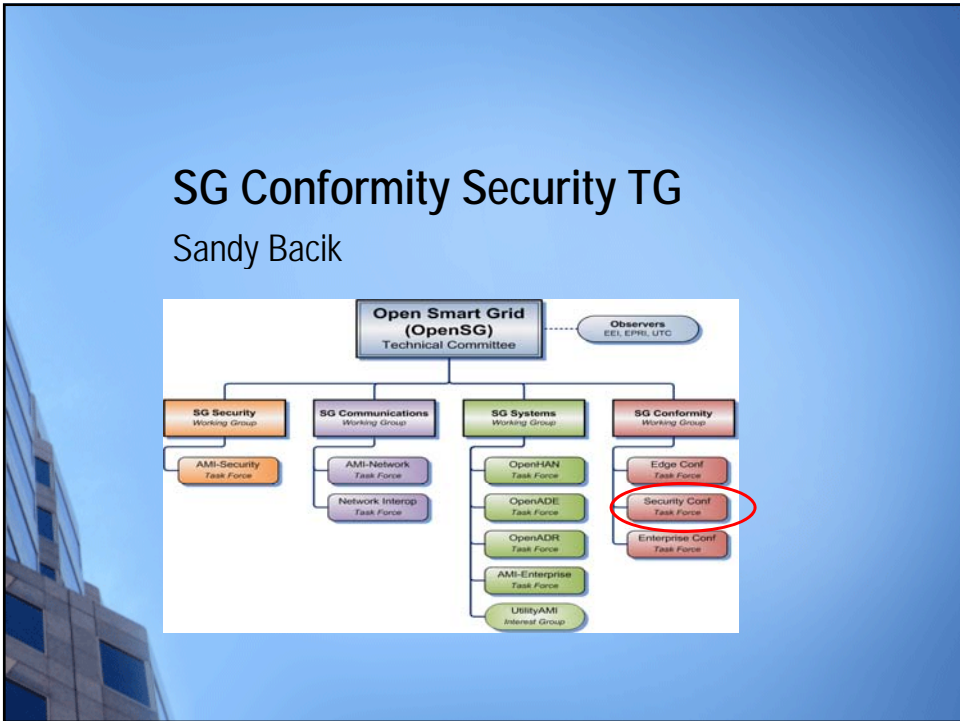




Open Smart Grid (OpenSG) SG Conformity Security

February 4, 2010



SG Conformity Security TG Charter

- Establish requirements for laboratories wishing to certify smart grid components and systems
- Establish clear scoping boundaries, perform research to identify existing models, and propose a high-level philosophy of approach
- Chair: Bobby Brown, EnerNex representing Consumers Energy, bobby@enernex.com
- Vice-Chair: Sandy Bacik, EnerNex, sandy.bacik@enernex.com

SG Conformity Security TG

Definitions:

Conformity Assessment –

- “has not been proven to be non-conformant with standard x” ~ Bruce Muschlitz
- “Is any activity to determine, directly or indirectly, that a process, product, or service meets relevant standards and fulfills relevant requirements.”
ISO/IEC Guide 2:2004

SG Conformity Security TG

Definitions:

Test Method - Is a definitive procedure that produces a test result. ASTM

- Qualitative (yes/no)
- Categorical
- Quantitative (measured value)

SG Conformity Security TG

SG Conformity Security TG Agenda

- Charter and Work Plan approval by group
- Reviewing use case resources
- Use case walk through
 - Meter Read
 - Remote Connect / Disconnect
- Volunteers for tasks
 - Use case listing (business and/or technical)
 - Convert the business use cases to technical use cases
 - Making test cases from the technical use cases

SG Conformity Security TG

February 2010

SG Conformity Progress since Knoxville

- Set up Conformity and task groups for Security
 - UCAlug sites: OSGUG.UCAIUG.ORG/...
 - Conformity
 - Conformity/security
 - osgug.ucaiug.org/conformity/security
 - Mail lists: OPENSG-xxx@SMARTGRIDLISTSERVE.ORG
 - SGCONFORMITY
 - SGCONFORM-SEC
- Tasked SECURITY groups with their scope and charter

Slide 7

SG Conformity Security TG

February 2010

Progress since Knoxville

- **Task Group established**
- **Weekly meetings established – Friday, 2:00 -3:00 EST**
- **Scope and Charter proposed**

Slide 8

SG Conformity Security TG

February 2010

Proposed Objectives for 2010

- Q1/Q2
 - Develop a baseline set of use cases
 - Convert business use cases into technical use cases
- Q2/Q3
 - Develop abstract test cases based on technical use cases

Slide 9

SG Conformity Security TG

Charter

- <http://osqug.ucaiug.org/conformity/security/Shared%20Documents/Forms/AllItems.aspx>
- Let's walk through it

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Work Plan

- <http://osguq.ucaiug.org/conformity/security/Shared%20Documents/Forms/AllItems.aspx>
- Let's walk through the tasks

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Ready to Approve

- Charter
- Work Plan

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Technical use case areas to focus

- Meter reads
- Remote connect /disconnect
- Meter replacement
- What others?

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Security Test Cases

- Functions
 - Authentication, Authorization, Auditing
 - Integrity, Confidentiality, Availability
 - What else?
- Black Box / Grey Box / White Box
- Positive / Negative
- Unit -> Component -> System

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Security Test Case Goals

- Interoperability
- Conformance with Standards
- Conformance with Vendor Claims

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AMI use case resources

- SmartGridiPedia -
http://www.smartgridipedia.org/index.php/Category:Use_Cases
- What other use case resources?

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Use case meter read

- http://www.smartgridipedia.org/images/7/7a/ARCHB1U_SECASEv12050106.pdf
- Let's walk through the use case

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Use case remote connect / disconnect

- http://www.smartgridipedia.org/images/a/a3/ARCHB2U_SECASEv12050106.pdf
- Let's walk through the use case

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Volunteers

- Group to define high level conformity requirements
- Group to review use cases
- Group to review to place uses cases as technical or business
- Group to convert business use cases to technical use cases

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Additional questions / comments

Thank you

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