



NG Service Broker™ Solution

Provides mobile operators with the ability to easily integrate their future and existing IMS and IN applications so subscribers can benefit from multiple services simultaneously.

Current Situation

VAS are currently growing at an exponential rate and networks are evolving from IN to NGN. Subscribers wish to activate multiple IN and IMS services on their mobile phones.

In order to enjoy increased revenue generated by multiple services, operators must be able to supply their subscribers with multiple services simultaneously. Since IN networks are equipped with limited mechanisms to support coordination between SCPs, supporting multiple service triggers per call is a challenge.

Overcoming these challenges requires complex workarounds and entails significant changes to network architecture/elements, or the usage of a single vendor for all services. The results are significant service limitations, network inefficiencies and loss of potential revenue.

Next generation IMS networks face the same issues. Enabling IMS will mean dealing with multiple SIP/IMS services, as well as handling interactions between IMS systems and legacy IN Systems.

Starhome's Solution

Starhome's NG Service Broker™ Solution combines Starhome's IN/SIP expertise and the 3GPP standards for Service Capability and Interaction Manager (SCIM) IMS into a core network element that enables multiple services working together. In defining IMS, the Service Broker concept was recognized as crucial and the SCIM was introduced in 3GPP standard, as a part of the IMS Architecture.

The NG Service Broker allows seamless orchestration of any existing or future IN/CAP/SIP/IMS services. It also solution overcomes the limitation of IN networks and enhances IN capabilities to enable multiple trigger support for a single IN service event, such as a call, an SMS and a data session.

Incorporating the SCIM, IM-SSF and "reverse" IM-SSF capabilities allows the NG Service Broker to trigger SIP Application Servers and SCPs on the same IN/SIP Trigger.

The result is an integrated solution, enabling multiple services to all

Benefits of Starhome's Solution

- Enables any existing/future IN/CAMEL/SIP/IMS service
- Supports ETSI INAP, Siemens, Nokia, Ericsson, 3GPP CAMEL, etc.
- Minimizes network complexity and maximizes efficiency
 - Minimum impact on existing IN/IMS services and network architecture
 - Easy migration to hybrid networks and future IMS capabilities
 - Seamless integration - no changes to existing SCPs/application servers
 - No dependency on network/SCP/application server vendors
- Starhome is a core IN vendor with over 110 IN integrations
 - High availability, Telco-grade, field-proven platform
 - Scalable N+1 architecture allows for a high capacity, geographical distribution solution



NG Service Broker™ Solution

subscriber segments, for CAMEL/INAP and IMS networks. The solution allows the introduction of new IN and IMS services alongside existing services with minimal impact on the network, and no dependency on network vendors.

The Service Creation Environment (SCE) in Starhome's NG Service Broker allows the operator to orchestrate the different services installed in its system. It is distinguished in the telecom market for solving the majority of flows with minimal configuration and for enabling simple configuration of changes and overrides via the user-friendly environment.

Solution Description

Starhome's NG Service Broker is comprised of a core engine that supports the basic IN and IMS core network component functionality, and a collection of core modules that enable the platform to support a wide range of capabilities, such as protocol conversion, subscriber information handling, flow management,

session control and parameter manipulation.

The IN base of the NG Service Broker is a dual SSP/SCP node that supports both SSP and SCP functionality on the same platform while using INAP and/or CAP variants. This functionality enables seamless integration of any new service with existing network SCPs. No change is required to existing SCPs, GMSCs, HLRs or VLRs.

The IMS base adds IMS SCIM node capabilities into the NG Service Broker and functions as a virtual component that interacts with the S-CSCF.

Key Features

- Provides total control via an advanced SCE
- Allows easy service orchestration
- Any parameter, in any message, at any point can be overridden
- Fast time-to-market for the introduction of new services
- Supports information sharing between services
- Enables multi-service interaction
- Solution encompasses the SCIM and the IM-SSF functionalities introduced in 3GPP standard TS 23.002

Starhome

Starhome® is a field proven leader in roaming whose cumulative knowledge and expertise has made it the roaming partner of choice for mobile operators. Since its establishment in 1999, Starhome manages and maintains over 900 roaming solutions for over 178 mobile operators in 118 countries worldwide. Starhome's solutions address all key

roaming requirements and target three distinct areas of activity at the mobile operator: **Retail** - Starhome offers seamless solutions to stimulate and increase roaming traffic and usability. **Wholesale** - our powerful solutions enable teams to meet their wholesale targets and IOT discount agreements. **Operation** - our mission-critical solutions optimize network efficiency and reduce cost of ownership.

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