ORACLE COMMUNICATIONS NETWORK CHARGING AND CONTROL

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The prepaid market for consumer mobile broadband and Intelligent Network (IN) voice services continues to grow. Communications service providers spend as much as two-thirds of their budgets just maintaining existing charging infrastructures, rather than investing in innovation. Operational expenditure is escalating as multiple silos are fast approaching the system capacity breaking point supporting the continued growth in mobile broadband. This silo complexity results in missed revenue opportunities and slow delivery of even basic offerings with undesirable customer experiences leading to poor loyalty and reduced brand affinity. These service providers require contemporary, open solutions that allow them to innovate and rapidly introduce new, increasingly intelligent offers for prepaid mobile broadband and voice services.

"ASPIDER-NGI builds, supports and operates innovative MVNO and IoT platforms for Operator, Manufacturer and Enterprise sectors. We use Oracle Communications Network Charging and Control as part of our MVNE infrastructure allowing our clients to quickly deploy new mobile data and intelligent network services. Our clients demand the controls to deliver competitive offerings to specific customer segments and to support their own IoT business models. This release provides us the agility to accelerate our pace of innovation with an online charging platform that supports the latest 3GPP technologies."

DAVID TRAYNOR
CMO
ASPIDER-NGI

Agile Online Charging for Mobile Brands

Oracle Communications Network Charging and Control (NCC) is an agile online charging system for high growth, prepaid-focused consumer mobile markets enabling service providers to cost effectively monetize their brand with interactive mobile offers and innovate with rapid service design. It provides next generation session control and online charging, enabling communications service providers (CSPs) to efficiently drive innovation and revenue growth within consumer focused retail and mobile virtual network operator (MVNO) wholesale business models. It offers advanced mobile broadband and IN monetization, intuitive graphical service logic design and complete prepaid business management in a single solution. Reflecting two decades of online charging experience, Oracle Communications Network Charging and Control is being used by multiple CSPs in a variety of markets and geographies with proven scalability and performance.
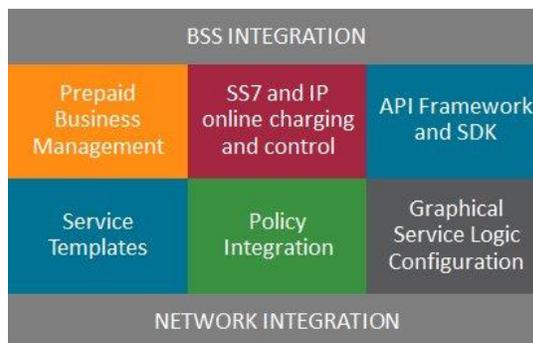
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Figure 1. Oracle Communications Network Charging and Control
Provides next generation session control and online charging so that CSPs can efficiently drive revenue growth

KEY BUSINESS BENEFITS

- Efficiently drive innovation and revenue growth
- Monetize your brand with interactive mobile offers
- Efficient multi-play solution designed for mobile broadband growth
- Fast delivery of revenue generating campaigns
- Design targeted campaigns that strengthen customer loyalty
- Cost effectively deploy and operate

KEY FEATURES

- SS7 & Network agnostic platform
- Agile online charging for mobile voice, messaging, data and IoT
- Integrated number routing and IN services
- User context aware charging and control
- MVNE and MVNO support
- Drag and drop service configuration
- 3GPP advanced data charging and policy integration (Diameter Gy and Sy)
- Complete and secure voucher lifecycle management
- Off-the-shelf service templates
- Extensible subscriber data model
- Recharge and promotion management
- Open SOAP-based framework
- Software development kit
- Support for Oracle Linux and Solaris

RELATED PRODUCTS

- Oracle Communications Policy Manager
- Oracle Communications Billing and Revenue Management
- Oracle Monetization Cloud

Oracle Communications Network Charging and Control provides cutting-edge SS7 and IP network control and online charging for multi-play services with complete support for prepaid, online postpaid and IoT business models.

In addition, NCC also provides integrated:

- Originating and terminating number routing services such as number portability, electronic number mapping, virtual private networking, least cost routing, service numbers and carrier preselect.
- Message processing and routing capabilities at both the network and service layers such as SMS Anti-Fraud and interoperability between SMS, IM and e-mail.

