SMART GRID INTEROPERABILITY PANEL
JANUARY 2011 GOVERNING BOARD MEETING

John McDonald
SGIP Governing Board Chair
January 13, 2011
CALL TO ORDER

• John McDonald, SGiP Governing Board Chair
SGIP Governing Board Chair Start Business

• John McDonald

• Establish Quorum
• Approval of Agenda (Consent Agenda)
• Approval of November 30, 2010 Meeting Minutes
# Governing Board Members

<table>
<thead>
<tr>
<th>Category</th>
<th>Member</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>Category 1</td>
<td>Brian Markwalter</td>
<td>Consumer Electronics Association</td>
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<tr>
<td>Category 2</td>
<td>Tariq Samad</td>
<td>Honeywell</td>
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<td>Category 3</td>
<td>Todd Rytting</td>
<td>Panasonic Electric Works Laboratory of America</td>
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<td>Category 4</td>
<td>Rich Scholer</td>
<td>Ford Motor Company</td>
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<td>Category 5</td>
<td>George Bjelovuk</td>
<td>American Electric Power</td>
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<td>Category 6</td>
<td>Stephen Muchlinski</td>
<td>Taco Public Utilities</td>
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<td>Category 7</td>
<td>Bob Saint</td>
<td>National Rural Electric Cooperative Association (NRECA)</td>
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<td>Category 8</td>
<td>Chuck Shih</td>
<td>Edge Holdings LLC</td>
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<td>Category 9</td>
<td>Kenneth Van Meter</td>
<td>Lockheed Martin's Energy Solutions</td>
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<td>Category 10</td>
<td>Matthew Theall</td>
<td>HomeGrid Forum</td>
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<td>Category 11</td>
<td>Vint Cerf</td>
<td>Google, Inc.</td>
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<td>Category 12</td>
<td>Robby Simpson</td>
<td>GE Energy</td>
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<td>Category 13</td>
<td>Wayne Longcore</td>
<td>Consumers Energy</td>
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<td>Category 14</td>
<td>Mladen Kezunovic</td>
<td>Texas A&amp;M University</td>
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<td>Category 15</td>
<td>Perry Pederson</td>
<td>U.S. Nuclear Regulatory Commission (NRC)</td>
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<td>Category 16</td>
<td>John Nunneley</td>
<td>SunSpec Alliance</td>
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<td>Category 17</td>
<td>Brent Hodges</td>
<td>Reliant Energy</td>
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<td>Category 18</td>
<td>John Caskey</td>
<td>National Electrical Manufacturers Assoc. (NEMA)</td>
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<td>Category 19</td>
<td>Paul Centolella</td>
<td>Public Utility Commission of Ohio</td>
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<td>Category 20</td>
<td>Rik Drummond</td>
<td>Drummond Group Inc.</td>
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<td>Category 22</td>
<td>Scott Ungerer</td>
<td>EnerTech Capital</td>
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<td>Category 23</td>
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<td>Paul De Martini</td>
<td>Cisco</td>
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<td>Category 23</td>
<td>Mark McGranaghan</td>
<td>Electric Power Research Institute</td>
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<td>Ex-officio</td>
<td>George Arnold</td>
<td>NIST</td>
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<td>Ex-officio</td>
<td>Dean Prochaska</td>
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<td>Dave Wollman</td>
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<td>Al Hefner</td>
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<td>Tom Nelson</td>
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<td>Paul Boynton</td>
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<td>Cuong Nguyen</td>
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<td>Ex-officio</td>
<td>Ray Palmer</td>
<td>FERC</td>
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<td>Ex-officio</td>
<td>Chris Irwin</td>
<td>DOE</td>
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<td>Ex-officio</td>
<td>Erich Gunther</td>
<td>EnerNex / Administrator</td>
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<td>Ex-officio</td>
<td>Stuart McCafferty</td>
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<td>Ex-officio</td>
<td>Aaron Snyder</td>
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<td>Malcolm Thaden</td>
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<td>Marty Burns</td>
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<td>Vishant Shah</td>
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<td>Sandy Bacik</td>
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<td>Ex-officio</td>
<td>Rudi Schubert</td>
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<tr>
<td>Plenary Chair</td>
<td>Steve Widergren</td>
<td>Pacific Northwest National Laboratory</td>
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<tr>
<td>Plenary Vice Chair</td>
<td>Mark Klerer</td>
<td>Qualcomm</td>
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<tr>
<td>Plenary Secretary</td>
<td>Paul Molitor</td>
<td>NEMA</td>
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## TODAY’S AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Discussion</th>
<th>Presenter / Facilitator</th>
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</table>
| 1:00 p.m. – 1:15 p.m.| Call to Order  
Establish Quorum  
Approval of Agenda (Consent Agenda)  
Approval of November 30, 2010 Meeting Minutes | John McDonald  
George Bjelovuk  
John McDonald  
John McDonald |
| 1:15 p.m. - 1:30 p.m.| NIST Update                                                                | George Arnold                   |
| 1:30 p.m. - 2:15 p.m.| SGIP Update  
• Catalog of Standards  
• DEWG Activity Update | Steve Widergren  
Mark Klerer |
| 2:15 p.m. – 2:30 p.m.| Architecture for HAN TF  
• Coordination plan | Tobin Richardson  
Charlie Smith |
| 2:30 p.m. - 2:50 p.m.| International Activities  
• Conference calendar  
• Conference criteria  
• MOU | Mark McGranaghan  
Mark McGranaghan  
Mark McGranaghan |
| 2:50 p.m. – 3:10 p.m.| IPR WG Update                                                             | Chuck Shih                     |
## TODAY’S AGENDA (CONT.)

