



Monthly Progress Report

Providing technical, program and event updates to supporters of CEIDS

SEPTEMBER 2004

CEIDS NEWS

- ***Our Intelligrid Architecture (aka IECSA) got it right!*** During the CIGRE conference in Paris, an initial example of system interoperability was actually presented by UCA International. Utilizing IEC 61850, the virtual substation was created showing communication capabilities between different equipment manufactured by different vendors. Equipment built by GE, ABB, Areva, and Siemens were “talking” to each other using the common communication bus and associated protocol. Needless to say, our Intelligrid Architecture project is advocating the same approach only on a much broader scale and for more diversified applications.
- ***CEIDS name becomes known worldwide!*** During the CIGRE conference in Paris (over 2,000 participants from all continents), CEIDS staff members made formal presentations, and contributions to specific technical committees. Aty Edris presented his power electronics-related work conducted under CEIDS, Don Von Dollen presented our work to Information Systems and Telecommunications for Power Systems study committee, Marek Samotyj made two contributions: one to Electricity Markets and Regulations, and to the Protection and Automation working groups. All contributions are now part of conference’s permanent record. Marek and Don were assisted in their preparations by EDF loan-in engineers: Ivan Bel, Anne-Lise Didierjean, and Oliver Huet.
- ***Facilitating understanding and identifying applications.*** Interest among Partners in using the results of the Intelligrid Architecture project continues to be high and very active. Don Von Dollen and GE’s Mark Adamiak conducted a workshop for the Polish Power Grid Company. Subsequently, Don, EPRI’s Joe Hughes, and Enernex’ Erich Gunther conducted a workshop at Long Island Power Authority attended by KeySpan technical personnel. It was the second workshop conducted at LIPA narrowing the field of potential applications where our results can be utilized.

Distribution Vision 2010 and We Energies

DV2010™ (Distribution Vision) LLC is a consortium of electric utilities with a common goal of designing an electric distribution system that will enable significant improvements in system reliability and electric power quality for end-users by the year 2010. This will be accomplished by using expected state-of-the-art technology, operational techniques and communication systems that will result from R&D initiatives conducted by equipment manufacturers under the guidance of consortium members. The intent is to accelerate the time it takes to bring new products to market through this cooperative product development approach. With these advances, cost and performance limitations of existing distribution network concepts will be overcome. We Energies is spearheading this exciting initiative and is coordinating it with CEIDS projects such as the one on Distribution Fast Simulation and Modeling.

TECHNICAL PROGRESS

Integrated Energy and Communications System Architecture

- *Recommendations approved!* The project team completed an “in depth” review of the entire product for this project that included references to proprietary products and for the appropriate use of URL links and references. The documents are available on the E2I website at www.e2i.org/e2i/ceids/technical/iecsa/IECSA.html
- The prototype website is being revamped to provide better navigation and access in the future.

Open Communications Architecture for Distributed Energy Resources in the Distribution Automation Project

- *Help from Partners in ADA and DER is still needed!* The IEEE, P1547.3 Working Group met on August 3-4, 2004 to critique Draft One. Much more writing and consensus building is essential to get this document ready for a ballot. A new section team was created to review the standard clause-by-clause to determine what monitoring, information exchange and control needs may be associated with each clause. All CEIDS members are urged to assign a member to join this working group and to identify additional members. Please contact Frank Goodman for additional information at fgoodman@epri.com.
- *SPAG (Strategic Project Advisory Group) Kickoff!* Participation is underway for the SPAG meeting in September. This group coordinates the activities of all the working groups under TC-57. Frank Goodman, project manager, requests that CEIDS sponsors provide domain information on existing DER object model standards currently in use by the industry. The information is vital in the writing the international DER object model standard. Please contact Frank Goodman if you have any information at fgoodman@epri.com.
- *Opportunity Notice for Test Hosting Team Bids!* On September 17, a notice seeking volunteer teams willing to support the next phase of testing the draft object models was sent to a list of parties who had previously expressed interest. The notice will also be posted on the CEIDS website at www.e2i.org/e2i/ceids/technical/DER.html

Fast Simulation and Modeling

- *Work on High-Level Requirement Specifications continues!* Detailed specifications for the 5-minute, 1-minute, and 2-second cycles were completed. The specifications for the

Check Us Out!

We will be talking about CEIDS at the following conferences:

Energizing the Northwest, Today and Tomorrow

Organized by Bonneville Power Administration
September 28-29, 2004
Doubletree Hotel
Portland, OR

EPRI Power Delivery and Markets Advisory Meetings

September 27 – October 1, 2004
InterContinental Hotel
Miami, FL

IEEE Power Engineering Society's 2004 Power Systems Conference & Exposition

October 10-13, 2004
Grand Hyatt Hotel
New York City, NY

PowerSystems World

November 16-18, 2004
The Navy Pier
Chicago, IL

First International Conference on the Integration of Renewable Energy Sources and Distributed Energy Resources

December 1-3, 2004
Marriott Hotel
Brussels, Belgium

CIRED, 18th International Conference & Exhibition on Electricity Distribution

June 6-9, 2005
Lingotto Conference and Exhibition Centre
Turin, Italy

other cycles (1-second, 100-millisecond, and 10-millisecond) were drafted.

- *The T-FSM Workshop is fast approaching!* Mark your calendars and invite your colleagues to this one-day T-FSM Workshop on Tuesday, October 5 at the EPRI Auditorium in Palo Alto. Meeting participants will be sharing their expertise on the state-of-the-art of real-time control of the power grid. For additional information, please contact Peter Hirsch, project manager, at phirsch@epri.com.

Consumer Portal

- *Greg Adams, Salt River Project*, is taking the lead on activities that may coordinate the development of a “prepay program” and a new “automatic meter reading program” for inclusion in the Consumer Portal project.
- *Check the CEIDS Calendar!* An abstract was submitted on the Consumer Portal project for the CIRED 2005, 18th International Conference & Exhibition on Electricity Distribution scheduled for June 2005.
- *Maintaining a presence at the IEEE meetings!* Anne-Lise Didierjean and Rick Counihan attended a local IEEE meeting discussing demand response activities in California.

If you need more information or have comments, please direct them to Marek Samotyj at marek@e2i.org or 650-855-2980. Details of CEIDS activities calendar can be found on www.linkify.com, CEIDS Updates/Mark Your Calendars folder.

About E2I

The Electricity Innovation Institute (E2I) is a non-profit, public-benefit organization designed to conduct strategic, breakthrough R&D in electricity-related science and technology. It is affiliated with, and draws upon the technical expertise of EPRI, which has 30 years of experience conducting research on the electric generation and delivery system. Through the creation of public/private partnerships (including industry, federal and state governments, and foundations), E2I in collaboration with stakeholders, supports and directs science and technology innovation in electricity supply, delivery, and utilization.

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