STANDARD ST.37

RECOMMENDATION FOR AN AUTHORITY FILE OF PUBLISHED PATENT DOCUMENTS

Version ~~2.2~~3.0

Revision approved by the Committee on WIPO Standards (CWS)
at its ~~ninth~~thirteenth session on November ~~5, 2021~~14, 2025

~~*Editorial Note by the International Bureau*~~

~~Annexes III and IV to the present Standard, which define XML schema (XSD) and Data Type Definition (DTD), are under preparation by the Task Force. They are planned to be presented for consideration and adoption by the Committee on WIPO Standards (CWS) at its sixth session in 2018.~~

~~Until the said Annexes are adopted by the CWS, the only recommended format for the purpose of this Standard is text.~~

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INTRODUCTION

1. This Standard defines data elements to constitute an authority file of patent documents, as well as its structure and format.

2. The primary purpose of the authority file generated by an industrial property office (IPO) is to allow other IPOs and other interested parties to assess the completeness of the available patent documentation. An authority file may also be used to capture bibliographic information for patents which form part of the PCT Minimum Documentation set[1].

3. In order to allow consistency checks, the authority file should contain the list of all publication numbers assigned by the IP officeIPO. This mayshould include publication numbers for which no published document is available – this can be the case for applications withdrawn shortly before the publication or for destroyed documents – as well as publication numbers for which the publication contains only bibliographic data.

DEFINITIONS

4. For the purposes of this Standard:

(a) the term “patent documents” includes patents for inventions, plant patents, design patents, inventors’ certificates, utility certificates, utility models, patents of addition, inventors’ certificates of addition, utility certificates of addition, and published applications therefor. “Documents” means patent documents, unless otherwise stated.

(b) the terms “publication” and “published” are used in the sense of making available:

(i) a patent document to the public for inspection or supplying a copy on request; and

(ii) multiple copies of a patent document produced on, or by, any medium (e.g., paper, film, magnetic tape or disc, optical disc, online database, computer network, etc.); and).

(c) according to certain national industrial property laws or regulations or regional or international industrial property conventions or treaties, the same patent application may be published at various procedural stages. For the purpose of this standard, a “publication level” is defined as the level corresponding to a procedural stage at which normally a document is published under a given national industrial property law or under a regional or international industrial property convention or treaty.

(d) the term “machine-readable” indicates that the contents of the document can be extracted by a machine. It is considered interchangeable with the term “electronically available”. Included within the scope of this term are images and PDF documents.

(e) the term “text-searchable” indicates that a particular component of the document can be identified. For example, the value of the abstract can be identified and extracted automatically by a machine. Included within the scope of this term are XML and JSON documents.

(f) the term “publication exception code” refers to a one-letter code which classifies why the particular complete patent publication is not available in machine-readable form at that time.

[1] See Part 4.1 of the WIPO Handbook on Intellectual Industrial Property Information and Documentation

NOTATIONS

5. The following notations are used throughout this document:

– <>: indicates a placeholder descriptive term that, in implementation, will be replaced by a specific instance value;

– " ": indicates that the text included in quotes must be used verbatim in implementation;

– { }: indicates that the items are optional in implementation; and

– `Courier New font`: indicates keywords or source code.

~~RECOMMENDATIONS~~

MANDATORY DATA ELEMENTS

6. An authority file is generated by the IPO and contains a list of all patent documents published by that IPO from the first publication onwards. It should ~~also~~ include ~~document~~the numbers of documents which were ~~allocated~~published but for which no ~~published~~ document is currently available ~~(see paragraphs 23 to 26~~and may include numbers within otherwise used ranges for which no document was ever published, indicating the appropriate exception codes below~~)~~.

~~For practical reasons, an authority file may not include documents published during a certain period (not longer than two months) before the date when the authority file was generated by the IPO. This period depends on the document processing practices of the Office and, should an IPO submit a definition file as laid down in paragraphs 36 and 37 below, then it is recommended to indicate there the date of the publication of the latest document listed in the authority file.~~

~~DATA ELEMENTS~~

7. For each publication, the authority file ~~should~~must contain the following minimum data elements to uniquely identify all types of patent documents as originally published by the IPO:

(a) two-letter alphabetic code of the IPO publishing the document (publication authority);

(b) publication number;

(c) kind code of the patent document ~~(kind-of-document code)~~; and

(d) publication date.

~~Field formatting~~

8. All elements and sub-elements listed in ~~paragraphs 8 and 9~~paragraph 7 above must be recorded in separate fields.

Publication authority

9. The two-letter alphabetic code for the publication authority – country or region of the IPO generating the authority file – ~~should~~, must follow the recommendations of WIPO Standard ST.3.

Publication number

10. Any non-alphanumeric characters –, for example, those used as separators, such as dots, commas, dashes, slashes, spaces –, should preferably be removed from the publication number, while generally the publication number should ~~be following~~follow the recommendations of WIPO Standard ST.6.

~~Kind~~Document kind code

11. Different kinds of patent documents should be identified following the recommendations of WIPO Standard ST.16. If the IPO uses ~~kind-of-~~document kind codes which do not follow the recommendations of WIPO Standard ST.16, the definitions of such codes should be provided in the definition file ~~(see paragraphs 36 and 37 below)~~.

12. If no ~~kind-of-patent-~~document kind code was allocated or it is unknown, the corresponding data element "kind code" ~~may~~should not be populated.

Publication date

13. The publication date should be presented in accordance with paragraph 7(a) of WIPO Standard ST.2. For example, ~~'20170602'~~2017-06-02' for 'June 2, 2017', except for authority files created in accordance with Annex IV, where WIPO Standard ST.36 expects the format '20170602'.

14. If the publication date of a patent document is unknown to the IPO generating the authority file or a publication number is not used, the corresponding data element "publication date" component may not be populated.

~~Publication exception code~~

15. The list of documents in the authority file~~The publication exception code~~ should be ~~used for~~sorted by publication ~~numbers for which the complete~~number, type of document (kind code), and by publication ~~is not available in machine-readable form.~~date.

~~The following single-alphabetic letter codes should be used to indicate the reason why the complete published document, for which the corresponding number is assigned, is not available:~~

DEFINITION FILE

16. It is required that IPOs provide a definition file, as part of or in addition to, the authority file. ~~If some of the records included in the authority file contain information.~~ Information which is not evident or easily understandable~~, it is recommended to provide a definition file in addition to the authority~~ should be provided within the definition file. For example, in the definition file the IPO may:

(a) describe specific criteria for building the authority file(s);

(b) describe the use of publication exception codes~~, in particular codes "N", "W" or "X"~~;

(c) describe the use of document kind~~ of documents~~ codes ~~(see paragraph 18 above)~~ or provide a reference to Part 7.3 of the WIPO Handbook if up-to-date information on document kind~~ of documents~~ codes is already described in Part 7.3 of the WIPO Handbook;

(d) indicate the date of the most recent document listed~~ (see paragraph 7 above);~~; and

(e) ~~describe~~define the numbering systems ~~used~~ or provide a reference to Parts 7.2.6 and 7.2.7 of the WIPO Handbook if up-to-date information on the numbering systems used is already described in Parts 7.2.6 and 7.2.7 of the WIPO Handbook~~; and~~.

