

CWS/11/5

الأصل: بالإنكليزية

التاريخ: 21 سبتمبر 2023

## اللجنة المعنية بمعايير الويبو

الدورة الحادية عشرة  
جنيف، من 4 إلى 8 ديسمبر 2023

اقترح مراجعة معيار الويبو ST.88

وثيقة من إعداد المشرفين المشاركين على فرقة العمل المعنية بتصاوير التصميم

### ملخص

1. تقترح فرقة العمل المعنية بتصاوير التصميم (فرقة العمل) تنقيحات للنسخة الحالية من معيار الويبو ST.88 من أجل إدراج توصيات بشأن الصور والنماذج ثلاثية الأبعاد من خلال الإشارة إلى معيار الويبو ST.91، وتحسين الاتساق والوضوح عن طريق إجراء تغييرات مطبعية بسيطة.

### معلومات أساسية

2. اعتمدت اللجنة المعنية بمعايير الويبو (لجنة المعايير)، في دورتها الثامنة المعقودة في نوفمبر 2020، معيار الويبو الجديد ST.88 بعنوان "توصيات بشأن التصاوير الإلكترونية للتصاميم الصناعية"، وطلبت من فرقة العمل إعداد اقتراح بشأن معالجة نسق الرسومات الموجهة القابلة للتحجيم (SVG) في الدورة المقبلة للجنة (انظر الوثيقة CWS/8/24، الفقرات من 31 إلى 41). وفي ذلك الوقت، لوحظ أيضاً أن المعيار بصيغته المعتمدة لا يقدم توصيات بشأن الصور والنماذج ثلاثية الأبعاد، واقترح إعادة النظر في الموضوع في وقت لاحق من أجل مراجعة المعيار إذا لزم الأمر.

3. ووافقت لجنة المعايير في دورتها التاسعة على مراجعة معيار الويبو ST.88، وإدراج نسق الرسومات الموجهة القابلة للتحجيم كنسق اختياري في الفقرة 12 من المعيار (انظر الوثيقة CWS/9/25، الفقرات من 80 إلى 83).

4. وعقب اعتماد معيار الويبو الجديد ST.91 بعنوان "توصيات بشأن النماذج والصور الرقمية الثلاثية الأبعاد" في الدورة التاسعة للجنة، ومع مراعاة المهمة رقم 57 "ضمان المراجعات والتحديثات اللازمة لمعيار الويبو ST.88"، نظر المشرفان المشاركون في فرقة العمل مرة أخرى في مسألة إدراج توصيات بشأن الأبعاد الثلاثية في معيار الويبو ST.88، إما بصورة صريحة أو عن طريق الإشارة إلى معيار الويبو ST.91.

5. وخلال عام 2023، نُشر على صفحة الويكي الخاصة بفرقة العمل مشروعان مشفوعان بجولتين للمناقشة بين أعضاء فرقة العمل. وقد أُدرجت جميع التعقيبات الواردة من أعضاء فرقة العمل، وهي واردة هذا الاقتراح النهائي لمراجعة معيار الويبو ST.88.

### المراجعة المقترحة لمعيار الويبو ST.88

6. أعدت فرقة العمل اقتراحاً بشأن مراجعة معيار الويبو ST.88 لكي تنظر فيه لجنة المعايير وتوافق عليه، عند الاقتضاء. وترد المراجعة المقترحة بالتفصيل في مرفق وثيقة العمل هذه، ويرد تلخيصها أدناه. ويمكن تصنيف نوعي التغييرات على النحو التالي:

– **الفئة 1:** تتعلق هذه الفئة بإدراج توصيات بشأن الصور والنماذج ثلاثية الأبعاد من خلال الإشارة إلى معيار الويبو ST.91؛

– **الفئة 2:** تغطي هذه الفئة التغييرات المطبعية الطفيفة من أجل تحسين الاتساق والوضوح.

