

ADVANCED MOBILE SOLUTIONS FOR SERVICE PROVIDERS

Intelligent, Scalable, and Secure All-IP Infrastructure Solutions for Flexible, Highly Reliable Mobile Networks

Challenge

In order to drive additional revenue and improve margins within today’s ever-changing mobile network business climate, mobile service providers (MSPs) must be able to provide value-added services to their customers.

Solution

Juniper Networks advanced mobile solutions enable the service velocity, network monetization, and operational efficiencies MSPs need to implement value-added services.

Benefits

Juniper Networks MPLS-based advanced mobile solutions encompass the full range of mobile networking technologies—from mobile backbone and mobile backhaul to security, AAA, FMC, and SBC—ensuring delivery of any service to any network device, and advanced revenue sharing and dynamic pricing models.

The Challenge

In order to drive additional revenue and improve average revenue per user (ARPU) within today’s ever-changing mobile network business climate, leading mobile service providers (MSPs) are providing value-added services to their customers. To meet the accompanying network requirements, these MSPs have started to cost-effectively transition to and implement each critical feature of the next-generation, high-performance, all-IP mobile network—including the mobile packet backbone network (MPBN); mobile backhaul; security; Authentication, Authorization, and Accounting (AAA); and session border controller (SBC).

The Juniper Networks Advanced Mobile Solutions

Juniper Networks®, the market leader in building high-performance packet networks, has industry-leading IP/MPLS expertise that has led to a great deal of success with both wireline and wireless carriers. The top mobile operators are already using Juniper Networks products in their networks. Juniper Networks advanced mobile solutions enable MSPs to build flexible, cost-effective, and scalable networks; and give them the ability to leverage a common IP infrastructure, based on the most popular mobile network technologies (including UMTS, CDMA and WiMAX), in order to increase profitability. This flexibility enables the service velocity, network monetization, and operational efficiencies MSPs need to implement value-added services in order to meet the challenges of today’s dynamic mobile market environment.

Features and Benefits

- Providing new, high-speed data services more economically, rapidly, and flexibly than before
- Reducing operating expenses associated with managing multiple networks and dependencies on different technologies
- Leveraging existing investments to create bundled services
- Minimizing risk and optimizing revenue with a secure, reliable and scalable infrastructure
- Offering quality of service (QoS) and prioritization of traffic that enables MSPs to partner with rich content/media providers to share revenue from content/media services

