

Meeting Minutes March 10, 2010

Ron Melton, GridWise® Architecture Council (GWAC) Administrator led the meeting on behalf of Chairman Ron Ambrosio that was held at 10am-12pm PT on March 10, 2010.

Members

Ron Ambrosio, IBM T.J. Watson Research Center
Robert Burke, ISO New England
Rik Drummond, Drummond Group
David Hardin, Invensys Process Systems
Alex Levinson, Lockheed Martin
Robert Saint, NRECA
Ken Wacks, supported by GridPlex
Richard Schomberg, EDF
Amr Ibrahim,
Wayne Longcore, Enterprise Architecture & Standards, Consumers Energy

Support - PNNL

Ron Melton, GWAC Administrator
Ron Jarnagin
Bora Akyol
Natasha Brock

Speakers and Guests

Steve Widergren, PNNL
Becca Dietrich, GridWise Alliance
Chris Irwin, US DOE
Andreas Tolk, Old Dominion University
Austin Montgomery, Carnegie Mellon
Avygdor Moise, Future DOS R&D Inc.
Becca Dietrich, GridWise Alliance
Bill Cloutier, DTE Energy
Bob Saint, Nat'l Rural Elec Cooperative Assn
Bob Schloss, IBM
Bruce Kraemer, NRECA
Bruce Renz, NETL Modern Grid Initiative
Carisa Neu, MPSC
Charles ODonnell, Emerson

Chris Irwin, U.S. Department of Energy
Dan Lubar, RelayServices
David Wollman, NIST
Edwin Liu, CleNET International
Eric Hsieh, National Electrical Manufacturers Association
Eric Mewhinney, BC Hydro
Erik Gilbert, Summit Blue Consulting
Eugene Litvinov, ISO-NE
Evan Wallace, NIST
Gerald Voecks
Henry Bailey, SAP America
James Mater, QualityLogic
John Banting, Cooper Power Systems
John Chowdhury, KEMA
Jerry FitzPatrick, NIST
Kendall Smith, Aclara RF
Lucas Trumble
Mark Enstrom, Neustar
Mark Maddox, Arcadian Networks
Michael Kuberski, Pepco Holdings, Inc.
Nick McLellan
Paul Skare, Siemens Energy, Inc.
Paul Steffes, Steffes Corporation
Ralph Martinez, BAE Systems
Randy Lowe, American Electric Power
Ron Vader
Sharon Dinges, Trane
Stuart McCafferty, EnerNex
Terry Mohn, BAE Systems
Terry Oliver, Bonneville Power Administration
Wade Troxell, Colorado State University
William Cox, Cox Software Architecture

Members not present

Erich Gunther, EnerNex Corporation
Tracy Markie, Engenuity

Proprietary Information Notice

The members and guests were reminded of the proprietary information disclosure policy according to the Bylaws.

Agenda Review

No items added to the agenda at the time of review.

Administrative Business

Ron Melton introduced new Council members: Amr Ibrahim, Wayne Longcore and Tom Sloan. They spoke briefly about their current engagements, and Dr. Melton suggested they would make short introductory presentations during the next face to face meeting in April.

Approval of the meeting minutes from the previous meeting (January 28-29, 2010):

- Motion to approve meeting minutes was made by Rik Drummond and seconded by Dave Hardin.
- Meeting minutes were approved by unanimous vote of the present council members with incorporation of the comments submitted by Ken Wacks and Robert Burke.

GWAC members reviewed a list of upcoming events and GWAC meeting schedule. Ron Melton and Ron Ambrosio advised that GWAC is not endorsing any of the events and is taking neutral position as to GridWeek and GridWise® Global Forum events.

- April 14-15: GWAC Face to face meeting week in Boston, MA
- May 24-27, 2010 - ConnectivityWeek/GridWise Expo, Santa Clara
- June 3-4:– Grid-Interop 10 planning meeting
- June 23: GWAC web meeting
- August 18: GWAC web meeting
- September 21-23, 2010 - GridWise® Global Forum, Washington, D.C.
- October 18-21, 2010 - GridWeek, Washington, D.C.
- October 27: GWAC web meeting
- November- possible GI 2010 planning meeting
- December 1-3, 2010 - Grid-Interop, Chicago

Decision Maker's Check List Update

James Mater, Founder and CEO of QualityLogic presented his conclusions and recommendations based on face to face surveys during NARUC meetings in February, 2010. As taken from his PowerPoint slides, they include:

Conclusions:

- **The Checklist would be a useful tool if people knew about it.** The lack of familiarity with the Checklist and other GWAC products makes it clear that GWAC is not being effective with this community in promoting these products.
- **The domain of Smart Grid information has become so crowded** that GWAC has lost its pre-eminent position of visibility in the domain. GWAC is drowned out by the other entrants into the interoperability business – SGIP, the SDOs, IEEE, etc.

