RAMTeCH

System-Wide Data Management for an American Multiple System Operator

DM
Data Management

AT A GLANCE

CLIENT CHALLENGES

- Different and non-unified fiber and coax design processes that vary by market
- Posting of designs is cumbersome and inconsistent leaving incomplete and dated records
- Design applications not capable of integration with Esri's ArcGIS System

CLIENT BENEFITS

- Creation of a single Esri- and Schneider-based fiber and coax network design environment, report generation, and task automation
- Customized Fiber Favorites and Coax Catalog to accelerate the design and validation process as well as enforce standards
- Successful pilot that ensured continuity and continual improvements for all markets

Business Need

A large American telecommunications multiple system operator, that serves nearly 2 million homes and businesses, was looking to support its future state of a combined fiber and coax design through a single enterprise Esri GIS environment. RAMTeCH's Data Management team was chosen to perform a highly complex set of tasks that encompasses migrating, converting, and conflating its system-wide fiber and coax data from its legacy non-Esri system to its future state Esri and Schneider Fiber Manager and DHFC data format. The end goal is to deliver a comprehensive unified fiber and coax database that will enable its engineering design from a single enterprise GIS environment that will drive efficiencies in engineering and network management.

RAMTeCH Solution

On a market-by-market basis, RAMTeCH is executing a system-wide migration, conversion, and conflation in the following four steps:

1. Data and landbase for each market are being prepared for the data process
2. Legacy data is being migrated to Esri with augmented conversion
3. Migrated and converted data is being conflated to the imagery
4. The networks are being spliced in DHFC directly to establish the desired telephony environment

In addition to the data management services listed above, RAMTeCH is also supporting the customization of our customer's DHFC and Fiber Manager applications by creating a DHFC catalog and Fiber Favorites. This enables our customer's users to leverage established fiber and coax equipment templates for faster design and posting.

Results

Commencing operations in mid-2022, RAMTeCH's Data Management team continues to meet the demands of the complex work and schedule which is on track for completion in mid-2024.