



Mobility Application Server

Fixed/Mobile Convergence (FMC) and Mobile Virtual Network Operator (MVNO) Support

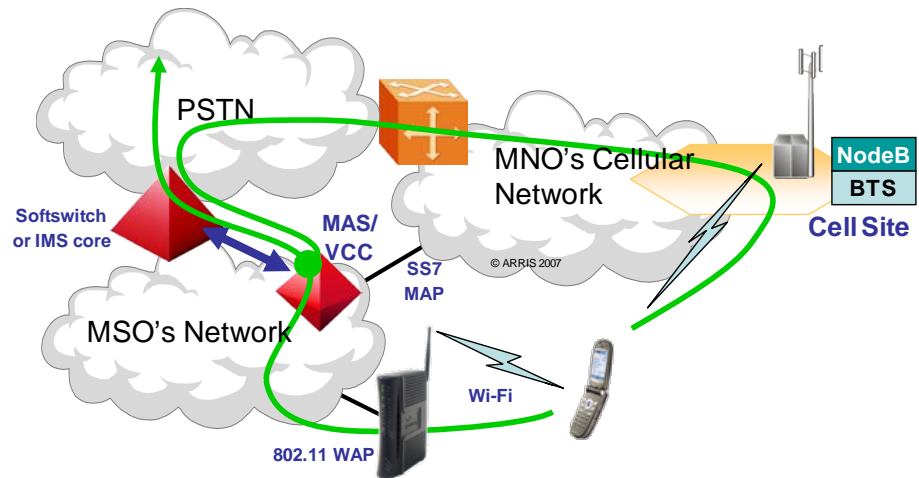
Quad-Play service differentiation with innovative and compelling features:

- Low technology risk – complete FMC solution integrates into today's cable networks
- Investment protection – software-only upgrade path to full PacketCable™ 2.0 compliance
- Supports loosely-coupled non-SS7 connected models as well as full FMC
- Works in GSM/UMTS, CDMA and 3G network environments
- Carrier-class and scalable solution
- Comprehensive operations, management and provisioning platforms included



ARRIS Mobility Application Server (MAS) is a flexible call processing platform and signaling server from which a range of convergent voice and data services can be launched, providing the operator with complete flexibility in the definition and timing of their mobile voice strategy.

- Improve the business case for mobile by offloading mobile traffic to landline
- Reduce cannibalization of landline voice revenue by integrating landline service with mobile
- Provide control over mobile service and costs for both voice and data with techniques like anchoring and least-cost routing
- Thoroughly field proven platform with carrier levels of reliability and scalability demonstrated in multi-million subscriber deployments



Applications

ARRIS MAS – Dual Mode Fixed/Mobile Convergence (FMC)

Dual-Mode FMC allows operators to offload 30-40% of mobile voice traffic from the mobile network, significantly reducing MVNO fees and creating a far stronger business case for MVNO mobile service. Subscribers benefit from the improved call quality and lower calling costs whenever Wi-Fi connectivity is available.

The ARRIS Mobility Application Server supports FMC in both pre-IMS and PacketCable 2.0/IMS cable architectures. The MAS can interface to an existing switch or to an IMS core, providing all the functions required to implement FMC with seamless roaming and handover between the landline and mobile networks

ARRIS Mobility Application Server FMC and MVNO Support

ARRIS MAS – MVNO Anchoring Gateway

The ARRIS MAS provides operators with a high degree of control over the mobile services and associated costs. Acting as an Intelligent Network Service Control Point (IN SCP) and Gateway Mobile Switching Center (G-MSC), the ARRIS MAS allows originating and terminating mobile calls to be anchored within the cable operators network. This allows re-use of existing interconnect facilities and transport/service infrastructure to support mobile services while providing support for least-cost routing and short code services.

ARRIS MAS – Single Number Service

Even before mobile services are launched, ARRIS Mobility Application Server can provide operators with compelling and attractive pre-quad-play services that help to differentiate existing landline offerings, drive subscriber and ARPU growth, and provide a technology and marketing basis from which to ensure strong subscriber uptake with the mobile offering is launched.

Specifications

Solution Capability:	<ul style="list-style-type: none">• Call Continuity Control Function:<ul style="list-style-type: none">◦ Seamless handover of active calls between Wi-Fi and Mobile network• Network Domain Selection:<ul style="list-style-type: none">◦ Intelligently route incoming calls over Wi-Fi or Mobile based on network availability and user preference• Unified Wi-Fi and Mobile telephone number• Supports separate Wi-Fi and Mobile telephone numbers• Dual Attachment:<ul style="list-style-type: none">◦ Simultaneous connection to Wi-Fi and Mobile network• Mobile network call termination• Fixed network call termination• Make outbound call in both Wi-Fi and Mobile network• Receive incoming call in both Wi-Fi and Mobile network• Caller ID presentation and restriction in both Wi-Fi and mobile network• Call waiting in both Wi-Fi network and mobile network• Call Forwarding in both Wi-Fi and mobile network• 3 Party Call in both Wi-Fi and Mobile network• Receive SMS based message waiting indication while in Wi-Fi network• Receive and send SMS messages over Wi-Fi network
Network Support:	<ul style="list-style-type: none">• Packet Network: SIP with Wi-Fi or other access• Circuit switched Network: GSM/UMTS; CDMA
Interfaces	<ul style="list-style-type: none">• SIPv2• GSM MAP• IS-41 MAP• SIP/SIP-T to SoftSwitch• SS7 A/F link over E1/T1• SIGTRAN (M3UA)• 3GPP IMS: Isc (SIP), Ma (SIP), Sh (Diameter), Rf• MEGACO (H.248)
MAS/VCC Logical Components	<ul style="list-style-type: none">• CS-P: NEBS compliant chassis for call processing and Call Continuity Control Function logic execution• SG: Signaling gateway terminates the SS7 link and converts to SIGTRAN• SLR: Implements Network Domain Selection function. GMSC, HLR and VLR capability.• PSC: CDR collection and processing server• SAM: Provisioning tool for subscriber management• OMC-S: Network management tool
Standards	<ul style="list-style-type: none">• UL® 60950, FCC Part 15 Class A, CE• NEBS Level 3• IMS Release 7 , PacketCable 2.0

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26 September 2008

ARRIS-FMCMAS-D-080926

