

AdvOSS Converged Billing System

AdvOSS is an emerging Canadian vendor of technologically advanced solutions that enable any Service Provider to realize all of its needs in aspects of service delivery, management and charging in a fully integrated way. Tens of Tier-1 and Tier-2 Service Providers worldwide depend on AdvOSS for their critical business needs.

Overview:

AdvOSS Converged Billing is service agnostic and allows CSPs to monetize new revenue streams for any type of service offering and business model, through one unified platform. It fully supports both prepaid and postpaid business models. It empowers CSPs to improve time to market of new products and services, while lowering the total cost of ownership.

AdvOSS Converged Billing architecture is based on open APIs and hence can be easily integrated with other B/OSS products to build larger solutions. AdvOSS has a range of B/OSS products in its portfolio with which AdvOSS Converged Billing comes pre-integrated as part of AdvOSS Solutions.

Modules:

The AdvOSS Converged Billing is composed of the following modules:

- Account Balance Management
- Virtual Operators Management
- Payment Processing
- Corporate Billing and Enterprise Accounts
- Billing Cycles
- Multiple Currencies
- Subscription Charges
- Rated Service Charges
- Invoicing and Financials
- Miscellaneous Adjustments
- Promotions
- Alerts and Notifications
- Friends & Family Packages
- Multi-services Billing
- Taxation Management

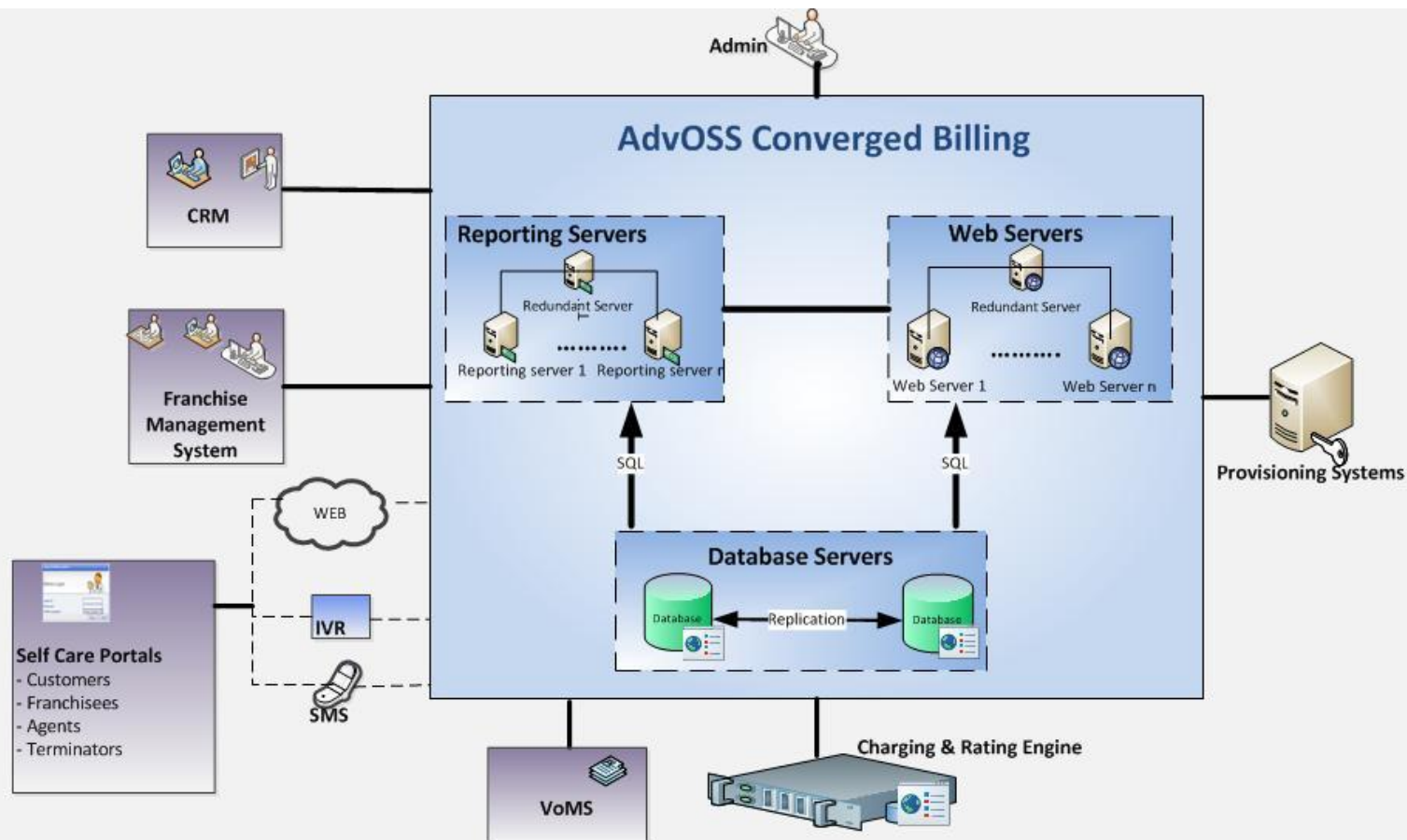
Integration Points:

AdvOSS Converged Billing offers points of integration with the following systems :

- **Provisioning Systems** AdvOSS Converged Billing can integrate with Provisioning Systems that are responsible for Provisioning various entities like network elements, access servers, etc.
- **Voucher Management System** AdvOSS Converged Billing can integrate with Voucher Management Systems that are responsible for managing the voucher lifecycle.

