



## GridWise Architecture Council Meeting

May 22 - 23, 2007 in Chicago, IL

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### Meeting Minutes

Prepared 7 June 2007

The meeting was held from 8 a.m. – 4 p.m. on May 22<sup>nd</sup> and 23<sup>rd</sup> and led by Jack Mc Gowan. The following individuals were present:

#### **Architecture Council Members**

Joe Bucciero, KEMA Consulting  
Rik Drummond, Drummond Group  
Erich Gunther, EnerNex Corporation  
Dave Hardin, Invensys Process Systems  
Mike McCoy, Becker Capital Management  
Jack Mc Gowan, Energy Controls, Inc.  
Lynne Kiesling, Northwestern University  
Russell Robertson, Tennessee Valley Authority  
Richard Schomberg, Electricite de France  
Alison Silverstein, Consultant

#### **Architecture Council Support**

Steve Widergren, PNNL  
Olga Kuchar, PNNL

#### **Guests**

Nikhil Marathe, Kellogg Graduate School of Management, Northwestern University  
Michael North, Argonne National Laboratory  
Bill Rand, Northwestern Institute on Complex Systems, Northwestern University  
Beth Statkus, Wm. Wrigley Jr. Company  
Michael Uzquiano, Alfresco Software Inc.  
Scot Wheeler, Kellogg Graduate School of Management, Northwestern University

#### **Not Present**

Ron Ambrosio, IBM T.J. Watson Research Center  
David Cohen, Infotility  
Stephanie Hamilton, Southern California Edison

## Welcome and Introductions

Jack Mc Gowan and Steve Widergren presented GWAC letters of appreciation signed by DOE OEDER Director Kevin Kolevar to the newly selected GWAC members and those who had not previously received such a letter: Joe Bucciero; Dave Hardin; Mike McCoy; Jack Mc Gowan; Lynne Kiesling; Russell Robertson; Richard Schomberg; and Alison Silverstein.

## Proprietary Information Notice

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

## Meeting Minutes Approval

The revised minutes for the April 23-24, 2007 face-to-face meeting in Washington DC were approved without further changes.

## Upcoming GWAC Meetings

The next GWAC face-to-face meeting is scheduled for May 22-23, 2007 in Chicago, IL, combined with ConnectivityWeek and GridWise Expo. Other important meeting dates are as follows:

- July 13, 2007: web meeting from 9 – 11 am PT
- September 12-13, 2007 – face-to-face meeting in Austin, TX
- Mid-October 2007 – web meeting from 9 - 11 am PT
- October 31 – November 2, 2007 – Interoperability Forum in Albuquerque, NM
- December 14, 2007 – web meeting from 9 – 11 am PT

## September Meeting Arrangements

Being in Austin, Alison Silverstein is coordinating the guest speaker arrangements. Attendees should consider spending the weekend for the 14-16 Sep 07 Austin City Limits Festival.

Potential guest speakers for this meeting are:

- Roger Duncan, Austin Energy (Alison Silverstein contact)
- Pat Snack on UNCEFACT Core Components (Rik Drummond contact)
- Don Cortez, CenterPoint Energy
- Stan Johnson, NERC
- Matt Grady, University of Texas Austin (Erich Gunther contact)
- Tom Burke, OPC Foundation
- Airtricity
- TXU ED
- TCCTE (consortium of utilities)
- Dave Cohen, GWAC member, multi-agents ConEd Project.

*Action Items: Olga Kuchar will coordinate with council members to confirm speakers for the upcoming meetings.*

## GridWise Expo Participation and Awards

ConnectivityWeek is May 22 – 24, 2007 in Chicago, IL, with the GridWise Expo track on May 24. Jack Mc Gowan is the track lead. This is a great visibility opportunity for the GWAC to be able to reach out to a broader audience. On Thursday, May 24<sup>th</sup>, several GWAC members will be leading GridWise sessions:

- Interoperability Framework panel moderated by Rik Drummond that will focus on real-life cases of interoperability. Dave Hardin provided an overview of the Interoperability Workshop and framework document.
- Value Proposition of a Smart Grid for End Users panel moderated by Lynne Kiesling.
- Interoperability and Regulatory/Policy Issues panel moderated by Alison Silverstein.
- Advances in Smart Grid Utility Practices panel moderated by Joe Bucciero.

