



EPO PDF PROFILE

TERMS OF REFERENCE

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Date: 09-12-13
Version: 1.8

History of Changes	
1.3	dc:description - contains the abstract in filing language. Must be synchronized with the Subject document info entry.
1.3	dc:language - its content is always the same as the title and abstract language used in dc:description and dc:title
1.3	dc:subject - must be synchronised with pdf:Keywords and the Keywords document info entry Clarification about IPC symbols
1.3	pdf:Title - deleted. See http://www.pdfa.org/doku.php?id=pdfa:en:techdoc , document "Technical Note TN0008 - Predefined XMP Properties in PDF/A-1"
1.3	patent schema - property name changes (3 properties - e.g. PublicationData becomes Publication) Clarification about IPC symbols
1.3	All dates in XMP compatible format (yyyy-mm-dd instead of yyyymmdd)
1.3	dc:description, patent:Abstract - content modification in case of undesirable elements/data
1.3	chapter 6, example of XMP packet - completed with standard properties, and re-ordered
1.4	Dublin Core Schema - corrections in the examples
1.4	IPC - dc:subject, pdf:Keywords contain only the symbols (without e.g. version number); patent:Classification contains raw IPC (e.g. 50 digits for IPC8)
1.5	dc:subject - added in the example in chapter 6
1.5	data type corrections in the custom property declaration (chapter 6)
1.6	dc:description and dc:title examples are modified: "x-default" instead of "fr"
1.6	xmp:Identifier example is modified: it is a Bag text field
1.7	B861 and B871 reversed
1.8	New document section "cited-references" added in patent metadata – see pages 13, 14, 16, and 19

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1. INTRODUCTION

This document presents a recommended profile for PDF files produced for publication and long-term archiving purposes of EPO patent applications and granted patents. The EPO has successfully produced PDF versions of these documents for a number of years, but the specific PDF version used has not previously been rigorously defined. This document does not attempt to propose a new format for the publication of European patent documents, but rather intends to clarify and improve upon existing practices. In drawing-up this profile reference has been made to related initiatives such as the USPTO electronic filing profile and the various ST36 and PCT XML DTDs.

2. PDF VERSION

PDF files must be PDF/A-1b compliant¹ (minimal conformance level).

3. PDF CONTENTS

PDF produced is bookmarked and contains:

- images only (e.g. TIFF scanned pages - one image per page), or
- images (e.g. TIFF scanned pages - one image per page) combined with a searchable text layer, or
- text combined with drawings (character-coded PDF with image(s) embedded).

Remarks:

- for the time being TIFF images are using CCITT-G4 compression, but it could be envisaged to make use of other compression methods (e.g. JBIG2).
- for character-coded PDF/A-1b, the font(s) to be legally embedded is (are) not yet identified. Embedded fonts may be limited to a subset containing the glyphs necessary to render the PDF document.

¹ see ISO 19005-1:2005 level B conformance, and ISO 19005-1:2005/Cor 1:2007

4. FUTURE IMPROVEMENTS

The possible improvements that will be addressed in the future are:

- level A conformance of the PDF/A standard (conforming PDF/A -1a files are also known as tagged PDF) - this issue may need to be revisited in the framework of the proposed tri-lateral Common Application Format (CAF),
- linearised PDF,
- details of the image formats used for non-character data to be included in the PDF/A files.

These features, in addition to possible PDF/A-2 features, may be addressed at a later stage or in other standards and recommendations that are applicable to industrial property information.

Other aspects, such as the possibility to store non-XMP-structured data (e.g. XML ST36) in the metadata, are under discussions in some PDF/A working groups. The EPO will keep an eye on the possible outcome of these discussions.

Last but not least, packaging aspects (file naming, file structures etc.) are indeed important in terms of long-term archiving perspective. These aspects will also be addressed.

5. METADATA

Most of the metadata is composed of bibliographic data visible on the first page of a patent document, and available in XML format.

The metadata to be created must be XMP-compliant².

Most of the standard schemas available (e.g. Dublin Core, PDF, XMP schemas) are designed for general publication purposes. Their corresponding properties are visible in the "Properties" of a PDF file.

This profile proposes to use standard schemas as much as possible, and additionally to create a custom patent bibliographic data schema for the patent data that does not fit into existing standard schemas.

The following pages suggest lists of standard XMP schema properties, and a list of patent schema properties.

