IN THE SPOTLIGHT

The 3rd **EPRI Telecommunications Initiative Advisory Meeting** was held April 4 and 5 in New York City. Many thanks to Con Edison for being our host.

During the meeting, members received an update project status and schedule, reviewed milestones, and discussed future plans and priorities for a new Telecom Project Set 161G in 2018. During the two days of meetings presentations and updates were given by EPRI staff, utility members, and invited speakers covering seven topics:

> *Serial-to-Packet, Private Wireless, Commercial Cellular and Shared Networks, Strategic Fiber, Connectivity at the Edge of the Grid, Network Management and Reliability Metrics, and Telecom Roadmap and Planning Framework.*

There were also optional tours of the Verizon Network Operations Center in New Jersey and the Consolidated Edison Learning Center.

The next EPRI Telecommunications Initiative Advisory Meeting will be October 3 and 4, 2017, in Akron, Ohio, and will be sponsored by FirstEnergy.

Three Telecom workshops remain in 2017:

1. April 27 – 29: **The Telecom Roadmapping Workshop**, hosted by DOE in Washington, D.C.
2. August 1 – 2: **The Wireless Testing Workshop**, hosted by Southern California Edison in Westminster, Calif.
3. August 30 – 31: **The Strategic Fiber Workshop**, hosted by Seattle City Light in Seattle.

For more information regarding the Telecommunications Initiative follow this link or contact Tim Godfrey, Project Manager (tgodfrey@epri.com), Christine Hertzog, Technical Advisor - West (chertzog@epri.com), or Chris Kotting, Technical Advisor - East (ckotting@epri.com).

Upcoming Events

May 17 – 18
EPRI 2017 European Advisory Meeting, Information
Amba Hotel Charing Cross, London

June 19 – 22
EPRI Grid Analytics and Power Quality Conference & Exhibition 2017, Information/Registration
Sheraton, Sacramento, Calif.

September 11 – 14
2017 Fall PDU Advisory & Sector Council Meetings
Hyatt Regency, Denver, CO
Event Summary
Advisors: Hyatt Link
EPRI Staff: Embassy Suites

Week of October 23
Enterprise Architecture Training Course
EPRI Charlotte

P161 Meetings & Webcasts

P183 Meetings & Webcasts

Announcements

Congratulations to Paul Myrda, for receiving the IEEE PES Technical Committee Prize Paper Award for Advancements in Centralized Protection and Control within

Cyber Security Birds of a Feather Workshop

The second annual **Cyber Security *Birds of a Feather* Workshop** was held April 4 and 5, at SCANA Corporation in Columbia, South Carolina. This one-and-a-half-day workshop focused on cyber threat management and incident response and was attended by folks from several utilities that are members of the EPRI Cyber Security Program (Program 183).

Day One included an intriguing, in-depth tour of the SCANA Integrated Security Operations Center (ISOC) and forensics lab, along with a discussion session led by Andy Bowden, SCANA director of Cyber Security, covering details of the programs and processes utilized in the ISOC. Additionally, EPRI moderated sessions with panelists from member utilities on the topics of cyber threat hunting and cyber forensics.

On day 2, personnel from Sierra Nevada Corporation provided a demonstration of its Binary Armor product which is part of the incident response test bed in the EPRI Cyber Security Research Lab. Also, Steve Sanders, principal cyber security architect from Southern Company, provided an update on the implementation of the solution that was tested in the EPRI lab as part of the Integrated Threat Analysis Framework (ITAF) project.

The workshop resulted in significant collaboration among members of the program and meaningful technology transfer opportunities. EPRI would like to thank Andy Bowden and Robert McKie from SCANA for hosting the event and providing excellent insight into its cyber security program.

The March issue of the EPRI Journal is now available.

EPRI's Technology Innovation: Looking at The Future, Today – maintaining a full pipeline of new knowledge, advanced technology, and emerging breakthroughs to enable the energy future.

SPOTLIGHT ON DELIVERABLES

Information and Communication Technology (ICT) (161)

CIM Identities Data Entry, version 1.0 - 3002009989

Top Ten Indicators of Enterprise Architecture (EA) Maturity – 2016 Results – 3002007895

Use Case Importer Extension (UCI), version 0.9.0 – Software – 3002007875 This is an extension to the Sparx Systems Enterprise Architecture application, which will import a use case that has been documented using the EPRI

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a Substation, published in the IEEE Transactions on Power Delivery, Vol 31, No. 4, August 2016.

EPRI's Annabelle Lee, Principal Technical Executive, was interviewed by Nicolò Rossetto, from the Florence School of Regulation, about the U.S. perspective of Cyber Security in the Energy Sector. Listen to the Podcast.

Ralph King contributed a commentary on the critical role of Integrated Security Operations Centers (ISOC) to utilities. The **Electricity Today** article noted that ISOCs provide environment or equipment status indicators, as well as information gathering, analysis, alerting, and event response protocols.

Christine Hertzog, Brian Seal, and Ed Beroset collaborated on an article published in Electricity Policy | Electricity Daily *"A Roadmap to Ensure that Advanced Metering Infrastructure (AMI) Evolves to its Full Potential"*.

DMD/TMD Upcoming Events

June 22
    DMD Advisors meeting follows the EPRI Grid Analytics and Power Quality 2017 Conference & Exhibition
   Sheraton, Sacramento, Calif.

Intelligrid use case template. This extension automates data capture and drawing of UML behavioral diagrams based on the use case contents.

EPRI Enterprise Architecture Workshop Summary: September 2016 - 3002010016

CTA-2045 UCM C++ Library (LIBCEA2045 - OPEN), version 1.0 – 3002009782

Cyber Security in the Energy Sector - Recommendations for the European Commission – 3002010341
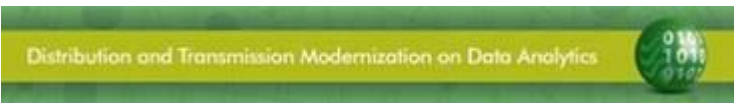
Data Analytics Initiative for Transmission and Distribution: Year Four Update - 3002009900

DMD

Distribution Modernization Demonstration Workshop for Data Analytics Projects - 3002006523

TMD

Southern Company Transmission Modernization Demonstration 2016: Transmission Monitoring, Diagnostics, and Visualization (TMDV) Tool – 3002009777

Supplemental Projects

Adaptive Substation Architecture for Supervisory Control and Data Acquisition, Tele-protection, and More

Distribution Geographic Information System and Grid Model Data Management

Increase Customer Satisfaction with Real-Time AMI Data