7. ويرد فيما يلي ملخص للتغييرات المندرجة ضمن الفئة 1، كما هو مبين في المرفق:

(أ) الفقرة 3 (أ): تحديث التعريف الحالي لمصطلح "3D model" (نموذج ثلاثي الأبعاد) للتماشي مع التعريف الوارد في معيار الويبو ST.91؛ وإضافة حاشية تشير إلى المعيار ST.91؛

(ب) الفقرة 3 (ب): إضافة مصطلح جديد هو "3D image" (صورة ثلاثية الأبعاد) مصحوب بالتعريف الوارد في المعيار ST.91؛ وإضافة حاشية تشير إلى المعيار ST.91؛

(ج) الفقرة 5 (د): إضافة إشارة جديدة، وهي "معيار الويبو ST.91. توصيات بشأن النماذج والصور الرقمية الثلاثية الأبعاد"؛

(د) الفقرة 17: إضافة عنوان لقسم جديد وفقرة على النحو التالي:

#### "توصيات بشأن نسق الصور والنماذج الإلكترونية ثلاثية الأبعاد وحجمها

17. ويُوصى بأن تتبع أنساق الصور والنماذج ثلاثية الأبعاد للتصاميم الصناعية، عندما يقبلها المكتب، التوصيات ذات الصلة الواردة في معيار الويبو ST.91؛"

(هـ) الفقرة 25: إضافة فقرة جديدة، على النحو التالي:

"وإذا قُدمت الهولوجرامات على أنها صور أو نماذج ثلاثية الأبعاد، فينبغي حينها أن تُتبع التوصيات المتعلقة بالصور والنماذج ثلاثية الأبعاد المذكورة أعلاه؛"

(و) الفقرات من 33 إلى 35: تحديث نهاية كل فقرة بإضافة ما يلي:

"(فيما يتعلق بالتوصيات المحددة للصورة والنماذج ثلاثية الأبعاد، انظر أيضاً معيار الويبو ST.91)؛"

(ز) الفقرة 41: إضافة فقرة جديدة بشأن توصيات تحويل الصور الإلكترونية، على النحو التالي:

"وبغية تحويل الصور والنماذج ثلاثية الأبعاد، بما في ذلك تحويل الصور أو النماذج ثلاثية الأبعاد إلى عروض ثنائية الأبعاد، ينبغي اتباع التوصيات ذات الصلة الواردة في معيار الويبو ST.91؛"

(ح) الفقرة 25: إضافة فقرة جديدة بشأن توصيات التمثيل الهولوجرامي، على النحو التالي:

"وإذا قُدمت الهولوجرامات على أنها صور أو نماذج ثلاثية الأبعاد، فينبغي حينها أن تُتبع التوصيات المتعلقة بالصور والنماذج ثلاثية الأبعاد المذكورة أعلاه؛"

(ط) الفقرات من 33 إلى 35: تحديث نهاية كل فقرة بإضافة ما يلي:

"(فيما يتعلق بالتوصيات المحددة للصورة والنماذج ثلاثية الأبعاد، انظر أيضاً معيار الويبو ST.91)."

8. ويرد فيما يلي ملخص للتغييرات المندرجة ضمن الفئة 2، كما هو مبين في المرفق [ملاحظة: يعني وجود الشطب أن العبارة محذوفة، والتسطير أن العبارة مضافة]

(أ) الفقرة 1: تحديث نص المقدمة من أجل المواءمة مع عناوين الأقسام، على النحو التالي:

"يقدم هذا المعيار ينطوي المعيار المقترح على توصيات بشأن طريقة إنشاء التصاوير الإلكترونية للتصاميم الصناعية وتخزينها وعرضها وإدارتها وتحويلها والبحث فيها ونشرها وتبادلها؛"

(ب) الفقرة 2: مراجعة النص لأغراض الوضوح، على النحو التالي:

"وتهدف هذه التوصيات إلى تحقيق تسهيل ما يلي:

• الحد الأقصى لإعادة استخدام التصاوير الإلكترونية ذاتها **عندما يُودع** مودعو الطلبات الذي يودعون التصميم نفسه في مكاتب متعددة للملكية الفكرية؛

(ج) الفقرة 3: مراجعة النص من أجل تحقيق الاتساق، على النحو التالي:

"لأغراض هذا المعيار هذه التوصيات، تُطبق المصطلحات التعاريف التالية، ما لم يُنص على خلاف ذلك:"

(د) الفقرات 3 (أ)-(ع): مراجعة النص الوارد في التعاريف توخياً للاتساق والوضوح من خلال الاستعاضة عن كلمة "means" (يعني) بكلمة "is" (فعل الكينونة) وتغيير مكان المختصرات المستخدمة في النص الإنكليزي لكي تتبع التعاريف؛

