iHSS

Home Subscriber Server

PertSol
Simple Solutions for Complex World

PertSol is a leading Telecom and IT solution provider for Telecom/
Internet Service Providers, Government and Law Enforcement Agencies
providing explicit offering of capabilities starting with specialized solutions,
customized software applications, professional and project management services
with dedicated cross functional agile teams.

Our solutions have been shaped by our deep domain knowledge,
built by harnessing our strength in next generation technologies across
Telecom Regulatory Compliance Management, Telecom Core Network,
Emergency Response System, Big Data Analytics & Internet of Things (IoT).
Backed by our superior delivery experience with a key focus on quality.

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9+ YEARS OF OPERATIONS	**60+** R&D EXPERTS	**25+** FUTURE READY SOLUTIONS
60+ PROJECTS DELIVERED	**65+** HAPPY CLIENTS	**23+** LOCATIONS WORLDWIDE

iHSS
Unified Subscriber Information Management Solution

PertSol's iHSS is a complete solution for managing subscriber information that contains subscriber information, device profile and state information. It has been designed to cater authentication, authorization and mobility management functions for various networks i.e. GSM, UMTS, LTE, IMS, WiFi and IoT network.
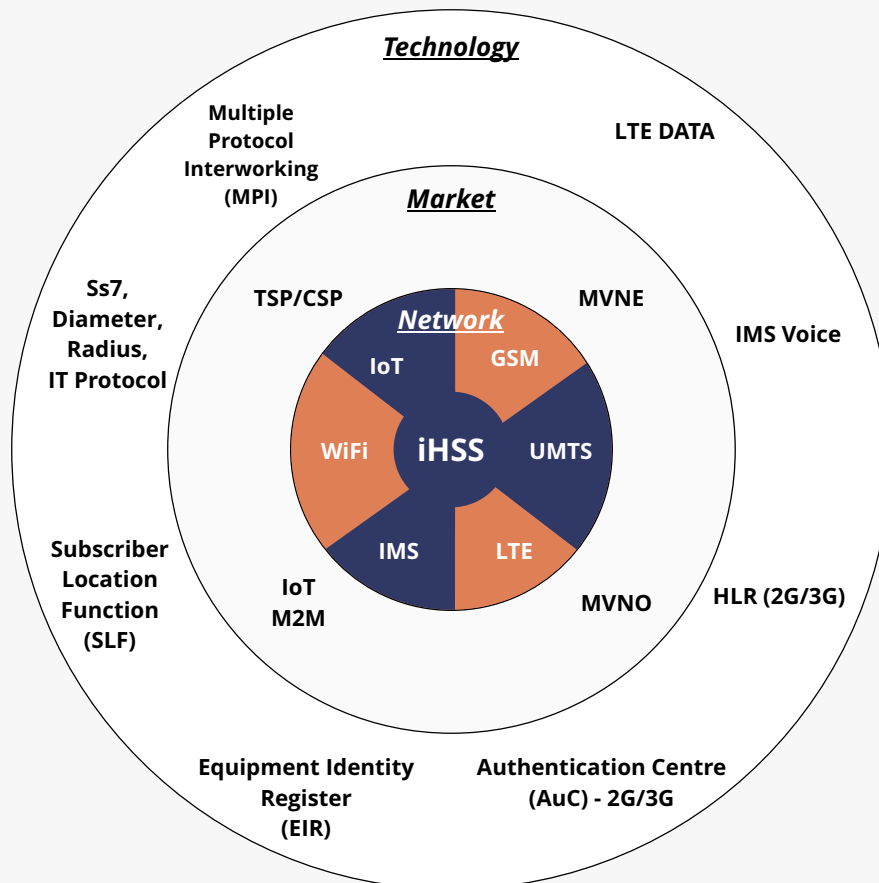
Business Drivers

✓ Manage subscribers' data and authentication across the network technologies.

✓ Provide quality along with innovative services.

✓ Support open standard & high scalability along with cloud ready virtualization.

Interworking Between Different Networks

iHSS is capable of operating between legacy, present day and future networks. It support 2G, 3G, 4G, 5G, IMS, Wi-Fi & IoT networks. It is capable of integrating with VLRs and MME implemented across GSM and LTE network of an operator.

SUPPORTED
Parameters

▌Interface

✔ Support All-IP network compatible SS7, SIGTRAN, Diameter, Radius, MAP, RESTful API, HTTP2 & IT Protocols.

✔ 2G/3G Networks: HLR—C, D, Lh, and Gr interfaces.

✔ IMS Networks: IMS—Cx, Sh, Zh, N70 & N71 interfaces for VoLTE and service authentication.

✔ 4G/LTE Networks: HSS—S6a, Slh, and S6d interface for mobility, authentication & profile management.

✔ 5G Network: Nudr, Nudm, Nhss interface for UDM and 5GD UDR. Ud interface for EPC/IMS UDR. N8, N12 & N13, Nausf, Nudm for UDM & AUSF.

