

OSS/BSS SOLUTION FOR BROADBAND PROFITS

Service Delivery & Billing for Next Generation Broadband Networks

The UNIFY SMP is a carrier-grade OSS/BSS platform for broadband service providers. Using the UNIFY SMP software platform, service providers can acquire, provision, bill and manage their subscribers, services and networks.

Deployments of the UNIFY SMP can be found in DSL, Public WiFi, WiMAX, Metro Ethernet, FTTH and Satellite (VSAT) where everything from the subscriber sign-up to real-time pre-paid service billing is handled by this single platform.

For rapid network deployment, the UNIFY SMP readily interfaces with leading Service Delivery Routers (SDR), Broadband RAS (B-RAS), Subscriber Gateways, VoIP and IPTV Equipment over standards based AAA and Web Services.

Comprehensive, Modular System

Architected as a modular, scalable, distributed system, the UNIFY SMP uses a Java Enterprise (J2EE) infrastructure to achieve its goals.

The core system consists of the following components, which can be extended almost indefinitely using web services API.

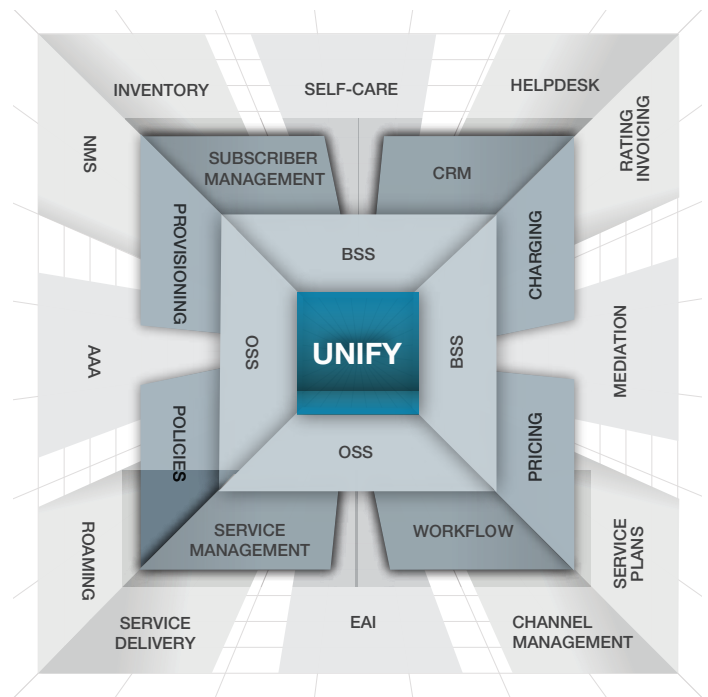
- AAA including RADIUS & LDAP
- Policy Server
- Relational Database
- Java Application Server
- Portal & Customer Engagement Server
- Load Balancing & High Availability Components
- Messaging System

The application modules of the UNIFY SMP can be selectively combined to cater to service provider needs. Major application modules available are:

- Convergent Billing (Pre & Post Pay)
- Access & Service Management
- Subscriber Management
- Rating & Charging
- Customer Care
- Messaging Gateway

Platform That Grows With Your Business

Start small with the UNIFY SMP Express Edition, capable of handling tens of thousands of subscribers. Affordable, quick start that can have your business running in a single day!



Smaller operators can seamlessly migrate and upgrade to the UNIFY SMP Carrier Edition as their business grows. This robust application can run complex multi-service scenarios and managing millions of subscribers. UNIFY SMP modules allow operators to construct a system that is scaled *just right* for their needs.

Any Service, Wireless or Wire-line

Virtually any service over any network can be billed & managed by the UNIFY SMP. With a convergent core, the platform permits multi service plans that combine voice, data & video offerings. This includes cross-service promotions, contracts & exotic service bundles. Also handled are resellers, MVNO and other white-label business models.

Green field operators will appreciate the completeness and ease of use that the UNIFY SMP brings, not to mention the rapid time to market when compared with other convergent billing solutions.

