

2013 UTILITY TECHNICAL SYMPOSIUM SERIES

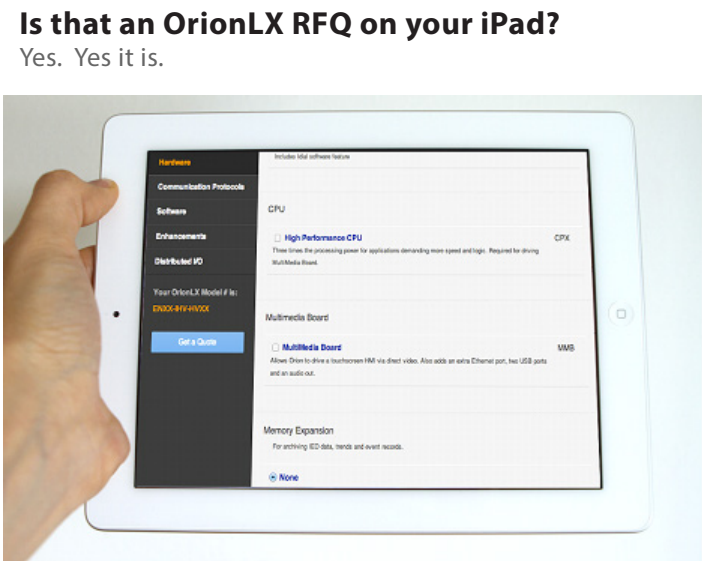
The 2013 Utility Technical Symposia are underway. This year's focus will be customer application papers and tutorials on Cyber Security, IEC 61850, IEC 61131-3, PRC-002 Recording and web-based SCADA and HMI. Certificates will be provided to attendees for the non-commercial application and training portion of each symposium; typically four to six hours.

Mark your calendars for these symposium in your area:
May 14 @ Middle Tennessee EMC, Murfreesboro, TN
July 9 @ DoubleTree Hotel, Overland Park, KS

Register for these and all events and classes online
<http://www.novatechweb.com/events/>

LATEST SOFTWARE

Orion5/5r Firmware Version: 1.41.0
OrionLX Release: 7.5
Orion NCD3 Version: 3.24
Bitronics M87x firmware and 70 Series Configurator: 4.01
Bitronics M57x firmware: 3.09
Bitronics 50 Series Firmware: 3.07
BiView: 3.03



Is that an OrionLX RFQ on your iPad?
 Yes. Yes it is.

The popular "Build Your Orion" feature on our website is now available for offline use on your iPad in the App store.

<http://www.novatechweb.com/ipad>

Bitronics® Enhances PRC-002 Offering

The Bitronics PRC-002 solution for Dynamic Monitoring Equipment (DME) is being enhanced with the addition of Wavewin Device Manager. This software can automatically extract waveforms, disturbance records, and trend files from Bitronics 70 Series IEDs via serial or Ethernet communications

periodically or on demand. Up to 2000 IEDs can be polled simultaneously, but product can also be limited to a smaller number of IEDs to scale the purchase to what is needed. Configuration of the devices and the polling is simple. Daily reports on the health of communications are also provided.

