Iskratel Voice Modernisation

Advanced Class 5 Solution

Why Iskratel?

Iskratel provides complete solutions for the simple and fast implementation of the services in a service provider's network, guaranteeing an easy and highly reliable migration from TDM to IP and IMS.

The Iskratel Class 5 solution based on the SI3000 CS addresses residential customers. It has been designed for Service Providers (carriers, ISPs, etc.) who would like to enhance their service portfolio over broadband access by offering SIP-based services and applications to residential customers. The goal of this solution by Iskratel is to provide an optimal set of voice features for the consumer market that can be offered by services providers using any kind of broadband access technology as well as any kind of existing TDM access networks.

The core of the Iskratel Class 5 solution consists of the SI3000 CS (Call Server), the SI3000 SMG (Signalling and Media Gateway), the SI3000 AS (Application Server) and the SI3000 MNS (Management Node System). This proven, carrier grade technology is used in a combination designed for the needs of service providers. Thanks to its composition, interfaces and functionalities, the Iskratel Class 5 solution fully replaces any existing TDM exchange, making way for further network development and the provisioning of new services.

VOICE OVER IP

The Class 5 solution enables service providers to deliver Basic and Advanced residential VoIP and IP Centrex services for SIP endpoints to a broad range of customers. With a proven, competitive feature set, the SI3000 CS operates over any existing IP network. Various Next Generation features are available to improve overall customer experience and retention. The IP network and IP telephones are open for the implementation of unified and video communication services. Voice communication can be enhanced with the presence status, instant messaging and data transfers. In addition to such new services, Class 5 solution also offers the most essential telephony features available in TDM systems.
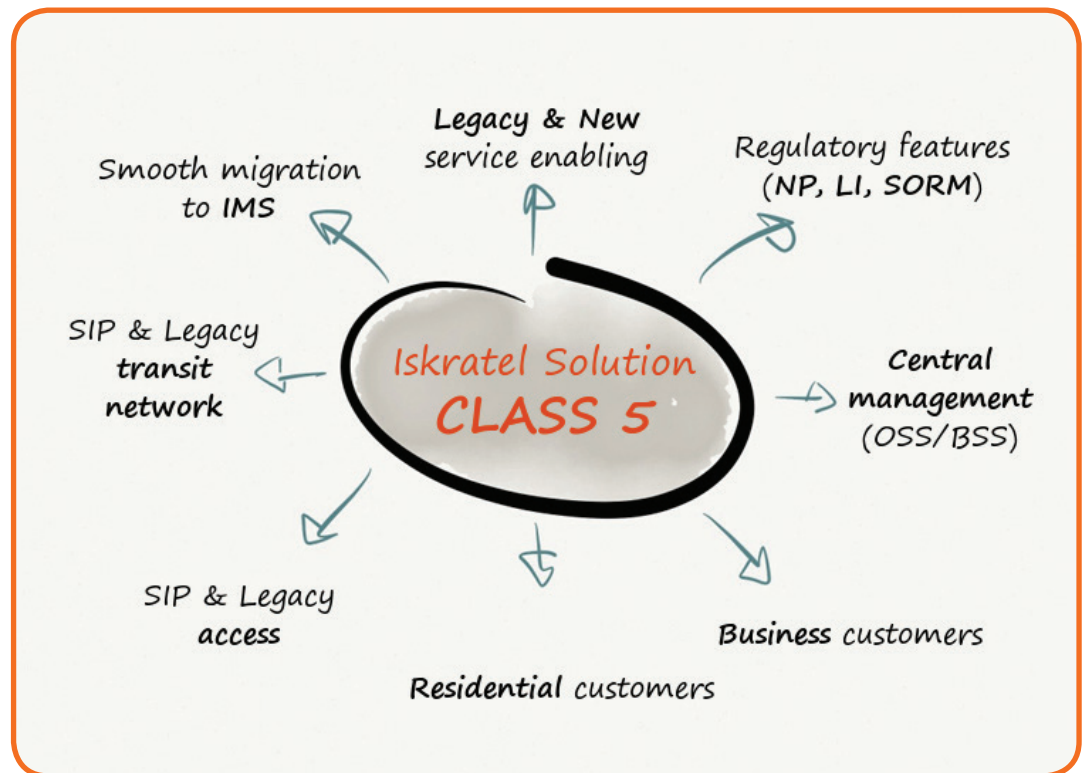
MULTI-DEVICE USER

Service providers can provide users with additional SIP lines, which are used for additional softphones, along with existing TDM ports. At the same time, new user IP phones and IADs (Integrated Access Devices) can be connected via broadband IP ports. New functionalities such as the MDU (Multi-Device User), enable access from different terminals to the same service, using the same user ID. The Fixed-Mobile Convergence (FMC) solution enables advanced user experience.

CONNECTION TO AN EXISTING TDM ACCESS NETWORK

The integration of the Iskratel Class 5 solution into an existing network is the basic requirement for the replacement of an existing Class 5 TDM exchange. In this way, the replacement process progresses in manageable steps and with the guaranteed preservation of previous investments.

ISKRATEL

Operator benefits:

- Easy integration into the existing network and the existing IT infrastructure

- Unique scalability and adaptability

- Easy enhancement to a Class 4 solution

- Easy upgrade to IMS architecture via NGN/IMS dual-mode operability

- Safe and reliable migration procedure

Key factors of the Iskratel Class 5 solution:

- SIP server

- Advanced services and applications

- Support of IP and TDM access,

- Regulatory features (NP, LI, SORM)

- High scalability

- Enhanced centralized management

The Class 5 solution connects existing access modules with the V5.2 interface, and PBX systems with ISDN-PRA interfaces. Subscriber ports on access modules with proprietary interfaces have to be migrated to a modern multi-service access module, such as the SI3000 MSAN. In addition to enabling POTS ports, this also enables all types of broadband IP ports.

SUPPORT FOR BUSINESS USERS

The Class 5 solution provides business services, with which service providers provide their business clients with more than just the usual subscriber trunk for the connection of a PBX or IP PBX. A service provider's network enables the set-up of virtual private communications systems (hosted IP CTX), offering advanced services like hunting groups, pick-up, conference call, SLSD, etc., for which the service provider charges a monthly fee and call costs.

Already in its initial phase, the Iskratel Class 5 solution provides more network functionalities than the replaced TDM exchange – it is a SIP server and a switch at the same time, comprising all features and capabilities of a Class 5 switching system. This is why service providers can immediately use an array of new functionalities.