² see XMP specification, September 2005

5.1. DUBLIN CORE SCHEMA

Standard properties available: **title**, **subject**, **description**, **type**, source, relation, coverage, creator, **publisher**, contributor, rights, date, **format**, **identifiant**, **language**.

Remark: the 15 Dublin Core properties have been formally endorsed in the NISO Standard Z39.85-2001 and ISO Standard 15836-2003.

description	
Definition: abstract of the patent document	XML element: abstract/@lang, abstract/p
<p>Example:</p> <pre><dc:description><rdf:Alt><rdf:li xml:lang="x-default">La présente invention concerne un dispositif de conditionnement et d'application, comportant : - un applicateur (2) pour l'application d'un produit (P) sur les cils ou les sourcils, comportant : • une âme allongée s'étendant selon un axe longitudinal, • au moins deux rangées de dents se raccordant à des faces longitudinales respectives et différentes de l'âme, chacune des rangées de ces deux rangées au moins comportant : - un premier ensemble de premières dents se raccordant en faisant un premier angle avec la normale à la face longitudinale correspondante de l'âme, et - un deuxième ensemble de secondes dents se raccordant en faisant un second angle avec la normale à la face longitudinale correspondante de l'âme, l'âme étant observée selon son axe longitudinal, - le deuxième angle étant supérieur au premier angle, et/ou - au moins une première dent du premier ensemble et une deuxième dent du deuxième ensemble ayant des extrémités libres situées à des distances différentes de l'axe longitudinal de l'âme. - un récipient contenant le produit.</rdf:li></rdf:Alt></dc:description></pre> <p>Remarks:</p> <ul style="list-style-type: none"> - should there be several abstracts, the one corresponding to the filing language is selected. Abstracts in other languages are available in patent: Abstract - dc:description must be synchronized with the Subject document info entry - all elements or data that are not compatible with the XMP specification should be removed from the abstract content, e.g. HTML elements such as i, br, etc., or replaced by an empty space. 	

identifiant	
Definition: Patent Document Identifier	XML element: B100 (formatted subset: country code + publication number + kind code + publication date)
<p>Example:</p> <pre><dc:identifiant>EP-1872682-A1-20080102</dc:identifiant></pre>	

format	
Definition: MIME type that identifies the file format	
<pre><dc:format>application/pdf</dc:format></pre>	

language

Definition: language of the patent document | XML element: ep-patent-document/@lang

Example:

```
<dc:language><rdf:Bag><rdf:li>fr</rdf:li></rdf:Bag></dc:language>
```

Remark: this property contains the language used in the patent application document. It is always the same as the title and abstract language used in dc:description and dc:title

publisher

Definition: Publishing Office

```
<dc:publisher><rdf:Bag><rdf:li>European Patent Office</rdf:li></rdf:Bag></dc:publisher>
```

subject

Definition: classification symbols, part of the document identifier, and title | XML element: part of classification-ipcr/text or part of B511 and B512, part of B100, and B542

Example:

```
<dc:subject>
<rdf:Bag>
  <rdf:li>EP1872682</rdf:li>
  <rdf:li>EP 1872682</rdf:li>
  <rdf:li>A45D 40/26</rdf:li>
  <rdf:li>Device for the application of a product on eyelashes or eyebrows</rdf:li>
</rdf:Bag>
</dc:subject>
```

Remarks:

- dc:subject must be synchronised with pdf:Keywords and the Keywords document info entry
- the document identifier is included as follows: country code + publication number concatenated, and country code + " " + publication number
- classification data contain only classification symbols, and no additional data (e.g. version number) whatever the IPC version is
- sub-class and main group symbols are separated by one empty space only (not three as in classification-ipcr/text)
- the title included here should be the one in English language, when available.

title	
Definition: title of the patent document combined with additional data	
Content:	
title + " - " + office name + " - " + country code + " " + publication number + " " + kind code	
Example:	
<pre><dc:title> <rdf:Alt> <rdf:li xml:lang="x-default">Dispositif pour l'application d'un produit sur les cils ou les sourcils - European Patent Office - EP 1872682 A1</rdf:li> </rdf:Alt> </dc:title></pre>	
Remarks:	
<ul style="list-style-type: none"> - dc:title must be synchronised with the Title document info entry - should there be several titles, the one corresponding to the filing language is selected. Titles in additional languages are available in patent:Title	

type	
Definition: type of patent document	XML element: B121
Example:	
<pre><dc:type> <rdf:Bag> <rdf:li>DEMANDE DE BREVET EUROPEEN</rdf:li> </rdf:Bag> </dc:type></pre>	

5.2. PDF SCHEMA

Standard properties: Author, CreationDate, Creator, **Keywords**, ModDate, **PDFVersion**, Producer, Subject, Title.