~~(f) describe the codes used to indicate the availability of sections of the publication in text-searchable format.~~

17. To assist other IPOs and interested parties in a first assessment of the completeness of the available patent documentation, the definition file ~~may~~should also include an overview of the data coverage, for example indicate the number of publications per year by kind code or by publication level.

18. Annex I contains an example of a definition file to assist IPOs in drafting their definition files.

OPTIONAL DATA ELEMENTS

19. In addition to the mandatory data elements listed above, the authority file may contain the following data elements:

(a) publication exception code ~~(for example to identify withdrawn or missing documents)~~;

(b) application identification of the corresponding publication, which typically contains the following sub-elements:

i. two-letter alphabetic code of the IPO publishing the application;

ii. application number; and

iii. filing date.

(c) priority application identification of the corresponding publication, which ~~should~~ typically contain the following sub-elements:

i. two-letter alphabetic code of the IPO publishing the priority applications;

ii. priority application number;

iii. ~~kind of document code of the priority application;~~ and

iv. filing date of the priority application.

(d) indication of whether the abstract, description, claims of a publication are text-searchable, through selection of one of the following:

– "N": Not available;

– ~~"U" – Unknown~~ and

– two-letter language code(s) in which the searchable text is available, either in the original language or as an official translation.

20. The provision of the optional data elements indicated ~~in paragraphs 9(b) to 9(d)~~ above remains within the discretion of the IPO generating the authority file and if data is not available then IPOs may provide incomplete or any necessary modifications to sub-elements for these optional data elements.

Priority application identification

~~The recommendations for data elements as indicated in paragraphs 16 to 22 above, should be applied mutatis mutandis to all sub-elements of "priority application identification" element.~~

21. Priority application numbers should be indicated in accordance with paragraph~~s~~ 12 ~~and 13~~ of WIPO Standard ST.10/C.

Application Identification

~~The recommendations for data elements, as indicated in paragraphs 16 to 22 above, should be applied mutatis mutandis to all sub-elements of "application identification' element.~~

22. An A~~a~~pplication number~~s~~ should be provided in the same format as it appeared on the original patent publication issued by the IPO. If the IPO uses application number formats in the authority file that are different from those used on the original publication, an explanation of the format should be provided in the definition file.

23. When the complete publication in machine-readable format is not available, a publication exception code should be always be included.

24. The following single–alphabetic letter codes should be used to indicate the reason why the complete published document, for which the corresponding number is assigned, is not available:

Publication exception code letter	**Code description**
C	~~Defective documents.~~ Publication document which is corrupted so that not all of the text is searchable
D	~~Documents deleted after the publication.~~ Publication document which was deleted after the publication
E	Publication number allocated by the IPO representing a PCT national/regional phase entry (for example Euro-PCT). No corresponding document published. A Euro-PCT application is an international (PCT) patent application that entered the European regional phase
M	~~Missing published documents.~~ Published document which is considered missing
N	~~Not used publication number.~~ Publication number range for which a publication document was never produced
P	~~Documents available on paper only.~~ Publication document which is available only on paper
~~R~~	~~Reissued publications.~~
~~U~~	~~Unknow n publication numbers. For example, when during compilation of the authority file certain publication numbers have~~

	been found in the database, but the corresponding documents are missing without known cause. Typically this code can indicate a database error that requires further analysis.
W	Applications (or patents), which were withdrawn before the publication; this can include lapsed or ceased patents and might depend on national patent law regulations. Publication number which was assigned but withdrawn before publication of the document.
X	Code available for individual or provisional use by an IPO. The use of code 'X' must be described in the IP Office's Authority Definition File

25. It is recommended to list only the numbers assigned by the IPO, but in case of small gaps in the numbering sequence (less than 1,000 consecutive publication numbers), the IPO may use the publication exception code “N” to identify the numbers, which were not used.

The use of codes "N", "W" and "X" should be described in the definition file (see paragraphs 36 and 37 below).

Availability of a publication in a tText-searchable formatindicators

26. The availability of the abstract, description and/or claims of a publication in a text-searchable format may be indicated in the authority file using the appropriate text-searchable indicators.

27. The availability in text-searchable format of each section of a publication must be identified in the authority file with a code “N” for “Not available” or a "U" for Unknown (availability) or the two-letter language code(s) for each corresponding language made available by the IPO, either as the original language or an official translation.

28. The two-letter code, which identifies the language the text is provided in, should follow the recommendations of WIPO Standard ST.96, `ExtendedISOLanguageCodeType`, based on International Standard ISO 639-1 “Codes for the representation of names of languages – Part 1: Alpha2-code”.

FILE HANDLINGRECOMMENED STRUCTURE AND FORMAT OF THE AUTHORITY FILE

It is recommended to provide a single file for all publication numbers listed in the authority file

29. If an IPO finds it necessary to generate the authority file as comprising several files, it is recommended that the list of publication numbers is split If generating a single file proves impractical due to the resulting file size, the IPO may generate based on one or more of the following criteria:

(a) Publication date (file per year or several years);

(b) Publication level (applications, granted IP rights); and

(c) Types of patent documents (file per document kind code).

30. To improve file handling, an IPO may generate an update file which includes only data for the current year and a static file including all older data. The Office would then indicate using the update category, that the new file is the delta only.

FILE FORMAT

31. The file must be encoded using Unicode UTF-8.

32. With the aim to harmonize, as much as possible, the current practices to exchange and parsing ofparse authority files, two file formats are recommended:

(a) XML (eXtensible Markup Language) format—: to identify the content of minimum data fieldselements of an authority file (see paragraphs 8 and 9 aboveparagraph 7) using XML tags within an instance, either in an XML schema (as defined in Annex III) or a Document Type Definition (DTD) (see Annex IV) format; and

(b) Text format (file extension TXT)— or CSV): to identify the content of minimum data fieldselements and the optional publication exception code element using a single text coded list, where the elements are separated by commas (preferred), tabs or semicolons and a “Carriage Return and Line Feed” (CRLF character) to represent the end of each record (as defined in Annex II). Text files are smaller in size than XML files.However,

IPOs may also include application identification information optionally as long as the content of each data field is clear and obvious. Examples showing minimum data fields and optional elements are shown in Annex II.