- **CRM and Order Management Systems** AdvOSS Converged Billing can integrate with CRM and Order Management Systems that are responsible for order management as well as customer centric operations.
- **Charging Engines** AdvOSS Converged Billing can integrate with Charging Engines that are responsible for charging rated services.
- **Franchisee Management Systems** AdvOSS Converged Billing can integrate with Franchisee Management systems that are responsible for managing the Franchisee and Distributor Channels of the CSP.
- **Web based Subscriber Self Care Applications** AdvOSS Converged Billing can integrate with Web based Subscriber Self Care Applications.
- **IVR based Subscriber Self Care Applications** AdvOSS Converged Billing can integrate with IVR based Subscriber Self Care Applications.

Software Architecture



Business Use cases:

- **Multiple Services**
 - Create as many services and their offerings
- **Corporate Billing and Enterprise Accounts**
 - Multiple using parties under a single paying party
- **Account Balance Management**
 - Subscription Charges
 - Balance Transfer
 - Credit Reservation and Refund
 - Rated Service Charge
 - Balance Adjustment
 - Payments
 - Credit Limit Management
 - Automatic Payment processing triggers

- **Payment Processing**
 - Voucher Redemption
 - Support for multiple voucher systems
 - Service Credit Redemption
 - Interface with Franchisee Self-Care portal
 - Interfaces with SMS and IVR gateways
 - Open API for integration of payment kiosks
 - Offline Payment
 - PoS Integration
 - CSR portal integration
 - Online Payment
 - Payment gateway integration
 - Paypal / Money Booker other such gateways support
 - Extensible online payment gateway integration
 - Automatic payment triggers in real-time
 - Interface with service management systems for automatic resumption of services

- **Billing Cycles**
 - Flexible management of billing cycles
 - Support for perpetual services

- **Subscription Model**
 - Support for base subscription of each using party for each service
 - Bundled services with Plan level subscription charges
 - Support for Service add-ons
 - Extra features
 - Higher QoS
 - Support for Resource add-ons
 - Extra Resources
 - Support for Counter add-ons
 - Extra Duration
 - Extra Usage
 - Extra Events

- **Subscription Charges**
 - Automatic billing cycle processing
 - Base service subscriptions
 - Subscribed Add-Ons
 - Service Add-Ons
 - Value Added Services
 - Resource Add-Ons
 - Counter Add-Ons
 - Line Rents
 - Amortized charges (charges that stop after amount has been debited)
 - Interface with service management elements to block services if needed
 - Counter instances refresh on charging system.
 - Prorated charges for mid-cycle subscriptions and changes
 - Activation charges
 - Non-default charges for individual subscribers
 - Approval workflows for non-default charge authorization

- Rule based deduction based on Subscriber's life cycle
- **Rated Service Charges**
 - Interface with Charging and Rating engine for real-time rated service charges
 - Detailed Sub-Invoicing for each CDR
 - Service Management events upon balance depletion
- **Invoicing and Financials**
 - Separation of pre-paid and postpaid subscribers
 - Automatic Invoice generation
 - Sending of invoice as per customer preference
 - Email
 - Printing
 - Flexible skin based interface for invoice formatting
 - Flexible rules to club CDRs into sub-invoices to show as a single line item in main invoice
 - Detailed reporting for aging and dunning etc.
 - Detailed interface for export to external accounting and financial systems
- **Miscellaneous Adjustments**
 - Interface in CSR portal to post adjustments
 - Support for work flow definition for approval process
 - Detailed classification of all adjustments into charge heads
 - Service Management interfaces for blocking / resuming services
- **Non-Usage Charges**
 - Detailed definition of non-usage charges
 - Flexible deduction frequency (Daily, Weekly, Monthly, other variations)
 - Consolidated reporting on invoices
- **Subscriber Life Cycle Management**
 - Rule based life cycle for Subscribers
 - Voluntary blocked subscribers and subscriptions
 - Interface to service management systems for suspension / resumption of services
- **Unsubscribed users and pay as you go plans**
 - Unsubscribed user authentication
 - PIN based signup
 - Partner Subscriber Manager
 - Subscription based plans (hour pass, day pass, week pass and so on)
 - Duration caps
 - Usage caps
 - Event caps
 - Bandwidth and other service profile settings
- **Promotions**
 - Campaign Management
 - Support for most complex rule definition using work flow languages for passing on bonuses to matching customers
 - Promo-code management
 - Published and individual promo-code support
 - Integration with Customer self-serve portal
 - Multiple possible bonuses and benefits

- Extra cash bonus
- Extra counter bonus
 - Extra duration
 - Extra usage
 - Extra events
 - Higher sub-totals
- Lower or zero subscription charges for a defined period
- Cross service bonuses
- Detailed tracking of issues bonuses
 - Cost of sales analysis for issued bonuses
 - Detailed tracking of each issued bonus to applicable campaign
- **Virtual Operators Management**
 - Manage Virtual Operators
 - Account Balance Management for Virtual Operators
 - Invoicing and Payments
 - Self-Serve Portal
 - Product Management
 - Rate Management
 - Subscriber Management
 - Subscription Management
 - Reporting
- **Multiple Currencies**
 - Manage customer balances, subscription charges, rated service charges in multiple currencies.
- **Taxation**
 - Payment based taxes
 - Unlimited payment taxes supported
 - Tax exemptions record for individual subscribers
 - Usage based taxes
 - Tax deduction on subscription charges
 - Tax deduction on rated service charges
 - Charge head based flexible taxation policy
 - Allowing tax exemption on some services
 - Interface for Charging and other engines to pull taxation rates
- **Operational Support**
 - Monitoring
 - Bulk Operations
 - Flexible Transactional API
 - Work Flows
 - Reporting
 - Text files based activity feeds