Efficient Solution Designed for Mobile Broadband Growth

With a single platform approach for online charging, network control, number routing and message processing across all services, networks and payment types, Oracle Communications Network Charging and Control is designed to lower the cost of delivering innovative services while maximizing revenue through the elimination of high cost siloed operations. The solution is inherently multi-tenanted and also widely adopted by various Mobile Virtual Network Enablers (MVNEs) delivering segmented services and second brands from a single architecture. The highly efficient and carrier grade platform is engineered to optimally work on Oracle x86 servers running Oracle Linux, providing extreme performance with minimal hardware footprint to deliver exceptionally low total cost of ownership. The productized platform also provides horizontal and vertical scalability, full geographical redundancy, disaster recovery and provides fast access to new features using business aware upgrades.

Oracle Communications Network Charging and Control aligns with 3GPP Release 14 Policy and Charging Control (PCC) standards, including Diameter Gy data services charging, and supports comprehensive SS7 Service Control (CAP, INAP, and MAP) for IN services. In addition, it supports integration with Policy and Charging Rules Function (PCRF) deployments, including Oracle Communications Policy Management, via the Diameter Sy interface. Such integration provides support for a wide range of value added scenarios from on-demand bandwidth purchases for video or data intensive services to fair usage policies that gracefully reduce mobile bandwidth as threshold quotas are met to ensure an optimal customer experience.

Fast Delivery of Revenue Generating Campaigns

The importance of time to market is driven by customer demand for innovative services in order to remain competitive. Oracle Communications Network Charging and Control allows unrivalled flexibility to independently create powerful and consumer focused services without vendor intervention or custom coding. Easy to use tools foster competitive advantage by dramatically reducing service time to market, such as the ability to rapidly extend the subscriber data model and to create new services. The control plan editor, as shown in Figure 2, provides a service configuration environment with a graphical and workflow-based representation of all service and charging control logic. Using "drag and drop" configuration of production ready building blocks, the underlying complexities of the logic being executed disappear, allowing internal personnel to rapidly create, validate, modify and maintain innovative services with streamlined and intuitive service creation attributes.

Figure 2. The control plan editor provides intuitive service configuration

The open and extendable platform provides a SOAP-based framework to leverage an external ecosystem enabling new and exciting services to be delivered. Using the Software Development Kit, the productized platform can rapidly be enhanced and extended allowing CSPs control of their unique business evolution while ensuring performance, scalability, productized upgrades and network grade support are not compromised.

Real-time Promotions That Strengthen Customer Loyalty

By successfully capturing two decades of worldwide real-time network experience, a library of production ready service templates have been created that can be deployed with greatly reduced time to market. Service templates include community manager, calling card, home zone, service bundles, and credit transfer.

Sophisticated voucher management capabilities allow the creation of personalized recharge programs that shape subscriber behavior and stimulate usage with any combination of personalized features such as product type swap rules, redemption of multiple balances and user selected scenarios. Advanced self-care options, personalized subscriber spend control, and real-time delivery of usage notifications that are relevant and timely further enhance customer satisfaction, counteract bill shock and

minimize customer service calls.

Oracle Communications Network Charging and Control also provides a promotion campaign tool which allows CSPs to quickly respond and lead the market with real-time promotions that attract targeted customer segments without financial exposure. It provides a rich set of features to build and deploy new campaigns in under a day using six simple steps, enabling targeted and relevant promotions to be deployed to combat churn, build loyalty, provide brand differentiation, or up sell new services.

Low Total Cost of Ownership

Communications Consulting is a team of highly skilled domain and product experts, who have a long heritage of implementing, integrating and optimizing Oracle solutions. Oracle's Advanced Customer Support Service provides tailored mission critical support and work to industry response, restore and resolve Service Level Agreements to achieve network grade availability, maximum performance and complete lifecycle of personalized services across the entire Oracle software and hardware stack. Oracle is the only company that provides every aspect of the service and technology stack to drastically reduce total cost of ownership including software, hardware, storage, database, solution delivery and network grade support.

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CONTACT US

For more information about Oracle Communications Network Charging and Control, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

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Integrated Cloud Applications & Platform Services

Oracle is committed to developing practices and products that help protect the environment