(هـ) الفقرة 4: إضافة المختصرين "DPI" و "PPI" في النص الإنكليزي؛

(و) الفقرة 5: تحديث النص لأغراض الوضوح عن طريق كتابة الحرف "r" بحرف كبير في النص الإنكليزي في جميع المواضع التي ترد فيها كلمة "Recommendation" (توصية)؛

(ز) الفقرتان 6 و42: الاستعاضة عن عبارة "IP office" (مكتب للملكية الفكرية) وكلمة "office" (مكتب) في النص الإنكليزي بكلمة "Office"؛

(ح) الفقرة 9: تحديث نهاية النص من أجل إضافة التحديد التالي "مكتب تسلم الطلبات"، وذلك على النحو التالي:

"ينبغي ألا تطبق المكاتب أي تحويلات للصور الواردة من مودعي الطلبات الذين لا يمثلون لمتطلبات الصور التي يفرضها المكتب مكتب تسلم الطلبات"؛

(ط) الفقرات من 11 إلى 16 والفقرة 24: إدراج كلمة "2D" (ثنائية الأبعاد) قبل كل كلمة "image" (صورة) من أجل زيادة الوضوح؛

(ي) الفقرة 21: تحديث الإشارة في الفقرة وتغييرها من "22" إلى "23"؛

(ك) الفقرة 38: نقل الفقرة النهائية بشأن نشر ملفات الفيديو من قسم "توصيات بشأن نسق الفيديو الإلكتروني وحجمه" إلى قسم "توصيات بشأن نشر التصاوير على الإنترنت"؛

(ل) الفقرة 45: حذف عبارة "التي أنشأتها مكاتب الملكية الصناعية"، نظراً إلى أن التعديلات المحدودة يمكن أن تجريها مكاتب تسلم الطلبات لأغراض النشر أو أي مكاتب أخرى لأغراض أخرى، على النحو التالي:

يمكن للمكاتب إجراء تعديلات محدودة على الصور الإلكترونية التي أنشأتها مكاتب الملكية الصناعية."

9. إن لجنة المعايير مدعوة إلى:

(أ) الإحاطة علماً بمضمون هذه الوثيقة ومرفقها؛

(ب) والنظر في التعديلات المقترحة إدخالها على معيار الويبو ST.88 كما هو مبين في الفقرتين 7 و8 أعلاه وعلى النحو الوارد في مرفق هذه الوثيقة.

[يلي ذلك المرفق]

## STANDARD ST.88

### RECOMMENDATIONS FOR ELECTRONIC REPRESENTATION OF INDUSTRIAL DESIGNS

*Revision approved by the Committee on WIPO Standards (CWS)  
at its ninth session on November 5, 2021*  
*Proposal presented for approval by the Committee on WIPO Standards (CWS)  
at its eleventh session*

#### INTRODUCTION

1. This Standard provides recommendations on how to create, capture, store, display, manage, transform, search, publish and exchange electronic representations of industrial designs.

#### OBJECTIVES

2. These recommendations are intended to achieve:
- The maximum re-use of the same electronic representations when for applicants are filing the same design at multiple Intellectual Property (IP) offices;
  - A common set of requirements for IP offices to exchange electronic representations data;
  - A common set of requirements for IP offices to process and publish electronic representations; and
  - A common set of requirements to enhance automated search of electronic representations.

#### DEFINITIONS AND TERMINOLOGY

3. For the purposes of this Standard, the following definitions apply unless otherwise specified:

- "3D model" is an electronic file that is created by a specialized software, for mathematically representing the surface of an object's visual representation in three dimensions<sup>1</sup>;
- "3D image" is a digital image that represents objects displayed in three dimensions such as 3D photos and stereoscopy<sup>2</sup>;
- "industrial design" means the visual aspect of an object, including its two-dimensional and three-dimensional features of shape and surface. Industrial designs are protectable through registration in an industrial property office or another competent authority. Some jurisdictions distinguish between a "design" for two-dimensional objects and a "model" for three-dimensional objects;
- "DPI" or "Dots Per Inch" or "DPI" means a measurement of a physical device, such as a display or printer, of the number of individual dots that can be placed within the span of one linear inch. DPI is commonly applied to monitors, scanners and even digital cameras for which the technical correct term is pixels per inch, but DPI is commonly used instead. For the purposes of the present Standard, therefore, DPI is used as a measurement for all image input or output devices mentioned in this Standard<sup>3</sup>;
- "electronic representation" means the drawing(s) and/or photograph(s) representing a design on computer files, which may have been created and/or converted from the original physical representation, the original paper representation and the original electronic representation;
- "EXIF" or "Exchangeable Image File Format" or "EXIF" is a standard for storing metadata with different image formats, including JPEG and TIFF. It is commonly used by digital cameras, smartphones, scanners, and other systems handling image or audio files;
- "hologram" means 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 holograph subject;

