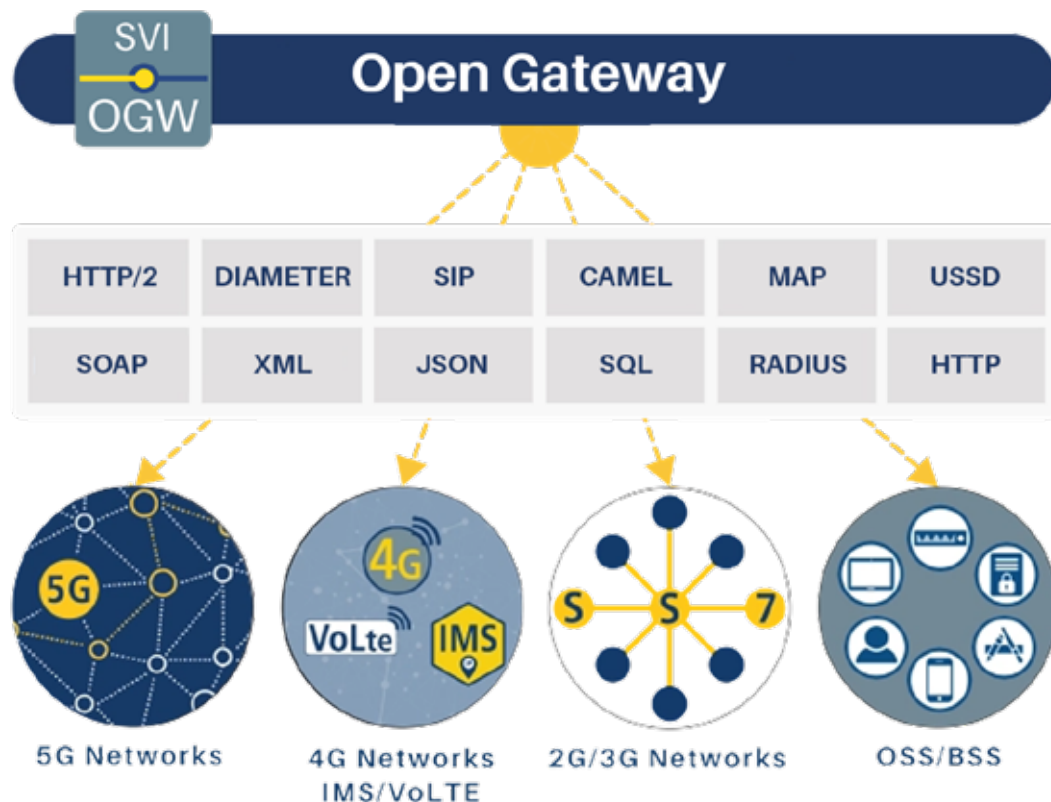




SVI-OGW | **Open Gateway**



Signalling Specialists to the Telecoms Industry



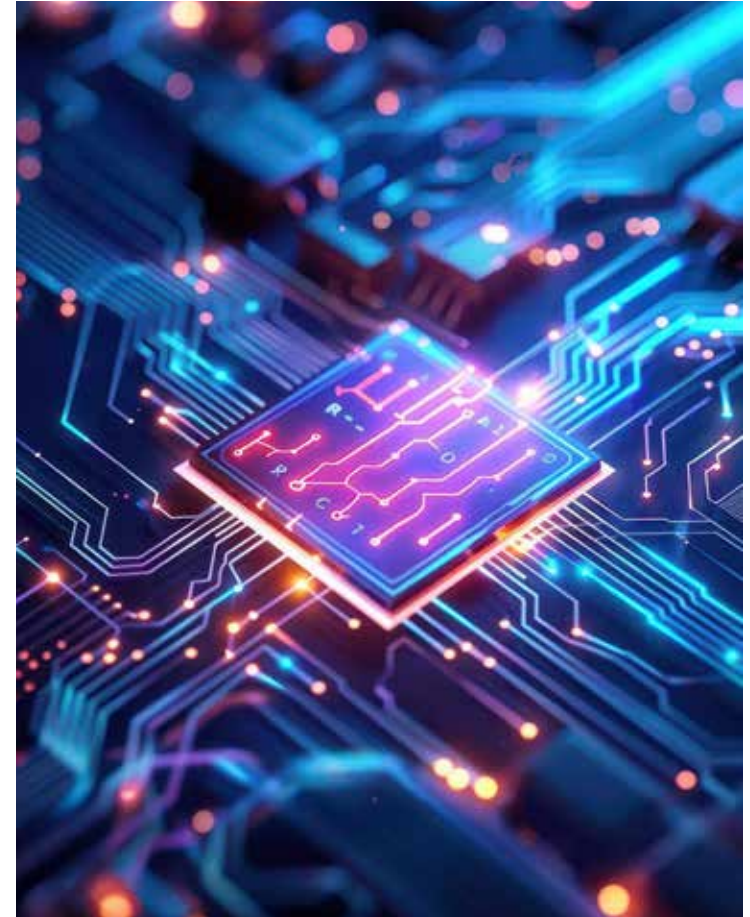
The Open Gateway (SVI-OGW) enables the rapid delivery of converged services across 5G SA, 5G NSA, VoLTE, IMS, NGN and Legacy SS7 networks.

