

Комитет по стандартам ВОИС (КСВ)

Девятая сессия
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ПРЕДЛОЖЕНИЕ О ПЕРЕСМОТРЕ СТАНДАРТА ВОИС ST.37

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ВВЕДЕНИЕ

1. На возобновленной четвертой сессии Комитета по стандартам ВОИС (КСВ) Европейское патентное ведомство (ЕПВ) было назначено руководителем Целевой группы по ведомственному досье, которая отвечает за обеспечение необходимого пересмотра стандарта ST.37. Пересмотр стандарта ВОИС ST.37 Целевой группой по ведомственному досье является частью задачи № 44, формулировка которой гласит: «Обеспечить необходимый пересмотр и обновление стандарта ВОИС ST.37».
2. На своей пятой сессии, состоявшейся в мае 2017 г., КСВ принял стандарт ВОИС ST.37 «Рекомендация в отношении ведомственного досье опубликованных патентных документов». Последующие изменения в стандарт ВОИС ST.37 были одобрены КСВ на его шестой, седьмой и восьмой сессиях, состоявшихся в октябре 2018 г., июле 2019 г. и ноябре 2020 г. соответственно, включая добавление новых приложений III (XML схема) и IV (Определение типа документа (DTD) в XML) и ряд небольших изменений как в основной части, так и в приложениях к стандарту ST.37.
3. Целевая группа по минимуму документации РСТ (Договор о патентной кооперации), также возглавляемая ЕПВ, после предыдущей сессии КСВ провела два заседания — в декабре 2020 г. и мае 2021 г., с тем чтобы изучить возможность использования стандарта ВОИС ST.37 для обеспечения более эффективного описания содержания патентных фондов и фондов полезных моделей, входящих в состав минимума документации РСТ. В ходе этих двух заседаний Целевая группа по минимуму документации РСТ согласовала добавление трех дополнительных столбцов в ведомственные досье, соответствующие требованиям стандарта ST.37, для указания наличия или отсутствия в них следующих элементов для каждого номера публикации:

- полного текста в текстовом формате с возможностью поиска;
- оригинала реферата в текстовом формате с возможностью поиска; и
- реферата на английском языке в текстовом формате с возможностью поиска.

4. Целевая группа по минимуму документации РСТ предложила Целевой группе по ведомственному досье сотрудничать в деле пересмотра стандарта ВОИС ST.37, чтобы обе стороны могли извлечь пользу из добавления указанных трех дополнительных элементов. Хотя эти новые элементы будут обязательными для включения Международными поисковыми органами (МПО) и Органами международной предварительной экспертизы (ОМПЭ), их включение в ведомственные досье, соответствующие требованиям стандарта ВОИС ST.37, предлагается сделать факультативным.

ПРЕДЛАГАЕМЫЕ ИЗМЕНЕНИЯ В СТАНДАРТ ВОИС ST.37

5. В рамках задачи № 51 в свете предложения, представленного Целевой группой по минимуму документации РСТ, Целевая группа по ведомственному досье представляет на рассмотрение и, при необходимости, утверждение КСВ окончательное предложение по пересмотру стандарта ВОИС ST.37. Изменения указаны в приложениях I-III к настоящему документу, при этом выделение желтым цветом указывает на добавление нового текста, а выделение фиолетовым цветом — на удаление текста. В приложении I к настоящему документу приводится стандарт ВОИС ST.37 с выделенными изменениями, в приложении II к настоящему документу приводится дополнение к приложению III к стандарту ST.37 с выделенными изменениями, а в приложении III к настоящему документу приводится дополнение к приложению IV к стандарту ST.37.

