Participation in Industry Standards Development—Software and Systems Engineering

ISO/IEC JTC 1/SC7
US Technical Advisory Group
Overview

- JTC 1/SC 7 scope and relevance
- Participation through the US TAG
- Commitment and benefits
- [http://grouper.ieee.org/groups/sc7/index.html](http://grouper.ieee.org/groups/sc7/index.html)
ISO/IEC JTC 1/SC 7 Scope

- Standardization of processes, supporting tools and supporting technologies for the engineering of software products and systems
- Over 130 published standards, over 45 active projects
- Joint standards development with IEEE-Computer Society
- ISO/IEC JTC 1/SC7 membership is by National Body
  - 38 nations, 20 observers
  - Extensive participation from US, Japan, UK, Canada (secretariat), China, India, Australia, Korea

- Membership within the US is by organization
  - 20+ large enterprises, associations, governmental bodies, consultancies

- [Link](http://www.iso.org/iso/standards_development/technical_committees/list_of_iso_technical_committees/iso_technical_committee.htm?commid=45086)
SC7 US TAG

SC7 working groups

• 2 Systems and software documentation
• 4 Tools and CASE environments
• 6 Evaluation and metrics (software quality-ISO/IEC 25000 series)
• 7 Life –cycle management (ISO/IEC 12207 and 15288)
• 10 Process assessment
• 19 Metadata, modeling, notations
• 20 Bodies of Knowledge, certification
• 21 Software Asset Management (ISO/IEC 19770 series)
• 22 Vocabulary Validation
• 23 Systems Quality Management
• 24 Life-cycle for Very Small Enterprises
• 25 IT Services Management (ISO/IEC 20000 series)
• 26 Software testing
• 27 IT Business Processes
• 28 Common Industry Format for Usability
• 42 Architecture

No current SC7 US TAG involvement
Relevant areas in current projects

- Systems/software engineering life-cycle processes
- Software assurance and integrity
- Software developer tools, environments, processes, requirements engineering
- Certification of software engineering professionals
- IT service management code of practice
- Software documentation for agile development projects
- Software usability measurement
- Software testing and evaluation
- WG 21 software asset management
  - Software tagging ISO/IEC 19770
US TAG Commitments

**US:**
- Participate in two 3-day US TAG meetings annually
- Vote on standards drafts and new work proposals
- Participate in US Task Groups to develop US positions for ISO/IEC Working Groups
- Review and comment on standards drafts
- Dues of $1000 annually

**International opportunities:**
- Attend one SC7 plenary and one WG interim meeting annually (3-5 days)
  * SC7 interim Nov. 2013, Toulouse, France, or other
  * SC7 plenary May 27-31, 2013, Montreal, Canada
- Participate electronically and in person in a working group and its standards development projects
  * Editor (project lead) for standards projects

December 2011
SC7 US TAG

SC 7 US TAG Benefits

• Influence or directly shape international standards affecting software products

• Ensure that software products and services are standards-conforming for US Government and contractor customers
  - SC7 standards are cited in some contracts

• Demonstrate thought leadership in IT service management and life-cycle software engineering

• Leverage coordinating efforts in the US with participation in other SC7 national bodies (NB) and other JTC 1 Technical Committees (security, cloud, interoperability, governance)
JTC 1/SC7 US TAG Contacts

- Administered by IEEE-Computer Society
- Connected through INCITS and ANSI to JTC 1
- Chair, 2010-2013: Annette Reilly annette.d.reilly@lmco.com
- Administrator: Malia Zaman, m.zaman@ieee.org
- Vice Chair: Paul Croll, pcroll@computer.org
- IEEE-CS Liaison: James Moore, James.W.Moore@ieee.org

Membership application
US TAG policies