~~XML is the preferred format for the purpose of this Standard, as it provides clear data element contents and allows automatic validation of its structure and type. IPOs may use text format for simple authority files, which contain minimum elements (as per paragraph 8 above) and, if applicable, publication exception code only; the content of each data field should be obvious.~~

33. Examples of text format and XML file structures are provided in Annexes II to IV.

FILE NAME

34. The file name of the authority file generated by an IPO should be structured as follows:

(a) ~~for a~~A single ~~file (see paragraph 33 above) CC_AF_YYYYMMDD, where "CC" is the~~filename should consist of a generating Office ST.3 code ~~of~~, the ~~IPO,~~string "AF" ~~means "authority file"~~ and ~~"YYYYMMDD" date of~~ the generation ~~of~~date in format YYYMMDD followed by the ~~authority~~ file~~,~~ extension i.e., `<generating Office ST.3 code> AF_YYYYMMDD.<file extension (xml or txt or csv)>`

For example,

`EP_AF_20160327.txt` – single authority file generated by the EPO on March 27, 2016~~, and~~ in text format.

(b) The filename for each one of multiple files ~~(see paragraph 34 above) CC_AF_{~~of which an authority file is comprised of should consist of generating Office ST.3 code, the string "AF",~~ criterion information~~}_KofN_YYYYMMDD, where "CC" is the ST.3 code of the IPO, "AF" means "authority file", {criterion information} is a place holder and K is~~, the index number of ~~this file, N is~~the file in relation to the total number of files following by the string "of" with the total number of files generated and ~~"YYYYMMDD"~~ the file generated date followed by the file extension i.e., `<generating Office ST.3 code> AF {criterion information} <index of number of the ~~generation of~~file in relation to the ~~authority file.~~total number of files>of<total number of files generated>_YYYYMMDD.<file extension (xml or txt or csv)>`.

For example,

– `EP_AF_A-documents_1of2_20160327.txt` – first of two parts of the authority file generated by the EPO on March 27, 2016 in text format, this part covers applications only;

– `EP_AF_B-documents_2of2_20160327.txt` – second of two parts of the authority file generated by the EPO on March 27, 2016 in text format, this part covers granted patents only.

(c) for the instance where multiple files are provided, and each covers a different time period, please refer to the table below for an example of recommended file naming:

Example file name	**Related comment**

`<generating Office ST.3 code>"_"<authority file acronym "AF">"_"gazette"<NNXXX>"_"<file generation date>"."<file extension (xml or txt or csv).`
 	
`For example,`
`CC_AF_gazetteNNXXXX_YYYYMMDD.~~f~~txt`
	Example contains the authority file for ~~publication~~authority CC produced in time period NNXXXX where NN is the week number, XXXX is the year~~ and ff is the~~, in text file format ~~(XML or TXT)~~

`<generating Office ST.3 code>"_"<authority file acronym "AF">"_"year"<XXXX>"_"<file generation date>"."<file extension (xml or txt or csv).`
 	
`For example,`
`CC_AF_yearXXXX_YYYYMMDD.~~f~~txt`
	Example contains the authority file for authority CC in the year XXXX~~,~~ in text file format

<generating Office ST.3 code>"_"<authority file acronym "AF">"_"<file generation date>"."<file extension (xml or txt or csv). For example, CC_AF_YYYYMMDD.txt	Example contains the authority file with for authority CC in text file format
<generating Office ST.3 code>"_"<authority file acronym "AF">"_"<authority file year>"_"<kind code>"DOCUMENTS"_"<file generation date>"."<file extension (xml or txt or csv). For example, CC_AF_~~YYYYMMDD.ff~~YYYY_K_DOCUMENTS.txt	Example contains the authority file for authority CC in the year YYYY with text file format ~~.~~and containing documents of kind code K
<generating Office ST.3 code>"_"<authority file acronym "AF">"."<file extension (xml or txt or csv). For example, CC_AF.zip	AExample is a zipped file which contains any of the ~~three~~ files above

IMPLEMENTATION OF THE AUTHORITY FILE

35. In order to ensure efficiency of the data exchange, authority files in XML format must be structured according to the XML schema (XSD) or the data type definition (DTD) file as specified in Annex III and Annex IV, respectively. Text files must be structured according to the data structures provided in Annex II.

36. The update frequency for the authority file should be at least annual. ~~The date the annual update~~An authority file that is complete for all publications to the end of the previous calendar year should be provided by ~~IPOs is~~the IPO by March 1 ~~each~~of the following year.

~~1. It is recommended that IPOs generate and make available authority files covering all assigned document numbers, no later than two months after the last covered publication date. For example, an authority file with data coverage until the end of 2017 should be made available before March 1, 2018.~~

37. If an error is discovered in an authority file, a replacement file should be provided by the IPO as soon as possible.

38. A set of guidelines for authoring the authority file by an IPO is available here: https://www.wipo.int/standards/en/authority-file-guidelines.html

REFERENCES

39. References to the following documents are of relevance to this Recommendation:

WIPO Standard ST.1	Recommendation Concerning the Minimum Data Elements Required to Uniquely Identify a Patent Document
WIPO Standard ST.2	Standard Manner for Designating Calendar Dates by Using the Gregorian Calendar
WIPO Standard ST.3	Recommended Standard on Two–Letter Codes for the Representation of States, Other Entities and Intergovernmental Organizations
WIPO Standard ST.6	Recommendation for the Numbering of Published Patent Documents
WIPO Standard ST.10/C	Presentation of Bibliographic Data Components
WIPO Standard ST.16	Recommended Standard Code for the Identification of Different Kinds of Patent Documents
WIPO Standard ST.36	Recommendation for the Processing of Patent Information Using XML (eXtensible Markup Language)
WIPO Standard ST.96	Recommendation for the Processing of Intellectual Property Information Using XML (eXtensible Markup Language)

[Annex I follows]

ANNEX I

EXAMPLE OF A DEFINITION FILE

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Definition File for XX Authority File :

This definition file relates to the following authority file: XX_AF_20170322

Date of production :

2017-03-22

Data coverage :

Public XX documents from 1974-01-01 to 2016-12-31.

The XX authority file lists all XX patent and, if applicable, XX utility model publications.

Coverage according to document type and kind-of-document code (see Part 7.3.2 of the WIPO Handbook for details on kind codes):

Type	Kind Code	Total
Patent Application	A1	125.568
Patent Application	A2	96.430
Patent Granted	B1	144.879
Utility Model Application	U	24.332
Utility Model Examined	Y1	18.445

A detailed (annual) data-coverage can be found online at: http://www.XX-office.org/coverage.

