

Bridgewater Service Controller (AAA)

The Bridgewater® Service Controller is the industry's leading service control product that allows operators to offer and control access to advanced and differentiated services across all network access technologies.

The most scalable and robust solution of its kind, Service Controller is widely deployed and proven in service provider networks around the globe. The Service Controller supports network access control services, including authentication, authorization, and accounting (AAA) for devices and subscribers in the following networks:

- Machine to Machine (M2M)
- Fixed
- Convergent
- WiMAX
- GSM/HSPA
- CDMA

Network access control functions, such as AAA, are business-critical functions that enable fast, efficient and secure access to data networks and services. The Service Controller provides a flexible underlying service control infrastructure required to support carrier-grade performance and scalability of mobile data services targeting consumer, enterprise, and machine markets.

Bridgewater Service Controller supports the following optional modules:

- Revenue Collector and Formatter
- Pre-paid Integrator

Why Bridgewater Service Controller?

- Best of breed pedigree, Service Controller is the leading AAA solution proven in more than 150 deployments in 3G and 4G WiMAX, with access network specific features and functions supported.
- Multi-access support provides simultaneous support—3G (CDMA, GSM/HSPA), WiMAX, Fixed, Wi-Fi—to future proof operator's choice in AAA.
- The most extensive interoperability with multiple network equipment vendor types to access time to market and reduce deployment costs.
- Proven policy engine provides flexible policy-driven service control decisions based on entitlements, dynamic state, device type, location, and other parameters.
- Supports WiMAX Forum, 3GPP2, 3GPP, and ETSI standards.
- Carrier grade performance and scalability, the Service Controller is Tier 1 proven, from 5000 to 100M+ subscribers and devices.
- Deployable in weeks not months to achieve time to market advantage.
- Multi-market support for M2M, femtocell devices, enterprise-delegated administration, wholesale/MVNO business models, and flexible consumer services.
- M2M device service control supports more than 10M M2M device connections today, providing carrier-grade scalable device AAA support.

Features and Benefits

- **Policy Engine:** Flexible network, service, subscriber, device policies defined at many levels of granularity including domains, user or device groups, individuals, wholesale, enterprises, and consumers.
- **Push-and-Pull Policy Decision Point (PDP):** Allows subscriber and device entitlements to be managed and enforced through profile-associated attributes and credentials including security, QoS, location and subscriber, and device entitlements.
- **Real-time Session Management:** Provides mobility, roaming, security, and usage tracking.
- **Multiple Extensible Authentication Protocols (EAP):** Broad and flexible security policy support ensuring secure network attachment.
- **Multiprotocol Support:** Dual RADIUS and Diameter for simultaneous 3G and 4G support.
- **Interworking:** Provides non-3GPP interworking for data offload applications, and HLR interworking.
- **Regulatory Compliance:** Complies with complex regulatory standards for 4G and provides support across multiple access

networks for activities such as lawful intercept.

- **Data Roaming:** Enables roaming subscriber's data session to be anchored in home network to preserve subscriber experience and minimize roaming charges.
- **Intelligent RADIUS Proxy:** Minimizes the operational impact of non-performing proxy targets.
- **Centralized Subscriber Management:** Bridgewater's Subscriber Data Broker™ provides the foundation for differentiated services, hierarchical subscriber and device administration, and granular, profile-based control of subscriber and device entitlements.
- **Deployment Architecture Options:** High availability, database replication, system redundancy, and application decoupling.
- **Hierarchical Device Modeling:** Allows flexible grouping of similar devices, and provides extensive scalability and the ability to support complex hierarchical groups of similar devices based on entitlements and requirements.

DOWNLOAD the Bridgewater Service Controller datasheet for product details.

About Bridgewater Systems

Bridgewater Systems, the leader in intelligent broadband controls, provides pre-integrated solutions for mobile and converged operators to transform their networks, optimize mobile data growth, and innovate with new services. The Bridgewater portfolio of carrier-grade products includes Service Controller (AAA), Policy Controller (PCRF) and Home Subscriber Server (HSS), anchored by a common identity and device management system. More than 150 leading service providers worldwide leverage Bridgewater to create and deliver profitable services to consumer, enterprise, cloud and machine markets.

Headquarters

303 Terry Fox Drive,
Suite 500
Ottawa, Ontario
Canada K2K 3J1
P: +1 613 591 6655
F: +1 613 591 6656

European Office

1st Floor,
6 FaradayOffice Park
Faraday Road,
Basingstoke, UK
RG248QQ
P: +44 (0) 125 684 0877
F: +44 (0) 125 636 3833

Asia Pacific Office

Suite 211/250 Pitt Street
Sydney, NSW,
Australia 2000
P: +61 2 9283 2313
F: +61 2 9283 3738

U.S. Office

280 Madison Avenue,
Suite 912
New York, NY
United States 10016
P: +1 866 652 0471
F: +1 613 591 6656

Hong Kong Office

Unit #30, Level 23,
One Island East
18 Westlands Road,
QuarryBay
Island East, Hong Kong
P: +852 3750 7588
F: +852 3750 4769