- **Interoperability is just now becoming a major issue in the regulatory world.** When most of the GWAC documents were developed they were ahead of the curve by 2-3 years. GWAC was ahead of its time. Spending more effort on developing or extending the GWAC product set seems to me only valuable if the documents get into more general usage.

Critical issues not being addressed:

- Helping regulators understand both the policy impacts of interoperable technology and, perhaps more importantly, understanding the **policy roadmap for implementing interoperable technologies** seems to be a recurring theme. This really gets at the higher levels of the GWAC stack and is the next critical step to achieving the Smart Grid vision. Listening to sessions on Smart Grid at NARUC made it clear just how much work there is to do on the policy side of the equation.
- Acting as the **interpreter of the NIST interoperability standards for regulators.** Regulators and staff are almost universally un-equipped to make sense out of the NIST/SGIP activities. The concept of an Interoperability 101 seminar that helps this community understand should be very valuable.
- In order for GWAC to maintain its position as the long-term strategic player in the Smart Grid domain, it needs to look beyond the current challenge of achieving interoperable technologies and **focus on “what’s next”.** This may well be addressing the business and regulatory aspects of achieving the Smart Grid in North America and the above conclusions point in this direction. This probably has significant implications for GWAC itself that need to be considered.

Recommendations:

- Add another 20-30 interviews from a revised survey instrument. It would be best if a portion of these could be done in person or by phone.
- Insure that a number of the additional surveys are of utility executives to insure an understanding of this part of the domain. We should also make sure to interview at least one FERC commissioner and a staff member.
- Recommend a much shorter survey to validate the perception that GWAC and the Checklist are little known. This would be followed by a request that the respondent download and review the Checklist in its current form and then provide detailed feedback on it in a second interview or survey form.
- Get much more aggressive about the **marketing (outreach) of GWAC products.**
- **Tell the story of GWAC’s influence** on the current NIST/SGIP activities. People don’t really understand GWAC’s role and it needs to toot its horn a bit.
- **Develop the Interoperability 101 course** and material for regulators and staff with a focus on interpreting the NIST/SGIP activities for this community.
- **Investigate a contribution to the concept of a “policy roadmap” for regulators.** There is a lot of work being done in this area by RAP and others so GWAC needs to understand if there is a specific contribution it can make.
- **GWAC needs to add strong marketing (to get the GWAC story out) and strong business/regulatory skills to start addressing these issues.**

Note: In general, the bullet points from presentations to the GWAC are not included in the minutes.

In this case an exception is being made because of the importance of these conclusions and recommendations relative to the discussion of where GWAC should focus its energy in the future.

Ron Ambrosio thanked James Mater for the excellent review and suggested using word “interview” instead of “survey” because in-person or over the phone communications are extremely valuable.

Actions:

- Revise Mr. Mater’s suggestions and determine the next course of action.
- The subgroup considering the Decision Maker’s Checklist update will continue their work with further discussion planned for April meeting.
- Address marketing and web site issues related to increasing the visibility of GWAC.

GWAC Constitution Discussion Status

During January 28-29, 2010 meeting, a discussion took place if there is a need to update the GWAC constitution. This discussion indicated that creation of two working groups is necessary: first, to outline the conditions under which periodic revision of the GWAC Constitution may be considered and a second group to address the issue of the resocializing and formulating principles around the “promotion of the policy.”

Tracy Markie drafted a list of possible reasons for the periodic review of the GWAC Constitution. The process of resocializing the GWAC Constitution was suggested by Dave Hardin and Rik Drummond. Ron Jarnagin gave an overview of the process that was originally used in 2005 with the purpose of gaining visibility and reaching consensus on what was meant by the smart grid; and described a suggested approach of resocializing with engagement of SGIP, SGIP GB and SGIP AC.

Ron Ambrosio expressed concern of engaging only SGIP. “It is important to engage policy and the regulatory community, not only SGIP”, he said, “there is a need to identify additional groups.”

Ron Melton pointed out that in the process of resocializing the GWAC Constitution, Council members need to remember to identify potential need to update the Constitution. Involvement of FERC and NARUC is important in this process.

