

# mBOSS

## mSWITCH<sup>®</sup> BUSINESS OPERATION SUPPORT SYSTEM

A SOFTWARE SUITE THAT PROVIDES FULL OPERATION AND SUPPORT FUNCTIONS FOR TELEPHONY, MULTIMEDIA AND CONVERGED NETWORK

- **CARRIER CLASS**
- **FAULT TOLERANT**
- **SECURITY AND DATA INTEGRATION**
- **USER FRIENDLY**
- **MULTI-NEWTORK CONVERGENCE**

The mSwitch<sup>®</sup> Business Operation Supporting System (mBOSS) provides a robust set of system management tools. These tools offer all the service management and data provisioning functions required for multiple types of network operations such as Next Generation Network (NGN), mobile network, TV over IP network and the convergence of these different types of networks. This powerful suite of products allows service providers to manage all business and service characteristics through user-friendly web based interfaces.

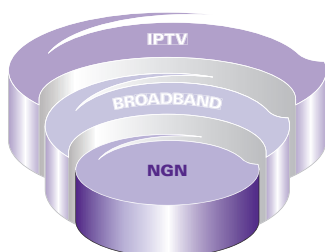
The mBOSS family consists of multiple software based applications that provide pricing management, billing data collection and processing, user and system data provisioning, and end user self-service. It seamlessly integrates with UTStarcom mSwitch product line and RollingStream<sup>®</sup> product line. It can also be customized to provide OSS function to a 3rd party network.

### KEY FEATURES AND BENEFITS

**Carrier-Class**—Designed upon software architecture that focuses real time responsiveness, scalability and high availability. Deployed in the standard Sun server platform and/or Linux platform.

**Field Proven**—These scalable applications have been proven in numerous field deployments worldwide. Because the system is operationally scalable operators are able to provision users quickly and easily, providing connectivity to subscribers in a cost effective manner.

**User Friendly**—The web based interface allows for remote access and customization of logo, color scheme, layout and content. Provisioning users through this intuitive GUI interface is so simple that operators can save both time and money.



## Overview

- Most components are running on Sun Solaris operating system, while others are Linux servers
- Utilize Oracle Database for data storage
- Strong scalability with addition of hardware servers
- Software collocation for small deployment
- Web based application provide user friendly interface and remote access
- Real time data synchronization with central database
- Data protection scheme to protect the data content integrity
- Fault tolerance design, with local redundancy as well as geographical redundancy

## Billing Policy Management Module - Online Billing Server (OBS)

- Allows operators to create and manage the service plan provided by the underlying network
- Provide pricing policy definition and management function for each of these services
- Provide intelligent tool to define and manage discount plan, promotion plan, and personalized bundle package
- Provide tool for bill and invoice creation for each subscribers
- Support both post paid and pre-paid application models

## CDR Collection and Processing Module – Processing Server for CDR (PSC)

- Collect the raw CDR from network element in real time
- Store the CDR data for post processing
- Consolidate the CDR data and convert the CDR form with optional XCDR module
- Export the final CDR record for billing integration
- Calculate and record the remaining balance for pre-paid subscribers

## User and System Data Provisioning Module – Subscriber Administration Manager (SAM)

- Provide tools for subscriber account creation, deletion and modification
- Access to service subscription management, supplementary feature provisioning
- Provide multi-user grouping with different access privileges
- Provide data record for administrator operation auditing
- Provide alternate API stack for service provider GUI customization and Integration

## Subscriber Self-Service Module – Customer Self Service (CSS)

- Allow end user access to user profile information
- Provide web based interface to all supplementary feature provisioning, activation, deactivation, and parameter update
- Allow end user to browse the call history, usage record and charging information
- Provide capability for user customization

## Virtual Service Provider Management

- Hosted/Leased Service Management
- Reseller Management
- Payment and Settlement between carrier and VSPs

## Enterprise Subscriber Self-Service Tool – Enterprise Self Service (ESS)

- Provide IP Centrex management function to the enterprise customers
- Allow carrier to define Centrex group and allow Centrex group administrator for Centrex self management over web interface
- Provide web based tool for Centrex administrator to define Centrex privilege to each Centrex end users, manage Centrex feature sets and operation status
- Provide capability for user customization

## IN Service Integration and Emulation – Convergence Application Controller (CAC)

- Provide legacy IN interface (INAP/CAP/WinMAP) to integrate with IN SCP function
- Provide better service that can replace the legacy IN SCP functions such as Prepaid and Number Portability and allow legacy PSTN or PLMN switches to access over existing interface
- Fully integrated with other mBOSS components for provisioning, billing and management capability

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### UTStarcom, Inc. USA

1275 Harbor Bay Parkway  
Alameda, CA 94502 USA  
Tel: 510-864-8800  
Fax: 510-864-8802

[www.utstar.com](http://www.utstar.com)

### About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at [www.utstar.com](http://www.utstar.com)

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