Existing large carrier networks can integrate the complete UNIFY SMP or any of its relevant modules into their existing billing systems to provide cross bundled service billing & consolidated subscriber invoices. For example, usage based broadband WIMAX services could be designed, provisioned & metered by the UNIFY SMP before handing off a pre-rated IPDR to an existing mediation system.

With successful implementations across the world, the UNIFY SMP is battle tested & ready to make your business more profitable.

Feature	Description
Access & Service Management	<ul style="list-style-type: none"> Graphical product (service) designer that even the marketing department can use Enable pre, advance & post-pay Usage based plans with automatic disconnection Scheduled peak, off-peak service definitions with usage modifiers Customer premises equipment tracking & inventory
Subscriber Management	<ul style="list-style-type: none"> Comprehensive account demographics, profiles & management. Hierarchical subscriber account trees with parent child relationships.
AAA Services	<ul style="list-style-type: none"> RADIUS & LDAP services integrated with UNIFY SMP policies & logic. Interface with any standards compliant external system - RADIUS, LDAP & Policy Servers. Support for leading routers, subscriber gateways, access controllers and AAA equipment.
Rating & Charging	<ul style="list-style-type: none"> Convergent, real-time rating engine Charge any product - video, voice, data and value-added-services Promotions, product bundles, contracts and complex discounts
Convergent Billing	<ul style="list-style-type: none"> Flexible billing and invoicing with customiz-able bill printing and delivery options Support for credit limits, profiling, hierarchical account trees and more Geographic billing
Virtual Operators	<ul style="list-style-type: none"> Platform virtualization for multiple operators to be hosted on the same product instance. Each virtual instance acts as complete UNIFY SMP. Support MVNO, franchisees, resellers each having controlled system access.
Customer Care	<ul style="list-style-type: none"> Role based CSR access. Self care portals & dashboards. Help-desk module.
Scalable Platform	<ul style="list-style-type: none"> Start small, grow to millions of subscribes Multi server, clustered for 99.999% Modularized approach with on-the-fly upgrades Support horizontal and vertical scaling using industry standard solutions

SOLVING PROBLEMS

What services can the UNIFY bill?

As a convergent billing platform, the UNIFY can be used to bill any IP service - broadband, VoIP, IPTV, data center hosting, WiFi and more.

The UNIFY SMP supports three major charge models: pre-pay, advance-pay and post-pay. Most billing systems are network agnostic and the UNIFY is no different.

How easily does the UNIFY scale?

Designed with no single point of failure, the UNIFY SMP runs on a set of clustered servers within the NOC. Each server in the cluster can be scaled vertically to improve computing resources and consequently system performance. Further more servers can be added to the cluster increasing the entire clusters' computing capacity. This way the UNIFY SMP can be scaled easily and endlessly to cater for your growing needs.

How many subscribers can I start with?

The UNIFY SMP is licensed either on a per subscriber basis or on number of physical processors that execute within the UNIFY SMP server cluster. Start with as little as three servers (4 processors) running only the basics and add as you grow.

Does the UNIFY include LDAP, RADIUS & AAA?

Yes. The UNIFY SMP ships with open-source versions of OpenLDAP, FreeRADIUS and Postgres, pre-integrated and ready to go.

Commercial, carrier-grade versions of these packages are also available from RedHat, Sun Microsystems and Enterprise DB for which one can procure licenses separately. Of course, Inventum provides professional support for all of the above.

What equipment can the UNIFY provision?

Any equipment that provides AAA, SOAP/XML & SNMP interfaces. This includes popular broadband RAS (B-RAS), service delivery routers, soft switches, IPTV head-ends, WiMAX base stations and wireless access controllers.

Customers may also want to explore Inventum's MSC Multi-Service Controllers for out-of-the-box, pre-integrated, service delivery routing.

March **09**
www.inventum.cc
sales@inventum.cc

AMERICAS

Inventum International Ltd.
Suite 600 Millennium Center
15455 Dallas Parkway
Addison, Texas 75001 USA
Tel. +1 (214) 233-0659

ASIA & EMEA

Inventum Technologies (P) Ltd.
B-5, Sector 6,
Noida UP, 201301
India
Tel. +91 (120) 427 4900