On Thursday evening, GridWise Applied awards were presented during the dinner gala. The award receivers were Site controls, Cimetrics, Toby Considine, and Joe Desmond.

## Decision-maker's Checklist

The Policy Team (Lynne Kiesling, Alison Silverstein, Ron Ambrosio, Erich Gunther, David Cohen, Mia Paget, and Richard Schomberg) provided a decision-maker's checklist for review to the Council members. This checklist can be downloaded from the GWAC website at <http://www.gridwiseac.org/publications>. The team proposes to solicit comments from the Council members and external stakeholders; specific organizations (e.g. SCE, TVA, DOE-OEDER R&D, BPA, CEC, PJM, EPRI, NYDPS, CPUC); and others by mid-September 2007. Once the feedback is received and reviewed by the team, a revised version of the checklist should be available in the fall.

Richard Schomberg joined Alison Silverstein to revise the checklist for publication in the June issue of Public Utility Fortnightly. Lynne Kiesling recognized these members for their valuable efforts.

The team also created a Policy/Regulatory whitepaper that addresses interoperability to a specific stakeholder audience. The team proposes to eliminate this whitepaper due to the points covered in the checklist. The team believes that focusing their time and effort on the checklist is a better use of their working group resources.

The team also suggested creating other checklists for different audiences. Each checklist would have several common themes: explanation of interoperability, GWAC's role, tone and technical detail appropriate to that specific audience; checklist that enables that audience to determine whether something is more or less interoperable, and brevity (8-10 pages). The team suggested the following audiences:

- Utility CEO
- Utility CIO/technical/I-O framework
- Technical product/vendor
- End-use device vendor/building/consumer
- Investor/financial community
- Standard-setting bodies (distinguish between technical standards and reliability standards)

The Council members decided that a checklist targeted to the technical audience and another for end users should be the GWAC's next efforts and should be accomplished by October before the Forum.

*Action items: Erich Gunther (and possibly Terry Mohn) volunteered to lead a utility CIO checklist effort while Lynne Kiesling (and possibly Toby Considine) will consider an end-user checklist. A statement of work is to be prepared for the July web meeting on the requirements for each audience and full papers due in October in time for the Grid Interop Forum.*

## **Agents, Networks, and the Diffusion of Innovation (Guest Speaker: Bill Rand)**

Everything from the rate of success of blockbuster movies, to the infection rate of SARS, to the creation of urban legends, to electricity flowing through a power grid, to the spread of innovation in an organization can be viewed as being driven in part by a diffusion process. All of these processes can be viewed as complex systems, where autonomous agents interact locally, and these complex interactions give rise to global patterns. Bill Rand discussed NetLogo, a software platform specifically created to allow a wide spectrum of users to build agent-based models(<http://ccl.northwestern.edu/netlogo>) and study diffusion in complex systems. Bill Rand is a postdoctoral fellow at the Northwestern Institute on Complex Systems at Northwestern University.

## **GWAC Communication Plan**

The Communication team (Rik Drummond, Mike McCoy, Jack Mc Gowan, Alison Silverstein, Olga Kuchar, and PNNL's Judy Graybeal) presented a draft plan for publications, press releases, and other communication items.

The goal and purpose of the communication plan is to increase recognition and acceptance of the GWAC, its members and the principles articulated by the Council. The key audiences that will be targeted with this plan are stakeholders and decision makers in the sectors already identified by the Council. The approach is to expand the Council's reach of their messages and achieve third party endorsement. The approach will also provide materials that can be leveraged for additional uses, such as Web postings and reprints for clients, conferences, and speaking visits. The media activities will focus mainly on trade (niche) magazines, several which also maintain Web sites. Typical products are features, case studies, commentaries, and press releases. Timing placements to coincide with other GWAC activities can increase the effectiveness of both the activity and the endorsement. Judy Graybeal (PNNL) will manage GWAC niche media activities through PNNL Communications and Outreach, conducting GWAC and media liaison, and obtaining services as needed to produce products.

