

SC4 WG16 CAD visualization

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ISO/TC84/SC4/Resolution about WG16

 Title of WG16: Formats for Visualization and other derived forms of product data
Meeting Date: 2017-11-10
Soonhung Han as Convenor and Christophe Mouton as Deputy Convenor each for a three year term

ISO/TC 184/SC 4 Plenary Meeting #: 74th Meeting Date: 2017-11-10 Meeting Location: Jeju, Korea SC 4 Resolutions: Draft



Resolution: "J" Title: Establish WG 16 (Page 1) From: PPC

Introduction:

There are a number of proposed NP and tasks related to 3D visualization and other forms of consumption of product data. These NPs have been raised within SC 4 and also other subcommittees. It is therefore proposed to create a new WG which may be joint with JTC 1/SC 24 and TC 171/SC 2 to undertake these work items.

Objective:

To define the terms of reference for the proposed WG in preparation for the acceptance of one or more relevant work items.

Resolution:

SC 4 requests its Secretariat to create WG 16 with the following title and scope

Title: Formats for Visualization and other derived forms of product data

Scope:

- Develop and maintain format and interface standards for 3D visualization of product models, including visualization of different classes of derived information such as geometry, product structure and others.
- Develop and maintain standards for consumption of data derived from and associated with product models.
- Develop and maintain standards for interfaces from SC 4 product definition standards.
- Establish liaison with other standards activities working on information models for 3D visualization.

SC 4 requests its Secretariat to assign any NP within scope to WG 16. SC 4 appoints Soonhung Han as Convenor and Christophe Mouton as Deputy Convenor each for a three year term, with appreciation for this offer to serve in that capacity.

Attached documents:	Yes 🗌	None 🛛	
Click here to enter text			



SC4 visualization requirements in 2008

•Attachment •C+

Formats candidate list.

Note that this is an open list and that the order. on which the formats are registered is meaningless.

Format [.] usual [.] name _.	Source	
U3D _e	http://www.ecma-international.org	
X3D.	http://www.web3d.org/.	
3D-XML	http://www.3ds.com/	
JTOpen.	http://www.jtopen.com/	
MPEG-4.	ISO/IEC/JTC1/SC29/WG11.	
COLLADA	http://www.collada.org	
Lattice 3D XVL	tice·3D·XVL ^o <u>http://www.lattice3d.com</u> ^o	
تھ	P	

Visualisation requirements.

Status of Document.

* Reference :-	Visualisation ad hoc group report Industrial requirements for product data visualisation	
Date':-	2008-06-12-	
Author:•	Oscar·ROCHA RENAULT·SAS oscar.rocha@renault.com	
Type::-	Report	
Doc-ID":«	e .	
Revision ::-	3.0.0	
Status::.	Final Version.	

Ad hoc group members.

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JYD_{ε^2}	DELAUNAY, Jean-Yves	Airbus₽	jean-yves.delaunay@airbus.com
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JT - ISO 14306

ISO 14306:2012, Industrial automation systems and integration -- JT file format specification for 3D visualization

<u>http://www.iso-jt.org/</u>



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Fig. 8. Figure 4: ISO Roadmap for JT and STEP AP242





ISO/TC171 3D PDF

ISO/TC171/SC2/WG8 PDF Working Groups, Draft Resolutions, 30 November 2017, San Jose

ISO/TC171/SC2 resolves to form an Ad Hoc Group with TC184/SC4 to draft a proposal for including ISO 10303 (STEP) as a valid 3D stream. The STEP Ad Hoc Group includes Phil Spreier (Chairman), Peter Noyes, Leonard Rosenthol, and Stuart Galt.

ISO/TC171/SC2/WG8 resolves to join the TC184/SC4/WG16 to develop and maintain standards for 3D visualization of product models. TC171/SC2/WG8 appoints Stuart Galt as liaison member of the ad hoc group.

Ad Hoc Group TC 171/SC2 and TC 184/SC 4

Wednesday, December 20, 2017 6:02 AM

Agenda

- 1. Introductions
- 2. Review of TC 171/SC 2 resolutions
- 3. Review of TC 184/SC 4 requirements
- 4. Next Steps

Introductions

Team facilitator for the meeting was Kenny Swope, Chair of TC 184/SC 4 and liaison officer from SC 4 to TC 171/SC 2. Members of the ad hoc group are:

Name	Email	Role	
Kenny Swope	Kenneth.a.swope@boei ng.com	Liaison Officer from SC 4 to SC 2	
Peter Noyes	pnoyes@bluebeam.com	SC 2 Expert	
Christophe Mounton	christophe.mouton@ed f.fr	SC 4 Expert and Deputy Convenor of SC 4/WG 16	
Phil Spreier	phil.spreier@ 3dpdfconsortium.org	Chair of Ad Hoc Group	
SoonHung Han	shhan@kaist.ac.kr	SC 4 Participant and Convenor of SC 4/WG 16	
Stuart Galt	stuart.a.galt@boeing.co m	SC 2 Expert	
Leonard Rosenthal	lrosenth@ <mark>adobe.com</mark>	SC 2 Expert (not present for today's meeting)	

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TransCAD of KAIST iCAD lab.

- A CAD which is specialized for parametric CAD translations
 - History-based parametrics
- Translate commands stream instead of geometry itself
 - A common set of modeling commands of commercial CAD systems
- Translators for Dassault-Catia, UG-NX, Plant CAD (Intergraph, Aveva)
- WebTransCAD: X3D viewer
- https://www.youtube.com/watch?v=HtPvkA25Uow&feat ure=youtu.be



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Thank You