Used options :

- Application information is provided where available
- Priority data not included
- Availability of abstract, description and claims of the publication in text-searchable format is provided
- ~~Publication Exception Codes~~Additional publication exception codes used are the following:

Publication Exception Code	Definition
D	Documents deleted after the publication.
E	PCT applications which have not been republished
M	Missing published documents
R	~~Reissued publications~~
UN	~~Unknown p~~Publication numbers not used
X	~~Bibliographic details of filed patent applications, as announced in the Gazette published by the office~~Publication or application numbers have been modified
W	Applications (or patents), which were withdrawn before the publication

Remark :

~~R – Reissued publication~~

~~Before 2001-01-01 correction requests from applicants and proprietors at the XX office were registered and executed, but not recorded in necessary electronic formats. Therefore these so-called reissued publications are only available with bibliographic data but not as published documents.~~

X: Publication/application number modified

Between 1939 until 1950 certain patent publications or patent applications were published with the same publication or application number. To address this problem, the publication or application number was corrected after the initial publication to ensure uniqueness in the authority file.

Numbering Formats :

For details on the numbering systems used by XX office see the corresponding entries in Parts 7.2.6 and 7.2.7 of the WIPO Handbook.

[Annex II follows]

ANNEX II

TEXT FILE (TXT)

Version 2.2~~3.0~~

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1. The authority file text structure lists the minimum data elements, the optional publication exception code element, and the optional text-searchable indicators for abstract, description and claims ~~indication code~~ elements (see ~~paragraphs 8 and 9~~paragraph 7 of Main Body) for each publication record in one line, separated by a comma (preferred), ~~tab~~ or semicolon and a "Carriage Return and Line Feed" ~~(CRLF~~or equivalent end of line character~~)~~ to ~~represent~~signal the end of each record.

2. Data structure for mandatory components with optional text searchable indicators: `<publication authority>,<publication number>,<kind-of-document code>,<publication date>,<publication exception code~~s~~>, <searchable abstract code (language codes or N ~~or U~~)>, <searchable description code (language codes or N ~~or U~~)>, <searchable claims code (language codes or N ~~or U~~)> <CRLF>.`

3. Data structure including all allowable optional components: `<publication authority>,<publication number>,<kind-of-document code>,<publication date>,<publication exception code>, <application authority>,<application number>,<filing date>, <searchable abstract code (language codes or N)>, <searchable description code (language codes or N)>, <searchable claims code (language codes or N)> <CRLF>.`

4. The code "N ~~and "U"~~ in the elements <searchable description code>, <searchable claims code> <searchable abstract code> mean "Not available~~" and "Unknown~~", respectively. The codes "language code~~s~~" e.g., "en" and "N~~" and "U~~" are represented as a suffix of the corresponding element of the publication using one of the following options, following by a dash:

i. ABST – Abstract
ii. DESC – Description
iii. CLMS – Claims

5. If there are multiple languages available for these elements, the language indications must be separated by spaces instead of the separator referred to in paragraph 1 above. For example:

```
ABST-en ABST-de ABST-fr, DESC-N, CLMS-N
```

6. This first example illustrates an authority file, produced with only the mandatory elements, represented using a TXT structure with comma separators:

```
...

UA,1,C2,1993-04-30 <CRLF>
UA,1,U,1995-06-30 <CRLF>
UA,2,C2,1993-04-30 <CRLF>
UA,2,U,1995-06-30 <CRLF>
UA,3,C2,1993-04-30 <CRLF>
```

7. This second example illustrates an authority file, produced with the optional text-searchable abstract, description and claims ~~indication code~~indicator elements again represented using a TXT structure where the data elements are separated by a comma:

```
...

EP,2363052,A1,20110907,W,,ABST-N~~U~~,DESC-N~~U~~,CLMS-N~~U~~ <CRLF>
EP,2363053,A2,20110907,M,,ABST-en,DESC-N,~~DESC~~CLMS-N<CRLF>
EP,2540632,A1,20130102,P,,ABST-N,DESC-N,CLMS-N<CRLF>
EP,2540632,B1,20151202,,ABST-en ABST-fr ABST-de,DESC-en,CLMS-en <CRLF>
```

[Annex III follows]

ANNEX III

XML SCHEMA DEFINITION (XSD) FOR AUTHORITY FILE

Version 2.23.0

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Editorial Note by the International Bureau:

Annex III of WIPO Standard ST.37 is the set of XML schema components to represent the minimum and extended data elements of an Authority File of patent documents issued by a Patent Office. Annex III is based on WIPO Standard ST.96, including the naming convention used to identify the names of the specific data components for Authority File. Annex III includes an Appendix which is a sample XML instance of an Authority File structured according to the XML schema; according to of WIPO Standard ST.96 V4_0Version 8.0.

The complete XSD can be downloaded from here but its contents are also included for reference below:
https://www.wipo.int/standards/XMLSchema/AFPatent/V3_0/ST37PatentAuthorityFile_V3_0.xsd.

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:afp="http://www.wipo.int/standards/XMLSchema/AFPatent"
xmlns:com="http://www.wipo.int/standards/XMLSchema/ST96/Common"
xmlns:pat="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
targetNamespace="http://www.wipo.int/standards/XMLSchema/AFPatent"
elementFormDefault="qualified" attributeFormDefault="qualified" version="V2_2V3_0">
       <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
schemaLocation="http://www.wipo.int/standards/XMLSchema/AFPatent/V2_1/ST96_Patent_V4_0PatentPublication_V8_0.xsd"/>
       <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Common"
schemaLocation="http://www.wipo.int/standards/XMLSchema/AFPatent/V2_1/ST96_Common_V4_0PatentPublication_V8_0_Common.xsd"/>
       <xsd:annotation>
              <xsd:appinfo>
                     <com:SchemaLastModifiedDate>20212025-11-
05 09</com:SchemaLastModifiedDate>

       <com:SchemaContactPoint>xml.standards@wipo.int</com:SchemaContactPoint>
              <com:SchemaReleaseNoteURL>http://www.wipo.int/standards/XMLSchema/AFPatent/V2_2/ReleaseNotes.pdf</com:SchemaReleaseNoteURL>

                     <xsd:documentation>Changes introduced since version 2.2 comprise:
              (i)  Adding a new bag to capture multiple number ranges in
              AuthorityFileDataCoverageType – PublicationNumberRangeBag
              (ii) Adding a date range for which the number range is effective - StartDate and
              EndDate added to PublicationNumberRangeType
              (iii) Created new definition for PriorityApplicationIdentificationBag which
              allows the application number to be optionally provided
```

```
                (iv)  Updating AuthorityFileEntry to refer to the new priority application
                component
                (v)   Removed codes R and U from the list of allowable exception codes
                (vi)  Included new component DocumentTotalQuantity and DocumentCoverageURI and
                updateAFCategory as no longer present in ST.96
                        </xsd:documentation>