The metrics for progress in this area are already covered by those identified at the Las Vegas meeting.

The following Council members have volunteered to write a 1-2 page document on the following topics:

- Prices to devices (Lynne Kiesling)
- Context-setting Framework (Dave Hardin)
- Buildings (Jack Mc Gowan)
- Why web services are important (Rik Drummond)
- Demand Response on home area networks (Erich Gunther)
- Cyber-security, SmartGrid, and utility practices (Joe Bucciero)
- Joint reliability agreements (Russell Robertson)
- Decision-maker's checklist (Alison Silverstein)
- Business models (Mike McCoy)

Two key points need to be made in the above documents: must mention interoperability and how GWAC is currently involved.

Several council members also volunteered to write short abstracts for targeted publications:

- Dave Hardin for Automation World and Control Engineering
- Erich Gunther for Power & Energy, Utility Automation, and Inside Energy
- Jack Mc Gowan for Energybiz and Building Operating Management
- Joe Bucciero for Distributed Energy

Other suggestions by the Council were on other media: publications in economics; Operations and Research Management Science; InfoWorld; Popular Mechanics; Popular Science; Discovery; Scientific America; and The Economist.

*Action Items:*

- *Olga Kuchar will co-ordinate these activities with the Council members and provide timelines for planned releases.*
- *Steve Widergren to ask Jesse Burst about a regular GWAC Column. If possible, we will start submitting information to this column based on the 1-2 page documents that will be created by various Council members for various topics.*

## Using Complex Adaptive Systems Techniques to Model Electric Power Systems (Guest Speaker: Michael North)

Michael North delivered a presentation on using multi-agent techniques to model electric power systems. His talk covered the foundations of agent-based modeling and simulation; and the application of agent simulation to modeling complex adaptive systems. He illustrated the use of agent-based simulation with an electric power market modeling example. Michael North is the Deputy Director of the Center for Complex Adaptive Agent Systems Simulation within the Decision and Information Sciences Division of Argonne National Laboratory.

## Interoperability Framework Workshop

The Interoperability Workshop was a success with 45 participants representing power, buildings, industrial, communication, information technology, and academia. The workshop was held on April 11-12, with a follow-up on April 13 with facilitators and leads. Steve Widergren and Andreas Tolke coordinated the workshop. Kelly McNair, Dir. Information Mgmt, TXU ED was the keynote speaker. Clasma hosted the dinner. PNNL and EnerNex provided facilitators.

The objective of the workshop was to build consensus for the preparation of community involvement to improve integration of emerging automation systems related to all elements of the electric system. We achieved our expected outcomes:

- Consensus on interoperability framework paper
  - Actions to improve the paper
  - Develop credibility to framework paper
- Champions for articulating and addressing interoperability issues
- Ideas and leaders for a follow-on symposium

Attendees were asked to prepare by reading the Interoperability Framework Whitepaper, testing the framework with an example of their choosing, and submitting a 1-2 page position paper. The

position papers, scenarios, notes, and summaries are available for download from the GWAC website ([www.gridwiseac.org](http://www.gridwiseac.org)).

The workshop summary proceedings are available by download from the GWAC website. The Framework will be revised for a version 1.0 release in the coming weeks. A Proceedings CD and thank you letter will be sent to all participants in June.

A press release of the workshop was distributed at GridWeek and is available for download from the GWAC website.

*Actions: Framework team to discuss the next step and path forward in updating the framework document.*

## Grid Interop Forum

The Grid Interop forum is targeted for October 31 – November 2 in Albuquerque, NM due to facility availability (targeting the convention center). Having this over Halloween was noted as not ideal and November 7 – 9 would be a better time; however, if the Council agreed to hold the meeting on Halloween week if that was all that was available. The objectives of the forum are to assemble ideas and resources in function/business areas for actionable steps to improve interoperability. The forum is the next major step in engaging a larger community in addressing interoperability issues. It will consist of panels, papers, and presentations. There will be a call for papers with a peer review. This will be supported by engaging champions identified at the workshop.