6. В основной текст стандарта ВОИС ST.37 предлагается внести следующие изменения:

- (a) добавить новый пункт 8 для указания рекомендации о приведении в соответствие с минимумом документации РСТ путем включения информации, указывающей, какие разделы позволяют осуществлять текстовый поиск;
- (b) внести изменение в пункт 10 (прежний пункт 9), с тем чтобы дать определение трем дополнительным элементам, путем добавления нового пункта 10(d):
 - «(d) Указание на возможность текстового поиска по реферату, описанию, формуле в публикации путем выбора одного из следующих кодов:
 - “N” (отсутствует)
 - “U” (неизвестно)
 - Двухбуквенный(е) код(ы) языка(ов), на котором(ых) имеется текст с возможностью поиска либо в качестве оригинала, либо в качестве официального перевода»;
- (c) внести изменение в пункт 12 (прежний пункт 11) путем добавления нового предложения следующего содержания:
 - «Элементы, определенные в пункте 10(d), считаются обязательными для включения Международными поисковыми органами (МПО) и Органами международной предварительной экспертизы (ОМПЭ) РСТ или теми ВИС, которые желают, чтобы их публикации были включены в состав минимума документации РСТ.»;
- (d) добавить сноску к пункту 12, в которой в качестве определения минимума документации РСТ указано следующее:
 - «См. часть 4.2 Справочника ВОИС по информации и документации в области промышленной собственности.»;

- (e) добавить новый пункт 21, в котором указан код языка, который должен использоваться в ведомственном досье;
- (f) добавить новые пункты 32 и 33 следующего содержания:

«Наличие публикации в формате, обеспечивающем возможность текстового поиска

32. Наличие в публикации реферата, описания и/или формулы в формате, обеспечивающем возможность текстового поиска, может быть указано в ведомственном досье с использованием соответствующих кодов. В случае МПО и ОМПЭ, а также ВИС, которые хотят, чтобы их публикации входили в состав минимума документации РСТ, включение этой информации в их ведомственные досье является обязательным.

33. Наличие каждого раздела публикации в формате, обеспечивающем возможность текстового поиска, должно быть указано в ведомственном досье путем использования кода "N" (отсутствует) или "U" (неизвестно) либо двухбуквенного кода языка для текста на каждом соответствующем языке, предоставленного ведомством в качестве оригинала либо в качестве официального перевода.»;

- (g) внести изменение в пункт 37 (прежний пункт 32) путем добавления нового предложения следующего содержания:

«(f) указать коды, используемые для указания наличия в опубликованной патентной спецификации разделов в формате, обеспечивающем возможность поиска.»;

- (h) по всему основному тексту (на английском языке) слова «Authority File» заменить словами «authority file»; и
- (i) внести изменение в пункт 10 (a), с тем чтобы изменить формулировку примера.

7. В приложения к стандарту ВОИС ST.37 предлагается внести следующие изменения:

- (a) приложение I (Файл определений): указание на то, что ВИС должны предоставлять информацию о наличии в своем файле определений реферата, формулы и описания в машиночитаемом формате;
- (b) приложение II (Текстовый файл (TXT)): рекомендация о том, как указывать информацию о наличии реферата, формулы и описания в машиночитаемом формате при предоставлении данных ведомственного досье в виде текстового файла как для МПО/ОМПЭ, так и для ВИС, не являющихся МПО;
- (c) приложение III (XML схема) и дополнение к нему: в XML схеме определены дополнительные элементы для указания информации о наличии реферата, формулы и описания в машиночитаемом формате; и
- (d) приложение IV (Определение типа документа (DTD) в XML) и дополнение к нему: в XML схеме определены дополнительные элементы для указания информации о наличии реферата, формулы и описания в машиночитаемом формате.

8. Предлагаемые изменения в стандарт ВОИС ST.37 представлены в приложениях к настоящему документу для рассмотрения КСВ.

