

Meeting Minutes

March 25, 2015

Members

Ron Ambrosio, IBM T.J. Watson Research Center (remote)
Ron Bernstein, RBCG, LLC (Remote)
David Forfia, Electric Reliability Council of Texas (ERCOT)
Gerald Gray, Electric Power Research Institute (EPRI)
Doug Houseman, EnerNex
Stephen Knapp, Power Generations Services, Inc. (PoGens) (Remote)
Mark Knight, CGI
Heather Sanders, CA-ISO
Ken Wacks, consultant to Sensus Metering Systems Inc. (remote)
Carl Zichella, National Resources Defense Council (NRDC)

Members Not Present

Mark Kerbel, REGEN Energy Inc.
James Mater, Quality Logic
Tom Sloan, Kansas State Legislator

Members Emeritus

Erich Gunther, EnerNex, Corporation

Support – Pacific Northwest National Laboratory (PNNL)

Sherry Kowalski, PNNL
Ron Melton, PNNL

Speakers and Guests

Ed Cazalet, TeMix, Inc.
Phil Davis, Schneider Electric
Chris Villarreal, California Public Utilities Commission
Dave Wollman, NIST

Administrative

Welcome and Administrative Business

Ron Melton, GWAC Administrator

David Forfia called the meeting to order at 1:00 PM.

Ron Melton reviewed the agenda and read the proprietary information disclosure policy according to the bylaws to the GWAC members and guests.

Old Business

Ken Wacks updated the Council on the task of making the GWAC Interoperability Context-Setting Framework an international technical report.

- Recap
 - GWAC offered it to ISO/IEC as a Technical Report
 - Processed by ISO/IEC JTC 1/SC 25/WG 1
 - Working group on home and building systems that is chaired by GWAC member Ken Wacks
 - SC 25 secretary requested review by IEC TC 57/WG 21
 - Technical Committee 57: Power systems management and associated information exchange
 - Working Group 21: Interfaces and protocol profiles relevant to systems connected to the electrical grid
 - Ken Wacks received a response from IEC TC 57/WG 21 stating that the Committee was considering the request.
- Ken Wacks wrote a New Work Item Proposal for the Technical Report that was reviewed by the U.S. Technical Advisory Group to Working Group 1 at the meeting in Tokyo, March 16-20, 2015. Ron Ambrosio coordinated with the convener of IEC TC 57/WG 21 resulting in concurrence that the Interoperability Context-Setting Framework is a foundational document. Ken Wacks has forwarded the request for the document to be an ISO/IEC Technical Report to the secretariat.

Conference and Event Planning

National Demand Response Town Hall Meeting Session Opportunity

Ron Melton was approached to see if GWAC was interested in organizing a panel for the 2015 National Town Meeting on Demand Response and Smart Grid that will be held May 26-28. Ron Melton proposed that GWAC structure a session around the following:

- What are transactive energy systems? (high level description)
- How do they relate to traditional DR and the needs of the grid of the future?
- What do decision makers need to know about them?

The target audiences would be third party providers, alternate energy vendors, utility executives, regulators and staff, and legislators. The Council continued discussion and Ron Melton asked for volunteers. David Forfia may be available and he will check his schedule and report back to the Council. Phil Davis may also be available to moderate. This opportunity to be discussed further at the April 22, 2015 GWAC web meeting. Steven Knapp can participate. Mark Knight is confirming his ability to participate.

Technical

Decision Maker's Check List

During previous GWAC workshops on Transactive Energy participants identified a need for tools for use by executives, policy makers and regulators considering proposals for or investments in transactive energy systems. In the spirit of the Council's previous work on an Interoperability Decision Maker's Checklist, the Council has agreed to create a similar document focused on Transactive Energy Systems.

The main focus of today's face-to-face meeting was to discuss the planning necessary to begin work developing the Decision Marker's Check List and to plan for the May two-day face-to-face workshop that is being hosted by OATI in Redwood City, California. Below are notes captured from the Council's discussions.

