

Committee on WIPO Standards (CWS)

Sixth Session
Geneva, October 15 to 19, 2018

QUESTIONNAIRE ON THE ELECTRONIC REPRESENTATIONS OF DESIGNS

Document prepared by the Design Representation Task Force

1. The Committee on WIPO Standards (CWS) at its fifth session held from May 29 to June 2, 2017 created the new Task No. 57 to “Collect information about the requirements from industrial property offices and customers; and prepare recommendations for electronic visual representations of designs”. It also established the Design Representation Task Force (DRTF) to carry out the Task.
2. In order to collect the information from industrial property offices (IPOs), the Task Force prepared a draft questionnaire, which is reproduced as the Annex of this document. In the preparation, the Task Force noted that the current requirements on the electronic representations of designs are very different. For example, some IPOs accept 2D image files only while others accept 3D model or even video files. Therefore, in order to prepare the recommendations for electronic visual representations of designs, the Task Force requests the CWS to encourage IPOs to actively participate in the survey.
3. The Task Force plans to conduct a survey in December 2018 and report the outcome of survey at the seventh session of the CWS if the proposed questionnaire is approved at this session (see paragraph 8 of documents CWS/6/28). The International Bureau should be requested to prepare and issue a circular inviting IP Offices to complete the questionnaire.

4. *The CWS is invited to:*

(a) note the content of the present document and its Annex;

(b) consider and decide on the proposed questionnaire on electronic visual representation regarding industrial designs, as reproduced in the Annex to the present document; and

(c) consider and decide on the proposed actions to be undertaken by the Design Representation Task Force and the International Bureau, as specified in paragraph 3, above.

[Annex follows]

DRAFT QUESTIONNAIRE ON THE ELECTRONIC REPRESENTATIONS OF DESIGNS

CONTACT DETAILS

Name: _____

*Please indicate the name of the person who filled in the questionnaire, in the format "FIRST NAME
LAST NAME".*

Title: _____

Please indicate the title of the person who filled in the questionnaire.

Country/Organization: _____

Please indicate the country name or the name of your Organization and the corresponding ST.3 code.

E-mail address: _____

Please indicate the e-mail address of the person who filled in the questionnaire.

Telephone: _____

Please indicate the telephone of the person who filled in the questionnaire.

GLOSSARY OF TERMS AND ACRONYMS

Term	Definition
2D/3D	Two/three dimensional
3D model	An electronic file that is created by a specialized software, for mathematically representing the surface of an object in three dimensions
3D PDF	3D models in PDF
3DS	A file format used by the Autodesk 3ds Max 3D modeling, animation and rendering software
API	Application programming interface
DPI	Dot per inch
Design representation	Any image on paper or in electronic files or a physical specimen for the purpose of visually representing the design
DWF	Design Web Format
DWG	A file format widely used for CAD drawings
FTP	File Transfer Protocol
GIF	The Graphics Interchange Format
Hologram	A photographic recording of a light field, rather than of an image formed by a lens, and it is used to display a fully three-dimensional image of the holographed subject
IGES	Initial Graphics Exchange Specification
Image search	A method of search for designs by inputting one or more images
JPEG	Joint Photographic Experts Group (JPEG)
Metadata search	A method of search for designs by inputting metadata text
MP4	A digital multimedia container format most commonly used to store video and audio
OBJ	An open geometry vertex file format used for CAD and 3D printing

PDF	Portable Document Format
PNG	Portable Network Graphics
PPI	Pixel per inch
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
SVG	Scalable Vector Graphics, an XML-based vector graphic format based on an open standard developed by the W3C.
TIFF	Tagged Image File Format
URL	Uniform Resource Locator
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.
View	The formed 2D image when the design (normally a 3D object) is viewed or projected, e.g., front view, rear view, perspective view
X3D	Successor of VRML, an Open ISO Standard XML format

PART 1- FILING REQUIREMENT

This part of the questionnaire relates to the application requirements for the design representations.

Question 1 – figures on type of filing and representation

Please supply the statistics concerning paper and electronic filing.

