

**CYIENT**

# SUPPORTING THE DEPLOYMENT OF SWISSCOM'S FTTH NETWORK

A Cyient – Swisscom FTTH network collaboration



## Overview

Swisscom (Schweiz) AG, is a subsidiary of Swisscom AG, Switzerland's leading telecommunications services provider. Swisscom Fixnet AG designs, constructs, and maintains the telecommunications network infrastructure. The company also sells its network and other services to individuals, small- and medium-sized companies, and resellers.

## The Challenge

As part of its growth strategy, Swisscom Fixnet AG wanted to further consolidate its leadership position within the marketplace by providing next-generation telecom services, while enhancing the customer experience. One aspect of this strategy was to provide increased network speed and bandwidth to its residential customers, small- and medium-sized enterprises, and large corporations. To accomplish this, the company intended to leverage Fiber-to-the-Home (FTTH) network technology.

With a strategic focus on rolling out state-of-the-art FTTH technology in the shortest period of time, Swisscom Fixnet AG wanted to engage an established partner who has comprehensive experience and technical expertise in planning and designing FTTH networks, and has a framework to execute the planning in a secured work area.

## Our Solution

We leveraged our FTTH life cycle methodology to help Swisscom Fixnet AG with its FTTH strategy. The solution included:

- Analyzing the existing copper network and designing the FTTH network
- Identifying network plan discrepancies by undertaking verification and validation of all addresses in Swisscom's planning tool for access network (PTA), its FTTH-DB
- Planning of network outlay in PTA as per the design of each customer's geographic address
- Planning of feeder network from exchange to serving area
- Providing optical main distribution frame connectivity, as well as connectivity to the customer's geographic address via a splice from the feeder
- Reducing the construction cost, by proposing the following technical solutions:
  - Identifying the shortest path to reduce the length of duct and cable
  - Facilitate even distribution to the customer geographic addresses, by placing the splice at the center of the geographical distribution area
  - Avoid unwanted street, rail, and water crossings
  - Optimize duct occupancy
- Preparation and monitoring of the bill of quantity and bill of materials for assessment of construction costs
- Population of the construction updates directly in PTA
- Assessing the quality of the FTTH designs in GE Smallworld, by undertaking automated quality checks



## Key Business Benefits

We have been handling this project for over 2 years now, working closely with Swisscom to deliver:

- An optimized FTTh network deployment plan and design that helped:
  - Reduce network construction cost to a significant extent
  - Significantly cut FTTh rollout timelines across Switzerland
  - Establish connectivity to Swisscom's privileged customers in under three weeks, and 15,000 BEPs within a year
- Enhanced project management processes, multi-lingual project coordination support, and issue resolution methodologies that helped in significantly reducing project time period and stakeholder efforts

In the course of the last 28 months, Swisscom has by their own admission additionally benefited from the project. To provide us with consistent and high-quality source data, Swisscom had to unify and globalize their own procedures and guidelines, which previously showed significant regional disparities.

Swisscom also used the experience of working with us to improve and enhance their own partner management and steering.

Phase 1 of this project was completed in December 2015.

## About Cyient

Cyient is a global provider of engineering, manufacturing, data analytics, networks and operations solutions. We collaborate with our clients to achieve more and shape a better tomorrow.

With decades of experience, Cyient is well positioned to solve problems. Our solutions include product development and life cycle support, process and network engineering, and data transformation and analytics. We provide expertise in the aerospace, consumer, energy, medical, oil and gas, mining, heavy equipment, semiconductor, rail transportation, telecom and utilities industries.

Strong capabilities combined with a network of more than 13,500 associates across 38 global locations enable us to deliver measurable and substantial benefits to major organizations worldwide.

For more information about Cyient, visit our website.

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