



Corporate Communications  
11425 Cronhill Drive  
Owings Mills, MD 21117

FIRST CLASS  
PRESORTED  
US POSTAGE  
**PAID**  
WILKES-BARRE, PA  
PERMIT NO. 413

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## LATEST SOFTWARE

**OrionLX Release:** 8.7  
**Orion NCD3 Version:** 3.28  
**Bitronics M87x firmware:** v4.09  
**Bitronics 70 Series Configurator:** v4.09  
**Bitronics M57x firmware:** v4.09  
**Bitronics 50 Series Firmware:** v3.10  
**Bitronics 60 Series Firmware:** v2.08  
**Bitronics PowerPlex II Firmware:** v2.06  
**BiView:** v3.05

## UPCOMING TRAINING

**OrionLX / OrionLXm Automation Platform**  
December 8 - 9, 2015

To register for this upcoming class or to schedule a training class at your facility, please visit our website.

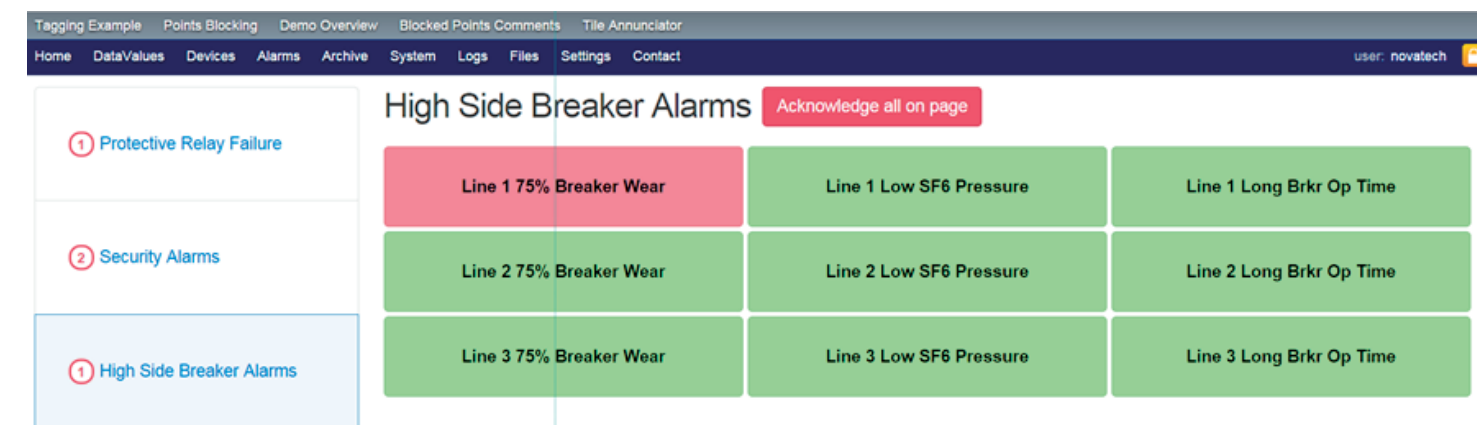
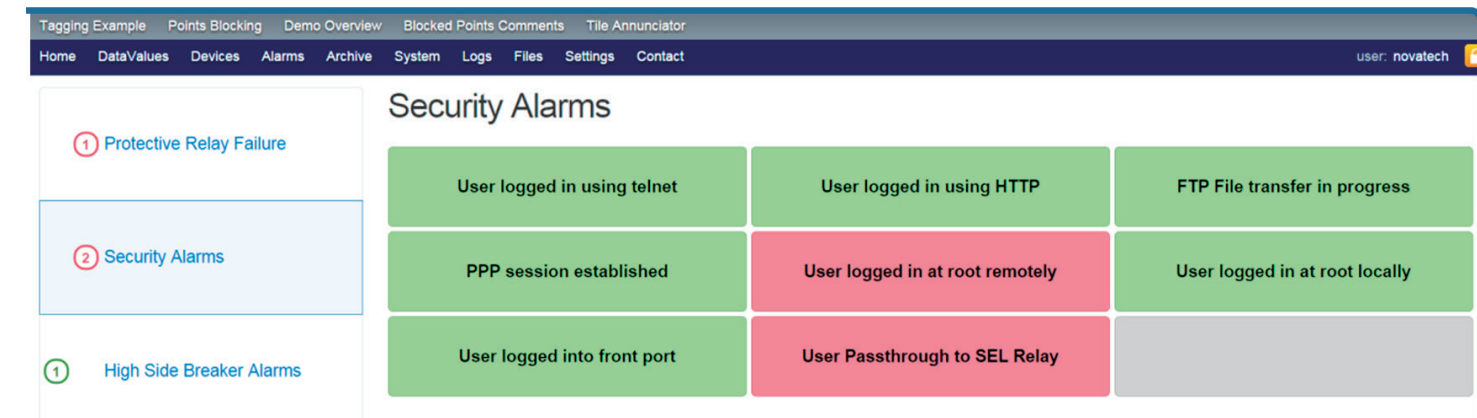


