Iskratel Voice Modernisation

Virtualized IMS/VoLTE Solution

Operator Benefits:

• Provides operator grade multimedia IMS voice services

• Builds on a standardized SCC and eSRVCC mechanism

• Complete VoLTE end-to-end solution

• Based on "best of breed" building blocks

• Fully Regulatory and Standards compliant

• Experience and tradition from a EU-based vendor

Many of our customers in the telecom industry are excited about the prospects that 5G is promising. At the same time their existing voice infrastructure faces the challenge of falling revenues, the need to optimize OPEX and in some cases vendor end of life issues.
The way forward is to leverage 5G for revenue growth within industries and to optimize networks for best connectivity Total Cost of Ownership (TCO).

An IMS based network architecture, introduced by the standardization bodies and implemented by all major vendors, provides an answer to these challenges.
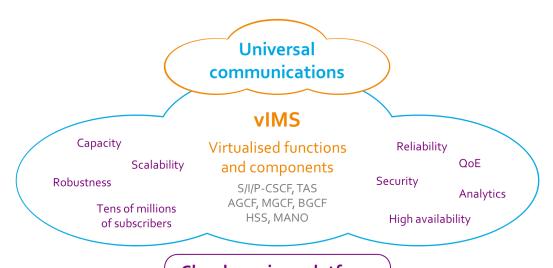
SIMPLIFIED NETWORK TRANSFORMATION

The investment costs that are required for a complete network transformation are usually too high and operators do not see the business case.

End customers are unwilling to accept any additional costs for the operator's technology transformation. Therefore the key to an agile operator network is to develop a comprehensive architecture deployed on a flexible infrastructure.

Iskratel took these challenges under consideration when developing its solution. By implementing the solution on NFV principles, the solution provides a flexible telecom-grade platform on which a variety of communication services can implemented.

Services can be quickly and easily deployed and automatically scaled up or down with the support of orchestrator in line with customers demand.

Universal communications

vIMS
Virtualised functions and components

Capacity
Scalability
Robustness
Tens of millions of subscribers

S/I/P-CSCF, TAS
AGCF, MGCF, BGCF
HSS, MANO

Reliability
QoE
Security
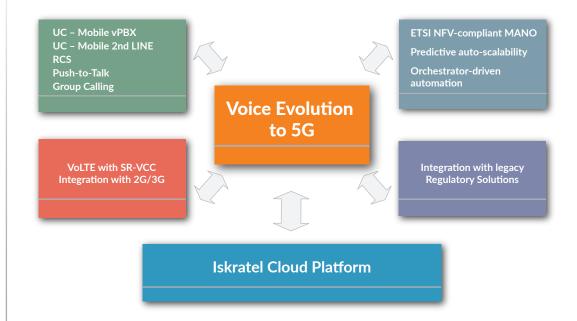Analytics
High availability

Cloud-services platform

ISKRATEL

Operational efficiency increased by **more than 60%**

CAPEX savings **from 30 to 70%**

Additional revenue streams from cloud services

UC – Mobile vPBX
UC – Mobile 2nd LINE
RCS
Push-to-Talk
Group Calling

ETSI NFV-compliant MANO
Predictive auto-scalability
Orchestrator-driven automation

Voice Evolution to 5G

VoLTE with SR-VCC
Integration with 2G/3G

Integration with legacy Regulatory Solutions

Iskratel Cloud Platform

Our Technology:

• Use case tailored

• Automated

• Standardized

• Field-friendly

• Secure

• Scalable

CONTROL ELEMENT PLACED INTO CLOUD

Iskratel SW defined IMS network elements are decoupled from HW through Iskratel's virtualization middleware and deployable on any x86 based hardware and supports also onboarding on any cloud-based platform. Cloud implementation enables hosting operators with a new SaaS model for providing each tenant with its own, logically separated, virtual network, which can be deployed only for a certain period of time.

With only SW implementation the time to service operation is reduced which in turn reduces the costs

Since the solution is based on VNF elements, scaling and mobility within and across data centers is enabled.

Virtual IMS solution is providing carriers with a service environment with the best TCO

Through common network element management with open standard interfaces, the integration with an operator OSS/BSS is a straight forward process which is supported by Iskratel's professional support team.

The Network element manager provides the ability to continuously optimize cloud network elements by monitoring the network performance. It ensures reliability, security and analytics for full SLA support.

The Iskratel solution protects the existing investment in the infrastructure and enables operators to create an environment for the deployment of new, exciting services.

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