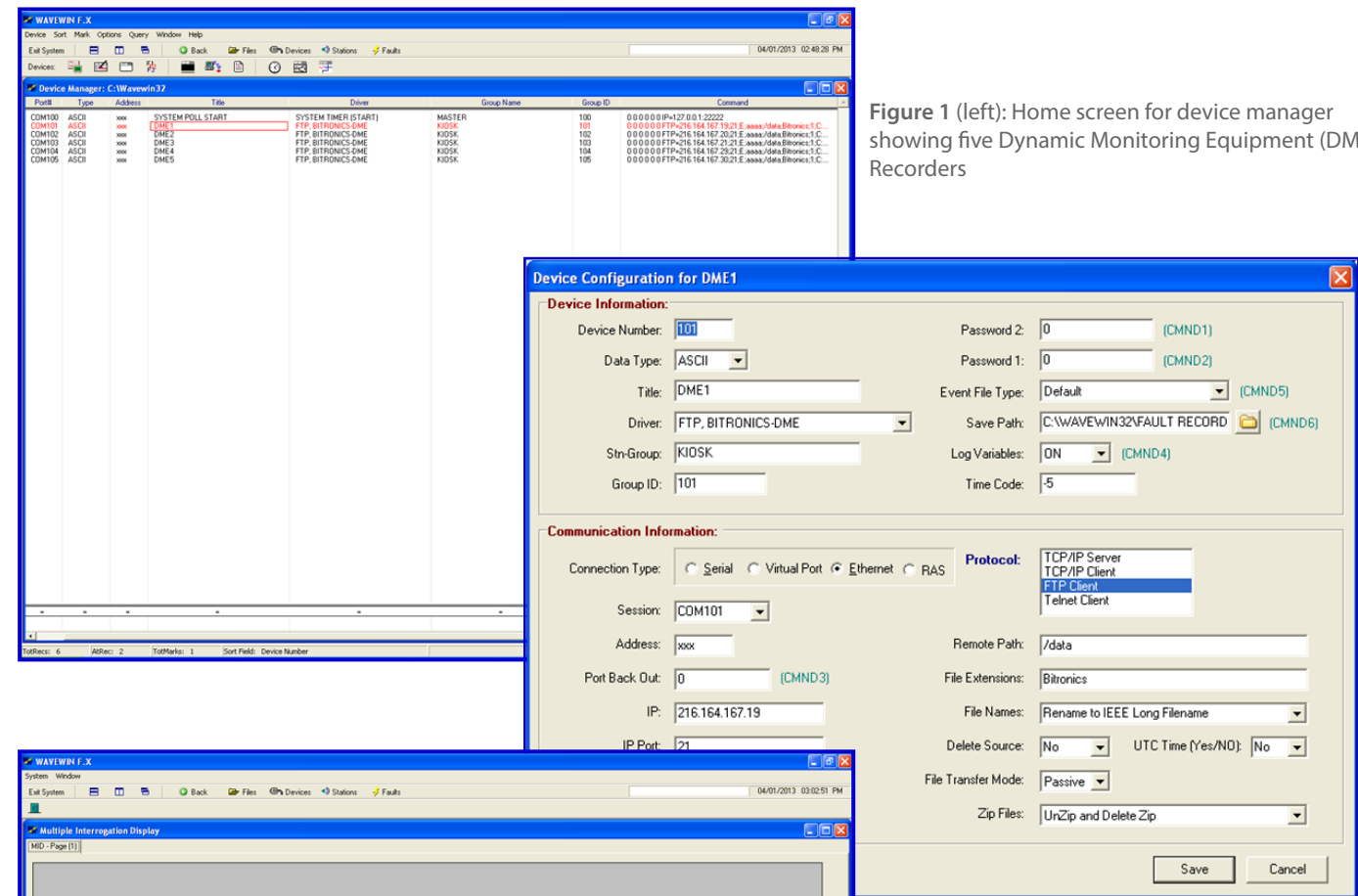


Figure 2 (above): Individual configuration of one of the devices

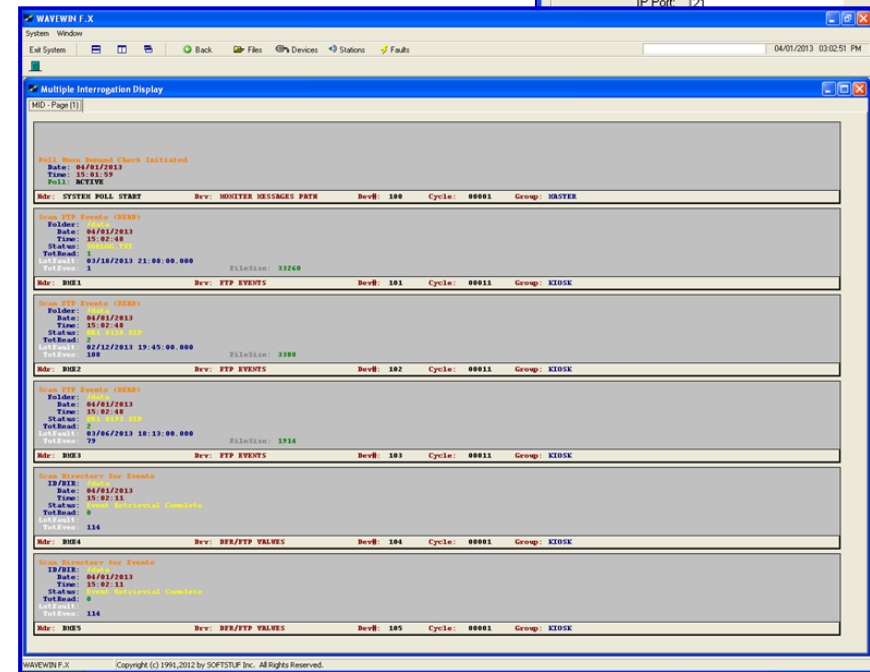


Figure 3 (left): Simultaneous polling of Multiple DME Recorders

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Island Style Energy Innovation

