CYIENT | Nothing Less



# CyPlanIQ connects half a million homes

## with multi-gigabit broadband and 100% pass rate quality for a British telecom leader

## Business challenge

A Tier 1 CSP in the UK is implementing a brand-new, ambitious FTTH network rollout to bring digitalization to homes and businesses across the nation. Apart from reaching a broader consumer base, they aim to provide wholesale network services. In addition, they have set themselves aggressive homes passed and strict cost targets. To realize these business goals, the CSP needed to get the quality of the design first-time-right (FTR) at scale.

## Our solution

Cyient has been a design partner to the customer since 2016, providing FTTP survey, design, and as-built update services for approximately 150,000 homes till 2019. Since 2020, the customer scaled their rollout plans and transitioned to the XGS-PON architecture.

Leveraging our global telecom expertise over the past three decades and our extensive experience in PIA, we have successfully supported them in extending fiber connections to over 420,000 homes and 6,000 businesses with FTR design quality.

To expedite the delivery of designs and ensure they are first-time-right, we leveraged tools from our proprietary automation tool kit, CyPlanIQ. The solution helps streamline the design, documentation, and management of fiber optic networks. Whether working on high-level design (HLD), low-level design (LLD), permit, or TCP (traffic control plan), CyPlanIQ delivers support in creating network layouts, calculating fiber optic cable lengths, managing splice points and connections, and generating documentation for construction and maintenance.

### CyPlanIQ hosts a wide range of features that include

**User-configurable rules**

Exercise control over designs with extensive rules tailored to various network designs.

**Optimized placement**

Receive suggestions for optimal placement of splitters, distribution points, splicing, and more.

**Dynamic sync with google maps**

Quickly reference design locations with dynamic synchronization.

**Multiple porting options**

Export designs seamlessly in CAD, SHP, PDF, and other formats.

## Impact delivered

**Reduced manual intervention** in design and quality control (QC) by **30% using CyPlanIQ tools**.

Significantly **shortened design cycle times** through increased automation.

**Improved overall quality of deliverables** with streamlined design and QC processes.

Maintained an average design **pass rate above 90%** over the last 12 months.

Achieved a **100% delivery rate** for two consecutive months.

## The outcome

**Cyient is helping the customer meet their rollout targets by**

Successfully transitioning to XGS-PON technology

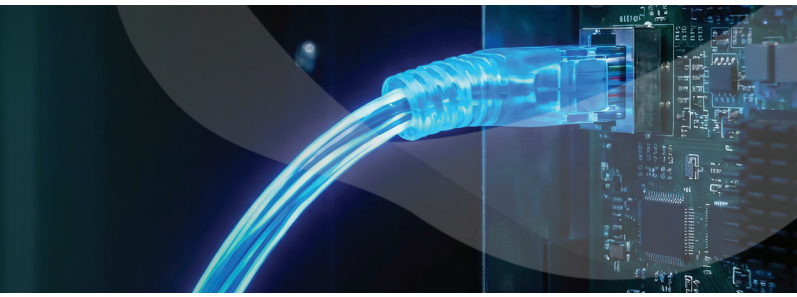
Efficiently utilizing Openreach PIA infrastructure to accelerate network rollout and optimize CAPEX

Leveraging CyPlanIQ tools to increase design throughput from 3,000 homes/month to 20,000 homes/ month and reducing the design cycle time from 32 days to 20 days.

### Our customer has this to say about our design delivery:

**Huge well done to our design partner Cyient, which has managed to achieve 100% pass rate on quality and 100% delivery rate for two months running during 2023 already! This is a big achievement, and we hope to track this through the remainder of the year."**

**If you are looking to accelerate your FTTH network rollout or would like to explore CyPlanIQ's automation capabilities, get in touch with us.**



Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com.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