

## Service Controller in WiMAX Networks

Bridgewater Systems helps service providers accelerate fixed and mobile WiMAX deployments using high performance service control, policy control, and subscriber data management. The market leading Bridgewater® Service Controller for WiMAX provides a future-proof platform that supports multiple service models such as pre-paid, post-paid charging and on-demand services. It also offers innovative service control options such as over-the-air device provisioning and lawful intercept.

As a truly scalable solution, the Service Controller supports fixed and mobile WiMAX today, enables migration from fixed to mobile WiMAX, and provides the capability to extend to converged networks in the future.

The Bridgewater® ServiceMAX 500 is a system which combines the Service Controller, DHCP Server, Pre-paid Integrator, and Subscriber Data Broker and is specifically designed to meet the needs of small - to mid-sized WiMAX service providers.

Bridgewater is a principal member of the WiMAX Forum. The company is actively involved in the development of WiMAX standards for authentication, accounting, and policy management.

### FEATURES AND BENEFITS

- **Seamless subscriber experience.**
- **Simultaneous support of multiple EAP methods**, including EAP-TLS, EAP-TTLS, EAP-SIM and EAP-AKA, to ensure a seamless subscriber experience.
- **Full support for wireless Mobile IP (MIP)** standards required for mobile network roaming.
- **Quality of Service (QoS) support** associated with subscriber session or application improves subscriber experience.
- **Session key derivation and delivery via the Bridgewater's Subscriber Data Broker™ state database** ensures real-time management of the subscriber's mobile experience.

### Centralized management

- **Centralized** subscriber management enabled by the Subscriber Data Broker, provides the foundation for differentiated services, hierarchical subscriber and service administration, and granular profile-based control of user entitlements.
- **Centralized encryption and key management** for mobile WiMAX.
- **Support automatic deployment of new users with over the air provisioning** - OMA-DM interface Over-the-air (OTA) provisioning helps WiMAX service providers ensure customer satisfaction with zero-touch service activation and device management.
- **Ability to map Pseudo ID to real user identity to support Lawful Intercept in WiMAX** for compliance to governmental regulations.

### Revenue opportunities and management

- **Simultaneous support for session and flow-based accounting** allows for differentiated services and flexible billing models that appeal to a broader base of subscribers.
- **Support for multiple business models** - including wholesale and retail - allows WiMAX providers to leverage new business models with a common policy management infrastructure.
- **Subscriber redirection** helps prevent revenue leakage and better manage subscriber usage.
- **Support for pre-paid solutions in WiMAX** – allows service providers to offer prepaid data services while reusing their existing voice billing system and protecting their investments.

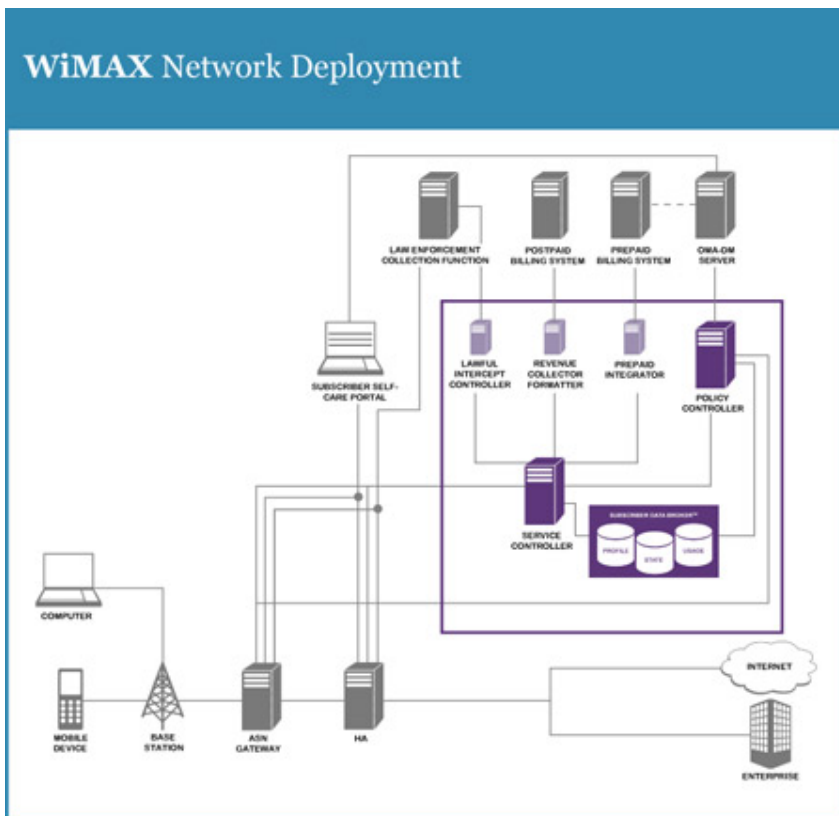
### Future-proof solution

- **Multi-protocol (RADIUS/Diameter) support** protects investments in legacy applications and enables migration to next-generation networks.

- **Vendor and network agnosticism** enables easy integration in mixed networks.
- **Proven to scale to support increasing numbers of subscriber and transaction rates.**
- **Seamless migration** path from fixed to mobile WiMAX.

#### Flexible architecture and superior performance

- **Simultaneous support of multiple access technologies** on a single server platform; highly scalable, high-performance RADIUS and Diameter engines with proven interoperability; improved network uptime; and subscriber satisfaction with multi-network convergence.
- **Full-featured, advanced AAA service platform** supports fixed and mobile networks and next-generation revenue-boosting applications.
- **Dynamic home agent allocation** ensures that WiMAX calls are routed via the optimal home agent, depending on usage, system health, and subscriber's location.
- **Device and/or subscriber authentication** via X.509 certificates or pre-shared key enables broad security controls.
- **Intelligent RADIUS proxy** minimizes the operational impact of non-performing proxy targets.
- **Extensive and proven interoperability** accelerates time to market and eliminates expensive custom integration.



#### About Bridgewater Systems

Bridgewater Systems, the mobile personalization company, enables service providers to efficiently manage and profit from mobile data services, content and commerce. The company's market leading mobile personalization portfolio provides a real-time, unified view of subscribers including entitlements, devices, networks, billing profiles, preferences and context. Anchored by Bridgewater's Subscriber Data Broker™, the portfolio of carrier-grade and standards-based products includes the Bridgewater® Service Controller (AAA), the Bridgewater® Policy Controller (PCRF) and the Bridgewater® Home Subscriber Server (HSS). More than 150 leading service providers including America Movil, Bell Canada, Clearwire, Cox, Hutchison Telecom, Iusacell, Scartel, SmarTone-Vodafone, Sprint, Tata Teleservices, Tatung, Telmex, Telstra, and Verizon Wireless use Bridgewater's solutions to rapidly deliver innovative mobile services to over 150 million subscribers. For more information, visit us at [www.bridgewater.com](http://www.bridgewater.com).

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