<table>
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<tr>
<th>Time</th>
<th>Discussion</th>
<th>Presenter / Facilitator</th>
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| 3:10 p.m. – 3:40 p.m. | Governing Board Standards Introduction  
• PAP 5  
• PAP 10 Standards  
• Anticipated Standards Activity | Stuart McCafferty  
Erich Gunther  
Erich Gunther |
| 3:40 p.m. – 4:00 p.m. | Other Business  
Closing Remarks  
Next Meeting:  
Governing Board, In-person: March 29, 8 a.m. – Noon EDT  
Nashville, TN  
SGIP, In-person: March 29-31  
Nashville, TN | John McDonald  
John McDonald |
| 4:00 p.m.     | Adjourn                                                                  |                                         |
NIST UPDATE

Dr. George Arnold
TOPICS

• FERC Technical Conference
• NSTC Smart Grid Subcommittee
• NSTC Subcommittee on Standards
• NIST Smart Grid Federal Advisory Committee
• International engagements
• NIST Framework (SP 1108) Update – tentative plans
• Questions?
SGIP UPDATE

Steve Widergren, Plenary Chair
Mark Klerer, Plenary Vice-Chair
TOPICS

• Membership
• Accomplishments
• Issues/concerns
• Upcoming events
  • Secretary selection
  • 2011 event schedule
• Catalog of Standards
• SGAC, SGTCC, CSWG status update
SGIP MEMBERSHIP

AS OF 01.05.11

- Total # of Member Organizations: 647
  - # of Participating Member Organizations: 548
  - # of Observing Member Organizations: 99
  - # of Organizations who joined in December: 7
  - # of Organizations who joined in 2010: 201
- Total # of Individual Members*: 1,681
  * Omits non-active Signatory Authorities.