9. КСВ предлагается:

- (a) принять к сведению информацию, содержащуюся в настоящем

*документе и приложениях к
нему; и*

*(b) рассмотреть и
утвердить предлагаемые
изменения в стандарт ВОИС
ST.37, указанные в пунктах 4-8
выше и приложениях к
настоящему документу.*

[Приложения (предлагаемые изменения в стандарт ВОИС ST.37) следуют]

STANDARD ST.37

RECOMMENDATION FOR AN AUTHORITY FILE OF PUBLISHED PATENT DOCUMENTS

Version 2.2⁴

*Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9
Committee on WIPO Standards (CWS)
at its eighth session on December 4, 2020*

STANDARD ST.37

RECOMMENDATION FOR AN AUTHORITY FILE OF PUBLISHED PATENT DOCUMENTS

Version 2.2~~4~~

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9 Revision approved by the Committee on WIPO Standards (CWS) at its eighth session on December 4

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.
3. In order to allow consistency checks, the authority file should contain the list of all publication numbers assigned by the IP office. This may 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.

REFERENCES

5. References to the following Standards 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)

RECOMMENDATIONS

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 numbers which were allocated but for which no published document is available (see paragraphs [2424](#) to [2727](#) below).

7. 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 [3838](#) and [3939](#) below, then it is recommended to indicate there the date of the publication of the latest document listed in the authority file.

8. For alignment with the requirements of the Patent Cooperation Treaty (PCT) Minimum Documentation, information on which sections of the publication are text-searchable must be provided in an authority file (see paragraphs 13, 33 and 34 below).

DATA ELEMENTS

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

- (a) ~~two~~ 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.

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

- (a) publication exception code ~~(to indicate, for example~~ for example to identify withdrawn or missing documents);
- (b) priority application identification of the corresponding publication, which should contain the following sub-elements:
 - i. two-letter alphabetic code of the IPO publishing the priority application;
 - ii. priority application number;
 - iii. kind-of-document code of the priority application; and
 - iv. filing date of the priority application.
- (c) application identification of the corresponding publication, which should contain the following sub-elements:
 - i. two-letter alphabetic code of the IPO publishing the application;
 - ii. application number; and
 - iii. filing date.

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

- "N" – Not available
- "U" – Unknown
- two-letter language code(s) in which the searchable text is available, either in the original language or as an official translation

11. Publication exception code (as per paragraph [10\(a\)](#)~~9(a)~~ above) should be always included for the documents, for which the complete publication in machine-readable form is not available (see paragraphs [2424](#) to [2727](#) below). Otherwise, the data element "publication exception code" should not be populated.

12. The provision of the optional data elements indicated in paragraphs [10\(b\)](#)~~9(b)~~ and [10\(c\)](#)~~9(c)~~ above remains within the discretion of the IPO generating the authority file. The elements defined in paragraph 10(d) are considered mandatory for inclusion by the International Searching Authorities (ISAs) and the International Preliminary Examining Authorities (IPEA) of the PCT, or those IPOs wishing their publications to be included within the PCT Minimum Documentation set¹.

13. The list of documents in the authority file should be sorted firstly by publication number, secondly by type of document (kind code), thirdly by publication date and (optionally) fourthly by publication exception code and fifthly by priority number.

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

14. For the cases where a publication number has been allocated but no document has been published, data elements “kind code” and “publication date” may not be populated.

Field formatting

15. All elements and sub-elements listed in paragraphs 9³ and 10⁹ above must be recorded in separate fields.

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

Publication ^Aauthority

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

Publication ^Nnumber

18. 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 the recommendations of WIPO Standard ST.6.

Kind ^Ccode

19. Different kinds of patent documents should be identified following the recommendations of WIPO Standard ST.16. If the IPO uses kind-of-document 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 38³⁸ and 39³⁹ below).

20. If no kind of patent document code was allocated or it is unknown, the corresponding data element “kind code” may not be populated.

Language code

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

Publication date

22. The publication date should be presented in accordance with paragraph 7(a) of WIPO Standard ST.2. For example, ‘20170602’ for ‘June 2, 2017’.

23. If the publication date is unknown to the IPO generating the authority file, the corresponding data element “publication date” may not be populated.

Publication exception code

24. The publication exception code should be used for publication numbers for which the complete publication is not available in machine-readable form.