OrionLX Powers BioFuel Cogeneration and Floating “Power Barges” in Philippines



San Mariano, Isabela Ethanol Facility

The OrionLX has been deployed in two new applications in the Philippines that highlight the island nation’s fresh thinking in tackling its energy challenges.

The Philippines has abundant renewable energy sources, such as feedstock and hydropower, and are using them to fuel sustainable economic development. The OrionLX is being utilized in two such projects. The first is a sugarcane-based ethanol facility located in San Mariano, Isabela Ecofuel Agro-Industrial Ecozone. The facility has been developed by Green Future Innovations, Inc. (www.greenfutureinnovations.com) a newly formed venture among Japan’s Itochu Corp., JGC Corp., the Philippine Bioethanol and Energy Investments Corp., and Taiwanese holding company GCO.

The San Mariano, Isabela based facility produces 54 million liters of ethanol from an 11,000-hectare plantation annually, reducing the Philippines dependence on imported fossil fuels. The leftover bagasse and sugarcane residual produce 19 megawatts of power, 13 of which is sold back to the National Grid (NGCP), supporting the Luzon power grid. An OrionLX, DDIO and WEBserver HMI provide a local, low-cost SCADA system and support connections with the National NGCP and WESM (energy spot market) to enable them to sell in the generation market. Sugarcane growership contracts with 4,000 farmer families in



Floating Generation Plant, Navotas Fishery Port

Isabela create employment for 15,000 workers and will have a positive impact on the local community.

The other application involves the use of “Power Barges.” These floating generation plants, with a total capacity of 242MW, can be deployed to various locations around the islands to meet interim peak demand or to provide electrical power following storms that disable segments of the transmission grid. Previously owned by Duracom Power Corporation, this business was acquired by Therma Mobile Inc (TMO), a subsidiary of Aboitiz Power Corporation, in 2011 and rehabilitated to include state-of-the-art relays, Bitronics meters, and OrionLX Automation Platforms for communications and SCADA. Originally designed to operate only during peak hours, the barges have recently been tasked by the utility customer to supply power round the clock due to high demand during summer where Manila weather temperature goes as high as 35 degrees Celsius.

Four of its barges are docked at Navotas Fishery port at the heart of Manila and is connected to a nearby substation where another OrionLX resides to facilitate data exchange, Webserver HMI, Sequence of Events, event logging and connection to the grid.

CHECK OUT the latest NovaTech and Customer Presentations from Symposiums and Trade Events. One new addition is NERC Compliance Overview, presented at the ECNE Conference on March 15, 2013. This presentation summarizes some of the solutions being implemented to address emerging NERC CIP requirements. This premium member content requires site registration. <http://www.novatechweb.com/documentation-library/>

Focus: IEC 61850

Now Available on the OrionLX

Phase 1 of our IEC 61850 integration into the OrionLX is now available for purchase. This first phase includes IEC 61850 MMS Client and subscription to GOOSE messages. Phase 2 will include 61850 MMS Server and GOOSE Publish.

IEC 61850 Integration in NCD

During configuration, IED “CID” files become OrionLX “IED pick lists”, and points are simply dragged and dropped from a new expanding tree structure listing all available points from the IEC 61850 IED. Selected 61850 IED points can be presented to any supported Slave protocol such as IEC 60870-5-101 or DNP3.