<sup>1</sup> As defined in WIPO Standard ST.91.

<sup>2</sup> As defined in WIPO Standard ST.91.

<sup>3</sup> DPI is not a property of the image itself, which is independent of any physical measurements. Electronic image files do not contain an inherent DPI, but may contain a suggested DPI value that provides output devices with a recommended density for displaying the image

- (h) "image search" is a method of search for designs by inputting one or more images;
  - (i) "metadata search" is a method of search for designs by inputting metadata text;
  - (j) "original electronic representation" means the electronic drawing(s) and/or photograph(s) representing a design as submitted by the applicant on computer files;
  - (k) "original paper representation" means the drawing(s) and/or photograph(s) representing a design as submitted by the applicant on paper;
  - (l) "original physical representation" means the physical product specimen (or model) embodying a design as submitted by the applicant to the IP office;
  - ~~(m) PPI means Pixels per inch. See DPI;~~
  - (m) "raster image" means 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;
  - (n) "resolution" means the number of pixels in an electronic image representing its width and height. This is usually given as width x height, e.g. 1024 x 768;
  - (o) "vector graphics" means 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; and
  - (p) "view" means the 2D image formed when the design (normally a 3D object) is viewed or projected from a certain position, e.g., front view, rear view, perspective view.
4. The following acronyms are used in this document:
- (a) 4K UHD stands for 4000 pixels Ultra-High-Definition, a video resolution of at least 3840 x 2160 pixels;
  - (b) ANSI stands for American National Standards Institute;
  - (c) DPI stands for Dots Per Inch;**
  - (d) EXIF stands for Exchangeable Image File Format;
  - (e) GIF stands for Graphics Interchange Format;
  - (f) GPS stands for Global Positioning System;
  - (g) IEC stands for International Electrotechnical Commission;
  - (h) ISO stands for International Organization for Standardization;
  - (i) JPEG stands for Joint Photographic Experts Group;
  - (j) PDF stands for Portable Document Format;
  - (k) PNG stands for Portable Network Graphics;
  - (l) PPI stands for Pixel Per Inch;**
  - (m) TIFF stands for Tagged Image File Format; and
  - (n) W3C stands for World Wide Web Consortium.

#### REFERENCES

5. The following WIPO Standards are of relevance to should be applied as referenced in this Standard:
- (a) WIPO Standard ST.80 Recommendation concerning bibliographic data relating to industrial designs;
  - (b) WIPO Standard ST.81 Recommendation concerning the content and layout of industrial design gazettes;
  - (c) WIPO Standard ST.86 Recommendation for the processing of industrial design information using XML (Extensible Markup Language); and
  - (d) WIPO Standard ST.91 Recommendation on digital three-dimensional (3D) models and images; and**
  - (e) WIPO Standard ST.96 Recommendation for the processing of intellectual property information using XML (EXTENSIBLE MARKUP LANGUAGE).

#### GENERAL RECOMMENDATIONS

6. This Standard recommends that industrial design documents should provide images in an electronic format, including applications, publications, and other documents containing designs. Electronic image formats and sizes recommended by this Standard should be accepted by each IP office.
7. If an Office has established its preferred electronic representation of designs which differs from this Standard, it is recommended that the Office announce its preferences in its official publications or websites regularly. This includes elements such as image format, resolution, and file size.

8. Offices should preserve the original electronic representation submitted with an application for archival purposes.
9. Offices should not apply any transformations to images received from applicants which do not comply with the Office's image requirements of the receiving Office, such as changing the size, resolution, scaling, color space, or other features to bring the image into compliance. If an application contains images which do not comply with the Office's requirements, the images should be rejected with a message informing the applicant which requirement was not met and how to provide acceptable images<sup>4</sup>.
10. Offices should not remove any information from submitted images for archival purposes. Copies of the image for other purposes, such as publication or data exchange, should have sensitive or personal information removed. For instance, EXIF metadata in an image file may contain data such as name or GPS location.

