

# CALL SERVER SI3000 CS



**Call Server, the brain of the next-generation network, manages calls, controls access and trunk gateways, delivers services, and creates revenue-generating opportunities.**

The SI3000 Call Server enables the delivery of network solutions with a comprehensive set of services that create revenue-generation opportunities for different service providers. The SI3000 CS rich feature and protocol set enables different network topologies and solutions in either pure IP or mixed TDM-IP environment. Class 4 solutions include advanced routing and charging features. Subscriber feature set for Class 5 solutions can be configured to satisfy basic residential needs, or to satisfy advanced business subscribers with IP Centrex demands. A unique dual mode SI3000 IMS compact core ensures seamless migration from NGN to IMS.

The same SI3000 CS software solution is available on two HW platforms: **ATCA platform** - targeting larger capacities, and Iskratel's proprietary **MEA platform**.

The SI3000 CS is core component of many of Iskratel solutions.

## Application

The basic idea of NGN / IMS is the convergence of voice, data and multimedia applications within a common network. The figure shows Iskratel NGN / IMS architecture and the positions of individual network elements.

NGN / IMS solutions include some typical applications that are specific with regard to their purposes or the environment in which the NGN solution is located. The NGN / IMS solution is able to provide the following services:

- Voice service
- Data service
- Multimedia service
- Integrated service

Application servers with CSTA support and voice services solutions with VoXML.

Services platform in addition provides intelligent network services, such as Number Portability, enabling easy integration of call server solutions into regulated multi-operator environment.

There are typically three applications

### **As Class 4 functionality:**

- signaling and media gateways control with MGCP or H.248
- support for SIGTRAN protocols (IUA, M2UA, M3UA, V5UA) and CAS protocols
- trunking with H.323, SIP, SIP-T/SIP-I

### **As Class 5 functionality :**

- support of different SIP terminal equipments (softphones, deskphones)
- access gateways control with MGCP or H.248 with support for analogue and ISDN terminals
- rich feature set support

### **As Iskratel Business Communication - IBC :**

Connection to Iskratel's application servers enables call server users an additional set of advanced services based on the NGN architecture. The existing business telephony services are enriched with

- self-care web portal
- single identity service
- address book
- presence status
- instant messaging
- file transfer
- video calling.

## Benefits

The SI3000 CS offers the most appropriate infrastructural enhancements for existing PSTN networks. With the introduction of the SI3000 CS the operator quickly broadens the range of profitable subscriber services without the need to replace any additional equipment.

- Using the SI3000 CS, the operator upgrades the existing class-4 and class-5 PSTN switching devices with additional NGN services and solutions.
- The SI3000 CS is enabled to optimize a broad range of network topologies – distributed, centralized, hybrid and overlay networks. Every existing PSTN functionality as well as special, geographically determined demands are supported.
- Carrier-grade call server with a modular and pure NGN architecture.
- Top performance and reliability in pure IMS, pure NGN, pure TDM or mixed TDM/NGN/IMS environment.
- Extensive support of signaling variants and standards for IMS, NGN and TDM.
- Unparallel scalability of SI3000 CS with its different HW options and compact or distributed deployment scenarios.
- Compact integration with other Iskratel's NGN products in just one rack,
- Ensures full transparency for existing voice services.
- Ready for innovative, revenue-generating, IP-based applications via open interfaces connecting to application servers.
- Enables interconnection of SIP or SIP (ISC) applications servers (i.e. FMC solution, advanced business services) to existing PSTN, NGN and IMS.
- **Ensures seamless migration from NGN to IMS due to unique dual mode functionality**

## Highlights

### Residential subscriber features

- Business subscriber features
- Trunking features
- Charging features
- Regulatory features
- Standards-based protocols
- Carrier class reliability
- Cost optimized solutions