A meeting planning committee is being formed comprised of the following individuals: Steve Widergren; Ron Jarnagin (PNNL); Anto Budiardjo; Rik Drummond; Ron Ambrosio; Erich Gunther; Andreas Tolk, and two other workshop participants. A preliminary meeting structure was presented at the meeting:

Day 1		Day 2		Day 3	
Biz	Tech	Biz	Tech	Biz	Tech
		Opening Plenary		Session B4	Session T4
		Session B1	Session T1	Action Roundtables	
				B5	T5
Registration		Lunch		Lunch	
		B2	T2	Closing Plenary	
Seminars/ Tutorials		Action Roundtables			
		B3	T3		
Welcome Reception		Dinner and Networking			

The call for papers will be broken down into two tracks: business; and technical. The business track topics that were presented to the council were:

- Business services vision and interoperability role
- Governance for critical infrastructures in the information age (insured Nations Security)
- Business constraints and barriers
- Financial benefits of interoperability
- Regulatory policy: support and impediment

The technical track topics that were presented to the council were:

- Cross cutting issues
  - ID, security, time, configuration/discovery, etc.
- Case studies of interoperability across multiple domains
- Application scenarios
  - e.g., demand response, DG integration
- Complex systems of systems and unintended consequences
- Metrics for progress
- Tools and methods

Alison Silverstein proposed that 5-6 questions be posed to the Forum community at the beginning of the meeting about interoperability and what success should look like in the next 5 years or so. At the end of the meeting, the participants would provide their answers or impressions. Rik Drummond mentioned that the Constitutional Convention included a direction setting process with the participants to identify challenges and steps to take to address them. This meeting should not be a repeat of that exercise.

A call for papers is also being drafted to support panel sessions and discussions at the meeting. Topics suggested from the Workshop were reviewed. Concern was voiced about a topic concerning governance to align critical infrastructure aspects of the electric system with other critical infrastructures. This sounds as though it would overlap with efforts lead by DHS and others. It was clarified that governance was directed at IT interoperation aspects and that the wording needed to change concerning this topic.

*Action Items: Steve Widergren to update the Call for Papers draft based on meeting comments and send it to the GWAC for review.*

## GWAC Website

The new look-and-feel of the GWAC web site (<http://gridwiseac.org>) was unveiled during the GWAC meeting. Information was rearranged from the previous Web site and a new link was created to the Interoperability Workshop Proceedings. The next changes for this website will be rolled out in phases, which include: submission forms, calendar, GWAC in the news, and overall content update.

Council members recommended the addition of some eye pleasing graphics on the home page as it is presently very plain. In addition, a quick review indicated some errors on the web pages and with links. The website should also be checked for use with the Safari browser and content tags need to be added so that the website is ordered higher in search engine results. Members asked for a more visible link from the GridWise Alliance website to the GWAC website and an update to the related links page to include interoperability blogs (e.g., Lynne Kiesling's blog).

*Action items:*

- *The Council members will review the new website and provided suggestions for changes (and priorities for these changes) in an e-mail to Olga Kuchar. Olga Kuchar will then collect these changes and the issues stated in the meeting, address the Council's concerns, and present a new plan for changes to the website.*
- *Members were reminded to send updated biographies, pictures, and a note indicating we have permission to post them.*
- *On the GWAC SharePoint site, create a task list so the Council members can have a shared space for any issues they need to follow-up on.*

## GWAC Work Product Publishing Process

Given the new members on the Council and the development of new material by members and teams, having a work product publishing process would help coordination and align expectations. The type of interactions discussed were: presentations; articles; interviews; press releases; white papers; reports; and meeting minutes. Some of these materials are created by individual Council members, teams comprised of Council members, or attributed to the Council itself.

