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

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

Executive Director
- Administrative, Marketing & Operation support

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

Elected Chairpersons
Ex-officio
Ex-officio
Ex-officio

Program Management Office (PMO)
Coordination functions

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

SGIP Member Groups
H2G
B2G
TnD
I2G
BnP
V2G
DRGS
Gas
EMII

Working Groups
Priority Action Plan (PAP) Teams
PAP 1
PAP 2
PAP 3
PAP...

Government Agencies
- NIST
- DOE
- FERC

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

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

Standing Committees & Working Groups

U.S. Department of Commerce | International Trade Administration
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!

Everett Wakai
Senior Commercial Officer
U.S. Commercial Service, American Embassy - Angola
everett.wakai@trade.gov

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