IN Evolution – SCP Replacement

Intelligent Network (IN) capabilities are a mission-critical part of your network. They represent critical core network functionality and significantly contribute to revenue generation. Yet their current implementation on legacy systems like service control platforms (SCP) do not meet your network evolution needs and pose significant issues such as:
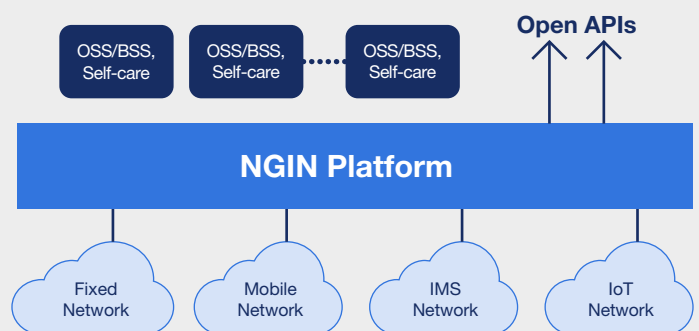
- SCP platforms are reaching end-of-life and network services are not supported by the supplier

- Hosting services on multiple platforms while migrating your network to IP increases operational exapenses and network complexity

- Existing platform is unable to interface with your new network – delaying subscriber migration

- Age of your existing platform pre-dates your operations support team

- Business team wants access to new features and capabilities to drive revenue and differentiation

If you are facing these challenges with your existing platforms, you need to migrate your intelligent network functions to a next generation platform.

TNS' IN SCP Replacement package addresses these issues and can bridge your current network transition, replicate existing IN based capabilities, and provide an evolutionary path for current and future applications.

IN SCP Replacement Package Highlights

- Provides off-the-shelf services for basic and advanced IN call control functionalities

- Future-ready and uniquely capable to bridge the Circuit-switched and IMS/SIP domains

- Supports creation and deployment of multiple services on a single platform

- Integrates seamlessly with the existing back-office provi-sioning, management and billing solutions with zero impact

OSS/BSS, Self-care   OSS/BSS, Self-care   OSS/BSS, Self-care   **Open APIs**

NGIN Platform

Fixed Network   Mobile Network   IMS Network   IoT Network

Professional Services Practice

- Fully documents the existing IN feature requirements and captures your newly desired enhancements in a feature specification document (FSD) to ease knowledge transfer

- Delivers the IN features using base applications and customized call flows to fully replicate the existing features as per the FSD

- The data migration automation framework (DMAF) seamlessly migrates the existing subscriber database to the new platform

- Integrates, using REST interfaces and open APIs, with the existing back-office billing, management and provisioning systems

Intelligent Network Evolution

Our market-leading and future-proof solution offers a fully specialized IN replacement package – one that has been put to test in commercial deployments with many of the world's largest service provider customers. This comprehensive solution includes a robust platform, ready-to-deploy applications, APIs and tools that enable quick creation of new applications.

The Next-Generation Intelligent Network (NGIN) Platform

The TNS Communication Application Server (CAS) is a SIP/IMS compliant next generation IN platform. It is a standards-based carrier-grade platform that supports multiple protocol interfaces (SS7, IP, ISC and Diameter), enabling deployment of applications across networks and devices. More than just offering connectivity to your new network, the NGIN platform enables your applications to be "domain aware" in both the legacy CS and IMS/SIP networks.

Core Network Applications

This package offers a suite of field-proven intelligent network (IN) applications that are "service building blocks" which are easily customizable into new IN applications that meet your specific feature requirements and network call flows. The core network solutions applications consist of:

- Intelligent Call Routing (ICR)

- Advanced Toll-Free (ATF)

- Voice Virtual Private Network (VPN)

- Online Rating and Charging (OCS)

- Call Diversion (CDIV)

- Call Screening (Fraud)

- Number Portability

- Emergency Calling/E911

- Caller Intercept

- Zip Code Routing

Service Replication with Base Applications

The creation of new services starts with the base applications and application components that exactly replicate the services and call flows on the service provider's legacy IN platform (SCP). The solution offers several base applications comprising the fundamental IN capabilities (e.g. ICR, Voice VPN, etc.). Depending on the call flow scenarios, these applications work in either B2BUA or redirect mode. The application business logic is customizable without the need for code changes at the platform layer. These applications reside at application base level and can be commercially deployed and are easily used to replicate the existing IN services and create new services.

Path Forward with Extensibility, Open APIs and Service Creation Tools

The NGIN platform is constantly evolving with new access to external resources and application creation tools making it a future-proof application delivery platform. Data continues to be increasingly accessible allowing additional information for routing decisions. This, along with new external resources such as speech recognition, biometric authentications and fraud detection, enables new services offering possibilities for service providers to incorporate new capabilities into their core network applications. The NGIN platform delivers a complete set of capabilities and application development support using the toolset:

- Open APIs and Java Libraries
- Mobile and WebRTC APIs
- Application Development Environment (ADE)
- Routing Flow Editor (RFE)

To find out more about how TNS can help you with a wide range of telecom solutions:

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