

P3333.2.5

Submitter Email: ylm2103@gmail.com
Type of Project: Modify Existing Approved PAR
PAR Request Date: 19-Dec-2016
PAR Approval Date: 17-Feb-2017
PAR Expiration Date: 31-Dec-2019
Status: Modification to a Previously Approved PAR
Root PAR: P3333.2.5 **Approved on:** 03-Sep-2015
Project Record: P3333.2.5

1.1 Project Number: P3333.2.5
1.2 Type of Document: Standard
1.3 Life Cycle: Full Use

2.1 Title: Standard for Bio-CAD File Format for Medical Three-Dimensional (3D) Printing

3.1 Working Group: 3D Based Medical Application Working group (EMB/Std Com/3333.2)

Contact Information for Working Group Chair

Name: Young Lae Moon
Email Address: ylm2103@gmail.com
Phone: +82-62-220-3147

Contact Information for Working Group Vice-Chair

Name: Emre Huri
Email Address: emrehuri@gmail.com
Phone: +90 532 2966078

3.2 Sponsoring Society and Committee: IEEE Engineering in Medicine and Biology Society/Standards Committee (EMB/Std Com)

Contact Information for Sponsor Chair

Name: Carole Carey
Email Address: c.carey@ieee.org
Phone: 301-776-9882

Contact Information for Standards Representative

None

3.3 Joint Sponsor: IEEE Computer Society/Standards Activities Board (C/SAB)

Contact Information for Sponsor Chair

Name: p eastman
Email Address: peastman@cox.net
Phone: (602) 993-7085

Contact Information for Standards Representative

Name: Jon Rosdahl
Email Address: jrosdahl@ieee.org
Phone: 801-492-4023

4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 12/2018

4.3 Projected Completion Date for Submittal to RevCom

Note: Usual minimum time between initial sponsor ballot and submission to Revcom is 6 months.: 10/2019

5.1 Approximate number of people expected to be actively involved in the development of this project: 40

5.2 Scope: This standard defines the Bio-CAD format for three-dimensional (3D) Printing based on Sectional Scan image data containing surface and volumetric information. Standardization is related to medical 3D printing services, including anatomic, pathologic models and medical instrument printing based on two-dimensional images, three-dimensional medical data and other medical data.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: To establish the standardization of accurate and optimized Bio-CAD file format system for medical 3D Printing.

5.5 Need for the Project: Medical 3D Printing has high technological barriers, which do not necessarily exist in other industries. Medical 3D Printer requires high reliability in producing useful and cost-effective products leading to the market and process standardization of 3D solutions to various requirements.

5.6 Stakeholders for the Standard: 3D Printer Manufacturers

3D Printing filament (material) manufacturers

Medical Imaging Equipment Manufacturers

Manufacturer of 3D devices including 3D monitor and 3D display panel

Medical 3D signal processing engine developers

S/W programmers for 3D volume imaging

Medical practitioner

Health care manager

Medical researcher

Medical device developer

Technical expert

3D product manufacturer

Intellectual Property

6.1.a. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.b. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 Joint Development

Is it the intent to develop this document jointly with another organization?: Yes

Organization: ISO

Technical Committee Name: Additive manufacturing

Technical Committee Number: TC 261

Contact Name: Mr Lutz Wrede

Phone: +49 30 26 01-0

Email: directorate.international@din.de

8.1 Additional Explanatory Notes: A modified PAR is submitted to update primary sponsor as IEEE Engineering in Medicine and Biology Society/Standards Committee (EMB/Std Com) and joint sponsor as IEEE Computer Society/Standards Activities Board (C/SAB).