Keywords	
Definition: keywords	
Example: <pdf:Keywords>EP1872682; EP 1872682; A45D 40/26; Device for the application of a product on eyelashes or eyebrows</pdf:Keywords>	
Remark: pdf:Keywords must be synchronised with dc:subject and the Keywords document info entry	

PDFVersion	
Definition: PDF version	
<pdf:PDFVersion>1.4</pdf:PDFVersion>	

5.3. PDFCID SCHEMA

Standard properties: version, **part**, **conformance**, amd.

conformance	
Definition: ISO 19005-1:2005 Conformance Level	
<pdfaid:conformance>B</pdfaid:conformance>	

part	
Definition: Part of ISO 19005-1:2005	
<pdfaid:part>1</pdfaid:part>	

5.4. XMP BASIC SCHEMA

Standard properties: Advisory, BaseURL, **CreateDate**, **CreatorTool**, **Identifier**, Label, **MetadataDate**, **ModifyDate**, Nickname, Rating, ThumbnailsFormat, ThumbnailsHeight, ThumbnailsImage, ThumbnailsWidth.

CreateDate	
Definition: Creation Date of the PDF	
Example: <xmp:CreateDate>2007-10-04T17:24:08+02:00</xmp:CreateDate>	

Identifier	
Definition: Patent Document Identifier	XML element: B100 (formatted subset: country code + publication number + kind code + publication date)
Example: <xmp:Identifier> <rdf:Bag><rdf:li>EP-1872682-A1-20080102</rdf:li></rdf:Bag> </xmp:Identifier>	
Remark: same content as dc:identifier content	

MetadataDate	
Definition: Date of creation of metadata	
Example: <xmp:MetadataDate>2007-10-04T17:24:08+02:00</xmp:MetadataDate>	

ModifyDate	
Definition: Date of modification	
Example: <xmp:ModifyDate>2007-10-04T17:24:08+02:00</xmp:ModifyDate>	

CreatorTool	
Definition: Tool used	
Example: <xmp:CreatorTool>Apache FOP Version 0.93</xmp:CreatorTool>	

5.5. PATENT BIBLIOGRAPHIC DATA SCHEMA

URI: <http://www.epo.org/patent-bibliographic-data/1.0/>

Name Space: [patent](#)

Properties corresponding to bibliographic data available in XML ST36			
name	Type	XML element ³	property (patent:*)
Publication data	DocId		Publication ⁴
country	Text	B190	CountryCode
number	Text	B110	Number
kind code	Text	B130	KindCode
corr. code	Text	B151+B132EP	CorrectionCode
date ⁵	date	B140/date ("- added")	Date
Int. Pub. data	DocId		InternationalPublication
country	Text	B871/ctry	CountryCode
number	Text	B871/dnum/pnum	Number
date	date	B871/date ("- added")	Date
Application data	DocId		Application
number	Text	B210	Number
date	date	B220/date ("- added")	Date
Int. App. data	DocId		InternationalApplication
country	Text	B861/ctry	CountryCode
number	Text	B861/dnum/anum	Number
date	date	B861/date ("- added")	Date
Priority data	bag DocId		Priority
country	Text	B330/ctry	CountryCode
number	Text	B310	Number
date	date	B320/date ("- added")	Date
Classification ⁶	bag Text	classification-ipcr/text or B511, B512	Classification
Applicant names	bag Text	B711/ttl+fnm+snm+sfx+onm+odv	Applicant
Inventors names	bag Text	B721/ttl+fnm+snm+sfx+onm+odv	Inventor
Proprietors names	bag Text	B731/ttl+fnm+snm+sfx+onm+odv	Proprietor
Represent. names	bag Text	B741/ttl+fnm+snm+sfx+onm+odv	Representative
Title	alt Text	B541, B542	Title (default value depends on @lang in ep-patent-document)
Abstract ⁷	seq Text	abstract/@lang, abstract/p	Abstract (first abstract in the ordered list depends on @lang in ep-patent-document)

³ definition available at <http://www.wipo.int/scit/en/standards/st36-xml-dtd.htm>, EPO's production DTD.

⁴ with the exception of CorrectionCode, all the properties contained in **Publication** should be mandatory. All other properties are considered as optional.