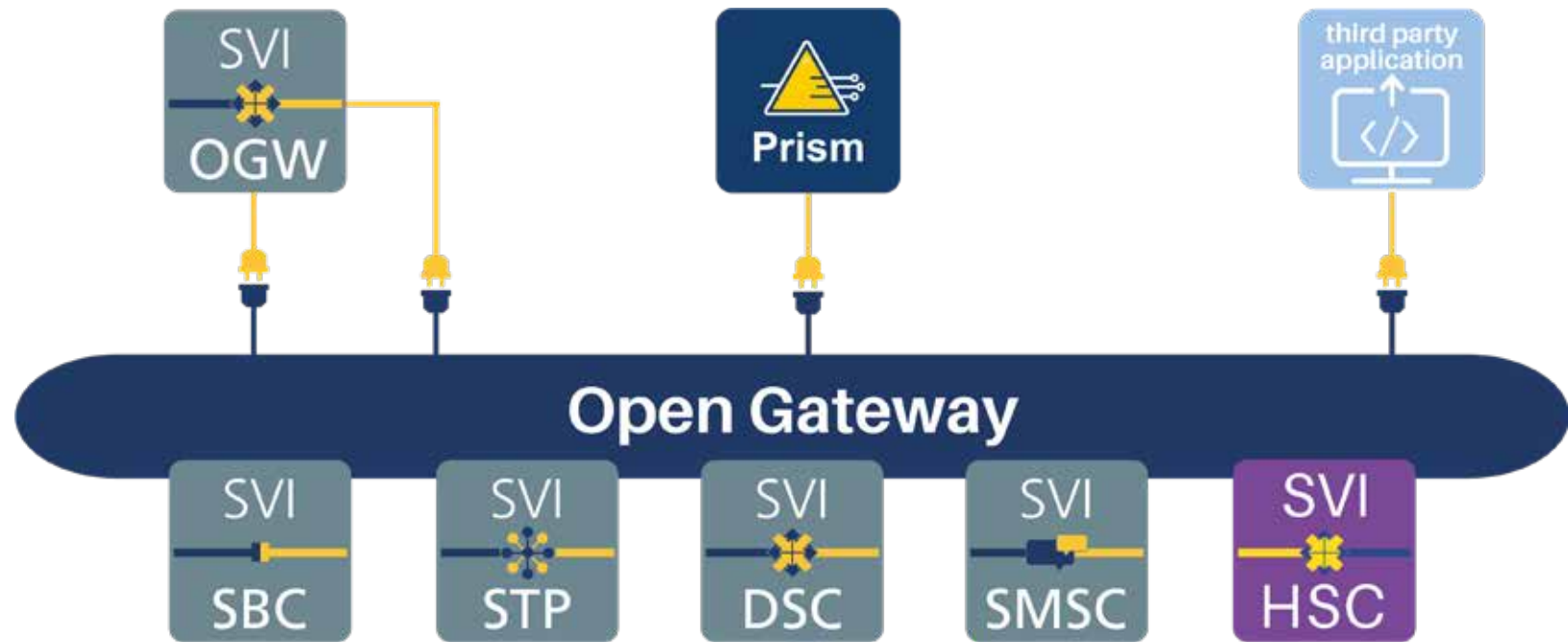
The SVI-OGW enables operators to leverage existing infrastructure, increase return on investment and rapidly deploy new services.

