ISO/TC 67 Materials, equipment and offshore structures for petroleum, petrochemical and natural gas industries

Advisory Group 01 – Digital Implementation
Functions

• Common arena for Petroleum sector stakeholders – sharing experiences and plans

• including other sectors (ISO Technical Committees) – sharing experiences and plans

• Point of contact between Petroleum sector and ISO Central Secretariat (ISO CS)
  • Sharing experiences and plans with ISO CS
  • Proposing solutions and improvements to ISO CS
  • Receiving directives and tools from ISO CS
Participants

• End-users of standards
  • Operators/oil companies
  • Service/goods providers
• Digital applications developers and providers
  • Authoring tools producing machine readable standards
  • End-user tools for corporate and projects life cycle management
• Standards Developers Organizations
  • ISO
  • National Standardization Bodies liased with ISO
  • Other organizations issuing recognized standards-similar documents
Participants

• Convenor: Helge Olsen, Standards Norway
• Secretary: Beth Henneveld, NEN
• USA, UK, Germany, Netherlands, Italy, Brazil, France, Norway, Canada
Deliveries

• Task force 1: Establish Standards Authoring Guideline
  • Best practise for smooth digital implementation of content

• Task force 2: «Sentence centric» tagging/markup schema of content in standards
  • Map currently used authoring tools and end-user tools
    • Present demo’s
  • Align on tagging/markup-schema
  • Map prioritized standards to be published on the specified format

• Task force 3: Establish data-centric, semantic digital implementation solution(s)
  • Map currently used authoring tools and end-user tools
    • Present established pilot/demo case(s)
  • Map currently used digital format/information management standards (W3C, ISO, etc)
  • Define «document structure» based on system engineering principles
  • Define publication format for vocabulary, definitions and requirements to be utilized by end-users corporate/project life cycle management tools
  • Map prioritized standards to be published on the specified format
Current meeting schedule

• Task force 1: Every third Tuesday each month 14:00 – 16:30 CET from 15. Sep. 2020 to 18. Aug. 2021
• Task force 2: Every second Monday each month 14:00 – 16:30 CET from 14th Sep. until 14th Dec. 2020
• Task force 1: Every third Wednesday each month 14:00 – 16:30 CET from 16. Sep. 2020 to 17. June 2021
Informal background

This newly started Advisory Group intends to focus on what ISO can do for the petroleum sector (but preferably in a unified way in relation to other sectors) in the ongoing and future digitalization efforts. ISO is normally not inventor of new technology, but has a mandate to monitor new emerging technologies and implement deliveries compatible with these in accordance to the members and sectors preferences. Thus; it is the world outside ISO that must inform and support ISO in this process.

Focus in on the digital publishing format of content in standards – here, “standards” in is thought of in a broad sense: Everything that the sector is in consensus on and that is relevant to the entire sector (i.e. not company-specific).

It seems most suitable that a global, cross-sectoral, business-neutral body should be responsible for publishing:

- **Vocabulary** (expl. http://isoiecieee.org.vocabulary/pump) - i.e. stand-alone terms that http/internet browsers can utilize. Currently, there are many different bodies doing this in an un-coordinated way leading to overlap and ambiguity.

- **Definition of terms in a machine-understandable way** - i.e. ontologies that states what kind of functions a concept has, as well as what spatial, physical and chemical properties it has (similar to good old-fashioned data sheets, but published in triple format)

  
Informal background

• "Governing statements" (shall, should, may) that the industry agrees on:

   Expl. Voc: Car shallHaveFunctionalPart voc: safetyBelt

IOGP is not a cross-sectoral body, but is the most suitable global sector-arena to define the sector-specific aspects as listed above and then forward these to the global publishing body (ISO/IEC/IEEE). IOGP should also interact with other sectors associations working out content of cross-sectorial nature.

It seems clear from the point of view of standardization bodies that there are needs / desires for both «textual / sentence-centric» and «data-centric, semantic» solutions. Therefore, we have established two clearly separated arenas for this. Time should not be spent discussing these against each other - stakeholders should rather relate to the arenas in which they have their focus and interests. Currently, no sectors have presented to ISO matured, cross-sectorally recognized solutions for neither of these solutions - this is what this AG is focusing on now.
Information

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- Team site: https://teams.microsoft.com/_#/conversations/General?threadId=19:49dfe7eb596f4e859733d001f76fc148@thread.tacv2&ctx=channel