The Decision Makers Checklist Target Audience

- 3rd Party Providers
 - Aggregators
 - ESCOs
- Building Owners / Operators
 - Campus managers
 - Multi-family
 - Commercial
 - REIT Operators
- Alternative Energy Vendors
- Utility Executives
- Regulators and Staff
- Legislators
- Consumer Advocates
- Technology Advocates
- Public Interest Advocates
- System specifiers / architects
- System Integrators (owner reps)
- A&E Firms
- Consumer Electronics Companies

How will the Decision Makers Checklist be used?

- Determining the applicability of TE
- Planning technology architecture and infrastructure purchases for future consistency with TE
- Planning responses to resource and services changes
- Evaluating business opportunities based on or related to TE
- Assessing regulatory gaps or impacts
- Regulators advising utilities in response to proposed project(s)
- Utilities deciding what to include in RFPs
- Guidance to procurement people on stating requirements and evaluating responses

Decision Makers Checklist Purpose

- Promote asking relevant questions

- Educate how and when to make decisions

Information to be included in the Decision Makers Checklist

- Background on TE
- Risk management
- A spectrum of choices
 - Dipping your toe in
 - No regrets elements (no risk of stranded assets)
 - All in
- Pre-requisites to implementing TE- building blocks
- Conditions for change
 - DER penetration levels
 - Need for "non-wires" solutions
 - Deferred investments
- TE Value Proposition(s)
- Architectural considerations
- Privacy and Cyber security considerations
- Background on changes taking place in the industry
- TE Program definition and design considerations

Decision Makers Checklist Format

- About 8 pages
- Similar to Interop document
- Case study material (as an appendix?) - example of walking through the process
- Decision tree like tool - questionnaire
- Botanical key like - hierarchy - go botany web site
- Checklist could be a summary - make sure you asked the right questions

Homework Assignments

- Review NY REV order
- Go look at the interop white paper and maturity model for format example

People to Invite to the May Workshop

- Michael Picker - Assigned to Zichella or Carla Peterman
- Chair Weisenmiller (CEC)
- Paul De Martini
- Speakers
 - Panel on AB 327 DRP activity
 - Manho Yeung, PGE
 - Erik Takayesu, SCE
 - Will Speer, SDG&E
 - Paul Lau, SMUD
 - Fred Fletcher, Burbank W&P
 - Marcie Edwards, LADWP
 - Commercial Panel
 - Pete Riev, Solar City
 - Sun Run
 - Advanced Microgrids
 - EnPhase Energy - Jason Simon
 - Power Tree Services

- Nest - Scott McGaragan
- Google?
- Apple?
- Embala?
- Bernadette Del Chiarro
- John White
- Office of Ratepayer Advocate
- Marin Energy Authority representatives

References / Read Ahead Material for the Workshop Participants

- DOE-EAC white paper on Grid Modernization - Sept. 2014
- GWAC TE Framework
- GWAC Interoperability Decision Maker's Checklist
- CSIRO / Future Grid Forum Report (summary)
- CPUC TE White Paper
 - Review for possible questions to include
- Houseman 8 characteristics
- More Than Smart
- Ed's TE Book - Ed can provide free copies
- NY REV Order summary from NRDC

Discussion

- Focus of the meeting
- Narrow the invitees - engage them with a draft in hand
- Who among the invitees can contribute the most?

Action Items Review

- Schedule Decision-Maker's Check List sub-committee calls before May face-to-face workshop.
- Finalize May face-to-face workshop agenda.
- Send May face-to-face workshop invites to external participants
 - Invite language
 - What TE is and isn't
 - What is being asked?
- Ron Melton to expand meeting description.
- Ron Melton to prioritize the invitee list.
- Council to create clear statement of expected workshop outcomes.

Adjourn

Carl Zichella moved to adjourn the meeting, Doug Houseman seconded the motion and the meeting adjourned at 4:30 PM.