An important part of such a process is determining the attribution of the material to be published. So that valuable communication and visibility is not stymied by process, individuals and teams can decide to release material as they see fit as long as it is attributed to the individual or team. If a document is to be endorsed, approved, or otherwise attributed to the GWAC, then a reasonable period for member review is needed and a decision rendered by the Council according to the decision-making language of the Bylaws. The following process outline should be followed.

- I. Inform GWAC administration of desire to publish material
  - A) Records plans (coordination, metrics impact, etc.)
  - B) Checks if GWAC endorsement/approval desired
  - C) Supports publishing if desired
- II. If material is to be endorsed or otherwise attributed to the GWAC
  - A) Determine status desired from GWAC
  - B) Schedule draft availability date, review/revision period, and decision making period
  - C) Decision making as per Bylaws (assembly, phone, electronic)
- III. If material is to be attributed to an individual or team that is part of the GWAC
  - A) Provide courtesy notification to GWAC
  - B) Attribute authorship to individual or team as appropriate
  - C) Material can be released indicating it is in GWAC review as appropriate

Council members suggested that any material that needs their approval be e-mailed with the action period in the subject line (such as APPROVAL REQUESTED BY APRIL 1). Within the body of the e-mail, the sender will provide a timeline so that the Council members understand the context and time constraints. GWAC administration can help the coordinate the process and see that the type of response the author requests is communicated to the Council (feedback, vote to endorse, etc.) and then follow-up per the agreed upon timeline.

## GWAC Benefits Studies

The Benefits Study Team (consisting of David Cohen; Rik Drummond; Erich Gunther; Mike McCoy; Alison Silverstein; Rob Pratt (PNNL); and Steve Widergren) held phone conference meetings to review examples of styles that a benefits report might take. The team suggests that the reports should be articles that cite existing research material relevant to the topic area (e.g., financial benefits of interoperability). They should report (in story form) on the main findings in the cited material with quotes and short explanations. They should not attempt to synthesize, compare, or otherwise combine the material into an analysis of analyses. Because of this, the articles may have "holes" or inconsistencies. This should keep the cost to develop them relatively low.

Examples of reports reviewed by the team follow:

- Value of Independent Regional Grid Operators (<http://www.caiso.com/14c6/14c6c4291aa40.pdf>)
- EnerNex outage study.
- Drummond cross-industry interoperability study
- Walker e-health study (<http://content.healthaffairs.org/cgi/reprint/hlthaff.w5.10v1>)

- PNNL and RAND benefits studies

The following is the list of desired benefits articles:

1. GridWise Interoperability Delivers **Financial** Benefits
2. GridWise Improves Your **Environmental** Impact
3. GridWise Improves Grid Security and **Reliability**
4. GridWise Interoperability Benefits for **End Users**

The Council's guidance is for each of these papers to explain impacts in the areas highlighted, with a maximum length of 12 pages. These are marketing-surveying papers that survey existing material and try to gather information from other industries to support our interoperability concept. The papers will summarize major points of reference work in the topic areas and will be well written and polished products that are story or journalistic form.

The team will begin the process with the financial benefits paper. The benefits team will clarify the message by providing the value from improving existing processes and the value from unleashing new capabilities. The team will develop a statement of work that outlines the major "points to be scored." The Grid Modernization Collaborative and related organizations will be informed of this endeavor. This may provide interactions with other organizations and useful ideas, possible teaming/coordination, as well as develop buy-in and alignment.

The article suggestions will be presented to Eric Lightner for his review.

Steve Widergren also presented a concept that arose out of his discussions with staff at PNNL concerning the benefits studies. The idea is to create a landscape of the various aspects of the electricity system that can be used to provide perspective to the interfaces between business functions, relevant integration technologies, responsible parties, stakeholders, standards and trade groups and the like. This could be used for such things as to show how different groups "fit" into the GridWise vision, points for potential interoperability improvement, mapping outreach advances or pointing out holes that need to be addressed. (Administrator note: Don Watkins (member emeritus, BPA) often asked for a perspective of how the different pieces fit together.) The Council encouraged further development of this idea. Alison Silverstein said that she has seen diagrams that DHS have developed that may be good approaches to follow.