The SVI-OGW Open Gateway allows operators to rapidly devise, test and deploy services.

Whether you are looking to interwork HTTP/2, DIAMETER or SIP with legacy SS7 CAMEL/INAP/MAP, or you are looking to interface a new subscriber database over SQL/SOAP/HTTP into your incumbent networks the SVI-OGW provides the flexibility to achieve this.

- Leverage IMS, NGN and legacy infrastructure to deliver new and existing services.
- Mitigate against vendor equipment End-of-Life.
- Rapidly deliver custom services across disparate networks assurance options.
- Extend ROI on deployed network components.





The SVI-OGW communicates over socket based IP API's that present abstracted signalling data – i.e. HTTP/2, GSM MAP, CAMEL, USSD, ISUP, SIP, DIAMETER.

An API can be terminated on an SVI Telephony Application Client (SVI-TAC), or on a third party app for in-house development. The SVI-OGW supports SCTP streaming for monitoring applications.

SVI-TAC - Telephony Application Client

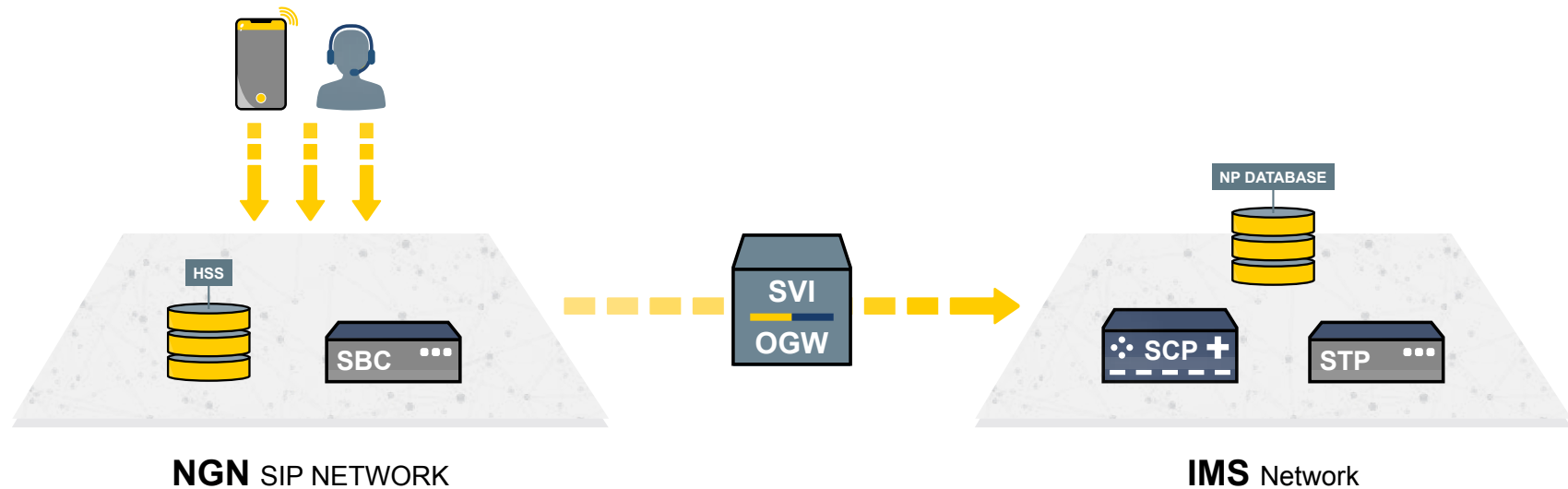
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The SVI-TAC is a Python based client that's able to terminate, manipulate and transmit over the connected API's.



The SVI-TAC supports SQL, HTTP, HTTP/2 SOAP, XML, JSON etc.

