

Oracle Communications ASAP

The growth in network connectivity from the volume rollout of **new 4G / 5G customer services and sensor-enabled IoT devices** is highlighting the importance for services providers to be able to **rapidly and efficiently activate services for end customers, enterprises and industrial devices at extreme scale and with very low latencies.**

Automated Service Activation

Oracle Communications ASAP provides a convergent service activation platform that automatically activates services for end customers, enterprises and industrial devices in a heterogeneous, multi-vendor network and IT environment. It supports the activation of consumer and business services in fixed and mobile domains against network and IT applications at the highest level of abstraction provided by the respective network domains (controllers, orchestrators, NMS / EMS / NE). ASAP enables rapid service design and network technology introduction by means of its metadata-driven architecture, design-time configuration environment, and catalog of pre-built activation cartridges to reduce deployment time, cost, and risk. The application has been deployed for mobile (4G / 5G) services, fixed multi-play (broadband, voice, video, and IT) services and sensor-enabled IoT services in communications service providers, cable providers and large enterprise environments.

It may be deployed in a fully integrated manner as part of the Oracle Communications Service and Network Orchestration (SNO) solution or directly integrated with third-party upstream systems. Market-proven for high-volume performance and scalability, Oracle Communications ASAP is deployed by more than 75 service providers worldwide and activates services for approximately 300 million subscribers and devices globally.

ASAP Context within Service and Network Orchestration

ASAP is generally deployed as the service activation component within the SNO solution architecture and receives fully assigned activation orders from the Oracle Communications Order & Service Management (OSM) component that manages the lifecycle of the service order.

Rapid activation design – as a highly configurable, metadata driven application, ASAP may be configured using Design Studio to develop, assemble, configure and

Key Business Benefits

- Rapidly design and deploy new service activation capabilities against new or updated network interfaces
- Automate service activation across multiple domains and vendors
- Scalable and low latency service activation to support on-demand services and unassisted channels
- Leverage pre-built activation support for faster design and deployment
- Minimize errors through automation and flexible error processing
- Reduce costs with a single converged solution and skill set
- Eliminate network equipment vendor lock-in with a proven multi-vendor solution

deploy the activation solution – leveraging pre-built cartridges to support activation of the target services and network technologies.

Automated service activation – ASAP provides a high-performance service activation platform that receives incoming activation orders, decomposes them from activation bundles to service actions and atomic network actions. It then executes the network actions against the network and IT applications required to automatically activate all services on the received order. It also coordinates the activation between potentially multiple related orders.

ASAP Capabilities

ASAP provides some notable product capabilities honed from customer deployment experience that help deliver an optimal service activation solution.

Design Studio for ASAP – Single, integrated design time tool used by partners, customers, and Oracle developers / consultants to dramatically simplify service design to enable the rapid assembly and deployment of both new and redesigned cartridges, services, and activation bundles. The metadata driven architecture of ASAP, combined with the ease of cartridge / solution design, test and deployment provided by Design Studio, enables ASAP to rapidly support:

- New service domains such as 4G / 5G, IoT, FTTx, IPTV, Digital Apps, etc.
- New vendors within a service domain such as a new vendor UDR in a 5G network
- New versions of vendor equipment with enhanced functions

This capability together with the layered architecture of ASAP allows service providers to abstract and insulate their network changes from upstream service order management and inventory processes by technically decoupling the different layers and thereby supporting operational agility.

Comprehensive Activation Control – ASAP provides full support for:

- Immediate / future dated scheduling of both individual and batch orders
- Order prioritization and related, supplemental and cancellation orders
- Full transaction management of the order including flexible, configurable rollback
- Dynamic transaction routing based on internal or external rules and tables
- Flexible error processing including point of no return, jeopardy and fallout management

Sophisticated Session and Connection Management – In addition to activation service design and cartridge development, Design Studio for ASAP also enables highly configurable control of network connectivity to maximize throughput, including:

- Dynamic connection management to maximize throughput based on load
- Flexible parallel and serial processing of activation requests to target elements

Key Features

- Simplified service design enables rapid solution assembly and deployment
- Intuitive tooling to support rapid development and testing of activation cartridges
- Comprehensive transactional control of activation request processing
- Sophisticated session and network connection management with high configurability
- Carrier-grade performance, scalability, and availability
- Decouples network topology evolution from upstream OSS and BSS systems for operational flexibility

- Blackout and maintenance mode support and transaction re-transmission for ease of operations

Carrier-Grade Performance, Scalability and Availability – ASAP provides a highly scalable, available and reliable platform proven in many large service provider deployments. In benchmarks, it has been demonstrated and documented that a single suitably configured ASAP instance, co-resident with the Oracle Database server on a single server, is able to support approximately 150 million mobile subscribers (with throughput of more than 2,100 independent network updates per second with sub-second latency). This provides service providers the confidence to seamlessly scale a single ASAP instance for simplified operations..

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