#### RECOMMENDATIONS FOR ELECTRONIC 2D IMAGE FORMAT AND SIZE

11. This Standard recommends JPEG<sup>5</sup> and PNG<sup>6</sup> as preferred electronic 2D image formats for industrial designs.
12. Where supported by the Office, images may optionally use one of the following alternative formats instead of a preferred format:
- (a) SVG format: this format is not preferred because some Offices have uncertainties about integrating SVG with their existing processes and requirements;
  - (b) TIFF format: this format is not preferred because it is not compressed, leading to very large file sizes; and
  - (c) GIF format: this format is not preferred because PNG is a newer format with better support for color and transparency features.
13. 2D images should not use PDF format. PDF is designed for complex documents not for storing images, and can contain extraneous information besides the image. Determining the precise boundaries between images and other document elements (such as where the margin begins) may be difficult in PDF. Converting or extracting images from PDF to other formats may introduce errors or unintended changes.
14. Offices should accept at least one of the preferred 2D image formats for filing, and filing and should accept all of the preferred 2D image formats for data exchange. Offices may accept other 2D image formats for filing as well, as long as they convert the image to one of the preferred formats for data exchange and publication.
15. 2D images should be accepted in color, grayscale, and black & white as chosen by the applicant. Files of at least 5 MB in size should be accepted. 2D images should have a minimum resolution of 300 x 300 pixels and a maximum resolution of 3840 x 2160 pixels (corresponding to 4K UHD). When a design application or submission includes multiple 2D image files, it is recommended that Offices set a limit on the total size of all images in the design application. This limit should not be less than 100MB, and may be higher if the Office wishes to accept larger submissions.
16. Where the recommendation related to suggested sizes is not able to be followed due to the variable nature of the figurative elements, e.g., long and narrow strip or ribbon type figurative elements, it is recommended that in addition to a total view, the complete 2D image also be presented as multiple sections, with each section in a separate file that complies with the requirements above, and textual instructions on how the sections fit together.

#### RECOMMENDATIONS FOR ELECTRONIC 3D IMAGE AND 3D MODEL FORMAT AND SIZE

17. It is recommended that 3D image and 3D model formats for industrial designs, where accepted by the Office, follow relevant recommendations provided in WIPO Standard ST.91.

#### RECOMMENDATIONS FOR ELECTRONIC VIDEO FORMAT AND SIZE

18. Files containing video or multimedia should use one of these preferred formats<sup>7</sup>: MP4 container files (.mp4) with one of the following video codecs: AVC/H.264 or MPEG-2/H.262.<sup>8</sup>

<sup>4</sup> The Office may choose how to handle this situation, for instance, whether to reject the entire application, or to accept the application and require the applicant to replace the rejected files.

<sup>5</sup> JPEG provides lossy compression of images to create small file sizes and is generally preferable for works such as photographs.

<sup>6</sup> PNG provides lossless images with compression and is generally preferable for works such as drawings, figures, or graphical designs.

<sup>7</sup> The recommended formats may be updated in the future as conditions change.

<sup>8</sup> These formats are ISO standards and have the widest hardware and software support. There are known patent pools covering these formats from the MPEG Licensing Administration, including for video playback, but common platforms such as Windows, Mac OS, Android, and iOS include licenses for playback at this time.