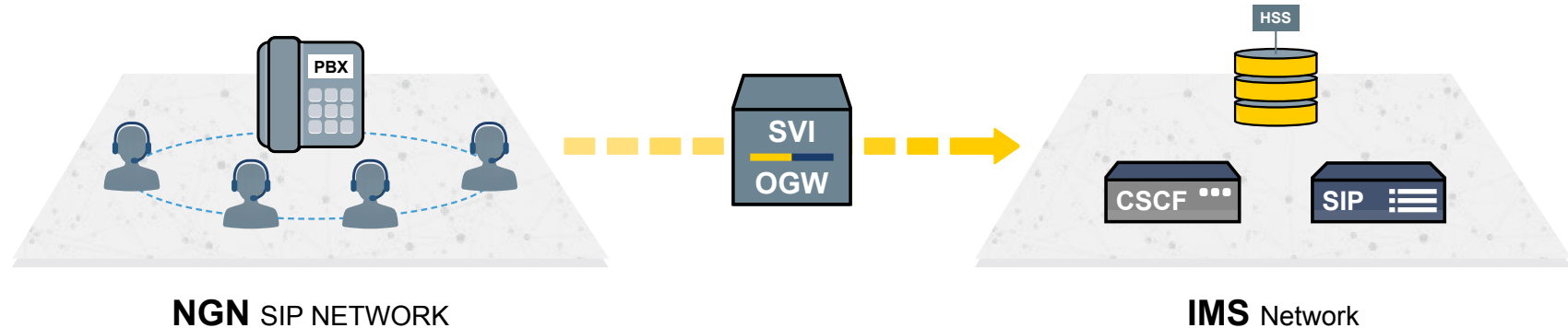




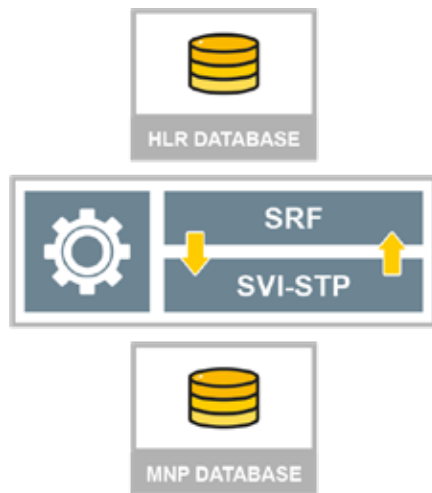
- Next Generation SIP VoIP network needs to deploy Local Number Portability service.
- In country regulation dictates LNP delivered using incumbent SS7 network.
- SVI-OGW provides SIP – SS7 IN inter-op to deliver the service.

