

Information, Communication and Cyber Security

IN THE SPOTLIGHT

[Program 161 – Information and Communication Technology 2018 Research Portfolio](#) is now available.

[Program 183 – Cyber Security 2018 Research Portfolio](#) is now available.

[EPRI PDU European Advisors Meeting](#)

EPRI hosted the first EPRI European Power Delivery and Utilization (PDU) Advisors Meeting in London on May 17th and 18th. Overall, it was a fantastic event made possible by our many contributors sharing global perspectives. If I were to share one key takeaway from my perspective, it's that - although there are some electric industry differences globally, overall, there is significant alignment on common challenges and opportunities to learn from each other and – *Together...Shaping the Future of Electricity*. [View all meeting presentations](#)

Three Reasons to Use the EPRI Use-Case Importer

To promote the standardization of use cases the EPRI created a use-case template [1]. The EPRI template has become codified in an International Electrotechnical Commission (IEC) standard, IEC 62559. This template enables the user to capture information associated with a use case in a text-based format that is then imported into a Sparx Systems Enterprise Architect application [2]. This modeling tool is used by the IEC and MultiSpeak communities to manage the data models and use cases associated with those standards. Importing the use case facilitates the creation of a use case repository. To read more about the three reasons to use EPRI's Use-Case Importer [click at this link](#).

The EPRI Use-Case Importer is available at:
<https://www.epri.com/#/pages/product/000000003002007875/>

EPRI's Telecommunication Initiative: Fiber Optics for the Future

Upcoming Events

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](#)

Check It Out

[Black Sky Communications Project Update Webcast](#)

The July 19 Black Sky Communications Project Update Webcast recording and presentation are available.

[EPRI's Micah Tinklepaugh Augmented Reality comment on LinkedIn receives 2,500 views and counting in 24 hours](#)

Read more on LinkedIn @
<https://www.linkedin.com/feed/update/urn:li:activity:6293076665593577472/>

[Augmented Reality - Major Themes in Enterprise Wearables Today: Easy IoT?](#)

John Simmins of EPRI described wearable technology as one side of a six-sided coin, which is a great

From Research to Action | EPRI's Telecommunications Initiative: Fiber Optics for the Future EPRI recognizes that today's power grids and advanced grid initiatives need reliable, resilient, flexible, and secure telecom networks. EPRI's Telecommunications Initiative is examining questions utilities have about fiber-optic networks as part of its six-part research investigation. Read the entire one-page article and find out more about the six-part research investigation by [clicking on this link](#).

EPRI's Telecomm Initiative: Taxonomy Providing Wireless Opportunities

From Research to Action | EPRI's Telecommunications Initiative: Taxonomy Providing Wireless Opportunities and Options by Tim Godfrey and Chris Kotting. The energy industry recognizes the need to improve the performance, reliability, and security of utility communication systems used for distribution automation, telemetry, and control. Currently there is no one architecture or technology solution that meets the needs of the industry, or even the entire operating area of a single utility. EPRI is developing a utility telecom wireless taxonomy that will guide utilities in framing telecommunication needs, help them understand the technology options, and inform the process of identifying architectures and systems that meet both current and future needs. Taxonomy is the practice and science of classification of things or concepts and helps people make sense of the things around them. Read the entire article by [clicking at this link](#).

SPOTLIGHT ON DELIVERABLES



3002009504, [Launching a Distribution Data Management Improvement Initiative: Utility Case Study](#)

3002009790, [A Case Study of the Quality of Service Feature from Commercial Cellular Carriers: The Impact of Quality of Service on Bandwidth, Connectivity, and Reliability Improvements at Ameren](#)

3002010451, [Smart Grid Communications Intelligencer: Issue 18, Spring-Summer 2017](#)

3002009800, [Telecommunication Network Management System Survey Report: First Edition](#)

metaphor for IoT. We are not talking about isolated "things" but rather multiple devices that need to interact and work as a system to provide context to the end user.

Read [The BrainExchange blog](#) update on this exciting technology.

EPRI's Annabelle Lee participated in the Utility Cyber Security Initiative (UCSI) Workshop in Kiev, Ukraine
[Read the summary here.](#)

New Technology Innovations Report: The Role of Digital Utilities in Smart Cities (3002011385)

This white paper describes a framework for how the digital utility can provide additional value for customers by leveraging existing ICT systems for greater public benefit. To download the full 7-page document [click here](#).

Can we clean energy data with Neural Nets?

Read more on how deep learning, neural networks and artificial intelligence can be used to improve accurate data for energy grids. Go to Micah's blog [here](#).

Using the Utility Common Information Model (CIM) is hard?

To read more about CIM and its usage go to Dr. Gerald Gray's article at <https://www.linkedin.com/pulse/using-utility-common-information-model-cim-hard-dont-tell-gray>

Architecting Distributed Energy Resource Communications

For more information, download the full publication [here](#)

3002009783, [Serial to Packet Protection Workshop: Test Results](#)

3002009785, [Leased Circuit Requirements Summary for Protective Relaying](#)

3002010514, [Program on Technology Innovation: Enterprise Augmented Reality Vision, Interoperability Requirements, and Standards Landscape](#)

3002011035, [Integrated Grid Pilot Projects Quarterly Update: Q1 2017](#)

3002009786, [Utility Telecom Taxonomy and Architecture for Field Area Networks](#)

3002009986, [EPRI Enterprise Architecture Workshop Summary: Review of Integration Costs and Architectures Project](#)

3002011054, [Utility Business Architecture Service Repository](#)

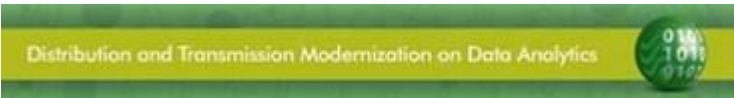
3002010000, [Grid Integration with High PV Penetration: Approaches for the Japanese Situation](#)

3002011195, [IEEE 802.16S Overview](#)



3002010421, [Security, Cyber, Risk Assessment Methodology \(SCRAM\), version 3.0](#)

3002011035, [Integrated Grid Pilot Projects Quarterly Update: Q1 2017](#)



DMD

3002011377 [Opportunities for Improving Data Efficacy: Leading Practices](#)



Together...Shaping the Future of Electricity

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Supplemental Projects

[Observer Version - Persistent Wi-Fi™ Platform for Connected Devices Demonstration](#)

[Participant Version - Persistent Wi-Fi™ Platform for Connected Devices Demonstration](#)

[Automating Distributed Network Protocol Point Tag Creation](#)

[Black Sky Communications Solution Evaluation](#)

[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](#)

DMD/TMD Upcoming Events

[DMD Meetings & Webcasts](#)

[TMD Meetings & Webcasts](#)