# of Participating Member Organizations by Declared Stakeholder Category

Stakeholder Categories

- USA: 578
- Canada: 28
- International: 38
ACCOMPLISHMENTS

- Successful coordination sessions at Grid-Interop
- Standards efforts confirmed completed by GB
  - IETF Internet Protocol Suite for Smart Grid (PAP 1)
  - SAE J1772 Electric Vehicle Conductive Charge Coupler (PAP 11)
  - SAE J2836 Use Cases for Communication between PEV and Grid (PAP 11)
- PAPs coming to completion
  - AEIC Guidelines for Meter Interoperability (PAP 5)
  - NAESB REQ 18, WEQ 19 Energy Usage Information (PAP 10)
  - NISTIR on Wireless Guidelines (PAP 2)
  - IEEE 1901, ITU-T Recommendation G9972 Coexistence of Broadband PLC (PAP 15)
- Catalog of standards initiative submitted for review
- 2011 event venue planning progressing
- ANSI license agreement and procedures in place for access to standards
ISSUES/CONCERNS BEING WORKED

- DEWG work plans
  - Insightful DEWG leads coordination meeting at Grid-Interop
  - Proposed role for Catalog of Standards recommendations
  - Engaged with GB VC Caskey on domain expertise for SGIP vision and roadmap effort
  - Working to improve visibility of efforts throughout the SGIP
- PAP 15 – Harmonize PLC standards for appliance integration
  - Joint IEEE and ITU-T narrow-band PLC process for single standard established
- Engagement with international smart grid efforts
  - Japan’s METI and Korea’s KATS and KSGA represented at Grid-Interop
  - ETSI Smart Grid Workshop 5-6 Apr 2011
  - SGIP face-to-face, July in Montreal with international theme
- SGIP Secretary election: call-for-candidates Jan, vote Feb, install 1 Mar
- Voting participation
- SGIP documentation for archive and retrieval
<table>
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<tr>
<th>Month</th>
<th>Date</th>
<th>Time</th>
<th>Detail</th>
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<tbody>
<tr>
<td>Jan</td>
<td>21</td>
<td>1 – 3 p.m.</td>
<td>Virtual Meeting/Conf. Call</td>
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<td>Feb</td>
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<tr>
<td>Mar</td>
<td>29-31</td>
<td>All Day</td>
<td>F2F: Nashville</td>
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<tr>
<td>Apr</td>
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<tr>
<td>May</td>
<td>26</td>
<td>1 – 3 p.m.</td>
<td>Virtual Meeting/Conf. Call hosted @ ConnectivityWeek</td>
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<td>Jun</td>
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<tr>
<td>Jul</td>
<td>12-14</td>
<td>All Day</td>
<td>F2F: Montreal – International theme</td>
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<tr>
<td>Aug</td>
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<tr>
<td>Sep</td>
<td>15</td>
<td>1 – 3 p.m.</td>
<td>Virtual Meeting/Conf. Call hosted @ Gridweek</td>
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<td>Oct</td>
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<td>(consider possibility of F2F working meeting in Sep/Oct)</td>
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<tr>
<td>Nov</td>
<td></td>
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<tr>
<td>Dec</td>
<td>5-8</td>
<td>All Day</td>
<td>F2F: Grid-Interop, Phoenix</td>
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CATALOG OF STANDARDS

• Scope of the Standards Catalog
  • Standards and guides recognized by SGIP as relevant for enabling SG capabilities
  • No endorsement, beyond that of relevancy, is implied by inclusion in the Catalog

• Objectives of the Standards Catalog
  • Explain value & purpose of the standard/guide for SG community
  • Influential, but independent of NIST/FERC decision-making
  • Characterize the various specification organizations and their selected documents with respect to their processes in developing that specifications
  • Provide an annotated resource that identifies standards created by recognized SSOs and/or industry consortia that are relevant to Smart Grid applications
  • Identify functional areas of smart grid where each standard is appropriate
CATALOG OF STANDARDS (CONT.)

- Relationship to NIST and FERC lists
  - Standards Catalog strives for accurate characterization and relevance to the smart grid community, and avoids recommendation
  - Standards Catalog expected to be a larger compilation which can inform NIST and FERC in their decision processes
CATALOG OF STANDARDS – STATUS AND NEXT STEPS

- Document defining the scope, objectives, and criteria for inclusion in catalog drafted for GB review and comment
- Includes proposed process for review by the BOP WG
- Steps going forward
  - Incorporate GB feedback
  - Incorporate BOP WG feedback on process
  - Align with input from IPR WG
  - Address catalog entry details from harmonization with similar efforts
  - Implement process for submission and review of candidate documents
QUESTIONS

Steve Widergren
ADDITIONAL MATERIALS
**Criteria for Inclusion in Catalog**

1. Relevancy: Facilitates interoperability related to the integration of smart grid devices or systems. Relevant smart grid capabilities are as defined by EISA.

