Testing Process: Conformance and Interoperability

Mladen Kezunovic
Department of Electrical and Computer Engineering
Texas A&M University
kezunov@ece.tamu.edu

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Outline

• **What** are we facing?
• **Why** to take closer look now?
• **How** to deal with it?
• **When** to start preparations?
What are we facing?

- Large scale system deployment never done (by some) before?
- Focused standardizations efforts (NIST SGIP-TCC)
- Huge expectations (internal and external)
What are we facing?

Design life-cycle

- Linear
- circular
- Spiral

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Why to take closer look now?

Focused standardizations efforts (NIST SGIP):

- NIST SGIP-TCC IPRM release
- Roll out is expected in Dec 2010
- Implementation is expected in 2011
Why to take closer look now?


Interoperability Testing and Certification Authority (ITCA) is the organization whose function is to promote and facilitate the introduction of interoperable products based on a standard in the market place. The formation and maintenance of this organization, ad hoc or formal, is key to increasing the velocity of the adoptions of interoperable standards in the market place.
Why to take closer look now?


Introduces the key high-level testing and certification processes necessary to achieve interoperability in a consistent manner over time, and suggest means to coordinate with the other key organizations (SSO’s, Test labs, Certification Bodies, etc) involved in the processes of launching an interoperable set of products.
Why to take closer look now?


The SGIP SGTCC believes that the full implementation of ISO 17025 and ISO 65 will significantly increase the availability of Out-of-the-box interoperable products in the market place. However, there is a trade off between cost of testing and confidence in the results of the Interoperability testing programs.
Why to take closer look now?


Product and System Integrators
Standards Setting Organizations (SSO’s) - developing interoperability standards
SSO’s Interoperability Testing and Certification Authority
Testing Laboratories
Certification Bodies

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Why to take closer look now?


Business plan
Clear governance structure and IPR policy
Testing lab(s)
Certification body/bodies
Security certificate authority
Technical Lead(s)

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What are we facing?

- Large scale system deployment never done at that scale?
- Focused standardizations efforts (NIST SGIP TCC)
- Huge expectations (internal and external)

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How to deal with it?

- Form an ITCA
- Define process
- Identify labs
- Certify labs
- Lay out Interoperability and conformance testing process
How to deal with it?

Vendors

Users

SSO/SDO

NASPI/NERC

SSO/SDO

NERC/FERC

NASPI ITCA

SGTCC

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How to deal with it?

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When to start preparations?

IPRM Rollout plan

- Oct: 1-30: Internal SGTCC IPRM Final Review
- Oct: Pilot IPRM/ IOP Assessment with Two Standards
- Oct 31: Presentation/Released to SGIP Members
- Nov: Several Standards tested against IPR
- Nov: Webinars to Members on IPRM
- Dec: SGIP accepts IPRM… Roll out to SG

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Thank you!

Questions?

Mladen Kezunovic
Tel: (979) 845-7509
E-mail: kezunov@ece.tamu.edu