Subscriber Data Management Solutions

Oracle Communications Subscriber Data Manager and Subscriber Data Management family of products provides next-generation solutions for multiprofile, evolved subscriber data management (SDM) in mobile, Voice over IP (VoIP), fixed mobile convergence (FMC), and machine-to-machine (M2M) networks, and for the delivery of value-added services.

Overview

Powered by Oracle Communications LTE Home Subscriber Server, this family of subscriber data management products and solutions showcases how LTE service providers can efficiently manage subscribers’ expectations.

The Oracle Communications Subscriber Data Manager and Subscriber Data Management family of products have been created to help service providers manage subscriber identities while evolving toward a multidomain, multiaccess, multidevice, and multidimensional world.

Market drivers including nontraditional competitors (such as Skype and Apple), the proliferation of smartphones and tablets, the deployment of all–Internet Protocol networks, and subscriber service personalization, are forcing operators to rethink how to manage subscriber-level data. Moreover, today’s service offerings require subscribers to maintain many settings and profiles per service and access type, which leads to service confusion, reduced service adoption, and reduced revenues.

Even though operators may want to evolve their subscriber data, existing subscriber database infrastructure is siloed by network, application, service, or geography, making the evolution path nontrivial. Furthermore, as operators delay the transition to evolved subscriber data management, network complexity increases with each new service silo introduced, exacerbating the issue. Management of subscriber data and management of multiple subscriber identities are top issues among operators.

Solution Description

Oracle Communications Subscriber Data Manager and SDM family of solutions comprise three critical components: Oracle Communications LTE Home Subscriber Server (HSS), Oracle Communications Home Location Register (HLR) and Oracle Communications Subscriber Profile Repository (SPR).

Oracle Communications LTE Home Subscriber Server (HSS)

LTE Home Subscriber Server enables operators to seamlessly share and consolidate real-time subscriber information, such as subscriber context and location, across all access domains. It is the only subscriber data management solution to host a user data repository and subscriber profile repository in a consolidated data store, and is the first to be part of the One Voice Initiative.
The Oracle Communications LTE Home Subscriber Server uniquely features HLR-Proxy Mode, which smoothly integrates with existing HLR infrastructure, while enabling scaled, modular growth of service providers’ LTE networks. HLR-Proxy Mode relays messages between the HSS and the service provider’s existing HLR networks, enabling centralized authentication across all access domains and 3G-LTE mobility without forklifting the existing HLR.

Furthermore, Oracle Communications LTE Home Subscriber Server leverages advanced features such as multi–International Mobile Subscriber Identity (IMSI) and multi–Mobile Subscriber Integrated Services Digital Network (MSISDN) capabilities, while continuing to be compliant with the latest Third Generation Partnership Project (3GPP) specifications. To address the multifaceted demands of the LTE network, Oracle Communications LTE Home Subscriber Server provides an LTE packet core-in-a-box by hosting the HLR-Proxy Mode, Oracle Communications Home Location Register, and the subscriber profile repository for policy management—in a single software and hardware solution.

Oracle Communications Home Location Register
Oracle Communications Home Location Register serves as the mission-critical register for subscriber profile management in Global System for Mobile Communication (GSM) / General Packet Radio Service (GPRS), Universal Mobile Telecommunications System (UMTS), and Long Term Evolution (LTE) networks. Thanks to its multiprofile subscriber database and dynamic association engine, the HLR is capable of supporting multiple GSM, UMTS, and LTE identities and mobile phone numbers for any given subscription.

Oracle Communications Subscriber Profile Repository
Oracle Communications Subscriber Profile Repository is the industry’s most flexible and scalable distributed subscriber database for telecom operators. Oracle Communications Subscriber Profile Repository improves time to market for new services across any access network, reduces operational costs and the complexity of managing subscriber data in silos, and enables the subscriber-centric personalized experience.

CONTACT US
For more information on Oracle Communications Subscriber Data Management solutions, visit oracle.com.