



Development of Innovative Conflation or Positional Accuracy Improvement (PAI) tools

CASE STUDY : UTILITIES

Development of Innovative Conflation or Positional Accuracy Improvement (PAI) tools

Improved positional accuracy through 99.89% accurate update of 6 million geo-spatial features

Infotech successfully processed and delivered all the network data at an average accuracy of 99.89% exceeding the requirements and expectations of the client.

Business Case

The client, a major UK energy utility, had updated the Ordnance Survey maps, which led to a positional inaccuracy of 13 meters in the client's gas network. This discrepancy was posing a major threat to the client's employees and general public.

The client was pressed into initiating a program to improve the positional accuracy of their network. The project required updating over 6 million geospatial features stored in an enterprise Geo-Database.

Expertise

Infotech's Conflation/PAI solution for the client was devised after due consideration on the PAI process, tools and methodologies. This minimized the project impact on the client's operations, while ensuring fast delivery of high quality data

Infotech performed updates on 'live' data with minimal effect on the day to day business of National Grid.

Deployment of Infotech's innovative tools and applications such as the PAI editor, Workflow Manager, Query Management Systems and QA tools automated processes and facilitated faster production while achieving the highest quality.

Re-engineered data to high accuracy that countered our client's business risks and threats

Benefits

Improved data quality through consistency in absolute accuracy and seamless access across a multitude of datasets

Enhanced safety and environmental performance

Centralized database for providing accurate data for market analysis, network planning, design, operations, outage restoration maintenance and customer care leading to increased productivity and reduced cost over time

Significant reduction in cost because of Infotech's innovative solution facilitating automation of the data improvement process

Project Details

All datasets were loaded into ESRI ArcGIS and the geo-database topology was inspected for all features.

Infotech's innovative Workflow Manager application was used for efficient and fast data processing wherein the relationship between the old and the new OS landline data, and entities were recorded.

The network data was then realigned against the post-PAI map using sophisticated third party PAI tools as well as manually by a dedicated team of skilled resources

The solution was integrated with the rest of the corporate systems in a centralized Oracle ESB SOA-based environment.

About Infotech

Infotech Enterprises provides leading-edge engineering solutions, including product development and lifecycle support, process, network and content engineering to large organizations worldwide. With nearly two decades of continuous growth and profitability, we leverage our "Global Delivery and Collaborative Engineering Model" to achieve measurable and substantial benefits. We help you for our clients, right from day one of any engagement.

To put it simply, whether you need to design innovative products faster, optimize your R&D costs, increase your market-share, enhance your operational efficiency or maximize the return on investment in your networks, Infotech Enterprises is the ideal partner.

Headquartered in Hyderabad, India, Infotech Enterprises is a leading global engineering services and solutions company with 8,000+ associates across 30 global locations. We adopt a consultative and proactive approach to serve our clients worldwide with our best-in-class delivery centers in North America, Europe, Middle East and Asia Pacific regions. Our clients operate in different industrial verticals such as Aerospace, Rail, Heavy Engineering, Semiconductors, Telecom, Utilities and Energy and include 22 'Fortune 500' and 27 'Global 500' blue chip organizations across the globe.

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