Lynne Kiesling and Joe Bucciero asked to be added to the team.

*Actions:*

- *Benefits Study Team to develop a statement of work for the financial benefits paper. The GWAC is to suggest the points to score*
- *Steve Widergren to inform GMC and related organizations of the GWAC endeavor for the benefits paper.*
- *Steve Widergren to further develop an interoperability landscape diagram and ideas for a perspective of electricity stakeholders, technologies, and related organizations.*
- *Dave Chassin (PNNL) will provide a DOE document to Steve Widergren (from Janet Jones-Oliveira) to help in making an effective diagram.*

## **Establishing an Alliance Advantage: Opportunities in Aggregation of GridWise-related Technologies as Comprehensive Solution Stacks (Guest Speaker: Scot Wheeler)**

Scot Wheeler delivered a presentation on a business plan to promote interoperability for buildings management. His talk covered the process and thoughts behind the business plan and his team's path forward. Scot Wheeler attends the Kellogg Graduate School of management at Northwestern University.

## Beyond the Interoperability Forum

As we move forward from the Interoperability Workshop to the Grid Interop Forum, the Council needs to consider and communicate the next steps after the Forum and sustainable community engagement. There are many different products that the Council is producing and great interaction with the community through meetings, Interoperability Workshop, and other venues. Workshop participants recommended that the Grid Interop Forum needs to be seen in the context of a series of steps, activities, and work products that go beyond the forum.

The Council strategies need to be focused on community building. As interoperability activities advance throughout the community, there is in need for testimonials, trials, and feedback on how to improve the vision of interoperability. Council members need to partner, support, and continue to advance the GWAC message and goals. The council can extend its existing material, like:

- Articulate, detail interoperability issue topics (e.g. resource identity – NEHTA offers some examples with papers on privacy and identity issues)
- How does the framework connect to:
  - Various reference architectures (e.g. DODAF, RM-ODP)
  - Standards organizations, prescriptions
  - Regulatory/legislative progress
- Framework alignment with checklists (target audience outreach)
- Education tools, interoperability awareness, how to apply and adopt it (e.g. NEHTA “interoperability Maturity Model”)
- Project/proposal review tools
- Conformance criteria to framework and checklists
- Application to critical infrastructure situational awareness and coordination

Alison Silverstein presented a motion that the July GWAC conference web meeting cover two items: 1) discuss what success would like for the Council, 2) Grid Interop Forum planning. The motion passed.

### Action Items

- *Erich Gunther to send reference to SCE's use of the capability maturity model (CMM) in its AMI work as an example of an approach the GWAC might use to encourage improvements in interoperability.*
- *Rik Drummond to send references on methods and tools (such as UMM/UML).*

## GridApp Opportunity

DOE released a proposal solicitation on distributed systems integration. This solicitation is being coordinated by the GridApp consortium. Paul Wang asked if GWAC would be willing to act as a review body for interoperability design directions of three implementation case studies as well as the results of these demonstrations. Paul was cautioned that The Council members should not be expected to review large amounts of information, but would likely hear presentations and summaries

for discussion and feedback to the projects. The Council agreed that this was a valuable role to play and will allocate time at GWAC meetings or conference calls to listen and provide review.

## GWAC Metrics

An update to the GWAC's metrics was provided to the Council members. The GWAC agreed that blogs shall not be counted in the number of citations. Erich Gunter mentioned that a talk he gave to the South Dakota PUC should be counted in outreach metric for number of GWAC engagements.