2. Community Acceptance: The standard should be widely acknowledged as important to the integration of devices or systems that enable Smart Grid capabilities.

3. Deployment Suitability: The standard must demonstrate evidence of either having been deployed or filling a Smart Grid deployment gap thereby demonstrating adequate performance in commercial (real-world) applications.

4. Interface Characterization: The relevant portions of the standard focus on requirements for integration and interaction through well defined interfaces. The standard facilitates the independence in device or system design and implementation choices.

5. Document Maintenance: The standard is supported by a multi-member organization that will ensure that it can be unambiguously referenced, is regularly revised and improved to meet changing requirements, and that there is strategy for continued relevance.
CATALOG OF STANDARDS – PROCESS & STRUCTURE

• Process
  • NIST Framework and Roadmap for SG Interoperability v1.0 identifies many standards to consider
  • Additional standards can be identified to the SGIP Administrator by any SGIP member for potential inclusion in catalog
  • Relevance and importance evaluated by appropriate SGIP working group (e.g. DEWG, PAP, etc) and consensus developed
  • Conclusions forwarded to SGIPGB for recommendation to on inclusion to the SGIP membership
  • 75% approval by SGIP membership required for inclusion in the catalog
  • Standards included in the catalog may be deprecated from further use to changes in technology or needs by following the same process.

• Catalog Structure
  • Entries in catalog will be structured based on application domain defined in the Framework and further classified by GWAC stack

• Catalog Record Structure
  • Each catalog entry will include a set of attributes that classify the document with respect to:
    • Development process
    • IRP regime
    • Cyber-security aspects
    • Domain of applicability
    • Functionality supported
# SGAC MONTHLY QUAD CHART

## Activities and Accomplishments

- Ongoing focus on Architecture Process and Goals
- Conceptual Architecture
  - P2030 meeting is complete
- Semantic Summit at St. Louis SGIP meeting
- Appointed SGAC liaisons to PAPs/DEWGs
- Created checklist for standards reviews
- Multiple PAP Close Out Reviews completed
- SGAC in-person meeting at Grid-Interop
  - Established HAN TF consensus point subteam
  - Coordinating with ITU and requesting formal liaison

## Upcoming Key Milestones and Activities

- Working with ETSI, ITU-T, IETF, and IEC to schedule architecture workshops in March/April, 2011
- Conceptual Architecture
  - Interaction Workshop I – Jan 25 to 28, Los Angeles
  - Interaction Workshop II – Feb 22 to 25, New York
- Semantic Modeling
  - Summit Follow-on work with PAPs and SSOs
  - Working on next version of white paper
- Complete review of HAN TF consensus points

## Deliverables

- Published Semantic Model White Paper
- Posted Architecture Process Document
- Posted Draft National Goals White Paper
- Posted National Goals Decomposition Spreadsheet
- Posted Architectural Requirements
- Posted Draft PAP Mapping to NIST Concept Model and GWAC Stack

## Issues, Concerns, and Help Needed

- Architecture development requires focused work that will go beyond volunteer only activities
- There is GB concern on overlap and coordination of information models between the PAPs. Need greater SGAC oversight between the various PAP information modeling activities.
## CSWG Monthly Quad Chart

### Activities and Accomplishments
- Completed outreach session with University of Illinois and Georgia Tech.
- Created new CSWG Subgroup on Design Principles
- Completed cyber security assessments for 6 PAPs
- Identified CSWG team members to provide support to remaining PAPs
- Collaboration project with SGTCC on meter security testing requirements
- Planning for an integrated approach to electric sector-wide risk management
- Met with NESCO to discuss possible collaboration

