



End User: Naval Air Station Pensacola (NASP)

Location: Pensacola, FL

Integrator/Supplier: Edison Automation, Inc.

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Introduction:

Edison Automation, Inc. was established with the express purpose of being the premiere Automations Solutions provider in the Southeast, offering a wide array of high quality automation products and supported valued-added services. Edison represents the most comprehensive knowledge base of industrial automation technologies and products in their market. **Edison Automation, Inc. has recently become the first ever company to obtain DNP programming certification from SIXNET.**

Scope of Project:

The Naval Air Station Pensacola (NASP) had an aging public works SCADA system using a proprietary system. Due to the failure rate, age, and proprietary nature, of this system, a newer system was needed to allow for better control and easier maintenance. As this system has to cover 3 bases all located around the town, the communications was a critical path to be resolved. This system had to monitor and control water pump stations, sewer pump stations, a water treatment plant, water reservoirs, water tanks, and all of the substations on the base. The SCADA system had to be able to open and close breakers and give real-time data feedback in a small amount of time. Kilowatt-Hour monitoring was installed at all breakers as well with real-time data trending for all breakers and main feeders. The communications protocol for this project was chosen to be DNP3 because of the reliability of the protocol, the wide variety of devices that support this protocol, and the widespread use of the protocol which would make for easy expansion of the system in the future

Solution:

The solution installed was the SIXNET mini-IPm using the DNP3 driver along with a Citect 6.10 SCADA package using MDS 4710 radios with 3 repeaters, one at each base around town. The system is able to monitor and control all the necessary pump, lift, and substations. By using the “report by exception” capabilities of the mini-IPm DNP3 setup, we were able to give phenomenal speed on the monitoring aspect of this project and still have plenty of radio bandwidth for doing actual control operations even though this is a serial radio system. Since the completion of the original project in March of 2007, several smaller expansion projects have been added to the original including the installation of a new substation being monitored and controlled by this system



Products Used:

Qty	Part Number	Description		Qty	Part Number	Description
60	VT-MIPM-131-D	Mini-IPm RTU				
20	VT-MIPM-241-D	Mini-IPm RTU				

Resulting Benefits:

By using the new system with the SIXNET RTU which uses standard programming and the DNP3 communications protocol, NASP now has a system that their own people can service without having to call for outside help to repair, modify, and or expand this system.