                </xsd:appinfo>
        </xsd:annotation>
        <xsd:element name="PatentAuthorityFile" type="afp:PatentAuthorityFileType">
                <xsd:annotation>
                        <xsd:documentation>Authority file for patent documents provided by
patent offices according to WIPO Standard ST.37</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="AuthorityFileDataCoverage"
type="afp:AuthorityFileDataCoverageType">
                <xsd:annotation>
                        <xsd:documentation>List of patent documents published by industrial
property offices grouped according to their ST.16 kind-of-document codes for a given date
range</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:complexType name="AuthorityFileDataCoverageType">
                <xsd:sequence>
                        <xsd:element ref="comafp:PublicationDateRange"/>
                        <xsd:element ref="afp:PublicationNumberRangePublicationNumberRangeBag"
minOccurs="0"/>
                        <xsd:element ref="afp:KindCodeCoverageBag" minOccurs="0"/>
                        <xsd:element ref="afp:ExceptionCodeCoverageBag" minOccurs="0"/>
                        <xsd:element ref="comafp:DataCoverageURI" minOccurs="0"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="AuthorityFileDefinition" type="afp:AuthorityFileDefinitionType">
                <xsd:annotation>
                        <xsd:documentation>Provide definition file information relating to
this associated authority file, including file coverage</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:complexType name="AuthorityFileDefinitionType">
                <xsd:choice maxOccurs="unbounded">
                        <xsd:element ref="afp:ExceptionCodeDefinitionBag"/>
                        <xsd:element ref="pat:PatentDocumentKindCodeDefinitionBag"/>
                        <xsd:element ref="comafp:MostRecentDocument"/>
                        <xsd:element ref="afp:AuthorityFileDataCoverage"/>
                        <xsd:element ref="com:CommentText"/>
                        <xsd:element ref="com:DocumentLocationURI"/>
                </xsd:choice>
                <xsd:attribute ref="com:id"/>
                <xsd:attribute ref="afp:groupedAFIndicator" use="required"/>
                <xsd:attribute ref="afp:groupAFCategory"/>
                <xsd:attribute ref="com:updateAFCategory" use="required"/>
        </xsd:complexType>
        <xsd:element name="AuthorityFileEntry" type="afp:AuthorityFileEntryType">
                <xsd:annotation>
                        <xsd:documentation>An authority file entry consists of data required
to uniquely identify a patent publication according to WIPO ST.37</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="PublicationDateRange" type="afp:PublicationDateRangeType">
                <xsd:annotation>
                        <xsd:documentation>Publication date range over which the authority
file is valid</xsd:documentation>
                </xsd:annotation>
```

```
        </xsd:element>
        <xsd:complexType name="PublicationDateRangeType">
                <xsd:sequence>
                        <xsd:element ref="com:StartDate"/>
                        <xsd:element ref="com:EndDate"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="SearchableDescriptionCode" type="afp:SearchableCodeType">
                <xsd:annotation>
                        <xsd:documentation>A code which indicates the language if a text-
searchable description is available, or otherwise indicated with 'N' if not
available</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
<xsd:complexType name="SearchableCodeType">
                <xsd:choice>
                        <xsd:element ref="afp:NotSearchableCode"/>
                        <xsd:element ref="afp:SearchableLanguageCode" minOccurs="1"
maxOccurs="unbounded"/>
                </xsd:choice>
                <xsd:attribute ref="com:id"/>
        </xsd:complexType>
        <xsd:element name="NotSearchableCode" type="afp:NotSearchableCodeTypexsd:string"
default="N">
                <xsd:annotation>
                        <xsd:documentation>Where the text is not available, the searchable,
this indicator is the codeset to N if the information is not available or the code U if it
is unknown whether this information is available</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="SearchableLanguageCode" type="com:ISOLanguageCodeType">
                <xsd:annotation>
                        <xsd:documentation> A two2-letter language code indicates, for
searchable text,indicating the language made available by the Office either as the original
language or an official languagetext-searchable abstract, claims or description is
available in</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="SearchableClaimsCode"
type="afp:TextSearchableCodeTypeSearchableCodeType">
                <xsd:annotation>
                        <xsd:documentation>A code which indicates the language of the claims
if a text-searchable claims is available, or otherwise the code values N (not available) or
U (unknown) value 'N'</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="SearchableAbstractCode"
type="afp:TextSearchableCodeTypeSearchableCodeType">
                <xsd:annotation>
                        <xsd:documentation>A code which indicates the language of the abstract
if a text-searchable abstract is available, or otherwise the code values N (not available)
or U (unknown) as defined in WIPO ST.37 value 'N'</xsd:documentation>

        <xsd:simpleType name="NotSearchableCodeType">

        </N">

                                <xsd:annotation>
                                        <xsd:documentation>Not available</xsd:documentation>

                        </xsd:element>

        U">
```

```
                        <xsd:documentation>Unknown if available</xsd:documentation>
                >
                </xsd:annotation>
        </xsd:restriction>
</xsd:simpleType>
        <xsd:complexType name="AuthorityFileEntryType">
                <xsd:sequence>
                        <xsd:element ref="pat:PatentPublicationIdentification"/>
                        <xsd:element ref="afp:ExceptionCode" minOccurs="0"/>
                                        <xsd:element ref="pat:ApplicationIdentification"
                minOccurs="0"/>
                        <xsd:element ref="patafp:PriorityApplicationIdentificationBag"
minOccurs="0"/>
                        <xsd:element ref="afp:SearchableAbstractCode" minOccurs="0"
maxOccurs="1"/>


                        <xsd:element ref="afp:SearchableDescriptionCode" minOccurs="0"
maxOccurs="1"/>
                        <xsd:element ref="afp:SearchableClaimsCode" minOccurs="0"
maxOccurs="1"/>
                </xsd:sequence>
                <xsd:attribute ref="com:id"/>
        </xsd:complexType>
        <xsd:element name="DataCoverageURI" type="xsd:anyURI">
                <xsd:annotation>
                        <xsd:documentation>
                                Provides URI for where details regarding the data coverage can
be found online</xsd:documentation>
                </xsd:annotation>
        </xsd:element>

        <xsd:complexType name="PatentAuthorityFileType">
                <xsd:sequence>
                        <xsd:element ref="afp:AuthorityFileDefinition" minOccurs="0"/>
                        <xsd:element ref="afp:AuthorityFileEntry" maxOccurs="unbounded"/>
                </xsd:sequence>
                <xsd:attribute ref="com:id"/>
                <xsd:attribute ref="com:officeCode" use="required"/>
                <xsd:attribute ref="com:creationDate"/>
                <xsd:attribute ref="afp:st37Version" use="required"/>
                <xsd:attribute ref="com:ipoVersion"/>
        </xsd:complexType>
        <xsd:attribute name="groupedAFIndicator" type="xsd:boolean">
                <xsd:annotation>
                        <xsd:documentation>Indicates that the authority file has been grouped,
or not, according to one of the defined categories</xsd:documentation>
                </xsd:annotation>
        </xsd:attribute>
        <xsd:element name="DocumentTotalQuantity" type="xsd:nonNegativeInteger">
                <xsd:annotation>
                        <xsd:documentation>Total number of documents available or
provided</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="ExceptionCode" type="afp:ExceptionCodeType">
                <xsd:annotation>
                        <xsd:documentation>ExceptionA one-letter code as indicatedwhich
classifies why the particular complete patent publication is not available in WIPO
St.37machine-readable form at that time </xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="ExceptionCodeCoverage" type="afp:ExceptionCodeCoverageType">
```