Type of filing	2015	2016	2017	Total
Paper filing				
Electronic filing				
Type of representation	2015	2016	2017	Total
2D views				
3D models				
Video				
Specimen				
Hologram				

Question 2 – 2D, 3D and video representation and limitations

Please tick or specify the design representations electronic files that are acceptable by your Office/Organization.

(a) 2D image

Image type	Acceptable?	Minimum size (width x height in pixel)	Maximum size (width x eight in pixel)
JPEG			
TIFF			
PNG			
GIF			
PDF			
SVG		Not Applicable	Not Applicable
Other (specify)			

(b) 3D models

3D model format	Acceptable?	Indicate any limitation
3D PDF		
3DS		
DWG		
DWF		
IGES		
STL		
X3D		
OBJ		
Other(specify)		

(c) Video

Video format	Acceptable?	Indicate any limitation
MP4		
Other(specify)		

(d) File limitation

- Accept images in color
- Accept images in grayscale
- Accept images in black/white
- Accept photograph images
- The maximum number of characters in an electronic file name is limited. (If yes, how many characters?):

- The maximum size of an electronic file in MB:

- The maximum size of the sum of all electronic files for one design in MB:

- The maximum number of electronic files per design:

- Allow one electronic file to represent more than one view.
- Allow one view to be split into more than one electronic file.
- Others (specify)

Question 3 – Paper format

Please tick or specify the design representations on paper that are acceptable by your Office/Organization:

- Minimum image size (specify width x height in cm)

- Maximum image size (specify width x height in cm)

- Allow more than one view on each page.
- Allow a view to be split into more than one page.

- Minimum paper size (specify width x height in cm)

- Maximum paper size (specify width x height in cm)

- URL for requirement details

Question 4 – Capture of representation in paper and/or specimen

Please tick or specify the requirement at your Office/Organization to capture the view images into electronic files from the images on paper and/or specimen submitted by the applicant.

- No view image capture from paper
- No view image capture from specimen
- Resolution in DPI (specify)

- The output image is black/white unless color is necessary.
- The output image is always in color.
- The output file format (e.g., JPEG, TIFF) is:

- The output image has the same legal authenticity as the original paper/specimen.
- How many years is the original paper/specimen kept for as authentic record?

- The original paper/specimen is destroyed after quality assurance of the captured view images.

Question 5 – Capture 2D views from 3D-model or video

Please tick or specify the requirement at your Office/Organization to capture the 2D views from the 3D-model or video submitted by the applicant.

- Not applicable
- No view image capture from 3D models
- No view image capture from video
- Summary of the requirement and process

- URL for details of the requirement and process

Question 6 – Capture of hologram

Please tick or specify the requirement at your Office/Organization to capture the view images into electronic files from the holograms submitted by the applicant.

- Not applicable as no holograms are accepted
- No view image capture from hologram
- Summary of the requirement and process

- URL for details of the requirement and process

Question 7 – Image transformation

Please tick or specify the image transformations that your Office/Organization carries out for capture, processing or publication preparation.

- No transformations (defective images are rejected)
- Color corrections for scanned images
- White-space trimming (please specify the conditions)

- Scaling and resizing (please specify the conditions)

- File format conversions

- Rasterizing vector images

- Other transformations

PART 2 – THIRD PARTY SUBMITTING DESIGN REPRESENTATIONS

This part of the questionnaire relates to the requirements for the design representations from non-applicants (e.g., a third party submitting a prior art). Does your Office/Organization have the same requirement for the design representations from applicants and non-applicants?

- Not applicable
- Yes
- No, there are no specific requirements for non-applicants
- No, there are different requirements for non-applicants (specify)

PART 3 – PUBLICATION OF DESIGN REPRESENTATIONS

This part of the questionnaire relates to the publication requirements for the design representations.

Question 1 – Publication type

Please tick or specify the ways by which your Office/Organization publishes the design representations.

- On-line publication for web browser access
- On-line publication for web service (API) access
- Data and image files available on a public repository (e.g., FTP)
- Paper publication
- Others (specify)

Question 2 – 2D and 3D representation and limitations

Please tick or specify the requirements by which your Office/Organization publishes the design representations on-line.

