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SC7 Chairman Presentation to the ISO/IEC JTC 1 PLENARY

Japan, November 10-14 2008

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Introduction

SC7:

- Software and Systems Engineering
- Systems Engineering: interdisciplinary approach governing the total technical and managerial effort required to transform a set of customer needs, expectations, and constraints into a solution and to support that solution throughout its life (ISO/IEC FCD 24765, Systems and Software Engineering Vocabulary)

Introduction

SC7:

- Horizontal Committee (like ISO/TC176)
- Process/Method/Techniques focused
- Coverage of the total life-cycle of (software based) products
- Product: output of a process (ISO 9001):
 - Software Systems
 - Services related to software systems engineering and operations
 - Services provided by software systems (from an Horizontal perspective)

SC7 Market

Software Systems:

- Embedded Systems
- Information systems
- Interactive media systems

Includes also services:

- Related to the development and operations of software systems (IT and Engineering services Outsourcing/Offshoring, IT and Engineering professional competencies)
- Provided commercially by software systems (M2M Web Services, Software as a Service) from an 'Horizontal' perspective

Cooperation

Internal Key partners:

- ISO/IEC TC176
- ISO/TC 159/SC4

External Key partners:

- IEEE Computer Society
- INCOSE
- itSMF
- ISACA

Liaison challenges and opportunities

Internal:

- Overlaps with JTC1/SC27
 - > Creation of a Special Liaison Group (SGL2)
- ISO and IEC Application Domain TCs
‘Reinventing the wheel’
 - > Creation of a Special Liaison Group (SGL1) with ISO TC22 SC3 WG16 (Automotive electronics)
 - > Recognition by ISO and IEC of SC7 as an horizontal committee would help greatly

Ongoing planning activities

- Life Cycle Process Harmonization Advisory Group (LCPHAG)
- Study Group on Revision of ISO/IEC 15504
- Study group to investigate the possibility of new standards or guidance in the area of system integration
- Study group to investigate the possibility of new standards or guidance in the area of Agile Development

Ongoing planning activities

- Study group on the Application of Governance Principles to IT operations
- Study group on service and systems management standards and their integration into SC7
- Study group to determine the justification for, priority of, and schedule for, the development of standards and Technical Reports about the Governance of IT
- Study group to start the investigation into the possibility of additional standards or guidance in the area of IT Governance for digital forensics

Ongoing planning activities

IT and Engineering professional competencies:

- Systems Engineering Handbook
- Revision of the SWEBOK by the IEEE-CS

Possible future opportunities

- ‘Cloud Computing’ from an IT Service Management perspective
- Mashup
- Intelligent Systems
- Embedded Software Systems
- Systems of Systems:
 - Enterprise architecture (C liaison under consideration with The Open Group)
 - Systems architecture

Possible future opportunities

- Software Systems Assurance
- Interactive Media Systems
- IT and Engineering professional competencies:
 - Information Systems competencies

For further details..

- SC7 Web Site

<http://www.jtc1-sc7.org/>

- Planning Documents

‘Planning’ tab on SC7 Web site

http://142.137.17.56/Labo_Recherche/Lrgl/sc7/bpg.html