



# Reference Case N.V. Elmar



## About N.V. Elmar

N.V. Elmar is the sole distributor of electricity on the island of Aruba with over 38,000 clients. Elmar's high voltage infrastructure consists of almost 450 km of underground 60 and 12 kV cables, and about 180 km of 12 kV overhead distribution lines, while the low voltage grid consists of 460 km underground and 765 km overhead. Elmar started a project to document all of these assets into a corporate GIS, GE Smallworld to better track their assets and improve the maintenance of their network. Additionally after data collection Elmar needed the ability to view and edit the mapping data in the field.

## The Solution

To populate its corporate GIS database Elmar turned to Tensing Mobile GIS to capture asset data in the field. Tensing Mobile GIS is the mapping solution for the viewing, editing, and acquisition of GIS and mapping data in the field. With Tensing Mobile GIS Elmar was able to complete data collection quickly and efficiently using laptops and GPS sensors. Field technicians would go to the location of an asset, read the GPS location of the asset and automatically map it in Tensing Mobile GIS on the laptop. The data was then reconciled with the corporate GIS using Tensing's extractor module, Tensing Gateway.

With completion of asset documentation into the corporate GIS, Elmar continues to use Tensing Mobile GIS to update their GIS data, view maps in the field, acquire additional data, and plan new asset deployment in the field. Tensing Mobile GIS eliminates the need to for paper maps which are costly and cumbersome to maintain and distribute.

Elmar's field technicians always have the latest GIS data at their finger tips with Tensing's extractor module, Tensing Gateway. When laptops are docked or linked with a network, the mapping data is automatically updated. Updates are incremental,

dramatically reducing the bandwidth necessary for each update.

"We now have the ability to not only execute data capture in the field but also provide our crews with the most up to date information about our network as well," said Alfred Rafine of NV Elmar. "The fast update process with Tensing Gateway allows us to update field data twice a day. The implementation of Tensing Mobile GIS has been a great success and proven extremely cost effective."

An important issue for Elmar was the quality assurance and quality control of the data coming in from the field. Tensing Gateway allows captured data to be directly updated in the GE Smallworld repository with or without user intervention, depending on the customer's preference. This feature gives Elmar the ability to maintain their data quality standards by restricting the direct update of data.

## Delivered Products

- Tensing Mobile GIS;
- Tensing Gateway.

