

SciVerse SCOPUS CUSTOM DATA DOCUMENTATION



Version 4
April 2012

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CONTENTS

I. Introduction	7
About this manual	7
Prerequisite Knowledge	7
II. Technical requirements	7
III. Data elements	11
1. abstract	12
2. abstract-language	13
3. abstracts	13
4. additional-srcinfo	14
5. address-part	15
6. affiliation	15
7. ait:date-delivered	16
8. ait:date-sort	17
9. ait:process-info	18
10. ait:status	19
11. article-number	20
12. author	20
13. author-group	21
14. author-keyword	22
15. author-keywords	23
16. bib-text	23
17. bibdataset	23
18. bibliography	24
19. bibrecord	24
20. cas-registry-number	25
21. ce:degrees	25
22. ce:doi	25
23. ce:e-address	26
24. ce:given-name	26
25. ce:indexed-name	26
26. ce:initials	27

27. ce:para	27
28. ce:pII.....	27
29. ce:suffix.....	27
30. ce:surname	28
31. ce:text.....	28
32. chemical	28
33. chemical-name	29
34. chemicalgroup.....	29
35. chemicals.....	30
36. citation-info.....	30
37. citation-language.....	32
38. citation-title	32
39. citation-type	32
40. city.....	33
41. city-group.....	34
42. classification	34
43. classificationgroup.....	34
44. classifications.....	35
45. codenCode	35
46. collaboration	36
47. confcatnumber	37
48. confcode.....	37
49. confdate.....	37
50. confeditors.....	38
51. conferenceinfo	38
52. confevent.....	39
53. conflocation.....	39
54. confname.....	40
55. confnumber	40
56. confpublication	41
57. confsponsor.....	41
58. confsponsors	42
59. contributor.....	42
60. contributor-group.....	43
61. copyright	44
62. correspondence	45
63. country	46
64. date-completed.....	46
65. date-created	47
66. date-revised	47

67. date-text.....	48
68. day	48
69. dbcollection.....	48
70. descriptor.....	49
71. descriptorgroup	49
72. descriptors	50
73. dummy-link.....	50
74. editor	51
75. editoraddress	52
76. editororganization	52
77. editors.....	52
78. enddate	53
79. enhancement	53
80. et-al.....	54
81. head	54
82. history	55
83. inf	56
84. isbn.....	56
85. issn	57
86. issuetitle	57
87. item.....	57
88. item-info.....	58
89. itemid	59
90. itemidlist	59
91. itemlink	60
92. link	60
93. mainterm	61
94. month	61
95. nametext.....	62
96. organization.....	62
97. pagecount	62
98. pagerange	63
99. pages	63
100. part	63
101. person.....	64
102. postal-code	64
103. preferred-name.....	64
104. preferred-sourcetitle.....	65
105. procpagecount.....	65
106. procpagerange	65

107. procpartno	66
108. publicationdate.....	66
109. publicationyear.....	66
110. publisher.....	67
111. publisheraddress.....	67
112. publishercopyright	67
113. publishername	68
114. ref-authors	68
115. ref-fulltext	69
116. ref-info	69
117. ref-publicationyear.....	70
118. ref-sourcetitle	71
119. ref-text.....	71
120. ref-title.....	71
121. ref-titletext.....	71
122. ref-volisspag.....	72
123. ref-website.....	72
124. reference.....	72
125. related-item	73
126. reportinfo.....	74
127. reportnumber.....	75
128. source	75
129. sourcetitle	77
130. sourcetitle-abbrev.....	77
131. startdate	78
132. state	78
133. sublink.....	78
134. subsublink	79
135. sup	79
136. supplement	79
137. tail.....	79
138. titletext	80
139. trademanuitem	80
140. tradename	81
141. tradenamegroup	81
142. tradenames	81
143. translated-sourcetitle.....	82
144. venue	82
145. voliss	82
146. volisspag	83

147. volumetitle	83
148. website	84
149. websitename.....	84
150. xocs:eid	84
151. xocs:oeid	85
152. year.....	85
IV. Author Metadata and Author Profiles	85
V. Cited By counts.....	90
Cited By counts.....	90
Cited by counts Example	90
VI. Ordering data and data decryption	91
Step 1 - Defining the Request.....	91
Step 2 – Sample Set	91
Step 3 – Delivery of Data	92
VII. Lists of codes and abbreviations	94
Citation types	94
DBCcollection Codes	94
Item ID Codes	95
Country codes	95
Language codes.....	100
Source types	101
Database classifications	101
All Science Journal Classification (ASJC) Codes.....	104
Dates explained.....	110

I. Introduction

About this manual

This manual has been designed as support documentation **to the SciVerse Scopus Custom Data extraction service** and is therefore only relevant to customers of the Scopus Custom Data service. The purpose of this manual is to familiarize customers with the different steps and procedures involved in extracting and transferring Scopus datasets, and to give an overview of all the different data elements that together make up the Scopus XML data..

Prerequisite Knowledge

In order for you to be able to use this guide, you must be familiar with the following:

- Extensible Markup Language (XML)
(for more information, see <http://www.w3.org/XML/>)
- GNUPI <http://www.gnupg.org/>

II. Technical requirements

This Chapter describes in short the requirements a client or partner, interested in Scopus Custom Data, should meet in order to load and host the data. The eventual objectives behind using Scopus data and how to achieve these objectives are beyond the scope of this Chapter. For example, guidelines for performing bibliometric analyses using Scopus Custom data are not addressed here.