19. Where supported by the Office, design applications containing video or multimedia may use one of these alternative formats instead: WebM<sup>9</sup> or MP4 container files with one of the following video codecs: VP9 or AV1<sup>10</sup>.
20. Multimedia files should not use video container or codec formats other than the preferred and alternative formats. For instance, the formats MPEG-1<sup>11</sup>, VP8<sup>12</sup>, and HEVC/H.265<sup>13</sup> should not be used.
21. Offices should accept at least one of the preferred or alternative multimedia formats for filing, and should accept all of the preferred and alternative formats for data exchange with other Offices. For filing, Offices may accept formats other than preferred or alternative formats at their discretion as long as they convert the video to one of the preferred or alternative formats for data exchange and publication. However, it is preferable to avoid conversions altogether (see paragraph 23<sup>2</sup>).
22. Offices should announce what container and codec formats are accepted by the Office. Offices should also verify that submitted multimedia files use a container and codec format accepted by the Office. Such checks can be performed in software at the time of submission. Simply checking the file extension or container format is not sufficient, as some containers (particularly MP4) can use dozens of different codecs. If a submitted file does not use an accepted format, the file should be rejected<sup>14</sup>.
23. It is recommended that Offices do not convert multimedia files to a different format, as this can introduce errors, artifacts, or reduction in quality. Conversions may introduce artifacts in the video or audio data and may not match the original electronic representation. Conversion may be required in certain instances for publication or data exchange, such as where an Office accepts formats for filing not recommended by this Standard. In these cases, Offices should verify that the converted format faithfully reproduces the relevant features of the original format covered by the IP right. Offices should preserve the multimedia files originally submitted by the applicant for the duration of the IP right. If format conversions are done for publication or data exchange, the original format should also be made available online or on request.

~~When publishing video files, it is recommended that Offices provide information (including by linking to other websites) about the video formats it accepts and how to play them on various platforms. This information should be linked as near as possible to the published video so users can easily find it.~~

#### RECOMMENDATIONS FOR HOLOGRAM REPRESENTATION

24. If the hologram is submitted as a series of 2D images, then it should follow the recommendations for 2D images above.

25. If the hologram is submitted as a 3D image or 3D model, then it should follow the recommendations for 3D images and 3D models above.

26. If the hologram is submitted as a video object, then it should follow the recommendations for video formats above.

27. It is not recommended that Offices accept physical holograms in applicant submissions at this time, as there does not appear to be a general way to transform them into digital specimens. If Offices do accept physical holograms, it is recommended that they only use it as a visual aid and that it does not form part of the specification or define the scope of protection.

#### RECOMMENDATIONS FOR CAPTURING ELECTRONIC IMAGES

28. Where Offices accept original physical or paper representations as part of an application, it is recommended that the images be a minimum of 3 cm by 3 cm in size, and a maximum of 21 cm by 27 cm (reflecting shared dimensions of A4 and ANSI Letter size paper).

29. It is recommended that Offices convert original paper representations to digital images for publication and management. The conversion is recommended using one of the preferred formats for 2D raster images above. Alternatively, Offices may convert the paper image to one of the alternative 2D image formats as long as they convert to a preferred format for data exchange. The resolution of captured images can be as high as the Office deems appropriate, but in all cases should be high enough to adequately capture the details of the source image.

30. Offices should scan images for capture with at least 300 DPI to accurately represent the image. Offices should not scan images with lower than 200 DPI or higher than 600 DPI.

31. Captured images should be in color unless the original paper representation is black and white. The captured image should have the same legal authenticity as the original paper representation.

<sup>9</sup> WebM is supported by most web browsers, though other platforms may require installing software to play.

<sup>10</sup> These codecs are designed for royalty-free use and supported by most web browsers. Both codecs are also supported within MP4 containers. At this time industry use of AV1 appears limited, however major platforms are planning to adopt it in the near future.

<sup>11</sup> Superseded by newer formats and not supported by MP4 containers.

<sup>12</sup> Superseded by VP9 and not supported by MP4 containers.

<sup>13</sup> Not widely supported at this time, covered by multiple competing patent pools.

<sup>14</sup> The Office may choose how to handle this situation, for instance, whether to reject the entire application, or to accept the application and require the applicant to replace the rejected files.



32. The original paper representation should be stored for archival purposes for at least one year longer than the duration of the IP right.

#### RECOMMENDATIONS FOR ONLINE PUBLICATION OF REPRESENTATIONS

33. Offices should publish images and documents containing images online. ~~(For 3D specific recommendations, relevant recommendations in WIPO Standard ST.91 should be followed (see also WIPO Standard ST.91).~~

34. Images embedded in other documents, such as PDF, should reproduce the characteristics of the original image as closely as feasible. When publishing documents with embedded images online or in another electronic medium, Offices should also make the images available as separate files. ~~For 3D specific recommendations, relevant recommendations in WIPO Standard ST.91 should be followed (for 3D specific recommendations, see also WIPO Standard ST.91).~~

