

# ENABLING SWISSCOM WITH A HIGH-SPEED ROBUST FTTH IMPLEMENTATION

## Background

Swisscom is the most sustainable telecommunications in the world and provides internet, mobile & TV as well as comprehensive IT and digital services to private and business customers in Switzerland. As a part of Swisscom's fibre network expansion, they intend to connect up to 75-80% of Swiss households and businesses by 2030. This strategy aimed to deliver cutting-edge, next-generation telecom services while enhancing customer experience. A pivotal aspect of this approach was to provide network bandwidth (up to 10 Gbit/s) for both residential and business customers using cutting-edge Fiber-to-the-Home (FTTH) technology across Switzerland.

## Objectives

In 2013, Cyient was selected as a preferred vendor, entrusted with providing end-to-end planning and design services for the FTTH network. The scope of Cyient's services included analyzing the existing copper network, designing the FTTH network as per guidelines, planning feeder networks, providing optical main distribution frame connectivity, and preparing BoQ and Bill of Materials (BoM) for construction cost assessment.

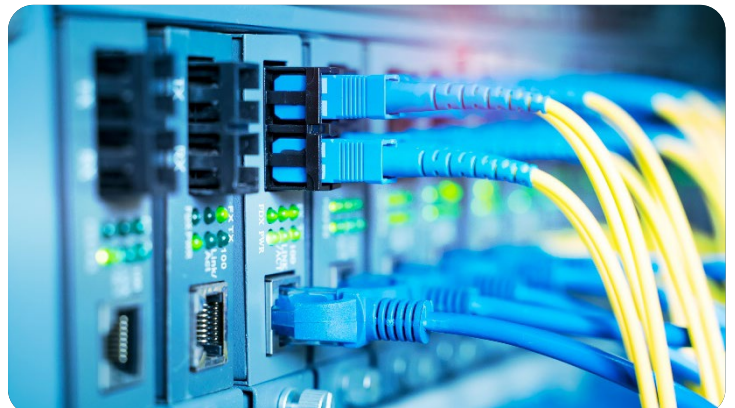
## Delivering tangible outcomes

The results of Cyient's optimized FTTH plan and design services have enabled transformation at scale. The deployment plan accelerated the FTTH deployment, allowing Swisscom to establish connectivity for priority customers swiftly. The optimized designs and BoM/BoQ significantly reduced construction costs. This not only expedited the rollout but also provided the customer with the ability to make timely decisions and expand its network.

## Technological Evolution

The journey of FTTH involved the introduction of different technologies over the years:

- FTTH (Fiber to the Home/Point-to-Point): Commencing in 2008, this FTTH network technology was utilized to provide speeds up to 1 Gbit/second.
- FTTS (Fiber to the Street): Introduced in 2014 alongside FTTH, FTTS technology was designed to provide speed of 500 Mbit/s.
- P2MP (Point-to-Multi-Point): A new technology under FTTH, utilizing splitter technology was used from late 2020 to 2023.
- P2P (Point-to-Point): Starting in early 2023 and as a part of fibre challenge, Swisscom transitioned from P2MP to P2P technology with a forecasted vision along the current strategy to reach up to 75-80% of households with 10 Gbit/s by 2030.



## Timelines - Key Milestones of the relationship

In partnership with the PNI solution provider, Cyient was involved in data conversion, migration, and integration with a team of 500+ resources.

**2006-2009**

Designing fiber network with a technology focus on FTTH (P2P) and FTTs (P2P with  $\mu$ CAN technology).

**2013-2019**

Expansion using P2P, incorporating data quality management checks and feeder cleanup.

**2023 Onwards**

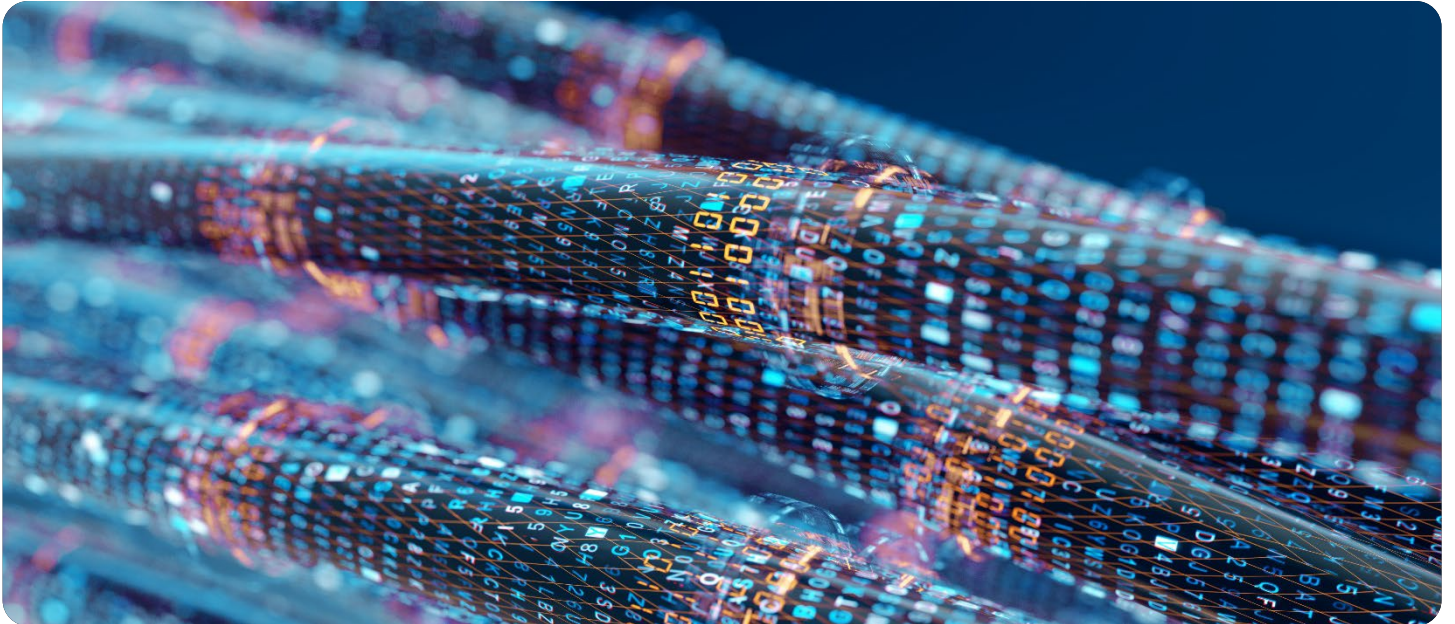
**2010-2012**

Maintenance activities that included manual data cleanup, work order postings, network alignment, and data quality management checks.

**2020-2023**

Introducing P2MP technology, cleanup at building locations, and copper design efforts.

Cyient's strategic planning, meticulous design, and adept execution have not only enabled the successful implementation of FTTH technology for Swisscom but have also contributed significantly to their growth strategy. The collaborative journey has witnessed the evolution of technology, resulting in a robust and forward-looking network that positions Swisscom as a leader in the European telecom market.



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