Oracle Concept-to-Cash Solutions
Rapid Service Design & Order Delivery

Introduction to the solution and its Reference Implementation

Oracle Communications
OSS Product Management
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Safe Harbor Statement

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Rapid Service Design & Order Delivery

Solution Overview
Challenges of Today’s Service Providers
Dynamic portfolios, many-to-many. Complexity is the limiting factor.

- More of everything
- More diverse
- More frequently changing
- Disappearing silos: many-to-many
- Overwhelming number of combinations
Rapid Service Design & Order Delivery

Distinctive concepts and features

• Approaches
  – Ways of thinking about variability, regularity, reuse and separation of concerns that allow you to manage complexity

• Architecture
  – Functional blueprint, information model, and behavior patterns are designed for flexibility, transparency and localization of impact

• Process
  – Concept-to-market approach leverages the architecture to enable efficient and predictable cycles
Rapid Order Delivery Blueprint
Structured for maximum flexibility
Rapid Service Design

Efficient Concept-to-Market projects

Technical Community

Commercial-only changes: no OSS project required

Minor projects have localized impact
Upgrade network element, additional vendor for familiar equipment, reshuffle activation systems

Small projects with well-bounded scope
New variant of familiar technology, e.g. ADSL+VDSL, GPON+BPON

Predictable and well-patterned projects, with transparent impact
New line of service, e.g. Introduce TV, VPN

Why is it Rapid?

Information Model & Best Practices
• Product-Service decoupling
• Technical & Vendor decoupling
• Hourglass scaling
• Object orientation
• Vendor-agnostic entity modeling
• SOM & TOM Fulfillment patterns
• Declarative design policies

Architectural Blueprint
• Entity-agnostic functions
• Standard order formats
• Configurable SOM/TOM topologies
Understanding RSDOD
Solution approach + COTS software products + standard configuration

• This solution is a response Oracle’s view of the service fulfillment challenge. It comprises everything that needs to work together to solve the problem.

1. Solution Approach
• OSS application architecture
• Information meta-model
• Standard use cases
• Concept-to-Market methodology

2. Reference Implementation
• Illustration of the solution approach using real software, configured and integrated according to the RSDOD architecture
• Domain catalogs built using RSDOD’s Concept-to-Market methodology, and its information meta-model

RSDOD Configuration of Oracle OSS Suite

Best practices and guidelines

Illustrative data sets

Standardized pre-configuration

Commercially licensed off-the-shelf software products

OSM
OSM
ASAP
Oracle OSS Suite
RSDOD Reference Implementation

Introduction
Installing the RSDOD RI

Procedure overview

• Acquire the installers

• Acquire all the install media and collect it in the staging folders as specified by the Software Source Locations

• For RI runtime (server-side)
  – Plan the installation and prepare the installation environment
  – Install and configure the installer
  – Run the installer

• Do the same for RI design time (desktop)

Start
• Unix server system without OSS Suite
• Prerequisites and topology options as specified

End
• A WebLogic Admin server and repository database
• Managed servers for ASAP, OSM and UIM
• Intra-suite messaging infrastructure, system emulators
• Deployed configuration of OSS apps for RSDOD
• Deployed sample catalogs for selected domains
• Ready to process sample orders

Start
• Windows desktop system without Design Studio
• Prerequisites as specified

End
• Design Studio on Eclipse
• SDKs for OSM and UIM
• Required Oracle and 3rd party development tools
• Selected sample catalogs ready to be explored & tailored
RSDOD RI Design Time Environment

IDE with pre-installed domain catalogs, leveraging common infrastructure

- Design Studio with application plug-ins and development tools
- Workspaces pre-populated with projects that configure OSM, UIM and ASAP according to the RSDOD blueprint
- Illustrative domain-specific data sets built using the Rapid Service Design methodology – structured for rapid change

Domain catalogs and other material sourced from OTN are provided free of charge, as-is without Oracle product support commitment.
Installing the Design Time Environment

Using the automated installer

• Prerequisites
  – Windows 7, 8Gb RAM
  – Ant, JDK installed
  – Installation media in place

• Installer Options
  – Install any or all of Smoke Test, Broadband, Mobile catalogs in a single OSS Workspace

• Installation should take about 30 minutes once media is collected
RSDOD RI Runtime Environment

Pre-configured Service Order processing system, with sample orders

- ASAP, OSM and UIM servers, with messaging infrastructure and adjunct system emulators
- Pre-configured with RSDOD-standard domain-agnostic configuration for each application
- For each sample service domain:
  - Pre-deployed application-specific catalog data sets
  - Pre-loaded inventory of ready resource instances
  - Library of sample service orders
- Order submission test harness

The default installation is “PoC ready”, not performance-tuned or secure for production use.
Installing the Runtime Environment

Using the unattended installer

• Prerequisites
  – 64-bit Linux hosts, 16 GB RAM
  – Installation media in place

• Installed
  – OSM, UIM, ASAP, WLS, Oracle DB 11g on a single host
  – Optional distribution of applications across multiple servers, WLS clustering, use of previously installed DB

• Installation should take about 2 hours once media is collected
Beyond the Reference Implementation

Understood and evaluated, now what?

• Systems Integrator Sales & Pre-Sales teams
  – Integrate RI into standard demo kit
  – Use as basis for customer-specific proofs-of-concept

• Ongoing Education
  – Integrate RI into courseware, use to build exercises

• Production Deployment
  – License necessary product components
  – Work with Oracle and SI to design and set up a server environment suitable for large-scale production
  – Clone/own-modify/extend domain catalogs using Rapid Service Design Methodology
  – Integrate 3rd party systems

Questions or issues with the Reference Implementation?
  • Communications Service Delivery community space on OTN
  • Oracle Consulting for architectural expertise in production deployments
  • My Oracle Support for issues with product components