- Not applicable
- Only publish 2D view images
- Publish 3D models if available
- Publish video if available
- All 2D design representations are published in a single format (e.g., PDF) (specify)

- 2D Design representations are published in multiple formats (e.g., PDF and JPEG) (specify)

- The published design representations are exactly the same as what have been filed by the applicant.
- The published design representations may differ from what have been filed by the applicant in file format (e.g., from JPEG to PDF).

- The published design representations may differ from what have been filed by the applicant in image size by pixels.
- The published design representations may differ from what have been filed by the applicant in quality (e.g., color to B/W conversion).
- Publish 2D image in JPEG
- Publish 2D image in TIFF
- Publish 2D image in PNG
- Publish 2D image in GIF
- Publish 2D image in SVG
- Publish 2D image in PDF
- Publish 2D image in other format(specify)

- Minimum 2D raster image size (specify width x height in pixel)

- Maximum 2D raster image size (specify width x height in pixel)

- Publish 3D image (specify the format)

- Publish Video (specify the format)

- Publish black/white images unless color is necessary

- The maximum number of characters in an electronic file name is limited. (if yes, how many characters?):

- The maximum size of an electronic file in MB:

- The maximum size of the sum of all electronic files for one design in MB:

- The maximum number of electronic files per design:

- Allow one electronic file to represent more than one view.
- Allow one view to be split into more than one electronic file.
- Others (specify)

PART 4 – DISPLAY OF DESIGN REPRESENTATIONS ON SCREEN

This part of the questionnaire relates to the requirements for displaying design representations in your office's process of formality/substantive examination and administration of design applications and registrations.

Question 1

Please tick or specify the ways by which your Office/Organization displays the design representations.

- Electronic display
- Paper printing
- Others (specify)

Question 2

Please tick or specify the requirements by which your Office/Organization displays the design representations electronically.

- Not applicable
- 2D design representations are converted into a single raster format (e.g., JPEG) for displaying (specify)

- 2D Design representations are converted into multiple raster formats (e.g., PNG and JPEG) (specify)

- The displayed design representations are exactly the same as what have been filed by the applicant.
- The displayed design representations may differ from what have been filed by the applicant in file format (e.g., from JPEG to PNG).
- The displayed design representations may differ from what have been filed by the applicant in image size by pixels.
- The displayed design representations may differ from what have been filed by the applicant in quality (e.g., color to B/W conversion).

- Minimum 2D image size (specify width x height in pixel)

- Maximum 2D image size (specify width x height in pixel)

- The minimum display bit depth is:
- The maximum display bit depth is:
- Minimum display resolution in PPI is:
- Maximum display resolution in PPI is:
- 3D model (specify the format)

- Video (specify the format)

- Display black/white images unless color is necessary.
- The maximum size of an electronic file in MB:

- The maximum size of the sum of all electronic files for one design in MB:

- The maximum number of electronic files per design:

- Allow one electronic file to represent more than one view.
- Allow one view to be represented in more than one electronic file.
- Others (specify)

PART 5 – CERTIFICATE AND PRIORITY DOCUMENTS

This part of the questionnaire relates to the requirements for the document that evidences the recording of the design rights, such as a copy of the design application (priority document), certificate of registrations or a design patent.

Question 1

Does your Office/Organization have the same requirement for displaying the images in the publication and in the document evidencing the recording of the design rights?

- Yes
- No (please specify the requirements)

PART 6 – INDEXATION AND SEARCH

This part of the questionnaire relates to the requirements for searching design representations in your office's process of formality/substantive examination and administration of design applications and registrations.

Question 1

Please tick or specify the ways by which your Office/Organization searches the design representations.

- metadata search
- Image search
- Combination of metadata and image search
- Others (specify)

Question 2

Please tick or specify the metadata used in your Office/Organization's image search system.

- Not applicable
- List of metadata used

- URL for more information on your image search system

[End of Annex and of document]