25. 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:

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, for example, when publication numbers have been issued, but for some reason have not been allocated to any publication. See also paragraph 26 ²⁶ below.
P	Documents available on paper only.
R	Reissued publications.
U	Unknown 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.
X	Code available for individual or provisional use by an IPO.

26. It is recommended to list only the numbers assigned by the IPO, but in case of small gaps in the numbering sequence (less than 1000 consecutive publication numbers), the IPO may use the publication exception code "N" to identify the numbers, which were not used.

27. The use of codes "N", "W" and "X" should be described in the definition file (see paragraphs 3838 and 3939 below).

Priority application identification

28. The recommendations for data elements, as indicated in paragraphs 1746 to 2323 above, should be applied mutatis mutandis to all sub-elements of "priority application identification" element.

29. Priority application numbers should be indicated in accordance with paragraphs 12 and 13 of WIPO Standard ST.10/C.

Application Identification

30. The recommendations for data elements, as indicated in paragraphs 17 to 2323 above, should be applied mutatis mutandis to all sub-elements of "application identification" element.

31. Application numbers 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.

Availability of a publication in a text-searchable format

32. 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 codes. In the case of the ISA and IPEA, or IPOs who wish to have their publications as part of the PCT Minimum Documentation set, the inclusion of this information in their authority files is mandatory.

33. 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 Office either as the original language or an official translation.

RECOMMENDED STRUCTURE AND FORMAT OF THE AUTHORITY FILE

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

35. If generating a single file proves impractical due to the resulting file size, the IPO may generate several files, dividing the list of publication numbers based on one 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 kind-of-document code).

36. To improve file handling, IPO may generate an update file which includes data for the current year and the last calendar year and a static file including all older data.

Definition File

37. If some of the records included in the authority file contain information, which is not evident or easily understandable, it is recommended to provide a definition file in addition to the authority 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 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 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 77 above); and
- (e) describe 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.

38. To assist other IPOs and interested parties in a first assessment of the completeness of the available patent documentation, the definition file may also include an overview of the data coverage, for example indicate the number of

publications per year by kind code or by publication level. Annex I contains an example of a definition file to assist IPOs in drafting their definition files.

File Format

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

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

- (a) XML (eXtensible Markup Language) format – to identify the content of data fields of an authority file (see paragraphs 9³ and 10³ above) 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) – to identify the content of minimum data fields 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.

41. 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 data elements (as per paragraph 9³ above) and, if applicable, publication exception code only; the content of each data field should be obvious.

File name

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

- (a) for a single file (see paragraph 35³⁹ above) – CC_AF_YYYYMMDD, where “CC” is the ST.3 code of the IPO, “AF” means “authority file” and “YYYYMMDD” – date of the generation of the authority file.

For example,

EP_AF_20160327 – single authority file generated by the EPO on March 27, 2016; and

- (b) for each one of multiple files (see paragraph 36³⁴ above) CC_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 total number of files generated and “YYYYMMDD” – date of the generation of the authority file.

For example,

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

EP_AF_B-documents_2of2_20160327 – second of two parts of the authority file generated by the EPO on March 27, 2016, 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:

CC_AF_gazetteNNXXXX_YYYYMMDD.ff	contains the authority file for publication NNXXXX where NN is the week number, XXXX is the year and ff is the file format (XML or TXT)
CC_AF_yearXXXX_YYYYMMDD.ff	contains the authority file for the year XXXX
CC_AF_YYYYMMDD.ff	contains the authority file with file format ff
CC_AF.zip	A zipped file which contains the three files above

IMPLEMENTATION OF THE AUTHORITY FILE

43. 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.

44. The update frequency for the authority file should be at least annual. The date the annual update should be provided by IPOs is March 1 each year.

45. 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.