### Deliverables
- First draft of revised CSWG Three Year Plan
- Second draft of PAP2 requirements matrix to NISTIR 7628 LICs
- Published security reviews for:
  - 3 SAE Standards
  - AEIC Metering Guidelines
  - NAESB Energy Usage Information
  - NAESB Energy Usage Information
  - NIST Wireless Guidelines
  - OASIS WS-Calendar
  - NEMA Smart Meter Upgradability Standard

### Upcoming Key Milestones and Activities
- PAP2 requirements matrix and narrative on security
- Upcoming outreach sessions:
  - Northeastern University, Boston MA – January 18
  - Ohio PUC, Columbus OH – January 26
  - University of Maryland, Baltimore MD – February 15
  - Texas PUC, Austin TX – February 23
- ANSI C12.1, C12.19 & C12.22 standard review

### Issues, Concerns, and Help Needed
- None
### SGTCC Monthly Quad Chart

#### Activities and Accomplishments
- D3 – Interoperability Process Reference Manual (IPRM) was completed and approved at the 11/30 SGTCC meeting
- IPRM implementation processes are being developed to support ITCAs beginning in January
- Began piloting IPRM with UCAlug for their IEC 61850 testing program
- Several additional ITCA commitments anticipated to be formalized by early January
- In addition to IPRM implementation, SGTCC agreed to launch several new work activities for 2011

#### Upcoming Key Milestones and Activities
- Formal launch of IPRM implementation with ITCAs scheduled for January 3, 2011
- Engaging with the CSWG testing sub-team to coordinate security related testing issues
- Several new TCC work items getting underway:
  - TCC Roadmap update and additions
  - End to End interop testing considerations
  - Interop Maturity Assessment tool – next steps

#### Deliverables
- Interoperability Maturity Assessment Tool, V1, completed

#### Issues, Concerns, and Help Needed
- Resources to provide support to ITCAs in their implementation of IPRM, and to perform the assessments of ITCA conformance to the IPRM
- Engaging end users to gain their commitment towards requiring IPRM conformance for ITCAs certifying the products that they purchase

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December 2010 Activities - PMO Monthly Report
ARCHITECTURE FOR HAN TF

Tobin Richardson
Charlie Smith
INTERNATIONAL ACTIVITIES

Mark McGranaghan
IPR WG UPDATE

Chuck Shih
WORK GROUP FORMATION

• 41 participants, 33 active, 8 observers, 1 administrator
• Excellent representation of subject matter expertise
• Charter revisions are still a work in progress, however changes have been made to:
  ✓ Accommodate broad participation
  ✓ Clarify voting rights
  ✓ Specify “front porch” rules
  ✓ Working Group charge and scope have not changed
• Vice-chair subject matter expert to be elected
• Initial priority and focus will be on Policy and defining IPR Attributes related to work products produced by SSOs: much of the discussion in this deck is within that context, and is referred to collectively as SGIP IPR Operating Practices
• Ad hoc committees (work groups) under discussion and formation to address:
  ✓ Defining a set of IPR Operating Practices with respect to candidate Smart Grid standards
  ✓ Obtaining IPR information required to support the SGIP IPR Operating Practices
  ✓ Stand-alone documentation and inclusion of parts of the IPR Operating Practices into the SGIP Operations Manual
PRELIMINARY CONSENSUS POINTS

• It is not the policy of the SGIP to create a super policy for SSOs, it is not a SSO accrediting body
• No value judgments regarding particular provisions in the IPR policies of a SSO is made in developing the SGIP IPR Operating Practices: it is recognized that a wide range of SSO IPR policies and practices may be acceptable for purposes of the Smart Grid, and standards that have been developed under many different IPR regimes are not experiencing IPR-related problems
• Adherence to the IPR requirements set forth in OMB Circular A-119 is a basic tenet to be reflected in the SGIP IPR Operating Practices and Catalog Annotations
• The SGIP Catalog of Standards does not set any particular IPR Policy or Practices for the SGIP or SSOs, but will reflect in annotations, the set of Operating Practices developed by the IPR WG
• Information is required for each candidate Smart Grid standard with respect to its particular IPR characteristics, and an understanding of the general IPR policy and practices of the SSO developing the Smart Grid candidate standard, though useful, is not sufficient
• The SGIP IPR Operating Practices must also have provisions to address questions such as, “What if a particular candidate Smart Grid standard does not comply with OMB Circular A-119? (or other “bars” set by the WG)
**Next Steps**

