



## Fiber to the Curb and Outdoor Cabinets

# Iskratel FTTC

### Key features:

- Rapid deployment of high-bandwidth user interfaces
- Cost-effective usage of the existing copper infrastructure
- Latest VDSL2 vectoring technology for high bandwidth, reach and reliability
- Plug-and-play cabinet concept
- POTS migration to IP from the same location
- Selective Power Control ensures a 24-hour life-line telephony service in emergency cases

Every network operator faces the same challenges: On the one hand, daily-increasing requests for more bandwidth, on the other, limited CAPEX. The hybrid fiber-copper FTTC (Fiber-To-The-Curb) network is the answer to the ever-increasing demand for cost-efficient network deployments.

**Time** – Every week counts when struggling for a subscriber base. The rapid deployment of high-bandwidth services is therefore crucial to gaining an advantage over competing network operators

**CAPEX** – The plug-and-play cabinet concept and the reuse of the existing last-mile copper-pair infrastructure, provides network operators



with the fastest and most cost-effective broadband-access network deployment

**Quality** – Alongside more bandwidth new services also require high reliability and Quality of Service (QoS). Iskratel's FTTC includes the latest VDSL2 vectoring technology and innovative networking functionality which ensures the highest reliability and QoS to provide end users with the best Quality of Experience (QoE).

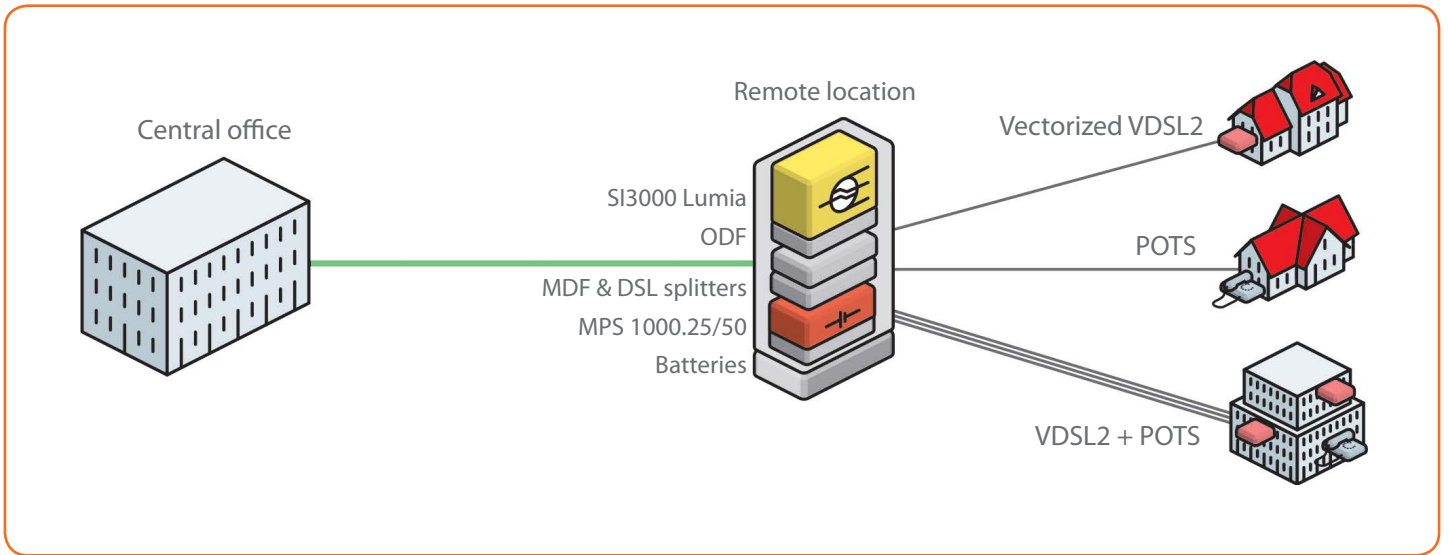
## ISKRATEL'S NEXT-GENERATION ACCESS APPROACH

Optical fiber is deployed up to the outdoor cabinet in the neighborhood or the cabinet in front of a building.

To serve the most demanding users and services, the solution is able to provide bandwidths of up to 100/60Mb/s for copper lines at distances up to 200m. For distances up to 600m, bandwidths of up to 60/30Mb/s are supported, enough for today's and tomorrow's innovative multi-play services.

## KEY ELEMENTS OF THE SOLUTION

- SI3000 Lumia
- Inbox V Series - managed HGW (Home Gateway) for service providers
- SI3000 MNS to manage the network, as well as provision services and subscribers



Outdoor unit

The **SI3000 Lumia** provides latest-generation VDSL2 interfaces with all the necessary features for the best QoE. Iskratel's VDSL2 solution supports Packet Retransmission, vectoring and other robust features on the physical layer in order to overcome distance, bandwidth and reliability limitations.

With no change required for currently satisfied users and the possibility to offer them more services in the future, the deployment of

*Although a Fiber-To-The-Home network is the ultimate access-network goal, many existing last-mile copper-based connections still have unused bandwidth and service-offer potential to increase the operator's revenue.*

FTTB/C is now even more attractive. In addition to vectorized VDSL2 ports, the SI3000 Lumia offers the possibility to connect remaining POTS users from the same cabinet via IP transport to a VoIP-controlled softswitch.

## INNOBOX V SERIES HGW (HOME GATEWAY)

The **Innbox V Series HGW** serves as a demarcation point between the VDSL2-based access network and the end user's network. The analog or IP phone, computer, STB, NTB, etc., are connected to the high-end Innbox V Series HGW to use various multi-play services.

## PLUG-AND-PLAY CABINET CONCEPT

The SI3000 Lumia is installed in an **ODU SI outdoor cabinet**.

The active cabinet ODU SI A for urban areas supports up to 384 VDSL2 (or 256 vectorized ports) and 384 POTS ports by using a distribution frame in a separate cabinet. The combo ODU SI C cabinet for rural areas has an integrated distribution frame and DSL splitters to support up to 192 VDSL2 and 192 POTS ports. All the cabinets come pre-equipped and are pre-tested, including all telecommunication modules, the power supply and batteries. The outdoor cabinets can operate in an enhanced temperature range from -40°C to +50°C in all weather conditions, and are vandal resistant.