35. Images should be published in a preferred or alternative format, with a minimum resolution of 300 pixels in each dimension (width and height). Images should be published in color unless the original image is black and white. Format conversions or other transformations of submitted images should be avoided whenever possible as they have the potential to introduce errors, artifacts, distortions, or other differences. If a conversion or transformation must be done, Offices should verify that the resulting image faithfully reproduces the relevant features of the original image. ~~For 3D specific recommendations, relevant recommendations in WIPO Standard ST.91 should be followed (for 3D specific recommendations, see also WIPO Standard ST.91).~~

36. If the published image differs from the original image submitted by the applicant in any way (file format, resolution, color space, or other aspects), the Office should note the differences in the publication. E.g. a note such as "Original image: 300 x 400 JPEG 8-bit color" would be appropriate. An indication of how the public can access the original image is also recommended.

37. Offices should remove metadata containing sensitive information from image files intended for publication. For example, EXIF metadata may contain name or geographic location. However, the original file with all metadata should be preserved for archival purposes.

38. ~~When publishing video files, it is recommended that Offices provide information (including by linking to other websites) about the video formats it accepts and how to play them on various platforms. This information should be linked as near as possible to the published video so users can easily find it.~~

#### RECOMMENDATIONS FOR TRANSFORMATION OF ELECTRONIC IMAGES

39. Electronic images submitted with an application that are of insufficient quality or do not conform to the formats specified in this Standard should be rejected by the Office and the applicant asked to resubmit the images.

40. If an Office transforms a figurative element from one storage format to another (e.g., GIF to PNG), it is recommended that the Office retain the original format as well as the transformed format. If an Office chooses to discard the original format then it is recommended that clear procedural guidelines be established and documented. ~~or 3D~~

41. ~~For transformation of 3D images and 3D models, including converting 3D images or 3D models to 2D views, relevant recommendations in WIPO Standard ST.91 should be followed.~~

42. If an Office performs touch-ups on an electronic image either submitted by an applicant or captured by the Office, it is recommended that the Office establish a set of procedures and guidelines for the physical process and ranges of touch-ups that the office will carry out (e.g., removing minor background specks —no larger than 1 mm). This will ensure consistency within the particular Office.

43. Given the variable nature of scanned images, and in particular the color rendition, Offices are recommended to use textual descriptions and detailed color claims when performing touch-ups on an electronic image of the corresponding figurative element. It is also recommended that records of performed touch-ups be kept for future reference.

44. If an Office performs touch-ups on an electronic image either submitted by an applicant or captured by the Office, the Office may choose to send the touched-up image back to the applicant for approval.

45. Offices may perform limited touch-ups of electronic images ~~captured by the industrial property office~~. Such touch-ups may include:

- (a) erasing dust, hair, or other blemishes in the background of the image;
- (b) erasing or color correcting background elements on the periphery of the figurative elements;
- (c) erasing marks from creases in the original physical representation of the image;
- (d) color correcting or color balancing the electronic image so as to better capture the original physical representation of the figurative element unless it substantially modifies the scope of the claims of the design.



46. Given the variation in color rendition due to scanning and printing variability, it is recommended that Offices clearly indicate that the colors are only for presentation purposes and that accurate renditions of the color are dependent on the equipment used. It is recommended that a disclaimer to this extent be included whenever a color figurative element is presented.

#### RECOMMENDATIONS FOR SEARCH OF ELECTRONIC IMAGES

47. It is recommended that Offices make images searchable by submission data, including at least application or file number, applicant name, and date of submission or registration.

48. It is recommended that Offices make images searchable using the Locarno Classification, including classes, subclasses, and types of goods.

#### RECOMMENDATIONS FOR VIEWS OF DESIGNS

49. The minimum and maximum number of views established by the Office for a design application should permit accurate representation of the design. The number of views required for accurate representation depends on the nature of the product, the features to be protected, the position (perspective) of views provided by the applicant, and other features of the Office's legal requirements.

50. It is recommended that Offices designate an exemplary image for design applications, either by selecting a representative image, selecting the first image in the application, or allowing the applicant to indicate the exemplary image. The exemplary image should be displayed prominently in publications of the application or registered design, such as on the title page of publications or as an accompanying thumbnail image in electronic catalogs, indexes, or databases.

[End of Standard]

[End of Annex]