

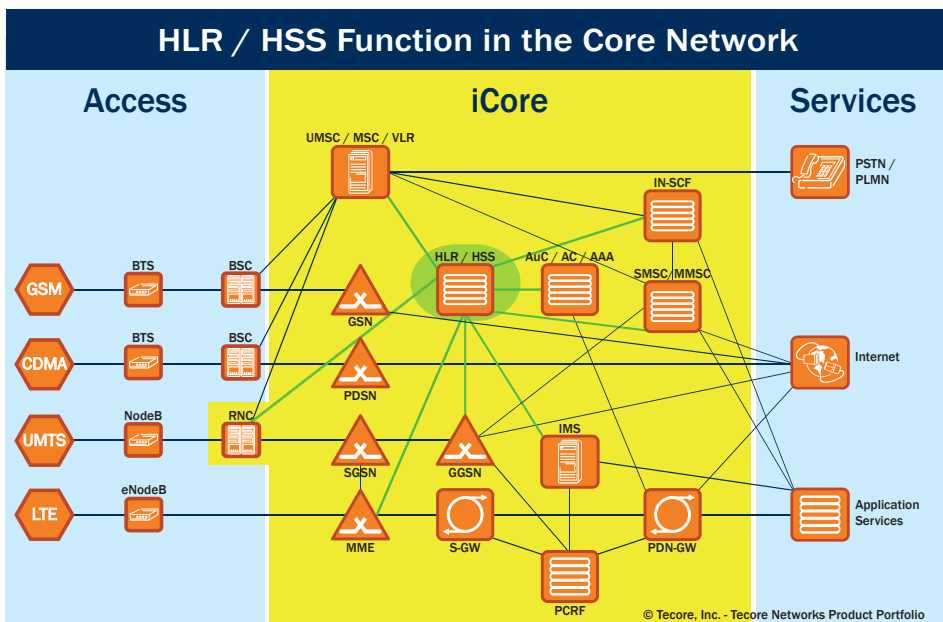
GSM / CDMA / 3G / IMS Centralized Subscriber Database



The iCore Home Location Register / Home Subscriber Server (HLR / HSS) provides a comprehensive, centralized subscriber database management solution across current and next-generation wireless technologies. With the integrated support of an HLR and Authentication Center, and leveraging the patented multi-technology architecture of the iCore Network Center, the iCore HLR / HSS supports subscribers from GSM, CDMA, 3G and SIP-based networks from a single platform.

As networks evolve from the current generation of TDM-based technology to the next generation of IP networking, the subscriber profile is the key element to convergence and support across traditionally disparate network technologies. The iCore HLR / HSS bridges the gap. The multi-technology profile structure allows users and devices to move seamlessly from one network to another, all the while experiencing a single, consistent feature set. Whether bridging: 2G (GSM, CDMA) and 3G (UMTS, EV-DO); SIP Hosting (WiMAX / WiFi); dual technologies (GSM, CDMA); or fixed-mobile convergence (FMC) across 2G, 3G and VoIP (wireline and wireless), the iCore HLR / HSS has the flexibility to accommodate the management and configuration of multiple subscribers' profiles into an IP-centric architecture.

- ### Features
- The most compact and cost-effective solution available on the market
 - Standards-driven support for GSM, CDMA, 3G and SIP networks from a common platform
 - Integrated into iCore Network Center or available as a standalone system
 - Converged IP-centric database for HLR / HSS with redundancy for HA support
 - Supports standard-based authentication and data encryption
 - OAM&P that can be accessed remotely or locally for easy user-friendly configuration and profile management
 - Network specific roaming controls
 - Multi MCC/MNC support
 - Standard interface to AAA servers
 - Plug-ins for CORBA interface for customized AS for database access and billing



Protocol Interworking

The key to multi-technology support is the ability to provide a consistent, rich feature set to subscribers from any technology type by applying and communicating the proper protocol to the serving network, regardless of type, from a single profile. This also allows access to the IMS domain and its vast array of services and features without compromising data integrity while navigating the different standards among networks. Data integrity and QoS are maintained throughout the networks to rival any industry standards. The multi-technology core of the iCore HLR / HSS incorporates Tecore's patented software-defined architecture, which applies the appropriate external connectivity based on the subscriber type, while operating internally through common application processing. The result is an industry-leading any-to-any connection model across protocol and technology.

Standalone or Integrated

The iCore HLR / HSS is not only in full compliance with 3GPP IMS for 3G, GSM and SIP subscribers, but also with 3GPP2 for CDMA subscribers. These capabilities can be supported whether it is integrated as part of the complete iCore Network Center, or whether it stands alone on its own server blade. Scalability of the HLR / HSS gives operators a wide range of different configuration models, starting from as few as fifty thousand subscribers and building into the millions. In any model, the HLR / HSS feature sets remain consistent and robust, and all network interfaces will be supported.

Services

Location Management, Fault Recovery, Authentication, Call and SMS handling

AoCI, AoCC, BAIC, BAIC-ROAM, BAOC, BOIC, BOIC-exHC
CFU, CFB, CFNRy/CFD, CFNRc/CFNA, HOLD, CW, CLIP/CNIP, CLIR/CNIR, COLP, COLR, CNAP (optional)

MPTY, CUG, ECT, ODB

GPRS

MAP version negotiation

Mobile-initiated and Network-initiated USSD Handling

AuC algorithms: GSM / UMTS MILENAGE, XOR, COMP128-1, 2, 3

CAMEL subscription: Phase 2, Phase 3, Phase 4

Roaming

- Multi-IMSI low-cost roaming
- Local & International Virtual Numbers
- Steering of Roaming (Operator-controlled PLMN selection)
- Operator-controlled IMSI selection
- Multi-Country HLR numbers, Multi-PLMN Support
- USSD Callback VLR number forwarding
- Dynamic MSISDN & IMSI Pooling
- HLR MAP Proxy Services

System Specifications

Multi-technology Signaling	GSM, CDMA, UMTS, SIP 3GPP IMS, GSM MAP V1/2/3, ANSI-41 Rev A/B/C/D, SIP, SIGTRAN, SS7 ITU and ANSI
Interfaces to Subscribers	CSCF, SIP-AS, and IN-SSF/SCF 100 - 1,000,000
Hardware Options	ATCA, CPU Blade, 1U Server, HA Server
Operating System	64-bit Linux
Protocol Stacks	SS7: MAP, TCAP, SCCP, MTP (ANSI & ITU) SIGTRAN: M3UA, SUA, SCTP SIP, TCP / UDP, IP RADIUS, DIAMETER

Hardware Options



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