Jeremy Anderson presenting on NERC CIP solutions at the Arkansas Users Group meeting.



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## New Tile Annunciator for OrionLX



Improved categorization, visibility, and operator response to substation alarms are now possible with the new Tile Annunciator for the OrionLX. As an optional extension to the Alarm-Archive feature on the Orion, Tile Annunciator introduces graphical tile-based display of alarms on multiple pages. The number of rows and columns on each page are user-definable, as are tile names. The two captures above show “Security Alarms” and “High Side Breaker Alarms” pages.

**More information can be found  
on the NovaTech website at:  
[www.novatechweb.com/tileannunciator/](http://www.novatechweb.com/tileannunciator/)**

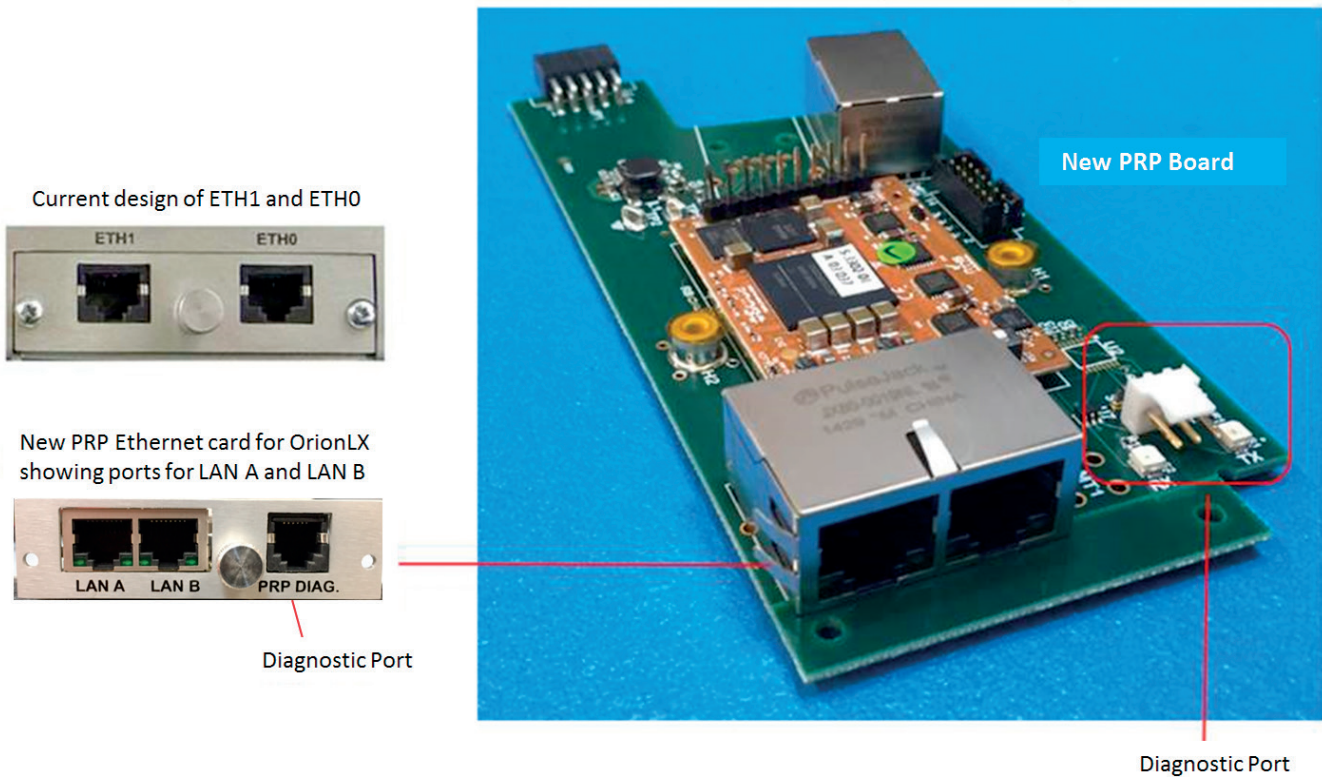
### Features:

- Up to 60 alarm tiles per page, up to 24 pages. Total 1440 alarms.
- Tiles can be assigned either an Alias name or user-defined name.
- Simple set-up in NovaTech Configuration Director (“NCD”).
- Tile Annunciator can be easily added to an existing OrionLX CPX or OrionLXm running Alarm-Archive-Retentive (AAR).
- Time-stamping to the precision of the point source, usually 1mS.
- Alarm history provided.
- Alarm state retained through power cycling.
- User-defined alarm ON message and alarm OFF message.



## New Redundant Ethernet for OrionLX

Parallel Redundancy Protocol or “PRP” is now available on the OrionLX with High Performance CPU (“CPX”). PRP is available as another Ethernet option on the OrionLX and can be retrofitted on existing OrionLX CPX units without a firmware upgrade. With PRP, Ethernet messages are transmitted over two parallel network paths. If either network fails, the message still gets through without delay. PRP is also protocol independent making it an excellent choice for enhancing existing automation designs. We worked closely with a utility partner to test our PRP design with SEL® relays that also support PRP and confirmed proper operation through various failure scenarios.



## Announcing Ten Year Warranty



The warranty on OrionLX and DxIO products is now ten years. This “no hassle” warranty covers any active OrionLX or DxIO product purchased within the past ten years.

## NovaTech Attends Interoperability Demonstration for IEC 61850



NovaTech was well represented at an intensive seven-day Interoperability Demonstration for IEC 61850 in Brussels, Belgium from September 26 - October 2. An international field of more than thirty different vendors participated including industry leaders such as Alstom Grid, Schneider Electric, Siemens, ABB, SEL, GE, NR Electric, RTDS, Omicron, Doble, Kalkitech, RuggedComm, SISCO, and Triangle Microworks.

NovaTech contributed three engineers to the Interop, one each specializing in Bitronics IEDs and Orion communications processors. The third represented the standards committee and working group 10, which arbitrates protocol-specific issues uncovered in the course of testing.

Testing was conducted between vendors and witnessed by non-vendor communications experts drawn from electric utilities, consulting firms, and ENTSO-E (the European Network of Electric TSOs).

Emphasis was placed on identification and resolution of interoperability problems, rather than the defense of any particular implementation. Tests were designed to reveal incompatibilities in client/server interaction, GOOSE publication and subscription, processing of sampled values, PTP, software tools, and compliance with standards.

OrionLX and OrionLXm were demonstrated as well as the full range of 61850-compliant Bitronics recorders and panel meters. This year's Interop featured the debut of 61850 Edition 2 implementation on the Bitronics M660 panel meter and PowerPlex II transducer.

The IEC 61850 Interop is held every alternate year and allows vendors to come together and test their equipment with others in a controlled setting.

“Experience has taught us that conformance testing alone is not adequate to ensure interoperability between all the elements that comprise a modern power delivery system. So rigorous interoperability testing between vendors is invaluable to the further development of standards and practices.”

-Bruce Muschlitz  
Chairman, UCAlug Testing Subcommittee