

CYIENT

DIGITIZING TELENET'S NETWORK INVENTORY

How we work with our clients to help overcome challenges
for a better tomorrow



Overview

Telenet Group is a part of Liberty Global and the largest provider of cable broadband services in Belgium, providing digital cable television, fixed and mobile telephone services. Telenet offers quadruple-play services consisting of video, broadband internet, and fixed-line telephony as well as mobile voice and data services to over 4.8 million service subscribers represented by 2 million customers.

The Challenge

With the increase in subscribers and service offerings, their network is always expanding. Telenet was looking for intelligent ways, using the latest technologies, to update and maintain their disparate network data types to manage this ever-increasing network size and improve the service delivery.

In addition to managing the network data, Telenet was required to comply to the Flemish SFI Decree and realign its network data to the current digital map, which is now a regulatory requirement for the utility and telecommunications service providers throughout Flanders.

Telenet initiated the Digiful program to realign their coaxial and fiber network data and all relevant structures and devices against the Flemish large-scale reference database, as per the Belgium government's regulatory requirements (GRB).

To achieve this, Telenet needed to digitize or migrate over 200k infra scans covering 5 million assets across Belgium. This involved the transformation of assets in a variety of formats within a tight timeline and at the required levels of quality necessary to meet the regulatory requirements and deadlines.

With a strategic focus on digitizing and migrating the assets for the majority of Belgium within this short period of time, Telenet wanted to engage an established partner who has comprehensive experience and technical expertise in network inventory management.

Cyient's Solution

To support the objectives of the Digiful program, we focused on digitizing and migrating Telenet's network infrastructure data and aligning it to the new GRB landbase. To do this, we referred to scans and source network data in many internal systems, including GeoTev (for coaxial) and GE Smallworld (for fiber).

We also consolidated the previously separated fiber and coaxial data and provided a complete set of connectivity and associations necessary to support an enhanced inventory planning and recording environment. We conducted the project in four phases:

Phase 0 – Consultancy on E2E Inventory Management: Covering landbase, network data, processes, and systems. This involved 'as-is' and gap analysis, definition of 'to-be' solution, a consolidated data model, and a roadmap with recommendations for the Digiful program implementation.

Phase 1 – E2E Digitization Process and Creation of Rule Base: Establishing the end-to-end digitization and migration process and creation of the rules base to support the Digiful program, including ongoing data governance



Phase 2 – Proof of Concept: Testing the process defined in Phase 1 and customizing tools for the completion of the digitization of sample network data (both fiber and coaxial)

Phase 3 – Production: Processing of Telenet's entire infrastructure network data covering both fiber and coaxial networks

Phase 4A – Delta Data Update: Updating the changes from the field that were accumulated during the production phase

Phase 4B – BAU (Regular As-Built Data Updates): Ongoing data changes from the field, as a part of the continuous data maintenance activities

We provided an end-to-end solution; we not only delivered a fully digitized network inventory (both fiber and coaxial network and features) ahead of program timelines, and of superior quality, but also helped Telenet to define and optimize the overall program.

Our core strengths in the communications industry and domain insights, particularly the interplay of GIS data management, network inventory, and business processes, were put to optimum use. Best practices in process framework consulting, large and complex program management, quality assurance, and our global delivery model were key to the success of this project.

Key Business Benefits

We have been engaged in this project for over two years, working closely with Telenet. With our solution we have:

- Ensured early regulatory compliance – Flemish SDI Decree
- Maintained the data quality at more than 98%
- Efficiently managed network infrastructure data by leveraging our ability to manage all network types within a single environment
- Prepared Telenet to be future-ready by setting up a framework for future expansion of business, with scalable network data management processes
- Enabled early project completion through consistent and close monitoring, reporting, and stakeholder communication

In the course of the last two years, Telenet has additionally benefited from the project. To provide us consistent and high-quality source data, Telenet had to unify and globalize their own procedures and guidelines, which previously showed significant regional disparities.

About Cyient

Cyient is a global provider of engineering, manufacturing, data analytics, networks and operations solutions. We collaborate with our clients to achieve more and shape a better tomorrow.

With decades of experience, Cyient is well positioned to solve problems. Our solutions include product development and life cycle support, process and network engineering, and data transformation and analytics. We provide expertise in the aerospace, consumer, energy, medical, oil and gas, mining, heavy equipment, semiconductor, rail transportation, telecom and utilities industries.

Strong capabilities combined with a network of more than 13,100 associates across 38 global locations enable us to deliver measurable and substantial benefits to major organizations worldwide.

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