CYIENT

CyCuRec

MODERNIZING ACCESS NETWORKS BY MONETIZING LEGACY COPPER AT SCALE FOR A LEADING US TELCO



Business Challenge

With fiber expansion moving at pace, the priority was to reclaim stranded copper and reduce ongoing cost while protecting build velocity for fiber expansion across multiple U.S. states.

Key challenges included:

- Limited visibility into inactive or underutilized copper assets in legacy systems
- High maintenance costs tied to stranded copper infrastructure
- Congested ducts, poles, and pathways restricting fiber construction
- Limited ROI clarity on which copper segments should be removed versus retained
- The need to execute copper reclamation consistently across a multi-state footprint

Overview

A tier 1 U.S. Communications Service Provider needed to modernize its access network by addressing legacy copper infrastructure that no longer supported current or future service demand. Across multiple markets, inactive copper routes continued to drive maintenance costs and occupy ducts, poles, and pathways required for fiber construction.

Our **CyCuRec** solution enabled structured, large-scale copper reclamation by identifying inactive assets, reducing cost, recovering value, and clearing access networks for fiber readiness and deployment.

The Cyient Solution

To keep delivery consistent across markets, we followed a simple sequence by deploying **CyCuRec**:

Data analysis and identification

Copper network data from legacy systems was analyzed to identify cables with nonworking or limited circuits.

ROI validation and prioritization

Routes over **5,000 feet** and **900 pairs** were prioritized where salvage value justified removal. Each candidate segment went through feasibility and savings analysis to confirm ROI.

GIS design and field readiness

Validated candidates were converted into approved research packages and GIS-based designs for removal during construction. Required permits and Traffic Control Plans were prepared to support safe, compliant field execution.

The Results

Monetizing inactive copper infrastructure at scale translated directly into cost reduction and improved fiber readiness across the access network.

01 **290M+** feet researched and validated for reclamation across multiple states, cutting maintenance costs by retiring inactive copper

02 **170M+** feet engineered and designed for reclamation, clearing pathways and accelerating fiber deployment

03 **$780M** in gross revenue recovery from salvaging copper

04 Delivery aligned with fiber engineering and **Zero Demand programs**, improving network readiness and protecting fiber build velocity

05 Ongoing **maintenance costs reduced** by retiring inactive copper assets



Monetizing stranded copper to derive **$780M** in salvaged value while clearing the way for fiber at scale.

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