2.2 Intention and Application

These guidelines specify the FTTx optical fibre access network infrastructure within single/multi-subscriber premises (which may comprise single or multiple buildings, villas, warehouses etc.) and intends to support the deployment of optical broadband networks (for e.g. triple play services) with the current state of fibre network technology. Copper access networks are not considered.

The application is intended for new buildings/areas, whereas this may also include areas of renovation or refurbishment of existing buildings. No precautions to enforce a certain fibre technology type or version shall be made. Up to now Ethernet (ptp) and GPON (ptmp) are deployed.

All new buildings shall be equipped with physical infrastructure capable of hosting high-speed networks and access points which can be easily accessed by the network providers. The same is valid for major renovations.

Over time adaptations and/or extensions to this document may be required reflecting new needs or solutions (new technical developments, future initiatives like smart city, etc.).

The cabling within the subscriber space (home, unit, flat, apartment, single family home or similar) for onward distribution of services beyond the customer premises equipment is not in scope of this document, although some minimum requirements for CAT6 cabling are provided.

This document constitutes minimum requirements to provide a baseline for the network setup in typical cases. Nevertheless, there is no restriction to extend the implementation by mutual agreements as long as those are not contradicting other baseline requirements and hindering (possible) competition by e.g. using proprietary standards.

With this a standardized network setup is pre-agreed by stakeholders allowing seamless interworking of all network parts. Further it will unload all planning and establishment efforts for most regular cases.

Fore sure special buildings or development areas (e.g. sport arenas, hospitals …) may need further in-deep respectively individual agreements beyond of that.

Sharing of essential infrastructure elements like rooms, ducts, cable trays and cabling is one of the aspects in focus to optimize the involved investments for all parties to guarantee an effective utilization of resources. Moreover, all parties shall constantly try to optimize the in-building design by e.g. utilizing unused space in rooms for other functions like mobile applications where applicable. With this a balance between possible and future proof requirements and investments at a reasonable level can be guaranteed.