✔ Wi-Fi Networks: AAA—S6b, Swx, Swa, and Swm for extending coverage

✔ Equipment Identity Register: Provides device fraud detection and authorization.

▌Standard

iHSS supports all the latest international standards like 3GPP, TISPAN and ETSI

✔ Standards: 3GPP 29.228. 29.229; 3GPP2 TSG-X X.S0013-0060 v1.0 & TISPAN; ETSI TS183 033 & 3GPP 29.272.
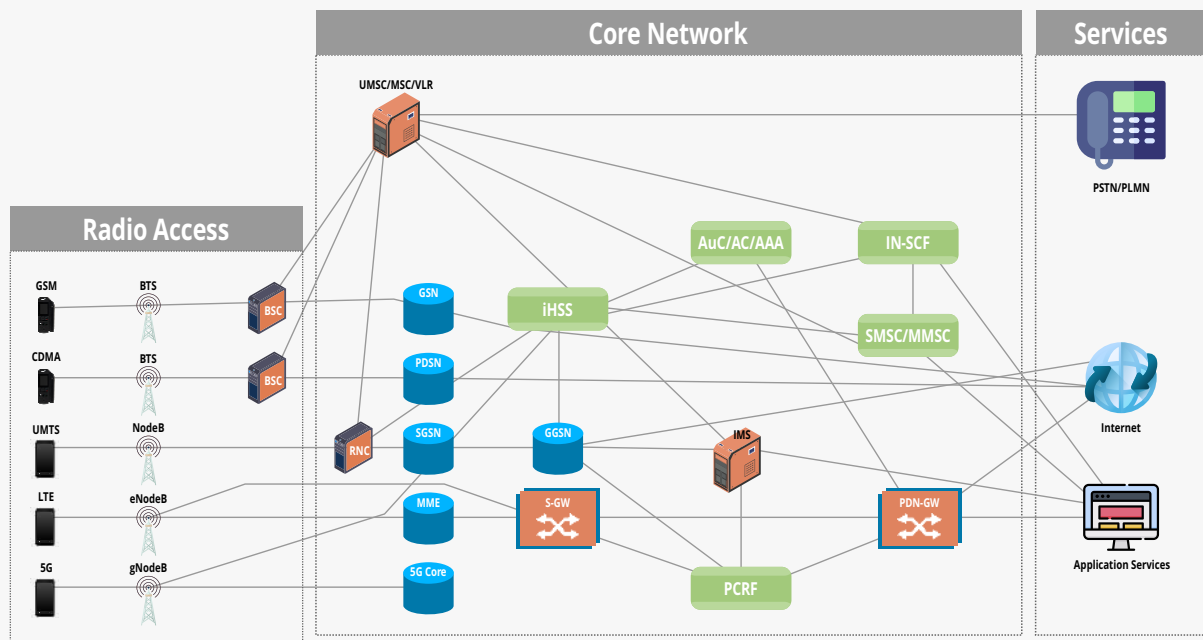
Optimized For Virtual Enviroment

Pertsol iHSS is optimized for Virtualized and heterogeneous environment, which enables subscriber data to be consolidated into a common repository using a distributed and flexible architecture.

Multiple Deployment Models

iHSS can be deployed in multiple ways as per the customer's requirement as well as existing network architecture. It can be implemented in either one or a combination of following models:

✓ Cloud (Private or Public)   ✓ Bare Metal/Appliance   ✓ Network Function Virtulization

Future Ready Solutions

iHSS is 5G ready which is compliant to 3GPP Release 15. It has been evolved to be deployed as Authentication Server Function (AUSF) and Unified Data Management (UDM) for 5G network. Being a software based solution, it comes with futuristic component to continuously adapt and support advance technologies, standards and protocols as well.

KEY FUNCTIONS

Single Solution For Multiple Functions

Authentication Server Function (AUSF) for 5G network

Home Subscriber Server (HSS) for LTE and IMS network

Home Location Register (HLR) for 2G & 3G network

Unified Data Management (UDM) for 5G network

Authentication Centre (AuC) for 2G & 3G network

Equipment Identitiy Register (EIR)

Subscriber Location Function (SLF)

KEY BENEFITS

Solutions Offering Multiple Benefits

Solution for GSM, UMTS, LTE, 5G, IMS, Wi-Fi & IoT networks

Unified solution for HSS, HLR, AuC, EIR, SLF, UDM, UDR and AUSF

Support Open Standard Interface and integration

Support 4G-5G interworking with seamless data management & operation

Highly flexible and scalable, and support business continuity & availability

Affordable and cost-effective solution for MNO & MVNO's

Functional, modular & distributed architecture, adaptable to customer needs

Unified convergence of subscriber information across access networks

Support multiple interworking protocol of SS7, Diameter, RADIUS, IT protocols

On-Premise & On-Cloud carrier grade solution supporting NFV, N+1 scalable, high available, geo-redundant

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