```
		<xsd:annotation>
			<xsd:documentation>Data coverage summary by exception code including
total quantity of documents</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="ExceptionCodeCoverageType">
		<xsd:sequence>
			<xsd:element ref="afp:ExceptionCode"/>
			<xsd:element ref="comafp:DocumentTotalQuantity"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:element name="ExceptionCodeCoverageBag"
type="afp:ExceptionCodeCoverageBagType">
		<xsd:annotation>
			<xsd:documentation>Collection of data coverage summary by exception
code</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="ExceptionCodeCoverageBagType">
		<xsd:sequence maxOccurs="unbounded">
			<xsd:element ref="afp:ExceptionCodeCoverage"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:element name="ExceptionCodeDefinition" type="afp:ExceptionCodeDefinitionType">
		<xsd:annotation>
			<xsd:documentation>A set of Exception codes, particularly the codes N,
P and X, and their descriptions as defined by the IP Office, which are different from
definitions in WIPO ST.37</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="ExceptionCodeDefinitionType">
		<xsd:sequence>
			<xsd:element ref="afp:ExceptionCode"/>
			<xsd:element ref="afp:ExceptionCodeDescriptionText"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:element name="ExceptionCodeDescriptionText" type="xsd:string">
		<xsd:annotation>
			<xsd:documentation>A different or specific description of an exception
code, which an IP Office uses in their authority file</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:element name="ExceptionCodeDefinitionBag"
type="afp:ExceptionCodeDefinitionBagType">
		<xsd:annotation>
			<xsd:documentation>List of exception codes that have a different or
specific definition in use by the IP Office rather than the definitions of exception codes
defined in WIPO ST.37</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="ExceptionCodeDefinitionBagType">
		<xsd:sequence maxOccurs="unbounded">
			<xsd:element ref="afp:ExceptionCodeDefinition"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:simpleType name="ExceptionCodeType">
		<xsd:restriction base="xsd:token">
			<xsd:enumeration value="C">
				<xsd:annotation>
					<xsd:documentation>Defective publication
documentsPublication document which is corrupted so that not all of the text is
searchable</xsd:documentation>
				</xsd:annotation>
			</xsd:enumeration>
```

```
                        <xsd:enumeration value="D">
                                <xsd:annotation>
                                        <xsd:documentation>ThePublication document waswhich
deleted after the publication</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="E">
                                <xsd:annotation>
                                        <xsd:documentation>Publication number allocated by the
IPO representing a PCT national/regional phase entry (for example Euro-PCT). No
corresponding document published. A Euro-PCT application is an international (PCT) patent
application that entered the European regional phase</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="M">
                                <xsd:annotation>
                                        <xsd:documentation>Published document which is
considered missing</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="N">
                                <xsd:annotation>
                        <xsd:documentation>ThisThe use of code is for Office internal use and
the code description for 'N' must be provided using ExceptionCodeDefinition, for
instancedescribed in the IP Office's Authority Definition File</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="P">
                                <xsd:annotation>
                                        <xsd:documentation>DocumentPublication document which
available only on paper</xsd:documentation>
                        <xsd:enumeration value="R">
                                        <xsd:documentation>Reissued
publication</xsd:documentation>
                                </xsd:enumeration>
                        <xsd:enumeration value="U">
                                <xsd:documentation>Unknown publication number, for example,
when during compilation of the authority file one or a list of publication number(s) has
been found in the database, but the corresponding document(s) is(are) missing without known
cause. Typically this code can indicate a database error that requires further
analysis</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="W">
                                <xsd:annotation>
                                        <xsd:documentation>This code is for Office internal use
and the code description for 'W' must be provided using ExceptionCodeDefinition, for
instance in the IP Office's Authority Definition FilePublication number which was assigned
but withdrawn before publication of the document</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                        <xsd:enumeration value="X">
                                <xsd:annotation>
                                        <xsd:documentation>The use of code 'X' must be described
in the IP Office's Authority Definition File</xsd:documentation>
                                </xsd:annotation>
                        </xsd:enumeration>
                </xsd:restriction>
        </xsd:simpleType>
        <xsd:attribute name="groupAFCategory" type="afp:GroupCategoryType">
                <xsd:annotation>
                        <xsd:documentation>Identifies how the authority files has been grouped
i.e., by date, publication-level or document-kind code</xsd:documentation>
```

```
		</xsd:annotation>
	</xsd:attribute>
	<xsd:simpleType name="GroupCategoryType">
		<xsd:restriction base="xsd:token">
			<xsd:enumeration value="date">
				<xsd:annotation>
					<xsd:documentation>Date</xsd:documentation>
				</xsd:annotation>
			</xsd:enumeration>
			<xsd:enumeration value="publication-level">
				<xsd:annotation>
					<xsd:documentation>Publication level</xsd:documentation>
				</xsd:annotation>
			</xsd:enumeration>
			<xsd:enumeration value="document-kind">
				<xsd:annotation>
					<xsd:documentation>Document kind</xsd:documentation>
				</xsd:annotation>
			</xsd:enumeration>
		</xsd:restriction>
	</xsd:simpleType>
	<xsd:element name="KindCodeCoverage" type="afp:KindCodeCoverageType">
		<xsd:annotation>
			<xsd:documentation>Data coverage summary by kind code including
document total quantity</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="KindCodeCoverageType">
		<xsd:sequence>
			<xsd:element ref="com:PatentDocumentKindCode"/>
			<xsd:element ref="comafp:DocumentTotalQuantity"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:element name="KindCodeCoverageBag" type="afp:KindCodeCoverageBagType">
		<xsd:annotation>
			<xsd:documentation>Collection of data coverage summary by kind
code</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="KindCodeCoverageBagType">
		<xsd:sequence maxOccurs="unbounded">
			<xsd:element ref="afp:KindCodeCoverage"/>
		</xsd:sequence>
	</xsd:complexType>
	<xsd:element name="MostRecentDocument" type="afp:MostRecentDocumentType">
		<xsd:annotation>
			<xsd:documentation>The most recent document information available or
provided in the authority file</xsd:documentation>
		</xsd:annotation>
	</xsd:element>
	<xsd:complexType name="MostRecentDocumentType">
		<xsd:sequence>
			<xsd:element ref="com:DocumentIdentifier"/>
			<xsd:element ref="com:DocumentDate"/>
		</xsd:sequence>
		<xsd:attribute ref="com:id"/>
	</xsd:complexType>
	<xsd:complexType name="PriorityApplicationIdentificationType">
		<xsd:sequence>
			<xsd:element ref="com:IPOfficeCode"/>
			<xsd:element ref="com:ApplicationNumber" minOccurs="0"/>
			<xsd:element ref="pat:FilingDate"/>
		</xsd:sequence>
		<xsd:attribute ref="com:id"/>
```

