

800K

Homes Passed and Counting

How Cyient helped Fidium modernize its network foundation for large-scale fiber growth

Business challenge

As Fidium expanded its fiber footprint, legacy network data and fragmented engineering workflows made it harder to plan efficiently, maintain visibility, and scale execution with consistency.

The challenge centered on:

- Modernizing outside-plant records stored in TIFF files and CAD drawings
- Improving data accuracy and accessibility for planners, engineers, and field teams
- Supporting day-to-day engineering operations without disrupting live programs
- Scaling FTTH deployment across multiple states with speed and quality

Fidium needed a stronger engineering foundation to support ongoing expansion without adding complexity.

Overview

Fidium has been driving a large-scale fiber expansion across the Northeastern United States, with rollout efforts spanning Maine, New Hampshire, Vermont, and New York. As the business expanded, it needed a stronger digital engineering foundation to support network growth, modernize legacy records, and keep execution moving at pace.

Cyient supported that journey over more than a decade by helping Fidium:

- Digitize network records across **374 wire centers**
- Structure nearly **2 million telecom features** into a usable digital foundation
- Support fiber expansion that contributed to approximately **800K homes passed**

The Cyient solution

Cyient provided full lifecycle engineering support that helped Fidium modernize legacy data, maintain business-as-usual operations, and accelerate FTTH rollout from the same delivery backbone.

The solution combined

Network record digitization:

Converted legacy outside-plant records into structured digital network data

Centralized geospatial visibility:

Built a stronger planning foundation through the G/Tech platform

BAU engineering support:

Sustained ongoing engineering, inside and outside fiber (IOF) activities, and as-built documentation workflows

FTTH delivery support:

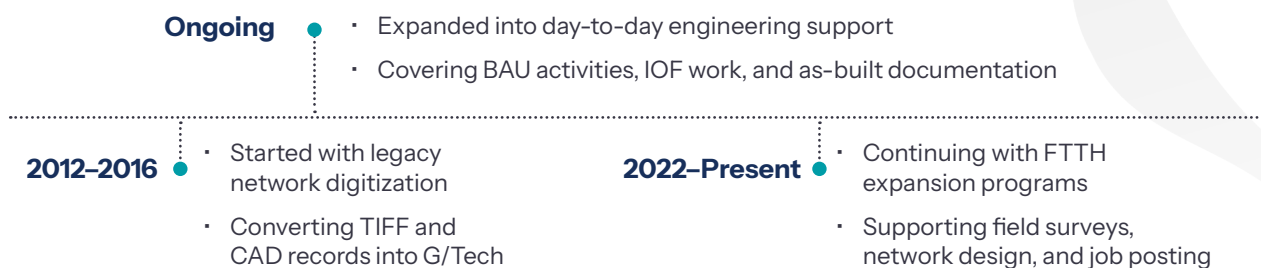
Contributed field surveys, fiber design, job posting, and documentation for rollout programs

Long-term partnership continuity:

Enabled Fidium to scale transformation and operations without switching between multiple vendors

Cyient-Fidium partnership at a glance

More than a decade long partnership that has grown with Fidium's network priorities over time.



Business impact

The impact was tangible. Fidium gained a stronger engineering foundation to support expansion at speed and scale.

Approximately **800,000** homes passed across Maine, New Hampshire, Vermont, and New York

374 wire centers digitized to improve network record accessibility and planning confidence

Nearly **2 million** telecom features structured into a usable digital network record base

Approximately **1,600** square miles covered through the digitization program

Key takeaways

This engagement gave Fidium the engineering continuity and digital foundation to support long-term network expansion.



A trusted digital network record base improved planning quality and reduced execution friction



A single partner across transformation and BAU support created continuity and accountability



Scalable engineering support helped maintain speed without compromising documentation accuracy



Long-term alignment strengthened readiness for continued broadband expansion

Result: A stronger platform to manage, plan, and grow their network with confidence.

Voice of the customer

CYIENT x fidium



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