- Complete the SGIP IPR WG Charter
- Survey and understand the existing policies and practices of the IPR Regimes of the SSOs developing candidate Smart Grid standards
- Define a “rich enough” framework that makes IPR attached to a candidate Smart Grid standard, as transparent as possible, enabling detection of IPR “red flags”
- Define a presentation format that will convey to implementers, regulators, and rule makers, a high level understanding and characterization of a candidate Smart Grid standard, from an IPR perspective
- Define the questions, form of interactions, and processes by which the SGIP and this WG collaborates with the SSOs to obtain the information it requires
- Propose a mechanism by which IPR information gathered on candidate Smart Grid standards, are easy to find and access
NSTC CoT SoS RFI Comments on Smart Grid IPR

NIST RFI Soliciting Comment on Effectiveness of Federal Participation in Standardization in Select Technology Sectors including Smart Grid – Comment Period closes 2-7-2011

• How does the need for access to intellectual property rights by Federal agencies factor into the use or development of standards?
  ✓ To what extent, if any, has the development, adoption, or use of a standard, by Federal agencies in this technology sector been affected by holders of intellectual property?
    ➢ How have such circumstances been addressed?
  ✓ Are there particular obstacles that either prevent intellectual property owners from obtaining reasonable returns or cause intellectual property owners to make IP available on terms resulting in unreasonable returns when their IP is included in the standard?
    ✓ What strategies have been effective in mitigating risks, if any, associated with hold-up buyers’ cartels?

• The SGIP IPR WG will not focus on providing comments to the NSTC RFI unless directed to by the Governing Board.
GB STANDARDS INTRODUCTION

Stuart McCafferty, PMO
Erich Gunther, Administrator
STANDARDS ADDITION TO CoS AND THE GOVERNING BOARD

• Today’s Objectives:
  1. Introduce 1 standard with recommendations to Governing Board
  2. Provide supporting paperwork and SGIP WG recommendations
  3. Prepare Governing Board for vote on recommending standard for the Catalog of Standards (CoS)
GOVERNING BOARD STANDARDS PACKAGE

• Included in Governing Board meeting package and posted on Governing Board SharePoint site
• PowerPoint Presentation Synopsis Materials
  • Background information on Standard
  • Criteria for inclusion in Catalog of Standards (CoS)
  • SGIP WG/Committee standard requirements checklist
    • SGAC
    • CSWG
    • PAP WG
  • PMO recommendation
• PAP WG Standards Recommendation Template (V4.0)
  • Details on the standard developed, process followed, team assessments of standard
• Supporting documentation
  • CSWG assessment
  • SGAC assessment
  • Other
AEIC METERING GUIDELINE

• **Name:** SmartGrid/AEIC AMI Interoperability Standard Guidelines for ANSI C12.19 / IEEE 1377 / MC12.19 End Device Communications and Supporting Enterprise Devices, Networks and Related Accessories

• **Brief Abstract:** The Guideline builds on the original work from AEIC from 1998 as well as industry experience garnered from the deployment of technologies using the ANSI C12 metering protocol standards

• **POC:** Association of Edison Illuminating Companies (AEIC)
PAP 5 – AEIC GUIDELINES DISPOSITION

• AEIC Metering Guidelines provided to PAP 5 team prior to Grid-Interop

• Reviewed by PAP 5 team after Grid-Interop
  • Consensus was that PAP requirements were met
  • CSWG and SGAC reviews were positive
  • PMO reviews determined PAP processes were followed