Case 2 - Legacy Leverages IMS

6

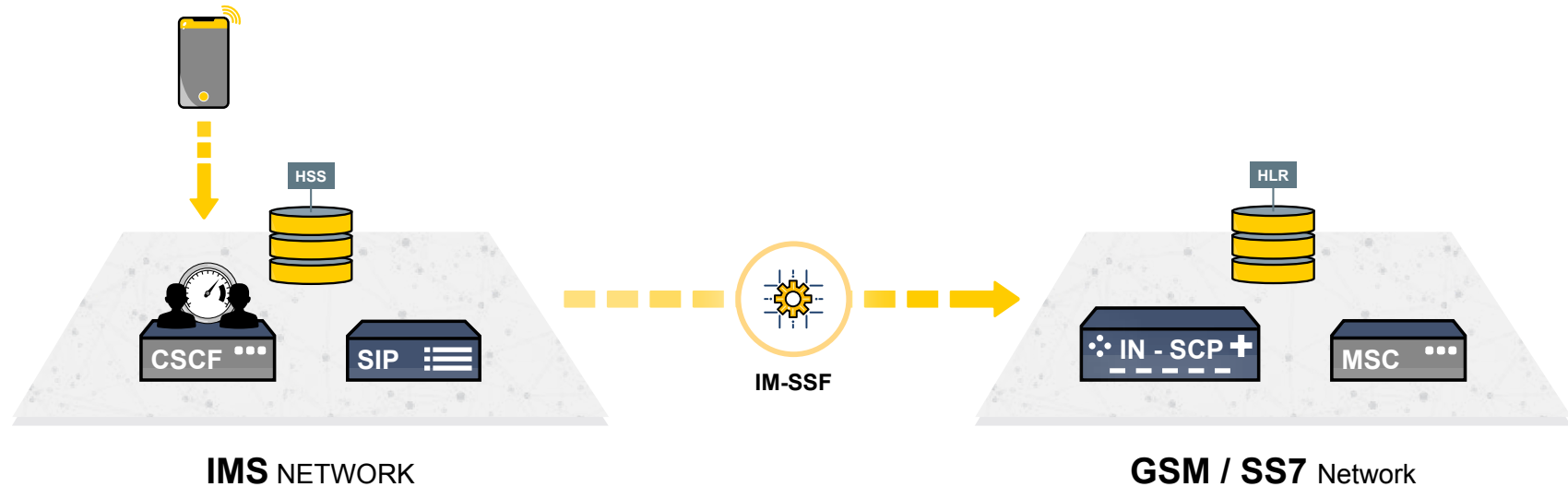


- State of the art mobile IMS (LTE) network needs to interface Enterprise services.
- Enterprise services consist of SIP + ISDN PBX's delivered to SME's.
- SVI-OGW provides SIP – IMS SIP inter-op to rationalise management of Enterprise subscribers in IMS network.

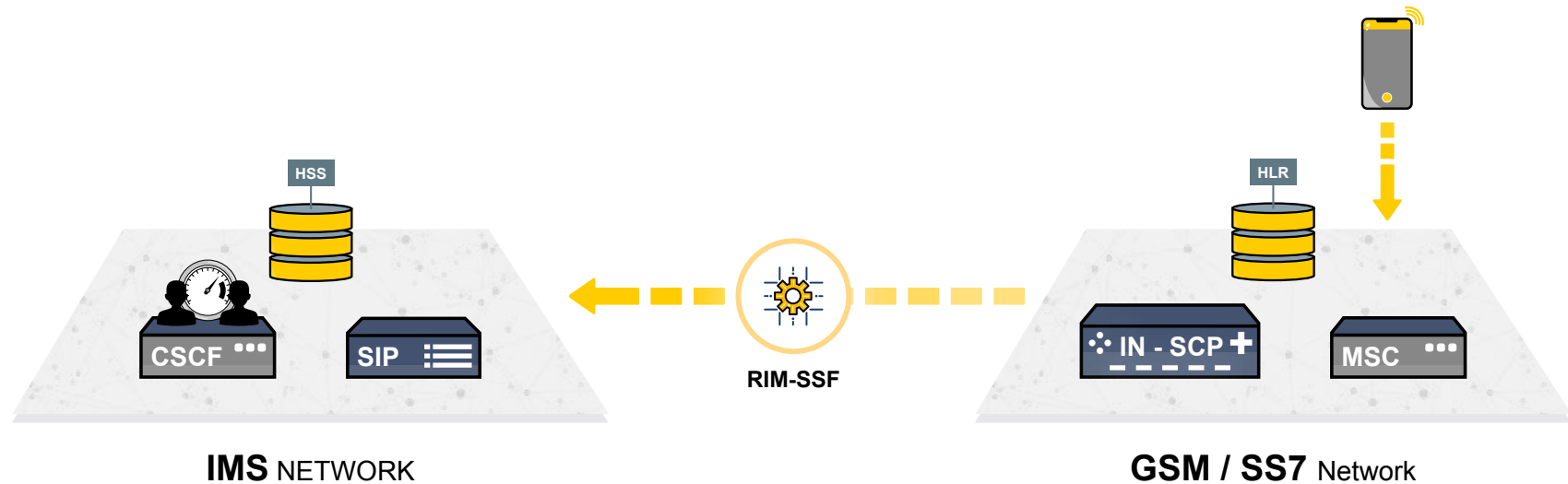


Integrated Signalling Relay Function:

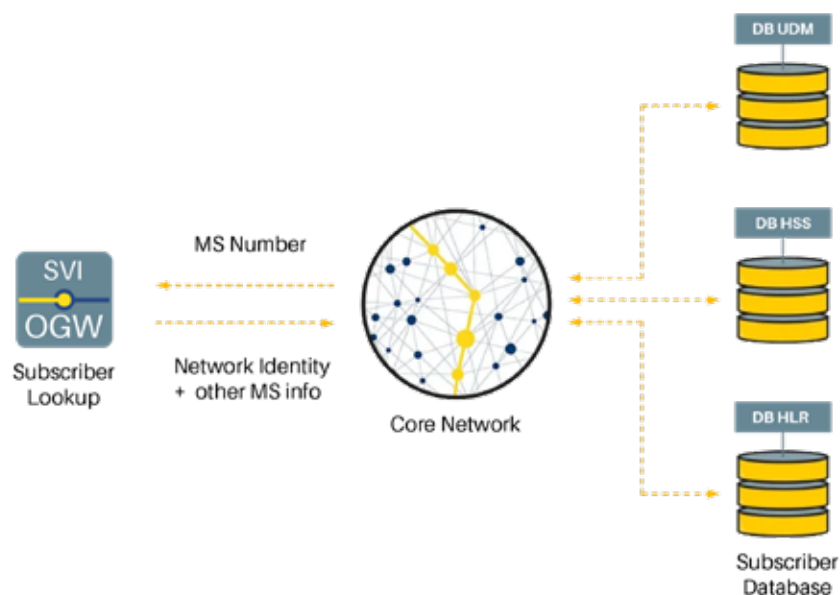
- Seamlessly enables Mobile Number Portability
- Manage the interface between GMSCs + HLRs
 - SCCP Call Steering
 - Call Control Triggering
- Integrates over a range of API
 - JSON
 - SQL
 - ENUM
- Support for 3GPP TS 23.066



