Features & Benefits

SUR is a high performance, scalable and reliable Subscriber Data Management solution built on the proven foundation of Openwave Mobility’s directory technology.

Carrier-grade reliability deployed globally in over 100 mobile operator networks with a total of 350M subscribers worldwide at 99.999% availability.

Proven scalability and performance in existing carrier deployments up to 130 million subscribers with 1 ms latency for search requests.

Comprehensive security supports SASL and Digest-MD5 authentication and TLS for encrypted data channels.

Compliant with 3GPP User Data Repository and interfaces to Diameter, Sh, Ud and LDAPv3 standards.

Cost effective foundation with linear scalability capabilities and software architecture optimizations to achieve the lowest TCO.

Vendor-agnostic UDR to reliably interwork with any front-end application over standardized interfaces.

Smart User Repository

High-End SDM Solution for Subscriber Profiles and Policies

As carriers adopt subscriber-oriented network and Policy Control and Charging solutions, the User Data Repository (UDR) and Subscriber Profile Repository (SPR) become business critical components. A new breed of Subscriber Data Management (SDM) solution is required that provides centralized management of all subscriber data and delivers predictable performance with reduced total cost of ownership.

Flexible architecture and unrivaled performance make Smart User Repository the perfect choice for subscriber data management implementations requiring 3GPP-based SPR or UDR components.

Proven Performance

Openwave Mobility Smart User Repository (SUR) is a high performance, scalable and reliable SDM solution built on the proven foundation of Openwave Mobility’s directory technology deployed in over 100 operator networks. SUR offers high speed, low latency user data access that helps carriers to reduce the complexity of subscriber data management for expanding services and applications.

Flexible Architecture

SUR supports multiple data consolidation and federation models, delivering on the promise of all user data contained in a single entity. It uses a Master-Replica-Notification server model with Replica servers containing a full or partial set of user data stored in memory, and Notification servers informing subscribing applications of user data updates. Geo-distribution of servers ensures low latency for every request.

The Master server supports the use of: primary/secondary Master to improve replication capacity and Standby Master to ensure provisioning reliability.
Smart User Repository

High-End SDM Solution for Subscriber Profiles and Policies

Unrivalled Scalability

By de-coupling write, read and notify requests SUR enables linear scaling with predictable costs. Using multi-level replication SUR enables unlimited scalability for read requests while limiting peak usage latency to 1ms. Notifications operate independently of the core Master system, which allows independent scaling. Our largest deployment serves over 130 million subscribers with zero out-of-synch events in over 10 years, and tested for up to 500 million users.

Servicing Applications

SUR offers change notification at an attribute, entry or tree level or for a group of sub-entries. Asynchronous changes ensure optimized client response.

Expanding to Subscriber Profile Repository

Extract additional value from Policy and Charging Control investments by expanding SUR to a full 3GPP Subscriber Profile Repository. SPR stores and delivers subscriber policies across large, distributed networks in real-time with an unrivalled performance/TCO ratio.

Security

As an LDAPv3-compliant directory, SUR supports SASL, Digest-MD5 security and TLS for encrypted data transport. To ensure effective security SUR includes:

- Administrative roles and permissions with access control information rules
- Server and client-side certificates
- Encrypted storage

Simplified Management

Comprehensive administration features include:

- Graphical schema management and update distribution
- Multi-tenant and cloud service models support
- Continuous operation during upgrades plus automated replica back-up and recovery

Solving the Challenges of Subscriber Data Management

The need to provide a single view across data silos so operators can supply innovative, highly personalized services, drives the need for a hybrid family of products. Openwave Mobility meets this need with its SDM product mix:

- **Subscriber User Repository (SUR)** a massively scalable system for distributed, synchronized subscriber data.

- **Smart Data Federator (SDF)** a highly flexible interface between silos to both read and write data to existing and new systems, allowing for an integrated single view of the data.

- **Hydro**: an extremely fast storage system to maintain fast changing user and session data, allowing services to share current state information for the subscriber.

Platform Support

Operating system: RHEL 6.0+ 64-bit; Hardware: Intel processor; Database: Oracle; Berkley

For more information please visit [http://owmobility.com](http://owmobility.com)

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About Openwave Mobility

Openwave Mobility empowers mobile operators to manage and monetize video traffic using the industry’s most scalable, Layer7 SDN/NFV platform.

Openwave Mobility delivers Video Optimization, Subscriber Data Management and Targeted Ad Insertion. Together these eliminate RAN congestion, maximize value from subscriber data and create new revenue opportunities.

The company provides true carrier class solutions, working with over 40 of the world’s largest service providers and delivering over 40 billion transactions every day to over half a billion subscribers. It has a global presence and is headquartered in Redwood City, California.