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

ANNEX I

EXAMPLE OF A DEFINITION FILE

Version 2.24

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9, Revision approved by the Committee on WIPO Standards (CWS) at its eighth session on December 4, 2020

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 XX utility model publications

Coverage according to document type and kind-of-document code (see Part 7.3 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 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
U	Unknown publication numbers
X	Bibliographic details of filed patent applications, as announced in the Gazette published by the office
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.

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 of ST.37 follows]

ANNEX II

TEXT FILE (TXT)

Version 2.2⁴

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9 Revision approved by the Committee on WIPO Standards (CWS) at its eighth session on December 4, 2020

1. The authority file text structure lists the minimum data elements, the optional publication exception code element, and the optional text-searchable abstract, description and claims indication code elements (see paragraphs 9 and 10) for each publication record in one line, separated by a comma (preferred), tab or semicolon and a "Carriage Return and Line Feed" (CRLF character) to represent the end of each record.

2. Data structure: <publication authority>,<publication number>,<kind-of-document code>,<publication date>,<publication exception code>,<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. The codes "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", "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

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

4. This first example illustrates an authority file, produced by an ISA or those IPOs wishing their publications to be included within the PCT Minimum Documentation set, represented using a TXT structure where the data elements are separated by a comma:

```
...
EP,2363052,A1,20110907,W, ABST-U, DESC-U, CLMS-U <CRLF>
EP,2363053,A2,20110907,M, ABST-en, DESC-N, DESC-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>
```

5. This second example illustrates an authority file, for those IPOs which do not wish their publications to be included in the PCT Minimum Documentation set, again 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>
```

[Annex III of ST.37 follows]

ANNEX III

XML SCHEMA DEFINITION (XSD) FOR AUTHORITY FILE

Version ~~232~~ 244

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9 Revision approved by the Committee on WIPO Standards (CWS) at its eighth session on December 4, 2020

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 WIPO ST.96 V4_0.

```
<? 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_244">
  <xsd:import namespace="http://www.wipo.int/standards/XMLSchema/ST96/Patent"
schemaLocation="http://www.wipo.int/standards/XMLSchema/AFPatent/V2_1/ST96_Patent_V4_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_0.xsd"
/>
  <xsd:annotation>
    <xsd:appinfo>
      <com:SchemaLastModifiedDate>2021-07-01</com:SchemaLastModifiedDate>
      <com:SchemaContactPoint>xml.standards@wipo.int</com:SchemaContactPoint>
      <com:SchemaReleaseNoteURL>http://www.wipo.int/standards/XMLSchema/AFPatent/V2_244/ReleaseNotes.pdf</com:SchemaReleaseNoteURL>
    </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="com:PublicationDateRange"/>
      <xsd:element ref="afp:PublicationNumberRange" minOccurs="0"/>
      <xsd:element ref="afp:KindCodeCoverageBag" minOccurs="0"/>
      <xsd:element ref="afp:ExceptionCodeCoverageBag" minOccurs="0"/>
      <xsd:element ref="com: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="com: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="SearchableDescriptionCode" type="afp:TextSearchableCodeType">
        <xsd:annotation>
            <xsd:documentation>A code which indicates the language of the description
if a text-searchable description is available, or otherwise the code values N (not
available) or U (unknown) </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:complexType name="TextSearchableCodeType">
        <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:NotSearchableCodeType">
        <xsd:annotation>
            <xsd:documentation>Where the text is not available, the indicator is the
code 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 two-letter language code indicates, for searchable
text, the language made available by the Office either as the original language or an
official language</xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="SearchableClaimsCode" type="afp:TextSearchableCodeType">
        <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) </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="SearchableAbstractCode" type="afp:TextSearchableCodeType">
        <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 </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:simpleType name="NotSearchableCodeType">
        <xsd:restriction base="xsd:token">
            <xsd:enumeration value="N">
                <xsd:annotation>
                    <xsd:documentation>Not available</xsd:documentation>
                </xsd:annotation>
            </xsd:enumeration>
        </xsd:restriction>
    </xsd:simpleType>

```

