming network
- Receive and send short message while in roaming network

Single Mode

- Sun server application server architecture
- Simultaneous ring multiple phones in wireless, wireline, VoIP domains
- Sequentially ring multiple phones in wireless, wireline, and VoIP domains
- Multiple ring-back tones
- Call Filter
- Time-of-day and day-of-week restrictions
- Call Jump/Transfer to 10 digit number with dial codes
- Single voice mailbox support
- Transfer calls between wireless and wireline via dial codes

Dual Mode

- Purpose Built application server architecture
- Supports dual-mode Wi-Fi/Cellular handsets in GSM and CDMA
- WiFi homed Fixed Mobile Convergence (FMC) user roaming to mobile (cellular)
- Mobile (Cellular) homed FMC roaming to WiFi
- Registration and authentication in both home network and roaming network
- Supports single or dual telephone numbers for WiFi and Cellular networks
- Place outbound calls in home and roaming networks
- Receive inbound calls in home and roaming networks
- Caller ID presented in both mobile and WiFi networks
- Call Waiting in both mobile and WiFi networks
- Live call handover in both directions (WiFi to Cellular and Cellular to WiFi)
- Message Waiting Indicator activation from home network while roaming
- Receive and send SMS while in roaming network

Network Supported:

- SIP network via 802.11 WiFi
- GSM Cellular
- CDMA Cellular

Interfaces Supported:

- Session Initiation Protocol (SIP) to Dual-mode (Cellular/WiFi) handset
- Mobile Application Part (MAP) to Global System for Mobile Communication (GSM) Home Location Register/Visitor Location Register (HLR/VLR)
- Interim Standard 41 (IS-41) to Code Division Multiple Access (CDMA) Home Location Register/Visitor Location Register (HLR/VLR) *
- Session Initiation Protocol (SIP)/Session Initiation Protocol (SIP) for Trunking (SIP-T) to SoftSwitch
- Signaling System 7 (SS7) A/F link over E1/T1
- Optional Signal Transfer protocols over IP (SIGTRAN) MTP3 (Message Transfer Protocol 3) User Adaptation (M3UA)

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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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