

OpenEPC++ HSS



LTE, IMS and WiFi

Authentication and Authorization in LTE, IMS and WiFi networks

Lean architecture

Stateless front-ends relying for storage in a commercial standard database manageable and scalable

Scalable deployments

From minimal virtualized or bare-metal to carrier grade multi-site

Advanced Features and Functions

All interfaces and latest features from standards as well as easily customizable

Simple user data provisioning

Tools for provisioning and management are provided (Web, CLI, REST API)

SIM Provisioning tool

Provisioning SIM cards through direct toolkit

Subscriber Data

Interoperable Flexible Complete

LTE and IMS ready subscriber data

Core Network Dynamics Home Subscriber Server (HSS) manages and serves subscriber data for all IMS, LTE and Wifi network elements.

OpenEPC++ HSS supports 3GPP features up to Release 12 and has been integrated in multi-vendor deployments. It provides all necessary features for advanced use cases in LTE and IMS including VoLTE, VoWiFi and Wi-Fi offload.

Core Network Dynamics' HSS is a stateless highly scalable solution providing standard compliant interfaces and acting as a front-end for a repository or database storing subscriber data.

Data is stored in either a dedicated database or repository or even integrating with existing data storages supporting standard technologies.

OpenEPC++ HSS integrates easily with MMEs, AAAs, IMS, Application Servers and BSFs from different vendors. It has been used extensively with OpenIMSCore, the reference platform for ETSI IMS plug fests.

Configuring, integrating, provisioning and managing OpenEPC++ HSS is simple and convenient. Core Network Dynamics provides tools for SIM card provisioning using the data stored in the HSS. As with other components of OpenEPC++, the HSS is excellent meeting requirements out of the ordinary. Virtualized deployments, decentralized communications networks, off-grid deployments etc. Core Network Dynamics is an advanced technology provider continuously adding features and use cases together with its customers and partners.

Other OpenEPC++ extensions to the HSS include a Subscriber Location Function (SLF), a MAP Interworking Function (IWF) and a Diameter Routing Agent (DRA) all based in Core Network Dynamics Technology.

3GPP Interfaces Supported	
Cx	TS 29.229 v12.5
Sh	TS 29.329 v12.8
S6a, S6d, "S6-MSC"	TS 29.272 v12.7
SWx, Wx	TS 29.273 v12.7
Zh	TS 29.109 v12.1

Database / Repository Back-end	
SQL	Supported
LDAP	Supported
Custom	Supported

Management and Configuration	
Web GUI	Supported
REST API	Supported
CLI	Supported

Provisioning	
Direct to DB	Supported
Web GUI	Supported
REST API	Supported
SIM Card toolkit	For SIM Card provisioning directly with HSS data

Operating System
Ubuntu Server 14.04 LTS

Hypervisors
VMWare ESXi 5.5
KVM

Hardware
Deployable in any x86, ARM, PowerPC COTS
Small form factor network appliances to rack
Custom hardware support

Networking	
Network	IPv4, IPv6, dual-stack
Transport	SCTP, TCP
Application	Diameter

HSS
MME
SGW, ANGW
PGW

SGSN, MSC,
HNBGW, PCRF,
BBERF, CDF,
CGF, AAA,
ePDG, ANDSF

P-CSCF
I-CSCF
S-CSCF

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