The SVI-OGW has been used to model the 3GPP IMS component in the IM-Service Switch Function (IM-SSF), **3GPP 23.278** providing a seamless bridge between an IMS network (SIP) and a CAMEL based SS7 Intelligent Network.



In “reverse” the IM-SSF allows legacy subscribers to access the new services available in an IMS network. The SVI-OGW models this “glue” that allows legacy subscribers to access new services run from SIP application servers – i.e Mobile PBX, OTT etc.



The HLR offers a secure Equipment Identity Register (EIR) to combat stolen, unauthorized or defective equipment usage, and its Authentication Centre (AuC) prevents SIM cloning and provides encryption keys.

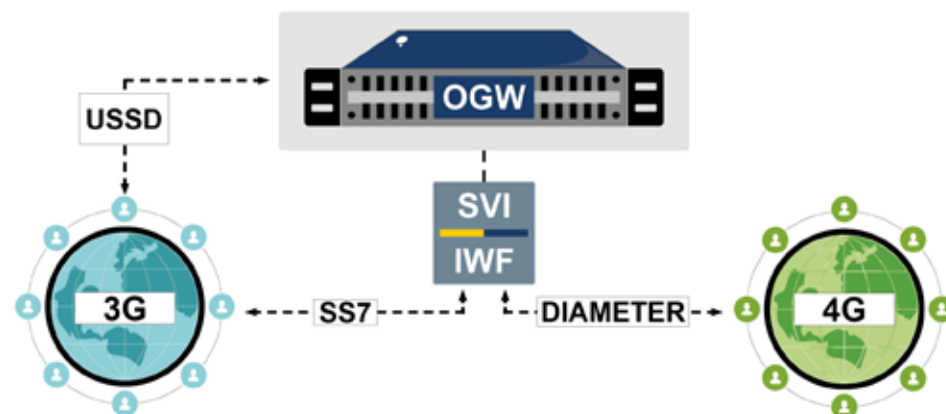
In parallel, the HSS creates a mobile subscriber information database for registration and authentication in LTE/EPC or IMS networks.

The UDM plays a pivotal role in managing user-related data, such as subscriber profiles, authentication credentials, and authorization policies. It ensures that only authorized users can access the 5G network and services while maintaining the integrity, security, and privacy of user information.

Unstructured Supplementary Services Data (USSD) is a session-based protocol used in 2G/3G networks to send text between a mobile phone and an application program in the network. Unlike SMS there is no store and forward as USSD transactions only exist for the length of a session. USSD applications are generally menu driven and can push text in a menu format to subscriber handsets.

Applications

- Pre-Paid Roaming – USSD used in the network to check in real-time subscriber has enough credit for a call
- Pre-paid subscribers – use USSD to manage and top-up their accounts
- Mobile Money – subscribers able to make payments and purchases via their phones menu driven USSD interface



Fraud Detection and Elimination

- Passive Detection
- IP Mirroring
- SCTP monitoring

Active Detection

Initiate network lookups to check for:

- Spoofing
- Faking
- Spamming

Elimination

- Block messages from network
- Initiate call tear-down
- Work at protocol or MML interface level



MavenShield
Fraud Prevention Platform

 Fixed / Cable	 3G / 4G / 5G	 VoIP / VoLTE
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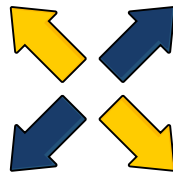
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