

Iskratel FTTH solution

- Symmetrical bandwidth delivery with unlimited potential
- Ready for service innovation
- The pay-as-you-grow concept
- Open-Access Network
- Iskratel EdgeSynergy for a complete FTTx network solution
- Iskratel Intelligent Service Access (ISA) enabled

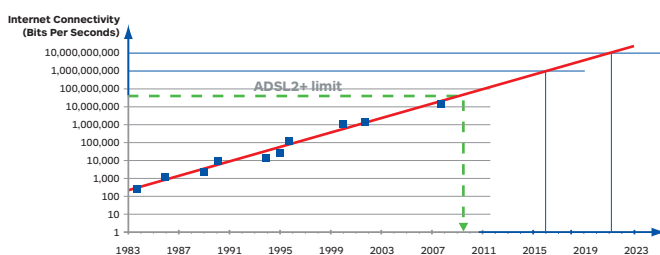
As the bandwidth requirements of the broadband society grow, it has become clear that the only network architecture that can safely support the service requirements of the next decade and beyond is Fiber-To-The-Home (FTTH). Iskratel offers a complete Ethernet FTTH networking solution for various types of network operators.

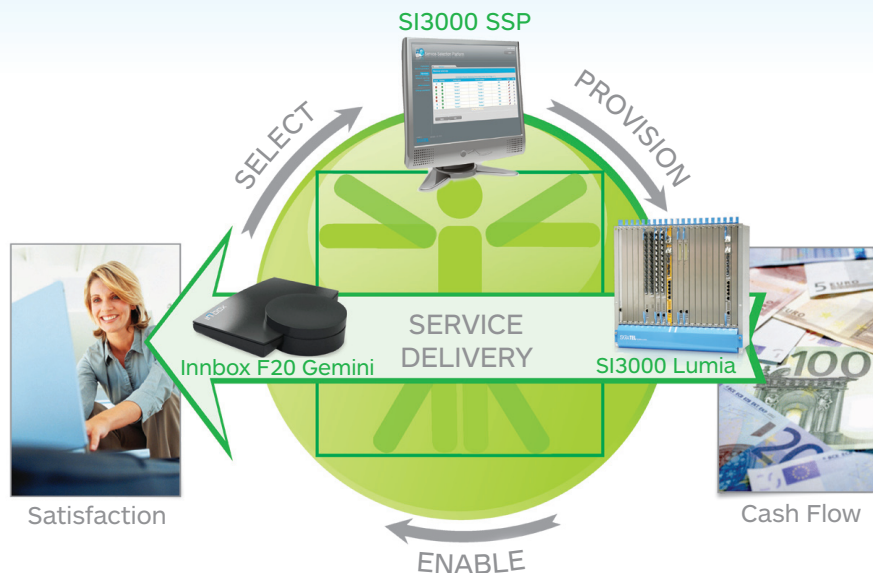
FTTH benefits and applications:

- Very-high-speed internet access
- Symmetrical bandwidth
- High-quality and low-latency voice, video-conferencing and gaming
- HDTV and other HD multimedia services
- Business VPN services
- Improved reliability

Open for services, innovation and new business models

New broadband services are being developed on top of the FTTH infrastructure (high-quality video-enabled remote healthcare, security, e-learning, infotainment, etc.). With the use of new services users will become even more demanding with regard to the quality of experience. FTTH and other next-generation operators will have to establish a creative and profitable ecosystem of different stakeholders in the value chain (from application providers to local communities). The network will have to adapt quickly to user-requested services and needs. This is what Iskratel's EdgeSynergy approach is all about.





Network Intelligence where you need it the most

The key elements to support new business models in a cost-effective way are networking and network management products and features included in Iskratel's FTTH solution. Iskratel has field-proven QoS, security, availability and multicasting for residential, business and open wholesale network services. In addition to this, the innovative Iskratel ISA network architecture gives full and dynamic control of the subscriber connectivity by adding more intelligence to the network access equipment and enabling new business models and a pay-as-you-grow concept (see the ISA architecture solution brief and the SI3000 Lumia documentation for more details).

Key elements of the solution

- SI3000 Lumia and SI3000 MSAN as FTTH Access Nodes and Ethernet Aggregation
- Innbox F20 - for a managed Ethernet fiber-network termination
- Innbox - managed Home Gateways series for triple play service providers
- SI3000 SSP, SI3000 MNS to manage the network, provision services and subscribers

Typical deployment case: FTTH Open-Access Network Provider

Many new FTTH operators decide to focus on operating an active network and offer on it services from many service and application providers. Such an approach is often referred as

the Open-Access Network. It ensures freedom of choice for customers and therefore a high take-up rate.

All the components of the Iskratel FTTH solution are put to synergy around an end-to-end managed and service-flow-aware Ethernet solution to provide simple operation and flexibility to add new services. In fact, customers have the ability to self-provision requested services in real time according to their needs.

Turnkey solution integration and services

Based on customer requirements Iskratel and our partners can offer consulting, project engineering and deployment for a complete active network design, the integration of network management with BSS/OSS systems and an optical passive distribution network.

Ethernet point-to-point FTTH turns out to be the most simple, flexible architecture and long-term future-proof investment. Since a dedicated optical fiber is laid from the access node's location to every individual user, each user can be provided with an "unlimited" dedicated transmission rate (100 Mbps or 1 Gbps today and more in the future). This solution could be combined with other Iskratel NGA solutions (i.e., FTTC with VDSL2.)