Tank Monitoring System

I maintained an ISAPI web application written in Delphi for a valued client. The application allows for the client to provide its agriculture industry customers with an optimal chemical inventory level. The software uses a web interface to enter information about the customer's tanks in a database. In addition to the web interface, the application receives the level of chemicals remaining from sensors in the field. The information is used to alert the client's customers about low tank levels and refill their tanks in a cost efficient manner.

System Accomplishments:

- System is capable of saving client's customers up to 40% in inventory management costs.

- Client's tank monitoring program currently has in excess of 18,000 active units across 49 states and 3 countries providing automatic measurement and communication of liquid levels in bulk tanks regardless of location.

- Internet telemetry that provides the basis for moving data quickly so that timely data is available for improved supply chain management.

System Components:

- Delphi ISAPI Web Server Extension to receive data reports from the field and transmit site configuration settings to the system.

- HTML/Javascript Delphi ISAPI web interface to allow client to view and change site configuration, report rates, etc.

- Delphi Win32 Service to poll for reports and transmit configuration settings using an API for satellite communication required by customers connected with satellite systems.

- ODBC/ SQL Database connection for storing reports and configuration settings in the client's database.