```
                <xsd:attribute ref="com:sequenceNumber" use="required"/>
        </xsd:complexType>
        <xsd:element name="PriorityApplicationIdentification"
type="afp:PriorityApplicationIdentificationType">
                <xsd:annotation>
                        <xsd:documentation>Identification of the priority
application</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:complexType name="PriorityApplicationIdentificationBagType">
                <xsd:sequence>
                        <xsd:element ref="afp:PriorityApplicationIdentification"
maxOccurs="unbounded"/>
                        <xsd:element ref="pat:IncorporationByReferenceIndicator"
minOccurs="0"/>
                </xsd:sequence>
                <xsd:attribute ref="com:id"/>
        </xsd:complexType>
        <xsd:element name="PriorityApplicationIdentificationBag"
type="afp:PriorityApplicationIdentificationBagType">
                <xsd:annotation>
                        <xsd:documentation>Collection of priority applications which are used
to claim priority. Refers to ST.9 INID Code 30</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:element name="PublicationNumberRange" type="afp:PublicationNumberRangeType">
                <xsd:annotation>
                        <xsd:documentation>A range of patent publication numbers which are
included within this authority file</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:complexType name="PublicationNumberRangeType">
                <xsd:sequence>
                        <xsd:element ref="pat:BeginRangeNumber"/>
                        <xsd:element ref="pat:EndRangeNumber"/>
                        <xsd:element ref="com:StartDate"/>
                        <xsd:element ref="com:EndDate"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:element name="PublicationNumberRangeBag"
type="afp:PublicationNumberRangeBagType">
                <xsd:annotation>
                        <xsd:documentation>A collection of patent publication number ranges
which are included within this authority file</xsd:documentation>
                </xsd:annotation>
        </xsd:element>
        <xsd:complexType name="PublicationNumberRangeBagType">
                <xsd:sequence>
                        <xsd:element ref="afp:PublicationNumberRange" minOccurs="1"
maxOccurs="100"/>
                </xsd:sequence>
        </xsd:complexType>
        <xsd:attribute name="st37Version" type="xsd:token" fixed="V2_2V3_0">
                <xsd:annotation>
                        <xsd:documentation>A specific release version of ST.37 XML
Schema</xsd:documentation>
                </xsd:annotation>
        </xsd:attribute>
<xsd:attribute name="updateAFCategory" type="afp:UpdateAFCategoryType">
                <xsd:annotation>
                        <xsd:documentation>
                                Determines how updates to the authority file will be performed
e.g., incremental versus full.
                        </xsd:documentation>
```

```
            </xsd:annotation>
      </xsd:attribute>
      <xsd:simpleType name="UpdateAFCategoryType">
            <xsd:restriction base="xsd:token">
                  <xsd:enumeration value="full">
                        <xsd:annotation>
                              <xsd:documentation>
                                    A complete new authority file is provided at each
update period.</xsd:documentation>
            </xsd:annotation>
                  </xsd:enumeration>
                  <xsd:enumeration value="incremental">
                        <xsd:annotation>
                              <xsd:documentation>
                                    Only the new authority file entries published
since the last update period are provided.
                              </xsd:documentation>
                        </xsd:annotation>
                  </xsd:enumeration>
                  <xsd:enumeration value="differential">
                        <xsd:annotation>
                              <xsd:documentation>
                                    Only the records which have changed or are
required to be updated since the last update period are provided.
                              </xsd:documentation>
                        </xsd:annotation>
                  </xsd:enumeration>
            </xsd:restriction>
      </xsd:simpleType>
</xsd:schema>
```

[Appendix to Annex III follows]

~~APPENDIX~~

APPENDIX TO ANNEX III

The Appendix is available at:
~~https://www.wipo.int/standards/en/st37/annexIII_appendix_V2_2.xml~~

https://www.wipo.int/standards/en/st37/annexiii_appendix_V3_0.xml

[Annex IV follows]

ANNEX IV

DOCUMENT TYPE DEFINITION (DTD) FOR AUTHORITY FILE

Version ~~2.2~~3.0

Revision approved by the Committee on WIPO Standards (CWS) at its ~~ninth~~thirteenth session on November ~~5, 2024~~14, 2025

Editorial Note by the International Bureau:

Annex IV of WIPO Standard ST.37 is the set of XML DTD components to represent the minimum and extended data elements of an Authority File of patent documents issued by a Patent Office. Annex IV is based on WIPO Standard ST.36, including the naming convention used to identify the names of the specific data components for Authority File. Annex IV includes an Appendix which is a sample XML instance of an Authority File structured according to the XML DTD.

The complete DTD can be downloaded from here:
https://www.wipo.int/standards/dtd/ST37PatentAuthorityFile_V3_0.dtd

```
<?xml version='1.0' encoding='UTF-8' ?>
<!--Annex IV of WIPO Authority File Standard ST.37, XML Data Type Definition (DTD) for
Authority Files

This entity may be identified by the PUBLIC identifier:
************************************************************************************
*
PUBLIC "-//WIPO//XSD AUTHORITY FILE 2.23.0//EN"
"AuthorityFile_V2_2PatentAuthorityFile_V3_0.dtd"
************************************************************************************
*

************************************************************************

*

**************************************************************************
* 2025-11-14:
(i) Update not-searchable-code to be a fixed value of "N"
(ii) For priority-claims: kind should be removed from here and application number made
optional so that it matches the Schema
(iii) Remove reference to priority-claim-kind
(iv) For publication-number-range, start-date and end-date added
(iv) Corrected document-kind-code-definition to remove cardinality as each kind should only
have one document-kind-code-description
*
* 2021-08-24: Revision of the main body, annexes and appendixes of ST.37 approved by the
Committee on WIPO Standards (CWS) at its ninth session comprising:
* (i) added elements: <searchable-abstract-code?>, <searchable-description-code?>,
<searchable-claims-code?>
* (ii) added attributes @code to be used with <not-searchable-indicator>, referenced by
elements listed in (i)
* (iii) added element <searchable-language-code>, referenced by the elements listed in (i)
```

```
* (iii) changed values of grouped-af-indicator to 'true' and 'false' which are true boolean
values
*
* 2019-07-02: Revision of Annex IV was approved by the Committee on WIPO Standards (CWS) at
its seventh session comprising:
* (i) group-category renamed grouped-af-indicator and is now a list of boolean values 'yes'
and 'no'
* (ii) backup-category renamed update-af-category
* (iii) additional-comment renamed comment-text
*
* 2018-10-19: Revision of Annex IV was approved by the Committee on WIPO Standards (CWS) at
its sixth session.
*
************************************************************