```

        </xsd:enumeration>
        <xsd:enumeration value="U">
            <xsd:annotation>
                <xsd:documentation>Unknown if available</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
    </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="pat: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: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="ExceptionCode" type="afp:ExceptionCodeType">
    <xsd:annotation>
        <xsd:documentation>Exception code as indicated in WIPO
ST.37</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="com: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, W
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="afx:ExceptionCode"/>
        <xsd:element ref="afx: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="afx: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="afx:ExceptionCodeDefinition"/>
    </xsd:sequence>
</xsd:complexType>
<xsd:simpleType name="ExceptionCodeType">
    <xsd:restriction base="xsd:token">
        <xsd:enumeration value="C">
            <xsd:annotation>
                <xsd:documentation>Defective publication
documents</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="D">
            <xsd:annotation>
                <xsd:documentation>The document was 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 is
missing</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="N">
            <xsd:annotation>
                <xsd:documentation>This code is for Office internal-use and the
code description for 'N' must be provided using ExceptionCodeDefinition, for instance in
the IP Office's Authority Definition File</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="P">
            <xsd:annotation>
                <xsd:documentation>Document available only on
paper</xsd:documentation>
            </xsd:annotation>
        </xsd:enumeration>
        <xsd:enumeration value="R">
            <xsd:annotation>

```



```

        <xsd:documentation>Reissued publication</xsd:documentation>
      </xsd:annotation>
    </xsd:enumeration>
    <xsd:enumeration value="U">
      <xsd:annotation>
        <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 could be 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 File</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="com: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="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:sequence>
</xsd:complexType>
<xsd:attribute name="st37Version" type="xsd:token" fixed="v2.2.1">
    <xsd:annotation>
        <xsd:documentation>A specific release version of ST.37 XML
Schema</xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:schema>
```

[Appendix of ST.37 Annex III follows]

APPENDIX

Editorial Note by the International Bureau:

The Appendix to Annex III of ST.37 can be found in Annex II of the present document.

[Annex IV of ST.37 follows]

ANNEX IV

DOCUMENT TYPE DEFINITION (DTD) FOR AUTHORITY FILE

Version 2.26

Proposal presented by the Authority File Task Force for consideration and approval at the CWS/9 Revision approved by the Committee on WIPO Standards (CWS) at its seventh session on July 5, 2019

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.

```
<?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 2.26//EN" "AuthorityFile_V2_26.dtd"
*****
*
```

```
*****
*
* 2021-08-24: draft proposal revision of the main body, annexes and appendixes of ST.37
for alignment with the PCT Minimum Documentation requirements:
* (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 <searcheable-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 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\_2.dtd
```

```
*****
```

```
*****
* CONTACTS
```

```
*****
xml.standards@wipo.int
```

```
Date first draft created: 2018-09-19
```

```
Date last modified: 2021-08-24
```

```
-->
```

```
<!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)>
<!--
<!ATTLIST exception-code (C |
                D |
                E |
                M |
                N |
                P |
                R |
                U |
                W |
                X ) #IMPLIED >
-->
<!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 >
<!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 >

<!-- 1/07/2019 -- Add CWS/7/17 for alignment with XSD <!ELEMENT additional-comment
(#PCDATA)-->
<!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-abstract-code (not-searchable-code | searchable-language-code+)>

```

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

```
<!ELEMENT searchable-claims-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 whether  
this information is available or not-->
```

```
<!ATTLIST not-searchable-code code (N | U) #REQUIRED>
```

```
<!-- WIPO ST.96 language code, e.g., en, de, ja, etc.-->
```

```
<!ELEMENT searchable-language-code (#PCDATA)>
```

[Appendix to ST.37 Annex IV follows]

APPENDIX

Editorial Note by the International Bureau:

The Appendix to Annex IV of ST.37 can be found in Annex III of this document.

[End of Annex IV and of Standard]

[Annexes II (Appendix to ST.37 Annex III) and III (Appendix to ST.37 Annex IV) to this document follow]