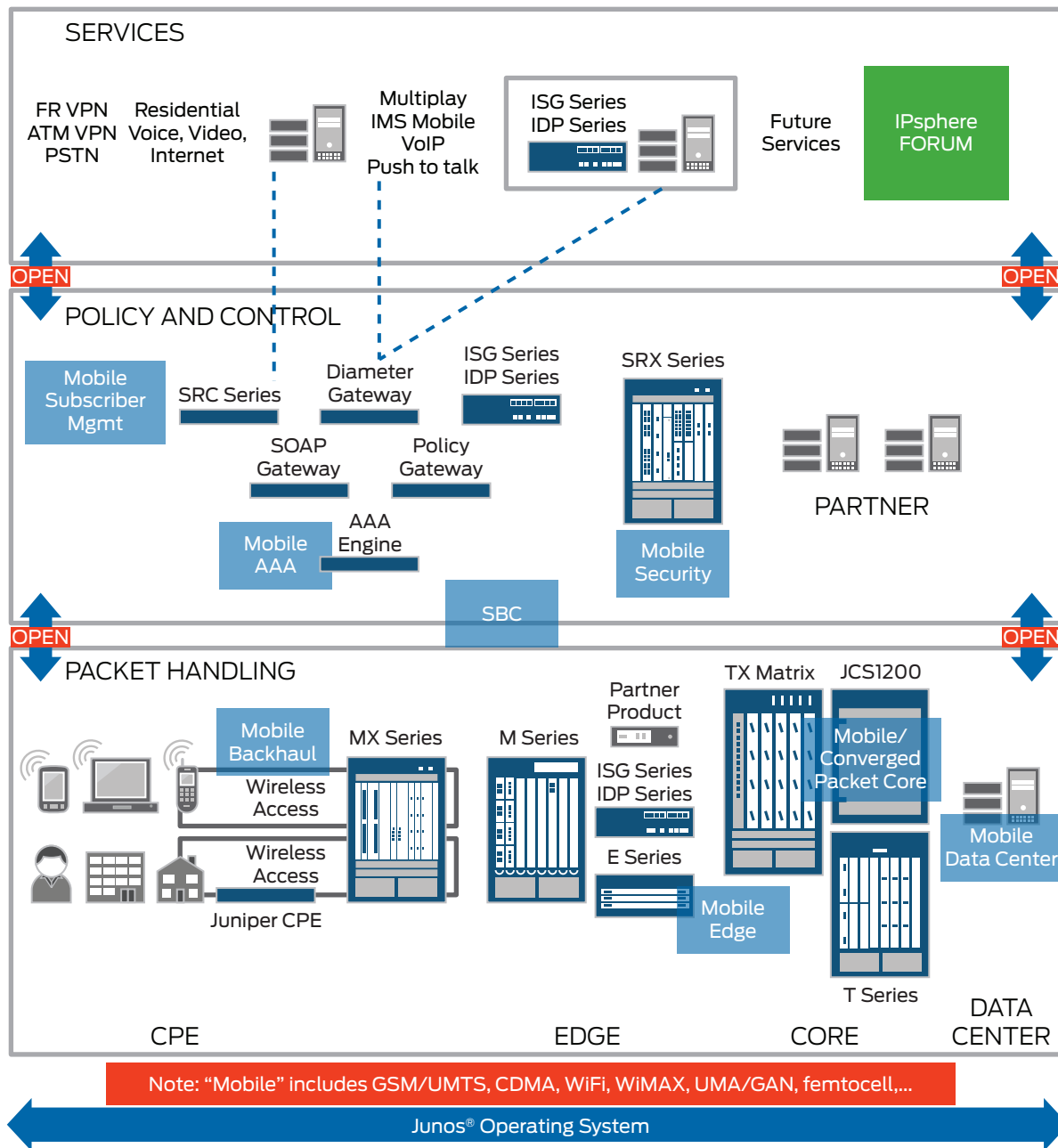


Figure 1: Juniper Networks advanced mobile solutions overview

Table 1: Juniper Networks Branch Office Solutions and Product Categories

SOLUTION	PRODUCTS	BENEFITS
Mobile packet backbone	M Series Multiservice Edge Routers, MX Series 3D Universal Edge Routers, T Series Core Routers	<ul style="list-style-type: none"> • Industry-leading IP/MPLS experience • Extreme reliability • Lower TCO
Mobile security	SRX Series Services Gateways, NetScreen Series Security Systems, ISG Series Integrated Security Gateways, IDP Series Intrusion Detection and Protection Appliances	<ul style="list-style-type: none"> • Industry-leading, high capacity, scalable firewall • Custom signatures • Mobile-specific protocol support
Mobile backhaul	BX Series Multi-Access Gateways, M Series routers with Circuit Emulation PICs, MX Series, Junos Scope Software, EX Series Ethernet Switches	<ul style="list-style-type: none"> • Offers high scalability and lower cost, reliability, flexibility, operational efficiency • Enables reduction of operating costs by converging different backhaul traffic on a common backhaul • Provides necessary QoS, Operation, Administration, and Maintenance (OAM), traffic management, and resilience through MPLS feature set
Mobile AAA (Authentication)	Steel-Belted Radius Carrier	<ul style="list-style-type: none"> • Standards-based • Advanced service delivery • Smooth evolution to IMS
Fixed wireless, WiFi, WiMesh, WiMAX	SRC Series Session and Resource Control Modules, SBR Carrier, E Series Broadband Services Routers, MX Series, ISG Series/IDP Series, NetScreen 5000 Series, SRX Series	<ul style="list-style-type: none"> • Extensive subscriber management and aggregation • Integrated policy management • Lower TCO • Security for transport layer • Unified Admission Control for enterprise access via WiFi/WiMAX
IMS-based Fixed Mobile Convergence (FMC)	ISG Series/IDP Series, NetScreen 5000 Series, SRC Series, M Series, T Series, E Series, SBR Carrier	<ul style="list-style-type: none"> • Intelligent, secure, and open solutions • Standards-based IP transport, resource, and admission control • Authentication and authorization • Layered security for entire IMS-FMC network
Unlicensed Mobile Access (UMA), Generic Access Network (GAN), femtocell	SBR Carrier	<ul style="list-style-type: none"> • Supports hotspot, UMA/GAN, femtocell access for Global System for Mobile Communications (GSM), UMTS, and Wideband Code Division Multiple Access (WCDMA) operators • Provides standards-based, advanced service delivery, smooth evolution to IMS

Juniper Networks Advanced Mobile Solutions: Flexible, Highly Reliable Intelligent All-IP Network Infrastructure

Juniper Networks intelligent all-IP advanced mobile solutions encompass the full range of mobile networking technologies—from MPBN and mobile backhaul to security, AAA, and SBC—ensuring delivery of any service to any network device, and advanced revenue sharing and dynamic pricing models. These solutions enable mobile operators to substantially lower costs while providing the scalability, reliability, flexibility, and maximum operational efficiency they need in order to monetize their networks. Juniper Networks solutions also enable mobile operators to strategically build out their mobile networks, expand their service offerings, and increase revenue in a challenging, hypercompetitive marketplace.

Next Steps

To purchase Juniper Networks solutions, please contact your Juniper Networks sales representative at 1-866-298-6428 or an authorized reseller.

About Juniper Networks

Juniper Networks, Inc. is the leader in high-performance networking. Juniper offers a high-performance network infrastructure that creates a responsive and trusted environment for accelerating the deployment of services and applications over a single network. This fuels high-performance businesses. Additional information can be found at www.juniper.net.

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