

世界知识产权组织标准委员会（CWS）

第七届会议

2019年7月1日至5日，日内瓦

立体工作队关于第61号任务的报告

立体工作队牵头人编拟的文件

背景

1. 在产权组织标准委员会（CWS）第六届会议上，委员会注意到俄罗斯联邦代表团提交的一项提案，即知识产权局更广泛地接受立体模型将更好地服务于用户的需求，并且使用立体格式将允许更有效的检索方式和比较分析。标准委员会为此设立了第61号任务，其说明为：

“编写一份关于立体模型和图像建议的提案。”

2. 标准委员会组建了立体工作队（3DTF）执行该项任务，并指定俄罗斯联邦作为工作队牵头人（见文件CWS/6/34第138至144段）。

3. 国际局于2018年11月发出通函C.CWS.108，邀请提名加入数字转型工作队。来自14家知识产权局的代表经提名加入了该工作队。

进展报告

4. 搭建了一个3DTF维基论坛供工作队成员之间进行讨论。工作队牵头人编写了一份立体模型目前使用情况的审查报告供工作队内部进一步讨论，包括评论意见供工作队成员分享其观点和经验。工作队进行了讨论并提出了知识产权局立体模型建议范围草案。

5. 为收集各知识产权局和用户（申请人）关于使用立体模型和图像的做法和预期的有关信息，工作队起草了一份问卷（转录于本文件附件），并在工作队内部进行了一次简短调查。

6. 工作队收到了以下工作队内部调查成果：

(a) 欧洲联盟知识产权局（EUIPO）的欧洲联盟共同体外观设计注册（RCD）在线申请服务接受立体外观设计的三种文档格式，已总计收到 980 份文档；

(b) 大韩民国自 2010 年相关实施细则经修正以来，已经可以接受用立体模型文档申请知识产权权利。在其申请系统中可用 3DS、DWG、DWF、IGES 和 3DM 作为外观设计表现形式的格式（即使不附平面图像），每年向韩国特许厅递交的外观设计申请超过 3,000 项。

(c) 日本特许厅目前不使用任何立体模型或图像；而

(d) 美国专利商标局目前在申请和审查阶段接受商标的立体模型和图像。

7. 工作队认为，为编写产权组织关于立体模型和图像建议的提案，有必要收集知识产权局以及产业界和用户目前关于立体模型的做法和偏好。因此，工作队提交了一份问卷草案（转录于本文件附件）供标准委员会本届会议审议，并要求秘书处发出通函邀请各知识产权局对问卷做出答复。工作队正在编制第二份问卷以调查产业界和用户关于立体模型的需求和偏好，供标准委员会第七届会议审议。

工作计划草案

8. 工作队进行了讨论并提出以下 2019-2020 年工作计划：

措施	预期措施	计划日期
在标准委员会第六届会议上组建工作队	<ul style="list-style-type: none"> 已组建工作队 已邀请知识产权局 已启动工作队内部讨论 已编写问卷草案 	2018 年 10 月标准委员会第六届会议至 2019 年 1 月 (已完成)
对工作队成员中的目前做法进行一次调查	问卷已在工作队成员中发放。	2019 年 1 月 (已完成)
收集分析调查回复	收到调查回复和问卷的评论意见并纳入考虑。	2019 年 3 月 (已完成)
起草进展报告	进展报告草案。	2019 年 4 月 (已完成)
提交进展报告和问卷草案供标准委员会第七届会议 (CWS/8) 审议或批准	进展报告和问卷得到批准或收到评论意见。 开始在各知识产权局及用户和产业界中进行调查。	2019 年 7 月 (标准委员会第七届会议)
开展对知识产权局、用户和产业界的调查	向各知识产权局发出通函。 工作队成员向用户和产业界开展外联活动。 汇集分析结果。	2019 年下半年
根据调查结果编写产权组织建议草案	与立体工作队成员讨论调查结果。 确认有共同基础的领域。 起草建议。	2020 年上半年
提交产权组织建议草案供标准委员会第八届会议 (CWS/8) 审议或批准	产权组织关于立体模型的建议得到批准或收到评论意见。	标准委员会第八届会议 (待定)

9. 请标准委员会：

(a) 注意本文件的内容；

(b) 注意立体工作队的工作计划，并鼓励各知识产权局参与工作队的讨论；

(c) 审议批准转录于本文件附件的知识产权局使用立体模型调查问卷；

(d) 要求秘书处经标准委员会批准后发出通函，邀请各知识产权局对附件中的调查做出答复；并

(e) 就秘书处是否以及如何用上文第 7 段所述的第二份问卷管理对产业界和用户的调查提出建议。

[后接附件]

