

## WFM Cypress Solutions Overview

### About Alliant Energy

Alliant Energy Corporation (NYSE: LNT) is a regulated, investor-owned public utility holding company headquartered in Madison, Wisconsin. Alliant Energy's two regulated utilities include Interstate Power and Light Company (IPL) and Wisconsin Power and Light Company (WPL). The public utilities generate and distribute electricity to approximately 1 million customers, and purchase and distribute natural gas to approximately 400,000 customers. IPL serves gas to communities in Iowa and southern Minnesota; while WPL serves the state of Wisconsin.

Alliant Energy's service territory covers 54,000 square miles in the heartland of America and includes 9,700 miles of electric transmission lines and 8,000 miles of natural gas main. The company maintains a strong fleet of fossil fuel and renewable generating facilities across the upper Midwest, generating more than 31 million megawatt hours of electricity each year.

### Workforce Management Project overview

The Workforce Management (WFM) project's initial scope was the WPL service territory. The long term plans are to roll out to IPL also. We have deployed 300+ mobile units for the WPL deployment. We anticipate an additional ~600 mobile units for IPL.

The Workforce Management project selected and deployed ClickSoftware to support the following objectives:

- Automated vehicle location
- Automated crew/resource dispatch
- Optimized routing of the mobile workforce
- Ability to complete work from the field

ClickSoftware offers a mobile workforce management solution that includes automated and optimized scheduling, real-time mobility, real-time and historical reporting and location-based services.

Additionally, the project selected and deployed Cypress Solution's Chameleon modems and Planet AVL software to provide the needed GPS tracking to support Automated Vehicle Location.

## Project Approach

After reviewing communication options which included Alliant Energy's private radio system, we opted to use cellular communications for WFM. One of the criteria from our Telecom and Security teams was a hardened modem external to the Panasonic Toughbook we have deployed as the mobile client. In researching options, our Telecom team learned of Cypress Solutions which had incorporated US Cellular UM185 air cards into their GPS enabled Chameleon modems. Cypress Solutions also provides their "Planet" AVL solution with the purchase of Chameleon modems. This capability allowed Alliant Energy to host the AVL solution in house vs. being reliant on a third party AVL solution provider.

Cypress Solutions initially loaned modems and peripheral equipment such as Antenna's, AC/DC Power supplies, Industrial Wi-Fi Access Point, and Engine Vehicle Diagnostic Transmitter for evaluation. Even before we had purchased anything, their willingness to help us understand and set the proper modem configuration, explaining parameters, etc. has been a great help to the project. Their Technical staff has been excellent responding to questions and assisting with troubleshooting.

We have installed Cypress's Planet and GPS packet Web receiver as part of our overall AVL solution. Planet and the GPS Web receiver have been trouble free since installation.

The Project has been very pleased with the support from Cypress Solutions and wishes them continued success.

I've included a couple of pictures depicting an installed antenna and the Chameleon modem for reference.

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