

ORACLE COMMUNICATIONS NETWORK CHARGING & CONTROL SOFTWARE DEVELOPMENT KIT

KEY FEATURES

- Software Development Kit enables OCNCC to be enhanced & extended
- New feature development without vendor bespoke coding
- Custom plug-ins are built outside of the core OCNCC product using standardized development practices

KEY BENEFITS

- Customer control of their unique business evolution
- Rapid time to market for new features
- Business agility whilst preserving core product performance, scale, upgradeability & low OPEX delivery

Today's Communication Service Providers (CSP) must launch innovative and attractive services quickly and cost effectively to retain and grow margins and protect their brand value. Evolving market or CSP specific business requirements may not always be supported by the core product capabilities. Requesting changes or bespoke coding to closed platforms is both costly and time consuming and consequently leads to significant rises in Operating Expenditure (OPEX). To rapidly & cost-effectively meet custom business requirements, CSPs must deploy open products that can be enhanced and extended in a controlled environment to ensure that the core product remains untouched thereby maintaining upgradeability and full product support. The Software Development Kit provides exactly that confidence.

Customer Control of their Unique Business Evolution

Oracle Communications Network Charging & Control (OCNCC) provides cutting edge charging control across all types of wireless and wire line networks, supporting multi-media voice, video, messaging and data content services, supporting both retail & wholesale opportunities. It provides extreme business flexibility empowering CSPs to independently create & modify innovative services using an open platform.

For any unique CSP business requirement not supported by the core product functionality, the Software Development Kit can be used to exploit the product based openness of the OCNCC platform which can be enhanced & extended allowing customer control of their unique business evolution. Working closely with Oracle Communications Consulting (OCC) or a selected SDK developer, customers can rapidly deliver unique business requirements allowing unrivalled business agility.

Rapid Time to Market for New features

The SDK enables CSPs to add unique and additional features to their customer facing offerings through the creation of plug-ins to extend the core product functionality. This removes the need for our customers to wait for a feature to be available in a subsequent release, refer back to product development or to place a change request against the core product code – all severely affecting the CSPs business agility and ability to maximize revenue opportunities. SDK plug-ins can be created to rapidly deliver CSP specific business requirement and deliver market uniqueness.

Business Agility Whilst Preserving Core Product Performance, Scale, Upgradeability & Low OPEX Delivery

SDK plug-in development is handled completely independently of the core OCNCC product & built using standardized & controlled development processes. Using this approach, performance, scale & future-proof product upgrades are not compromised ensuring a low OPEX delivery while additionally not affecting network grade service support.

Functional Areas for SDK Development

The SDK can be used to meet specific customer requirements in three main functional areas: service management, network integration & service logic. This enables service logic unique to the CSP to be deployed and specialist integration of OCNCC with other elements in the CSPs eco system. Within each functional area, the SDK can be used to develop many different types of plug-ins in order to meet customer specific service logic requirements. A summary of the major SDK plug-ins that can be developed can be seen in Figure 2.

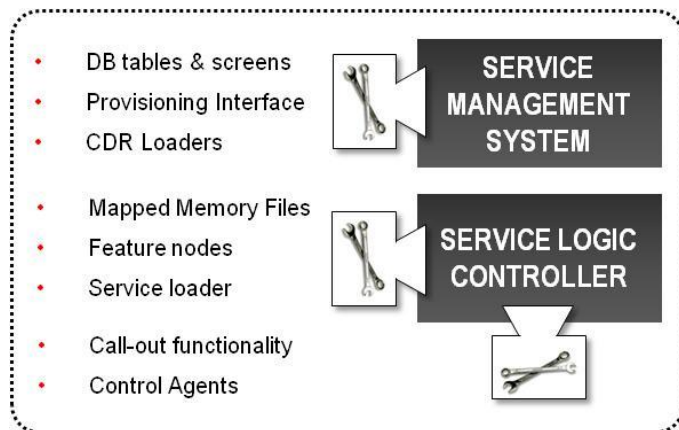


Figure 1. Summary of major SDK plug-ins that can be developed

Service Management

The SDK provides the ability to develop extensions & additions to database tables to optimally support the creation of customer specific datasets. This allows specific tailored services to be developed based upon the information within the tables. Further, bespoke Provisioning Interfaces can be developed allowing external systems to provision data into new database tables.

Network Integration

New control agents can be built allowing OCNCC to connect & take advantage of network protocols and specific interface characteristics. In addition, external triggering can also be developed so that OCNCC can query an external network element using a protocol currently unsupported by the product. By developing such interfaces, it is possible to integrate Service Logic Controllers (SLCs) with specialist network elements which allow existing infrastructure investment to be uniquely leveraged by OCNCC.

Service Logic

At the beginning of every new service, a service loader is used to set up the data and logic required to run the call based upon parameters within the Initial Detection Point (IDP). A service loader plug-in can be developed using the SDK to allow information contained within the IDP to be manipulated to setup profile buffers and load a control plan according to the customer's own specific business rules or database table extensions. A Mapped Memory Files (MFile) plug-in can also be developed to cache these tables & consequently allow rapid custom data retrieval through the runtime service flow without jeopardizing performance or latency of ONCC.

And finally, the SDK also provides the ability to develop new Feature Nodes combining specific customer centric service logic with Control Plan Editor flexibility such as the ability to retrieve information from a specific table or perform specific processing functionality currently not satisfied by one of the 200+ feature nodes already available.

Contents of the Software Development Kit

The SDK provides a complete set of tools to allow a SDK developer to build plug-ins to extend the OCNCC core product functionality. An overview of the contents of the SDK can be seen in Figure 2. The SDK includes guides which detail how to develop SDK plug-ins and how to setup a build environment. In addition to these guides, the SDK also provides a starting point for plug-in development with sample programs, header and make files & libraries that must be linked in order to allow certain tasks to be performed.



Figure 2: Contents of the Software Development Kit

Summary

The Software Development Kit can be used to exploit the product based openness of the OCNCC platform which can be enhanced & extended allowing customer control of their unique business evolution. Features not supported by the core product can be developed and implemented as plug-ins without vendor bespoke coding allowing rapid time to market for delivering unique CSP business requirements. Custom plug-ins are built outside of the core OCNCC product using standardized development practices providing complete business agility whilst preserving core product continuity: performance, scale & future-proof product upgrades are not compromised ensuring a low OPEX delivery which does not affect network grade service support.

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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