*Action Item: The PNNL administrator will provide a spreadsheet on the SharePoint site to track all items for the GWAC metrics. Members are to report their engagements and other relevant information to the metric measurements.*

## Outreach and Liasons

### EPRI Liaison Report

Erich Gunther provided an update on EPRI IntelliGrid related activities and a new Energy Efficiency Laboratory:

- The lab is develops a capability to analyze devices and demand tesponse command and control. It uses the PEAC facility and currently is in the early stages of planning and deciding on the use cases and the equipment required for the facility. It will have an interoperability aspect. It will be open for others to use.
- The IntelliGrid application guide was developed last year and is getting exposure within the community. IEC TC8 is moving to make this a publicly available specification by September.
- Rik Drummond mentioned that he is talking with Ellen Petrill at EPRI about interoperability testing and the business drivers to do this.

### Other Liaison Activities

Other activities that the council members noted were the following:

- Richard Schomberg was appointed to run the TC8 committee on system aspects for energy. This committee is focused on requirements and is not a technical working group. The committee is formed of 39 national members. Their next meeting it is in Tokyo in November hosted by TEMPCO. This committee will be looking into transmission and distribution. They want to quickly publish publicly available prescriptions for interoperability. They are reaching out for interaction beyond the electric power industry as they look at the open meter and into the end use systems. There will be a call for volunteers and proposals in the near future.
- The FERC meeting at GridWeek: Commissioner Wellinghoff made a presentation to the House and Commerce and Energy; this was a follow-on to the Demand Response conference that was done at FERC the week of GridWeek and proceedings were distributed. FERC's near-term smart grid emphasis is on demand response. This is important for GWAC's interoperability message.

### Recent Engagements

- Lynne Kiesling presented at KEMA Executive Forum on March 8-9. The focus was mainly on retail markets. Lynne Kiesling spoke on a panel about "prices to devices" and interoperability.

- Alison Silverstein and David Cohen went to the UTC Conference in May. Alison Silverstein presented information on the smart grid and interoperability.
- Alison Silverstein was interviewed by BPL Today and the interview will appear in the May 23<sup>rd</sup> issue.
- Alison Silverstein and Richard Schomberg submitted an article based on the Decision Maker's Checklist to Public Utilities Fortnightly. This article was accepted and will be published in the June issue.

### Upcoming Engagements

- Steve Widergren is following on a lead for an article to Inside Energy.
- Ron Ambrosio will present a panel paper on the Interoperability Framework for the IEEE Power Engineering Society meeting in Tampa, FL on June 24-28 2007. Steve Widergren is the chair of this panel on smart grid activities.
- Jack Mc Gowan is involved in planning a signing of the GWAC Interoperability Constitution by the US Conference of Mayors. This will be done at a meeting to be held on either June 22<sup>nd</sup> in Los Angeles, CA or next January 2008 in Chicago, IL.
- Dave Hardin submitted a paper entitled Industrial Energy Management v2.0 to the Hydro-Carbon Processing journal.
- Alison Silverstein will be presenting to NARUC in July regarding the Decision Maker's Checklist.
- Joe Bucciero and Stephanie Hamilton will be attending IREP on August 19-24. Stephanie will talk about SCE's smart grid activities and will highlight interoperability.
- Jack Mc Gowan is writing an article for Intelligent Buildings Today for their special GridWise edition to appear in September.
- Steve Widergren mentioned interest by the Utility Purchasing Management Group for a GWAC presentation in October. Rik was interested to see information about this meeting.
- Erich Gunther will be participating in the Smart Metering East Coast conference in Washington, DC in November. He will be teaching a pre-conference tutorial on AMI/HAN interoperability, chairing a session or two, and holding a UtilityAMI meeting.
- Erich Gunther is organizing session for the DistribuTECH in January 2008. He will see about a presentation to follow-up on the interoperability framework and examples of projects applying the interoperability principles.
- Jack Mc Gowan is lead editor for an issue of Intelligent Buildings Today (part of Engineered Systems magazine). He is asking Toby Considine, Dan Sharplin, Jim Lee, and Lynne Kiesling to participate.
- Dave Hardin will be waving the GWAC flag at the OPC Foundation Developers Forum in June.