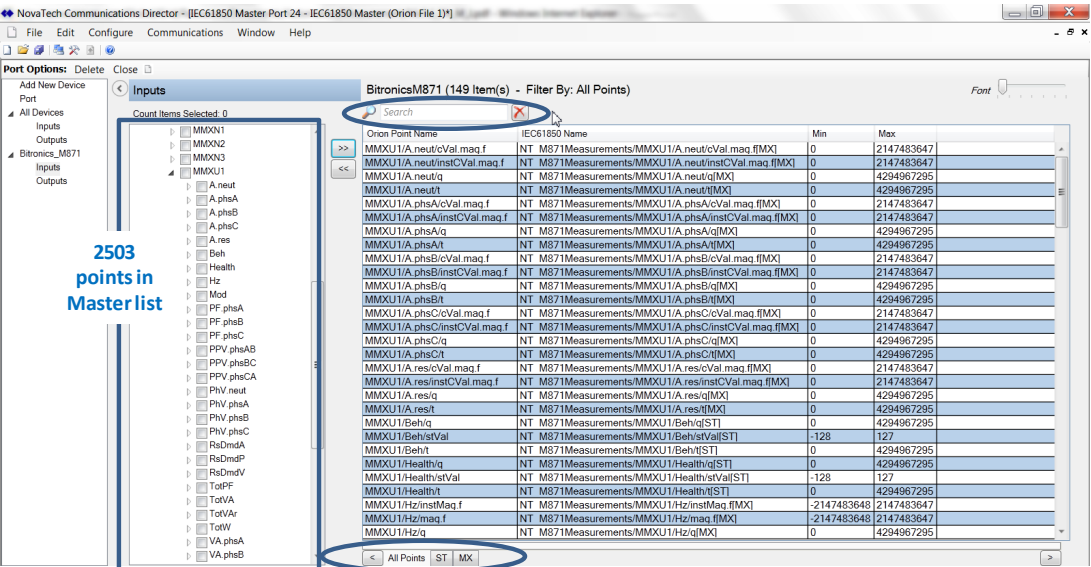


Figure 1: IEC 61850 Point Selection Screen in OrionLX configuration software (NCD)

Figure 1: Shows the points selected to be read from the Bitronics M871 Recording IED. In this case, 149 input points have been selected from the 2503 points available. A search function and “MX” and “ST” point filter simplify data management in large applications.

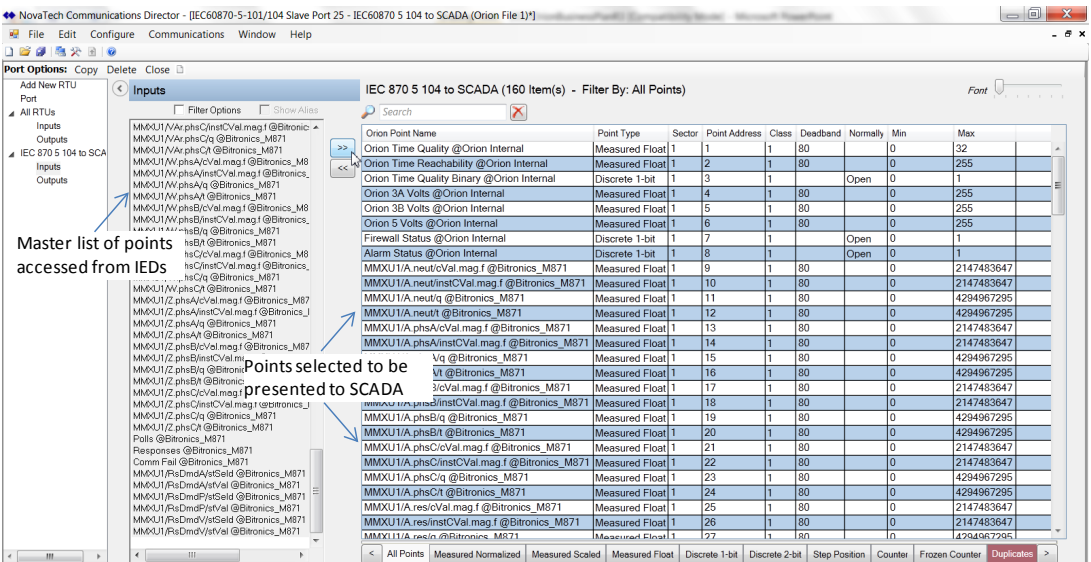


Figure 2: IEC 60870-5-104 SCADA Point Selection Screen in OrionLX configuration software (NCD)

Figure 2: Another NCD configuration screen showing the points selected to be presented to the IEC 60870-4-104 SCADA Master. The selected points include the points obtained from the Bitronics M871 IED (using IEC 61850) and also diagnostic OrionLX points.