Development of standards and stakeholders involvement – Case USA

Africa Regional Standards Organization
General Assembly
Durban, South Africa

June 20, 2018
International Trade Administration (ITA)
Mission

• strengthens the competitiveness of U.S. industry

• promotes trade and investment

• ensures fair trade through the rigorous enforcement of our trade laws and agreements

• works to improve the global business environment

• helps U.S. organizations compete at home and abroad
Why Standards Matter

- Standards related trade issues are increasing due to decline in tariffs
- Standards are fundamental for trade!
- Standards are the most common non-tariff barrier that U.S. exporters face
- If used correctly, they make trade work!
Findings: Goods Exports Covered by WTO Notifications

Calculations based on WTO notifications from January 1, 2006 to August 18, 2015 by all WTO members

(Source: Okun-Kozlowicki, “Standards and Regulations: Measuring the Link to Goods Trade,” June 2016)
U.S. Standards Approach

- Private sector-led, market driven and multi-path
- Often sector specific
- ANSI coordinates U.S. system
- Decentralized - 250 standards development organizations (SDOs)
- Open participation, including non-U.S.
- Most other countries have a “top down” approach
U.S. Standards Approach

- National Technology Transfer and Advancement Act (NTTAA)
- OMB Circular A-119
- EOP Memo M-12-08 *Policy Principles for Federal Engagement in Standards Activities to Address National Priorities, White House Memo 2012*
- National Institute of Standards and Technology (NIST)
Standards Development and Stakeholders Involvement

• Escape Rescue Systems

• U.S. Government Approach to Building a 21st Century Grid

• Regional Cooperation – APEC
Standards Development and Stakeholders Involvement
Escape Rescue Systems

- External elevator for emergency evacuation in high rise building
- Clients and regulators said - need a recognized standard
- Identified National Fire Protection Association and ASTM
- Formed ASTM technical subcommittee
- Standards Institution of Israel.
- CEO became chairman of the technical subcommittee
- The Subcommittee approved the standards; NFPA incorporated into its codes

Source: ASTM International
Standards Development and Stakeholders Involvement
Escape Rescue Systems

Benefits:

- Market acceptance - Clients, regulators and labs accepted the innovative technology
- Standards serve to develop improvements and next generation
- Enables subcontracting manufacturing
- Doing business in Israel, India and South Korea

Source: ASTM International
Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

- Energy Independence and Security Act 2007 (EISA)
- National Institute of Standards and Technology (NIST) coordinate the development of a framework for interoperability.
- 2009 Secretaries of Commerce and Energy convened industry
- NIST hosted 3 public workshops with 1500 participants, published 3 separate Federal Register notices, and utilized a web-based collaboration site (i.e., a “wiki”).
- NIST Framework and Roadmap for Smart Grid Interoperability Standards, 1.0., 2.0. 3.0
- NIST created the Smart Grid Interoperability Panel (SGIP).
- NIST and SGIP created a Catalog of Standards and NIST's "Identified Standards“ – multiple standards
Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

NIST Smart Grid Interoperability Plan

- PHASE 1: Initial Framework and Standards based on Summer 2009 workshops, finalized Jan 2010
- PHASE 2: Public-Private Smart Grid Interoperability Panel (SGIP)
- PHASE 3: Testing & Certification

Next Chapter: Private-Public “New” Smart Grid Interoperability Panel (2.0)

NIST Smart Grid Research & Standards Program

Stakeholder Outreach
NIST Staff and Research & Stds
NIST / Grass Roots Support

2008
2009
2010 & 2011
2012
2013 and on

U.S. Department of Commerce | International Trade Administration
Standards Development and Stakeholders Involvement
US Government Approach to Building a 21st Century Grid

SGIP 2.0, Inc. – Board of Directors
- Executive Committee
- Audit Committee
- Membership & Marketing Committee
- Nominating & Governance Committee
- Technical Committee

SGIP Member Groups
- Working Groups
- Priority Action Plan (PAP) Teams

SGIP Products
- Conceptual Model & Roadmaps
- Requirements
- Use Cases
- White Papers
- Standards Reviews
- Catalog of Standards

Program Management Office (PMO)
- Coordination functions

Government Agencies
- NIST
- DOE
- FERC

Elected Chairpersons
- Ex-officio

Implementation Methods (SGIMC)
- Cybersecurity (SGCC)
- Testing & Certification (SGTCC)
- Architecture (SGAC)

International LOIs/MOU
- Korea
- Europe
- Japan
- Ecuador
- Colombia
- Brazil

Elected Directors (25)
- Chair, Vice-Chair, Secretary, Treasurer

Stakeholder Category
- Ex-officio

Ex-officio

SGIP 2.0, Inc.
- Board of Directors
- Executive Director
- • Administrative, Marketing & Operation support

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Standards Development and Stakeholders Involvement
Facilitating trade in cybersecurity technologies & services
Regional Cooperation – APEC

Platform
- APEC
- Workshops – underscores benefits of a multi-stakeholder approach

Stakeholders
- Sub Committee on Standards and Conformance (SCSC) prioritizes standards and conformance to support the digital economy
- APEC SCSC and TEL to engage stakeholders
- APEC and ASEAN Government cybersecurity regulators, national standards bodies, standards development organizations
- Industry representatives

Output
- Application of Globally-recognized cybersecurity standards in the region facilitates trade
- Promotion of interoperable cybersecurity frameworks supports commerce
Standards Alliance

- Public Private Partnership – USAID + ANSI

- Reflects public-private model of the U.S. system, leveraging access to expertise in the U.S. private sector and government agencies for project activities

- Assists developing countries implement WTO’s Technical Barriers to Trade (TBT) agreement

- Code of Good Practices for the adoption and application of Standards

- Promote trade and economic development

- 15 countries/regions: Initiated with ten (10) participating countries: CAFTA-DR, Colombia, EAC, Indonesia, Mexico, MENA, Peru, SADC, Vietnam, Yemen

- Expanded in 2016 to include 5 additional African countries - Cote D’Ivoire, Ghana, Senegal, Mozambique and Zambia
Thank you!

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