### Action Items:

- *Council members will send their presentations and a short summary of activities to Terry Shoemaker and Olga Kuchar for insertion into our Outreach Report.*

## Summary of New Action Items

#	Item	Owner	Due Date
316.	<i>Coordinate with council members to confirm speakers for the upcoming GWAC meetings.</i>	<i>Kuchar</i>	<i>Ongoing</i>
317.	<i>Erich Gunther (and possibly Terry Mohn) volunteered to lead a utility CIO checklist effort while Lynne Kiesling (and possibly Toby Considine) will consider an end-user checklist. A statement of work is to be prepared for July on the requirements for each audience and full papers due in October in time for the Grid Interop Forum.</i>	<i>Gunther, Kiesling</i>	<i>13 Jul 07</i>
318.	<i>Olga Kuchar will co-ordinate the communication activities with the Council members and provide timelines for planned releases.</i>	<i>Kuchar</i>	<i>Ongoing</i>
319.	<i>Steve Widergren to ask Jesse Burst about a regular GWAC Column. If possible, we will start submitting information to this column based on the 1-2 page documents that will be created by various Council members for various topics.</i>	<i>Widergren</i>	<i>30 Jun 07</i>
320.	<i>Framework team to discuss the next step and path forward in updating the framework document.</i>	<i>Widergren Hardin</i>	<i>13 Jul 07</i>
321.	<i>Steve Widergren to update the Call for Papers draft based on meeting comments and send it to the GWAC for review.</i>	<i>Widergren</i>	<i>Jun 07</i>
322.	<i>The Council members will review the new website and provide suggestions for changes (and priorities for these changes) in an e-mail to Olga Kuchar. Olga Kuchar will then collect these changes, address the Council's concerns, and present a new plan for changes to the Web site.</i>	<i>All Members</i>	<i>1 Jun 07</i>
323.	<i>Members were reminded to send updated biographies, pictures, and a note indicating we have permission to post them.</i>	<i>All Members</i>	<i>ongoing</i>
324.	<i>A visible link from the GridWise Alliance website to the GWAC website.</i>	<i>Kuchar</i>	<i>Jun 07</i>
325.	<i>On the GWAC SharePoint site, create a task list so the Council members can have a shared space for any issues they need to follow-up on.</i>	<i>Kuchar</i>	<i>Jun 07</i>
326.	<i>Check on the header information so that search engines can easily index our site and make it one of the top hits when queried for GridWise or interoperability.</i>	<i>Kuchar</i>	<i>Jun 07</i>
327.	<i>Update related links to include interoperability blogs (e.g. Lynne Kiesling's blog).</i>	<i>Kuchar</i>	<i>Jun 07</i>

328.	<i>The Benefits Study Team to develop a statement of work for the financial benefits paper. The GWAC is to suggest the points to score.</i>	<i>Gunther Cohen Drummond McCoy</i>	22 May 07
329.	<i>Steve Widergren to inform GMC and related organizations of the GWAC endeavor for the benefits paper.</i>	<i>Widergren</i>	Jun 07
330.	<i>Steve Widergren to further develop an interoperability landscape diagram and ideas for a perspective of electricity stakeholders, technologies, and related organizations.</i>	<i>Widergren</i>	13 Jul 07
331.	<i>Dave Chassin (PNNL) will provide a DOE document to Steve Widergren (from Janet Jones-Oliveira) to help in making an effective diagram.</i>	<i>Widergren</i>	Jun 07
332.	<i>Erich Gunther to send reference to SCE's use of the capability maturity model (CMM) in its AMI work as an example of an approach the GWAC might use to encourage improvements in interoperability.</i>	<i>Gunther</i>	13 Jul 07
333.	<i>Rik Drummond to send references on methods and tools (such as UMM/UML).</i>	<i>Drummond</i>	May 07
334.	<i>PNNL administrator will provide a spreadsheet on the SharePoint site to track all items for the GWAC metrics. Members are to report their engagements and other relevant information to the metric measurements.</i>	<i>Kuchar</i>	30 Jun 07
335.	<i>Council members will send their presentations and a short summary of activities to Terry Shoemaker and Olga Kuchar for insertion into our Outreach Report.</i>	<i>All Members</i>	Ongoing