

ISO TC 184/SC 4/JWG 16

Formats for visualization and other derived forms of product data

AIA – ASD Interop. Coordination confcal
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Table

- ISO TC 184/SC 4/JWG 16 organization
- Work program



ISO TC 184/SC 4/JWG 16 organization

- Initiated in 2018 and hosted by ISO/**TC 184/SC 4** industrial data
 - Convenors : Soonhung Han (KR) , Christophe Mouton (FR); Secretary: Cheong-Hyuk Yoon (KR)
 - 45 registered members, average 20+ participants to the meetings
- Officially joint by:
 - ISO/IEC **JTC 1/SC 24 - Computer graphics**, image processing and environmental data representation
 - WG 6 - Augmented reality continuum presentation and interchange
 - ISO 19775 -- Extensible 3D (X3D)
 - ISO/**TC 171/SC 2** - Document file formats, EDMS systems and authenticity of information
 - WG 8 – **PDF** specification



Work program (1/3) active projects

- STEP Geometry **Services** , ISO 23301 WD
 - WD draft distributed in May 2019, Web-conf every other Thursday to complete CD
 - CD expected in March 2020 and final publication at latest March 2021
- ISO NP 17506 COLLADA: **PAS to IS**
 - Started June 2019, IS expected 2021.
- ISO NP 3151 Visualization components for the **PLM-MES** interface for plant industry
 - NWI closed in November with many comments on the scope.
- ISO TR 24464 Visualization elements of **digital twins**
 - CD ballot closed in November, many comments on the maturity of the document
 - Document is expected to start a new iteration within the committee



Work program (2/3)

- TR **Industrial requirements** for product data visualization
 - Collecting requirements from SC4 and from the joint groups: BIM, Wbe3D, 3D PDF
- ISO NWIP 14306ed3 **JT** file format specification for 3D visualization
 - NWI submitted to ISO CS
 - Project lead is GE
- WG3 - WG12/T1, Geometry Topology **Ontology**
 - SC 4 establishes a PWI to create a Technical Report on Ontology for geometry and topology.
 - SC4 nominates Ben Urick (US) as project leader with appreciation to serve in this capacity and requests member bodies and liaisons to nominate experts to this preliminary work.

Work program (3/3) 3D PDF Liaison

- 3D PDF



PDTS distributed for
comments

NEW 3D FORMATS FOR PDF

PDF with STEP - ISO/PDTS24064

- RichMedia annotations conforming to STEP AP242
 - Technical specification modified to add STEP as Rich Media Annotation
 - Previously added as 3D Annotation
 - Changing to Rich Media Annotation should all derivative standards (such as PDF/A) to inherit the changes without need for republication
 - Out for ballot now, discussed in December meeting
 - Two proof of concepts developed for 3D annotation version of PDF/STEP
 - ITI – validation
 - 3D PDF Consortium – Acrobat plug-in to create/open/save/export
 - Working on modifying Acrobat proof of concept for Rich Media Annotation