Actions:

- Expand working groups ensuring involvement of the new GWAC members and finalize plan/directions to go
- Identify additional groups to be engaged in the resocializing process

Grid-Interop 2010

Ron Jarnagin, GWAC Administration

Ron Jarnagin gave an update of the planning process of the Grid-Interop 2010 forum. Decision was made to combine Program and Planning committees to ensure their full engagement in the overall planning process of the event and the success of the Grid-Interop 2010 forum. GWAC members who volunteered to be involved on the Committee are: Bob Saint, Dave Hardin, Rik Drummond, Tracy Markie and Erich Gunther. Ron Ambrosio expressed an interest to be involved. SGIP, NIST and Clasma events representatives will be participating, as well as Terry Mohn, BAE Systems and Terry Oliver, BPA. Structure of the event will be similar to the last year event. Using gained knowledge and trying to achieve desired content for the submitted papers, theme and tracks need to be defined prior to the call for papers announcement, which is being planned for March.

Actions:

- Secure dates/times for the Planning Committee meetings

- Develop GI-2010 Planning Committee schedule and milestones
- Define desired theme and tracks prior to issuing call for papers and preliminary publicity
- Identify keynote speakers

Grid-Wise Expo

Ron Melton, GWAC Administration

Grid-Wise expo is one of the elements of the ConnectivityWeek with three tracks each day. On the first day Erich Gunther is organizing a “Smart Grid 101” track. On day two there will be a consumer oriented track. On day three Dave Hardin is organizing a track on smart grid cloud computing. On the fourth day Ron Melton is the leader for a track titled “Ensuring Smart Grid Success”. The first session will be titled “Applying Interoperability in Smart Grid Projects” and will have four presentations: “What is interoperability and why do we care about it” (Ron Ambrosio), “Interoperability concerns for business and policy”, “Technical interoperability” (Rik Drummond) and “Interoperability conformance testing”. Dr. Melton spoke about the need to identify speakers for the last three sessions. The other two sessions in the track are: “Interoperability of Distributed Renewable Components” and “Integrating Bulk Renewables Into the Grid.”

Steve Widergren suggested adding Interoperability Maturity Model (IMM) topic since there is a lot of interest in this work.

Actions:

- Identify and confirm speakers
- Discuss possible change to track on fourth day per Steve Widergren’s suggestion
- Develop presentation material

SGIP collaboration: issues and actions update

Dave Wollman, NIST

Dave Wollman, Smart Grid Team, NIST spoke about the importance of the continuing dialog between SGIP, GWAC and SGIP-AC. He pointed out that there is a need for GWAC’s guidance into the future while the current issues of achieving interoperability are being addressed. Ron Ambrosio agreed.

Jerry FitzPatrick asked for GWAC engagement in Domain Expert Working Groups (DEWGs). “GWAC helped start this process, and GWAC can help leading those DEWGs,” he said. Steve Widergren agreed that GWAC’s leadership is “needed and requested.”

Actions:

- Discuss GWAC role in DEWGs going forward

Interoperability Maturity Model (IMM)

Steve Widergren, principal engineer, PNNL

Steve Widergren started by noting James Mater’s impressive work and agreed that there is a need to make the community aware of GWAC contributions and its products.

Mr. Widergren pointed out that there is a lot to be done to achieve interoperability and much more to maintain it. IMM could be one of the ways to “bring awareness of interoperability.” Stuart

McCafferty mentioned that he did IMM for the smart grid maturity model based on principles characteristics.

Actions:

- Create a base model by ConnectivityWeek.
- Create a workshop in August-September to engage the community

Summary of the Action Items

Action Item	Due Date
<u>Constitution update:</u> – Expand working groups ensuring involvement of the new GWAC members and finalize plan/directions to go – Identify additional groups to be engaged in the resocializing process	
<u>Outreach:</u> – Layout plan for the outreach activities: GridWise® Expo (track “Ensuring Smart Grid Success”), GridWeek, Grid-Interop 2010 (planning in process), Connectivity Week (IMM), and GridWise Forum.	March 2010
<u>SGIP collaboration.</u> Discuss GWAC role in DEWs going forward	April 2010
<u>Grid-Wise Expo</u> – Identify and confirm speakers – Discuss possible change to track on forth day per Steve Widergren’s suggestion – Develop presentation material	March 2010
<u>Grid-Interop 2010:</u> – Secure dates/times for the Planning Committee meetings – Publish GI-2010 Planning committee schedule and milestones – Define desired theme and tracks prior to issuing call for papers and preliminary publicity – Identify keynote speakers	March 2010
<u>Check list Update</u> – Revise Mr. Mater’s suggestions and determine the next course of action – Address GWAC marketing and web site issues	end May
Coordinate publications of the technical papers submitted to Grid-Interop 2009.	April 2010
Define “Interoperability 101”	May 2010
<u>Educational packet</u> for the SG Investment Grant and Demo recipients. Creation of a working group to define the content may be needed. 1- immediate with a set of documents to bring uniformity 2- “Interoperability 101” session as part of an effort	more guidance is needed from DOE
<u>IMM</u> – Create a base model – Create a workshop to engage the community	May 2010 August-September