

CyPlaNet 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 digitalisation 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 realise 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 fibre 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, CyPlaNet. CyPlaNet helps streamline the design, documentation, and management of fibre optic networks. Whether working on high-level design (HLD), low-level design (LLD), permit, or TCP (traffic control plan), CyPlaNet delivers support in creating network layouts, calculating fibre optic cable lengths, managing splice points and connections, and generating documentation for construction and maintenance.

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 CyPlaNet 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.**

Optimized Placement

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

Dynamic Sync with Google Maps

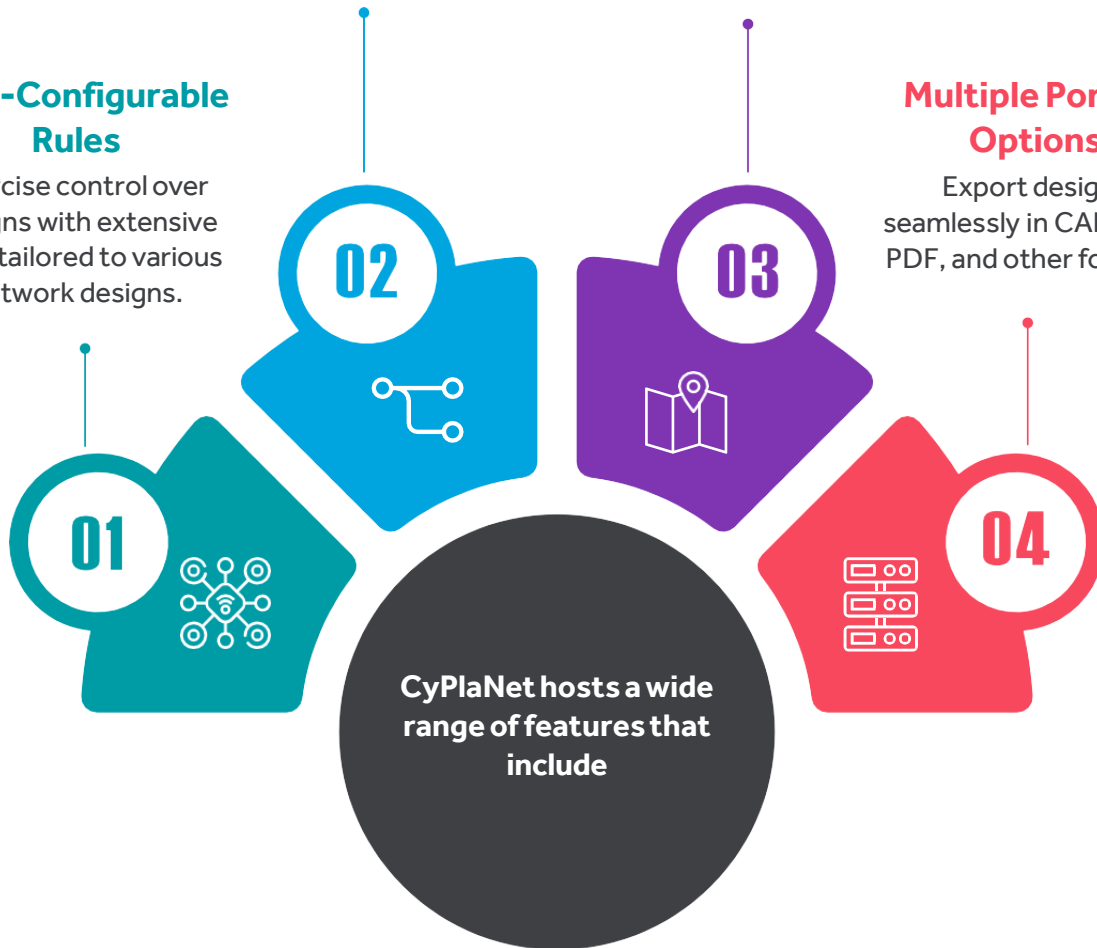
Quickly reference design locations with dynamic synchronization.

User-Configurable Rules

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

Multiple Porting Options

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



Using CyPlaNet tools, we reduced manual intervention in design and QC by 30%, significantly cutting the design cycle time and improving the quality of the deliverables. Over the last 12 months, we have maintained an average design pass rate of above 90%, achieving a 100% delivery rate for two months.

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 CyPlaNet's automation capabilities, please visit here

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