⁵ all dates must be formatted as follows: yyyy-mm-dd

⁶ the content of patent:Classification is IPC raw data. The classification data contained in dc:subject, pdf:Keywords is not IPC raw data.

⁷ all elements or data that are not compatible with the XMP specification should be removed from the abstract content, e.g. HTML elements such as i, br, etc., or replaced by an empty space.

Properties related to the document structure			
name	Type	XML element	property (patent:*)
Total n. of pages	Real		TotalNumberOfPages
Document struct.	seq Bookmark		DocumentStructure
Doc. Section	Text		DocumentSection
Start Page	Real		StartPage
Num. of Pages	Real		NumberOfPages

The possible values of DocumentSection are:

- bibliography
- abstract
- description
- claims
- drawings
- search-report
- amendment
- cited-references

6. EXAMPLE OF XMP PACKET

This sample contains the Patent Bibliographic Data schema, and metadata (standard and custom) for the patent application EP 1872682 A1. Note that section "cited-references" is included although not available as a section per se in the real publication.

```
<?xpacket begin="ï»¿' id='W5M0MpCehiHzreSzNTczkc9d'?>
<x:xmpmeta xmlns:x='adobe:ns:meta/'>
<rdf:RDF xmlns:rdf='http://www.w3.org/1999/02/22-rdf-syntax-ns#'>

<rdf:Description rdf:about="" xmlns:xmp="http://ns.adobe.com/xap/1.0/">
  <xmp:CreateDate>2009-05-06T15:09:49Z</xmp:CreateDate>
  <xmp:Identifier>
    <rdf:Bag><rdf:li>EP-1872682-A1-20080102</rdf:li></rdf:Bag>
  </xmp:Identifier>
  <xmp:MetadataDate>2009-05-06T15:09:49+02:00</xmp:MetadataDate>
  <xmp:ModifyDate>2009-05-06T15:09:49+02:00</xmp:ModifyDate>
  <xmp:CreatorTool>callas pdfaPilot CLI 1.3.080</xmp:CreatorTool>
</rdf:Description>

<rdf:Description rdf:about="" xmlns:pdf="http://ns.adobe.com/pdf/1.3/">
  <pdf:Keywords>EP1872682; EP 1872682; A45D 40/26; Device for the application of a product on eyelashes or eyebrows</pdf:Keywords>
  <pdf:PDFVersion>1.4</pdf:PDFVersion>
</rdf:Description>

<rdf:Description rdf:about="" xmlns:pdfaid="http://www.aiim.org/pdfa/ns/id/">
  <pdfaid:part>1</pdfaid:part>
  <pdfaid:conformance>B</pdfaid:conformance>
</rdf:Description>

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  <dc:format>application/pdf</dc:format>
  <dc:title>
    <rdf:Alt>
      <rdf:li xml:lang="x-default">Dispositif pour l'application d'un produit sur les cils ou les sourcils - European Patent Office - EP
1872682 A1</rdf:li>
    </rdf:Alt>
  </dc:title>
  <dc:description>
    <rdf:Alt>
      <rdf:li xml:lang="x-default">La présente invention concerne un dispositif de conditionnement et d'application, comportant : - un
applicateur (2) pour l'application d'un produit (P) sur les cils ou les sourcils, comportant : • une âme allongée s'étendant selon un axe
longitudinal, • au moins deux rangées de dents se raccordant à des faces longitudinales respectives et différentes de l'âme, chacune des
rangées de ces deux rangées au moins comportant : - un premier ensemble de premières dents se raccordant en faisant un premier angle avec
la normale à la face longitudinale correspondante de l'âme, et - un deuxième ensemble de secondes dents se raccordant en faisant un second
angle avec la normale à la face longitudinale correspondante de l'âme, l'âme étant observée selon son axe longitudinal, - le deuxième angle
étant supérieur au premier angle, et/ou - au moins une première dent du premier ensemble et une deuxième dent du deuxième ensemble ayant
des extrémités libres situées à des distances différentes de l'axe longitudinal de l'âme. - un récipient contenant le produit.</rdf:li>
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  </dc:description>
  <dc:identifiant>EP-1872682-A1-20080102</dc:identifiant>
  <dc:publisher>
    <rdf:Bag>
      <rdf:li>European Patent Office</rdf:li>
    </rdf:Bag>
  </dc:publisher>
  <dc:type>
    <rdf:Bag>
      <rdf:li>DEMANDE DE BREVET EUROPEEN</rdf:li>
    </rdf:Bag>
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    </rdf:Bag>
  </dc:subject>