* PUBLIC DTD URL

* http://www.wipo.int/standards/dtd/ST37PatentAuthorityFile_V2_2V3_0.dtd

*****************************************************************************



*****************************************************************************
* CONTACTS
*****************************************************************************
xml.standards@wipo.int

Date first draft created: 2018-09-19
Date last modified: 2021-08-242025-11-14

-->
<!ELEMENT authority-file (authority-file-definition? , authority-file-entry+)>

<!ATTLIST authority-file  country       CDATA  #REQUIRED
                          date-produced CDATA  #REQUIRED >
<!ELEMENT authority-file-definition (exception-code-list | document-kind-code-list | most-
recent-document | data-coverage | comment-text | document-location-uri)+>


 <!ATTLIST authority-file-definition  grouped-af-indicator  (yes | no )  #REQUIRED
                                      group-af-category (date |
                                                         publication-level |
                                                         document-kind )  #IMPLIED
                                      update-af-category (full |
                                                         incremental |
                                                         differential )  #REQUIRED >

<!ELEMENT document-location-uri (#PCDATA)>

<!ELEMENT exception-code-list (exception-code-definition)+>

<!ELEMENT exception-code-definition (exception-code, exception-code-description)>

<!ELEMENT exception-code-description (#PCDATA)>


<!--Publication exception code; single-alphabetic letter code to indicate the reason why
the complete published document, for which the corresponding number is assigned, is not
available:
    C=Defective documents;
    D= Documents deleted after the publication;
```

```
    E=Publication number allocated by the IPO representing a PCT national/regional phase
entry (for example Euro-PCT). No corresponding document published.  A Euro-PCT application
is an international (PCT) patent application that entered the European regional phase;
    M=Missing published documents;
    N=Not used publication number: e.g. publication numbers have been issued, but finally
have not been allocated to any publication;
    P=Document available on paper only;
    R=Reissued publications;
    U=Unknown publication numbers: e.g. when during compilation of the authority file
certain publication number(s) has been found in the database, but the corresponding
document(s) is(are) missing without known cause. Typically this code can indicate a
database error that requires further analysis;
    W=Applications (or patents) which were withdrawn before the publication;
        this can include lapsed or ceased patents and might depend on national patent law
regulations;
    X=Code available for individual or provisional use by an IPO;
-->

<!ELEMENT exception-code (#PCDATA)>
-->
<!ELEMENT document-kind-code-list (document-kind-code-definition)+>

<!ELEMENT document-kind-code-definition (kind, document-kind-code-description)+>

<!ELEMENT document-kind-code-description (#PCDATA)>

<!ELEMENT most-recent-document EMPTY>

<!ATTLIST most-recent-document  publication-number CDATA  #REQUIRED
                                publication-date   CDATA  #REQUIRED >
<!ELEMENT data-coverage (publication-date-range? , publication-number-range? , kind-code-
coverage? , exception-code-coverage? , data-coverage-uri?)>

<!ELEMENT publication-date-range EMPTY>

<!ATTLIST publication-date-range  start-date CDATA  #REQUIRED
                                  end-date   CDATA  #REQUIRED >
<!ELEMENT publication-number-range EMPTY>

<!ATTLIST publication-number-range  begin-range-number  CDATA  #REQUIRED
                                    end-range-number CDATA  #REQUIRED-->
                                   start-date CDATA #REQUIRED
                                   end-date CDATA #REQUIRED>
<!ELEMENT kind-code-coverage (kind, document-total-quantity)*>

<!ELEMENT document-total-quantity (#PCDATA)>

<!ELEMENT exception-code-coverage (exception-code, document-total-quantity)*>

<!ELEMENT data-coverage-uri (#PCDATA)>



<!ELEMENT authority-file-entry (publication-reference , exception-code?, application-
reference? , priority-claims?, searchable-abstract-code?, searchable-description-code?,
searchable-claims-code?)>

<!ELEMENT publication-reference (document-id)>

<!-- document-id tag as defined in ST.36 -->
<!ELEMENT document-id (country , doc-number , kind? , date?)>

<!--Two-letter alphabetic codes which represent the names of states, other entities
and intergovernmental organizations the legislation of which provides for the protection of
```

```
IP rights or which organizations are acting in the framework of a treaty in the field of
IP. e.g. "XX".
Always in upper case.-->
<!ELEMENT country (#PCDATA)>

<!--Doc-number: The number of the referenced patent (or application) document-->
<!ELEMENT doc-number (#PCDATA)>

<!--Document kind code; e.g., A1 (WIPO ST.16)-->
<!ELEMENT kind (#PCDATA)>

<!--Date: components of a date. Format: YYYYMMDD (WIPO ST.2)-->
<!ELEMENT date (#PCDATA)>



<!--Application reference information: application number, country.
In case of a filing reference, the kind code is empty and the date refers to the filing
date.
-->
<!ELEMENT application-reference (country , doc-number , filing-date?)>

<!--Filing Date: components of a date. Format: YYYYMMDD (WIPO ST.2)-->
<!ELEMENT filing-date (#PCDATA)>

<!--Priority application identification (priority-claim)-->
<!ELEMENT priority-claims (priority-claim+)>

<!ELEMENT priority-claim (country, doc-number?, kind , date)>

<!ATTLIST priority-claim  sequence  CDATA  #REQUIRED

                        priority-claim-kind (national | regional | international )
#REQUIRED >

<!ELEMENT comment-text (#PCDATA)>


<!-- Series of two-letter language codes that indicate, for searchable description,
abstract and claim text, the language made available by the Office either as the original
language or an official translation or alternatively 'N' if this text is not searchable or
'U' if it is unknown whether this text is searchable and the language it is available in
➔
-->


<!ELEMENT searchable-description-code (not-searchable-code | searchable-language-code+)>

<!ELEMENT searchable-claims-code (not-searchable-code | searchable-language-code+)>

<!ELEMENT searchable-abstract-code (not-searchable-code | searchable-language-code+)>

<!ELEMENT not-searchable-code EMPTY >

<!-- N means the information is not available and U indicates that it is unknown whetherat
this information is available or nottime-->
<!ATTLIST not-searchable-code code (CDATA #FIXED "N | U) #REQUIRED" >

<!-- WIPO ST.96 language code, e.g., en, de, ja, etc.-->
<!ELEMENT searchable-language-code (#PCDATA)>
```

[Appendix to Annex IV follows]

~~APPENDIX~~

APPENDIX TO ANNEX IV

The Appendix is available at:
~~http://www.wipo.int/standards/en/st37/annexiv_appendix_V2_2.xml~~

http://www.wipo.int/standards/en/st37/annexiv_appendix_V3_0.xml

[End of Annex IV and of Standard]