• PMO received document from meter manufacturing community raising concerns

• Members of PMO met and agreed to delay introduction of this standard until the specific technical concerns can be addressed by the PAP 5 team

• AEIC Metering Guidelines will be introduced once resolution of the technical issues have dispositions from PAP team and AEIC
NAESB REQ18, WEQ19 BACKGROUND

Name: PAP10 Energy Usage Information

Brief Abstract: Customers will benefit from standardized energy usage information that enables them to make better decisions and take other actions consistent with the goals of Sections 1301 and 1305 of EISA.

POC: NAESB, Jonathan Booe

Why? Standardized information model of energy usage will allow customers and other authorized entities to access this important information easily and rapidly, and therefore be able to make decisions based on that information. Many vendors who are competing in this space can easily implement this standard, therefore enabling competition and innovation in consumer products.
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<th>Achieved?</th>
<th>Criteria</th>
<th>Comments</th>
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<tr>
<td>✓</td>
<td>The standard is relevant to the Smart Grid.</td>
<td>Two-way flows of usage information will improve collaboration and thereby energy efficiency</td>
</tr>
<tr>
<td>✓</td>
<td>The standard is widely acknowledged.</td>
<td>NAESB has subject matter experts and understands Energy Service Provider energy usage information</td>
</tr>
<tr>
<td>✓</td>
<td>The standard can support commercial (real-world) applications deployments.</td>
<td>New standard, has not yet been widely deployed</td>
</tr>
<tr>
<td>✓</td>
<td>Supports interoperable equipment from independent vendors</td>
<td>New standard, has not yet been widely deployed</td>
</tr>
<tr>
<td>✓</td>
<td>Multi-member organization identified for maintaining standard.</td>
<td>NAESB membership spans across all quadrants of the energy sector with regular coordination with regulatory bodies such as FERC &amp; NERC</td>
</tr>
<tr>
<td>Recommend?</td>
<td>Organization and Criteria</td>
<td>Comments</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>✓</td>
<td>The PAPWG has followed the consensus process and determined the standard meets the PAP requirements.</td>
<td>Met in person and online regularly since Nov 2009.</td>
</tr>
<tr>
<td>N/A</td>
<td>The CSWG has performed an analysis against the NISTIR requirements and determined the standard meets its requirements.</td>
<td>Addressing cyber security is “out of scope, as object models need to accommodate, but not specify specific security technology” (Nov 18, 2010)</td>
</tr>
<tr>
<td>✓</td>
<td>The SGAC has performed an analysis against the architectural requirements and determined the standard meets its requirements.</td>
<td>The example schema referenced must remain non-normative (Nov 18, 2010)</td>
</tr>
</tbody>
</table>
### NAESB PAP WG Criteria Checklist

<table>
<thead>
<tr>
<th>Achieved?</th>
<th>Criteria</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>Does completion of this standard complete work of the PAP?</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Are all WG tasks complete?</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Are all WG artifacts available on the TWiki and/or IKB?</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Was the PAP Project Lifecycle process followed?</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>Were all the PAP objectives met?</td>
<td></td>
</tr>
</tbody>
</table>

- **Overall Recommendation:**
  Add NAESB REQ18, WEQ19 Energy Usage Information to Catalog of Standards, Close PAP 10
QUESTIONS FOR STANDARDS EXPERTS

Open time to ask questions:

- Jonathan Booe, PAP 10, NAESB
  - REQ17/WEQ18 Energy Usage Information
**Near Term Anticipated Standards Completions**

- OASIS WS-Calendar – February, 2011 [PAP 4]
- Wireless Guidelines NISTIR – February, 2011 [PAP 2]
CONCLUDE MEETING

• Other Business

• Closing Remarks

• Next SGIP Meetings:
  • Governing Board: March 29, 8 am – noon EDT
    In-person, Nashville, TN
  • SGIP: March 29-31
    In-person, Nashville, TN

• Adjourn