```

```
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        <rdf:li>A45D 40/26</rdf:li>
        <rdf:li>Device for the application of a product on eyelashes or eyebrows</rdf:li>
    </rdf:Bag>
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</rdf:Description>
```

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<rdf:Description rdf:about="" xmlns:patent='http://www.epo.org/patent-bibliographic-data/1.0/'>
```

```
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  <rdf:Description>
    <patent:CountryCode>EP</patent:CountryCode>
    <patent:Number>1872682</patent:Number>
    <patent:KindCode>A1</patent:KindCode>
    <patent>Date>2008-01-02</patent>Date>
  </rdf:Description>
</patent:Publication>
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</patent:Application>
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    <rdf:li>Tanty, François</rdf:li>
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    <rdf:li xml:lang="de">Vorrichtung zum Auftragen eines Produktes auf die Wimpern oder Augenbrauen</rdf:li>
    <rdf:li xml:lang="en">Device for the application of a product on eyelashes or eyebrows</rdf:li>
    <rdf:li xml:lang="fr">Dispositif pour l'application d'un produit sur les cils ou les sourcils</rdf:li>
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```
<patent:Abstract>
  <rdf:Seq>
    <rdf:li xml:lang="fr">La présente invention concerne un dispositif de conditionnement et d'application, comportant : - un applicateur
(2) pour l'application d'un produit (P) sur les cils ou les sourcils, comportant : • une âme allongée s'étendant selon un axe longitudinal, • au
moins deux rangées de dents se raccordant à des faces longitudinales respectives et différentes de l'âme, chacune des rangées de ces deux
rangées au moins comportant : - un premier ensemble de premières dents se raccordant en faisant un premier angle avec la normale à la face
longitudinale correspondante de l'âme, et - un deuxième ensemble de secondes dents se raccordant en faisant un second angle avec la
```

normale à la face longitudinale correspondante de l'âme, l'âme étant observée selon son axe longitudinal, - le deuxième angle étant supérieur au premier angle, et/ou - au moins une première dent du premier ensemble et une deuxième dent du deuxième ensemble ayant des extrémités libres situées à des distances différentes de l'axe longitudinal de l'âme. - un récipient contenant le produit.

```
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      <patent:NumberOfPages>1</patent:NumberOfPages>
    </rdf:li>
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      <patent:NumberOfPages>11</patent:NumberOfPages>
    </rdf:li>
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      <patent:NumberOfPages>4</patent:NumberOfPages>
    </rdf:li>
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      <patent:NumberOfPages>9</patent:NumberOfPages>
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      <patent:NumberOfPages>1</patent:NumberOfPages>
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</patent:DocumentStructure>

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  <pdfaSchema:namespaceURI>http://www.epo.org/patent-bibliographic-data/1.0/</pdfaSchema:namespaceURI>
  <pdfaSchema:prefix>patent</pdfaSchema:prefix>
  <pdfaSchema:property>
    <rdf:Seq>
      <rdf:li>
        <rdf:Description xmlns:pdfaProperty="http://www.aiim.org/pdfa/ns/property">
          <pdfaProperty:name>Publication</pdfaProperty:name>
          <pdfaProperty:valueType>DocId</pdfaProperty:valueType>
          <pdfaProperty:category>external</pdfaProperty:category>
          <pdfaProperty:description>Contains country code, publication number/date, correction code, and kind of the published
patent document</pdfaProperty:description>
        </rdf:Description>
      </rdf:li>
      <rdf:li>
        <rdf:Description xmlns:pdfaProperty="http://www.aiim.org/pdfa/ns/property">
          <pdfaProperty:name>InternationalPublication</pdfaProperty:name>
          <pdfaProperty:valueType>DocId</pdfaProperty:valueType>
          <pdfaProperty:category>external</pdfaProperty:category>
          <pdfaProperty:description>Contains country code, publication number/date, and kind of the international published patent
document</pdfaProperty:description>
        </rdf:Description>
      </rdf:li>
      <rdf:li>
        <rdf:Description xmlns:pdfaProperty="http://www.aiim.org/pdfa/ns/property">
          <pdfaProperty:name>Application</pdfaProperty:name>
          <pdfaProperty:valueType>DocId</pdfaProperty:valueType>
          <pdfaProperty:category>external</pdfaProperty:category>
```



```

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    <rdf:Description xmlns:pdfaProperty="http://www.aiim.org/pdfa/ns/property">
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