

Overview

MetaSphere™ Service Delivery Platform (SDP), from MetaSwitch, is a standards-compliant framework for creating and modifying network subscriber communication services.

Comprising robust modular software elements and off-the-shelf hardware platforms, SDP enables easy assembly and deployment of new commercial grade services. This network-agnostic platform can be deployed in support of VoIP, PSTN and mobile applications.

Fully integrated with an extensive suite of pre-existing MetaSphere applications, SDP enables new revenue streams for Service Providers deploying our Class 4/5 softswitch platform.

Enhance and Create Services

With MetaSphere SDP in place, new applications and feature enhancements can be easily assembled and then quickly combined to create all new services.

SDP organizes common code for call control and media processing functions into pre-integrated libraries. These libraries are then reused across countless applications, ensuring that the subscriber experience retains consistency and performance.

Accelerate Time to Market

Service Providers utilizing SDP to enhance and create new services are freed from traditional sunk cost concerns and time-to-market constraints. As a result, they can afford to innovate, modify and even experiment outright, responding to subscribers as never before.

The new service creation process can be managed and run as a complete turnkey solution by MetaSwitch, jointly between the Service Provider and MetaSwitch or its systems integrator partners, or within Service Provider IT organizations.

Deployed commercially by numerous tier-one carriers, the MetaSphere SDP offers unprecedented flexibility.



MetaSphere SDP Elements

- SCAPE.** A graphical telephony Service Creation Environment (SCE), used to rapidly prototype and design new commercial telephony services, or make improvements and customizations to existing telephony user interfaces.
“Service Creation And Personalization Environment.”
- CommPortal.** Brand-able subscriber web interface which promotes customer self-care, service selection and personalization for both existing services and subsequent service enhancements. CommPortal, or components from it, can be easily integrated in to existing service provider web portals.
“Personalize the subscriber experience.”
- Media Server.** Integrated media processing platform utilized by all SDP-developed applications to support media functions.
“Share media resources across applications.”
- SIP Servlet Libraries.** Modular sets of pre-integrated telephony service objects, mapped to the SCAPE SCE and combined to create the service logic for all new applications and features.
“Create services without detailed knowledge of IMS SIP signaling standards.”
- Virtual HSS.** Lightweight directory stores subscriber and global configuration data locally, or at a centralized external HSS via a common API.
“Promote the sharing of (subscriber) data between different applications that run on the SDP.”



MetaSphere SDP Specifications

▶ APPLICATION DEVELOPMENT AND SERVICE CREATION

- SCAPE TUI IDE graphical editor for call flows
- No limit on number of TUI services running in parallel
- Generates standards compliant VXML (VXML 2.0)
- Integrates with your choice of Java IDE e.g. Eclipse
- GUI development to Web Services (SOAP/WSDL) API
 - Apache Axis 1.4 or gSOAP 2.7 framework
 - Apache/Tomcat J2EE server environment

▶ STANDARDS CONFORMANCE

- MetaSphere provides facilities for implementation of [RFC3261] compliant user agents, including Back-to-Back User Agents (B2BUAs)
- IMS ISC compliant
- RFCs supported include 2327, 2833, 3261, 3325, 3398, 3515, 3550, 3891, 4028, SIP-Timer, SIP-Diversion, SIP-NetAnn, SIP-Replaces
- JSR 116 SIP servlet compliant
- MultiService Forum (MSF) Release 3 architecture guidelines fully supported

▶ COMMPORTAL BASED GUI(S)

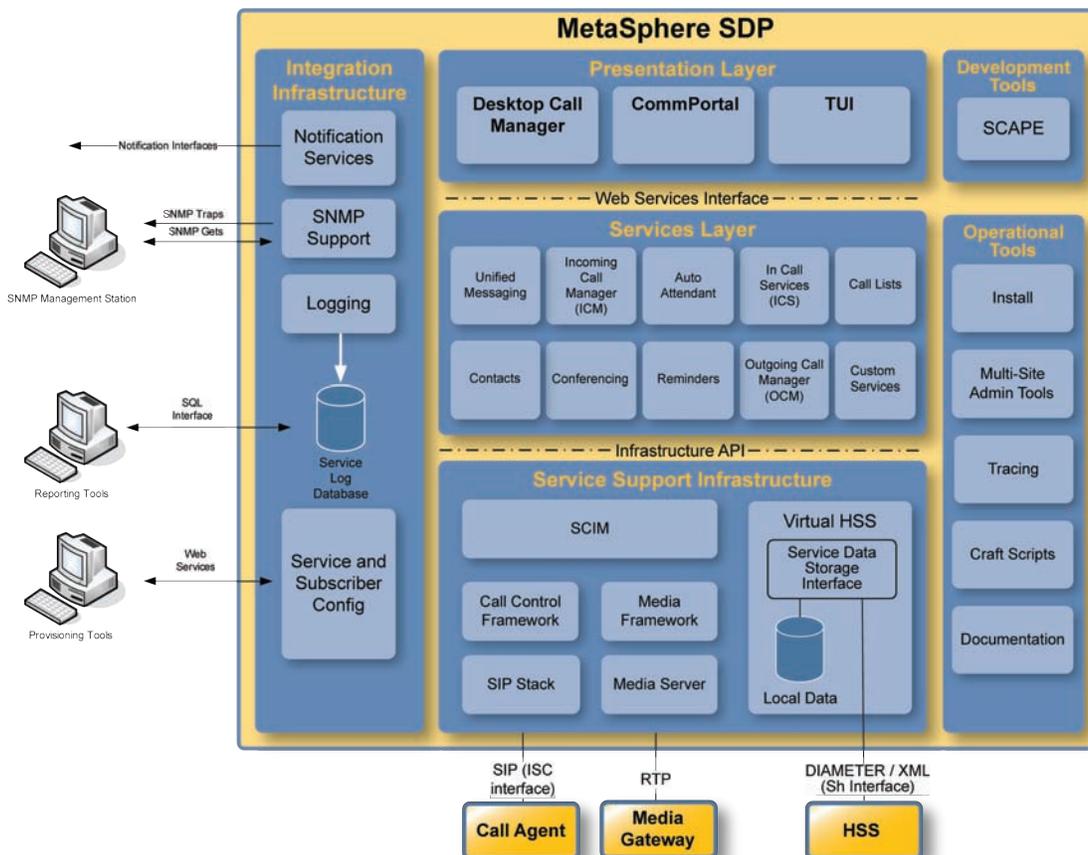
- Web browser supported: IE 6 and 7; Firefox 1.5 and 2
- JSON (JavaScript Object Notation) based interfaces for end user responsiveness
- HTTP 1.1

▶ MEDIA SERVER

- Highly efficient software-based media server or external third party Media Server
- COTS Hardware (Intel servers, NFS NAS)
- ECMA script
- Text to Speech conversion
- Audio record and playback (G.711 a-law/u-law)
- DTMF Tone Detection

▶ TECHNICAL SPECIFICATIONS

- COTS Hardware (Intel servers, NFS NAS, or array of redundant COTS servers)
- RedHat Enterprise Linux 8.0
- Linear scalability by increasing server farm size
- Fully resilient: N+1 redundancy architecture



Specifications subject to change without notice. Contact your local sales representative or go to www.metaswitch.com/specs for current feature and availability information.