DRAFT QUESTIONNAIRE ON THE USE OF 3D MODELS AND IMAGES IN IP DATA AND DOCUMENTATION

Glossary

3D model – An electronic file that is created by specialized software, for mathematically representing the surface of an object in three dimensions

3DS – A file format used by the Autodesk 3ds Max 3D modeling, animation and rendering software

DWF – Design Web Format

DWG – A file format widely used for CAD drawings

IGES – Initial Graphics Exchange Specification

OBJ – An open geometry vertex file format used for CAD and 3D printing

Raster image – An image that is composed of a map of points (pixels), referred to as a bitmap. Typical file formats for raster images include JPEG, TIFF, PNG and BMP

STL – Standard Tessellation Language - a file format native to the stereolithography CAD software created by 3D Systems

STEP – Standard for the Exchange of Product model data –an open ISO Standard which can represent 3D objects in Computer-aided design (CAD) and related information

Vector graphics – An image file that is composed of shapes formed of mathematical formulas and coordinates on a 2D plane. As opposed to raster images, vector graphics have the property of scaling infinitely without any degradation of quality

X3D – Successor of VRML, an Open ISO Standard XML format

Q1. IP objects and stages of their lifecycle

Q1.1. Does your office currently use 3D models or images for IP objects within the office? If so, for which IP objects:

- Trademarks
- Designs
- Inventions
- Utility models
- Integrated circuit topology
- Other (please specify: _____)

Q1.2. Does your office consider using 3D models or images for IP objects in the future? If so, for which IP objects:

- Trademarks
- Designs
- Inventions
- Utility models
- Integrated circuit topology
- Not sure
- Other (please specify: _____)

Q1.3. On which stages of IP objects` lifecycle does your office currently accept/implement 3D models?

a) Trademarks

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

b) Designs

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

c) Inventions

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

e) Utility models

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

f) Integrated circuit topology

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

e) Other (please specify: _____)

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

Q1.4. Does your Office carry out any image transformations? If so, for which objects and on which stages?

a) Trademarks

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

b) Designs

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

c) Inventions

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

e) Utility models

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

f) Integrated circuit topology

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

- Other (please specify: _____)

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Other (please specify: _____)

Q1.5. On which stages of IP objects` lifecycle does your office consider accepting/implementing 3D models in the future?

a) Trademarks

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____)

b) Designs

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____)

c) Inventions

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____)

e) Utility models

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____).

f) Integrated circuit topology

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____)

e) Other (please specify: _____)

- Filing of the application
- Examination
- Storage
- Search
- Publication
- Data exchange
- Not sure
- Other (please specify: _____)

Q2. Existing practices and future plans.

Q2.1. Please describe existing practices/future plans for using 3D models and images within your office.

Q3. Regulations

Q3.1. What patent laws and regulations concerning 3D models and images are implemented within your jurisdiction?

Q4. Formats and technical tools

Q4.1. Which formats of 3D models or images does your office use at the moment? Does your office use the same or different formats for different stages of lifecycle: filling, examination, publication etc.?

Q4.2. Which formats of 3D models or images does your office consider using in the future? Does your office consider using the same or different formats for different stages of lifecycle: filling, examination, publication etc.?

Q4.3. Please provide us with your suggestions and proposals on formats and reasons why you suppose them to be important (a list of formats to consider) except mentioned in items 6.1, 6.2

Q4.4. Which technical tools does your office currently use to work with 3D models (i.e. viewers, converters, etc.)? Are these standard tools commercially available, or do you consider using any special tool developed for your Office or by your Office?

Q4.5. Which technical tools does your office consider using in future work with 3D models (i.e. viewers, converters, etc.)? Are these standard tools commercially available, or do you consider using any special tool developed for your Office or by your Office?

Q4.6. Please provide us with your suggestions and proposals on tools and reasons why do you suppose them to be important (a list of tools to consider)

Q5. Specific requirements and limitations

Q5.1. Please provide us with preferable specific file requirements? Should they be the same or different for different objects and stages (i.e. limitations and restrictions for 3D files, size (Mb) and format of 3D model for storing, processing, and sharing, etc.)

Q5.2. In your opinion, what would be the main requirements when choosing 3D file formats (open source, wide spread adoption, etc.)

Q5.3. In your opinion, what would be the main requirements when choosing tools for working with 3D files?

Q6. Any other comments

[附件和文件完]