Custom Data facts and figures

Scopus is the largest Abstract and Indexing database worldwide. It is important to bear in mind that the database is continuously growing at ~10.4% CAGR. When reading the figures below, the growing aspect should be taken in consideration to accommodate for capacity updates. This obviously has direct impact on approaches and solutions considered, certainly from the scalability point of view. Below Table shows fact and figures related to the entire Scopus database and also to the last 16 years of data only (status October 2011).

	Entire database	1996 to present
Number of items	46.2 million	25.1 million
Total size zipped	~218 GB	~150 GB
Total size unzipped	~1.3 TB	~880 GB

Notes:

- i. Numbers above are rough estimates. It's recommended to accommodate for additional disc capacity (doubling the numbers above) in order to deal with database overhead, temporary storage, etc.
- ii. An article with references is on average 40 kB large. An article without references is 10 kB in size.
- iii. All publications from 1996 and onwards are in Scopus captured with references when applicable. In the numbers above it's assumed that all 25.1 million records have references which is not entirely true. There are records which simply don't cite any record.
- iv. A Custom Data request for the last 16 years of publications doesn't necessarily result in 150 GB only (when zipped). It could be higher depending on whether the citing documents – when requested – have been provided separately or not. In this case the 150 GB will be seen as the minimum size provided.

- v. Numbers provided here form only an indication as these figures can easily change over time. The figures provided here form a snapshot of the database state of October 2011.
- vi. In addition to incremental growth described above, Scopus initiates from time to time extra projects where extra journals in specific subject areas are added, such as for Social Sciences in 2009/2010. The CAGR indicated above doesn't take in account for these initiatives. SciVerse Scopus issues Newsletters notifying customers about such initiatives.
- vii. The Scopus Custom Data service can provide data in different layouts. The default layout is per year. Within a year, the data is sliced in batches of X number of records per batch. Typically this is 10,000 publications per batch. Note though that when a different layout is requested, the request will be investigated first for feasibility.

Loading and hosting the data

As the data size is quite large both in quantity of items as in bytes, performing queries, analysis or extracting information out of the data becomes a less trivial task. In addition, Scopus data is quite rich in granularity and structure. Both data size and richness allows for a wide range of possibilities but does pose the challenge of making the right choices with regard to hardware, Operating System (OS) and database technology. The recommendations below are meant as guidance towards defining the right strategy.

Operating System

An operating system like Microsoft Windows on a regular¹ personal computer is unlikely to be suited for data activities on a scale like Scopus Custom Data. The limitations are mainly related to how an operating system (OS) deals with opening huge files, i.e. files with a size of 500 MB like in the case of Custom Data. What is needed in this context is an operating system with Large File Support (LFS). An OS – also Microsoft Windows – will be able to deal with large files provided the necessary internal memory and the support of a file system of at least 32 bit. Operating systems with 32-bit file systems can open files of size up to 4 GB. With a 64-bit operating system, files larger than 4 GB can be opened without problems. All boxes currently sold are equipped with either 32-bit or 64-bit file systems. While a 32-bit file system is just fine for Scopus Custom Data, it's recommended to use a 64-bit version for performance reasons mainly.

As explained above any operating system chosen is fine. However, it's preferred to use either Linux (Red Hat, Suse, Debian, Ubuntu, CentOS or any established distribution), FreeBSD, OpenBSD or Solaris (e.g., SUN, sparc or intel). These operating systems have proven themselves in terms of reliability, stability, scalability and security over the years. In addition these OS provide a wide range of tools and built-in features (e.g. regular expressions, etc.) which come very handy when dealing with (XML) files during the ETL process. A choice for a specific operating system is not only relevant in order to be able to handle large XML bulk of data, it's also quite critical for the to be developed database.

The use of Microsoft Windows server with a configuration comparable to above regarding the file system is certainly an option.

Memory/Processors/Storage

Typically internal memory (RAM) and processors are mentioned in the context of performance. This is also valid for Scopus Custom Data. The high spec-ed a machine is, the better, e.g. more RAM means generally speaking better performance when optimally leveraged. The performance gain is then achieved through the execution of multiple applications and processes that can run in parallel. (Multi) threading is a typical known

¹ Regular means a machine with common PC specs, i.e. a RAM of 2-3 GB, one single processor, etc.

practice. This guarantees almost always faster delivery of the end results. Also the more processors are available on a box the easiest (multi) threading can be implemented and the easier different tasks can be performed. Distributed architecture, usually considered for performance reasons, can only be supported through high spec-ed hardware both in terms of RAM and processors.

The amount of data (bytes) and the large file size aspects of Scopus Custom Data plus the necessity of loading the data in a database reinforce the need of middle-high performing hardware specs. However, users are free to install the hardware of their choice. Based on common experiences, taking in a consideration the need of a database, 1-2 dual core processors of 8-16GB of RAM or higher is recommended. In terms of storage, a disk space of around 2 TB is strongly recommended when processing a dataset of 1996-Present. Although Scopus Custom Data – even the entire Scopus database – won't need this space, it's common practice to reserve significant disk space for database overhead. How much overhead disk space is required depends for a great deal on the software used.

In case a database is not needed, a single dual core processor of 2-4GB is probably sufficient.

Database technology

Tools like Microsoft Excel or Microsoft Access will not be of any serious help due to limitations, e.g. maximum number of rows allowed, etc. Depending on the number of items to be loaded (assuming here 10 years of data, i.e. > 19M records), mature database software like: Oracle, Postgres or SQL should be considered. These have proved to be very suited for large amount of data.

There are two types of databases one should consider when dealing with XML data, as in Scopus Custom Data: Relational Databases or Native XML databases.

- i. A relational database (<http://en.wikipedia.org/wiki/RDBMS>) is a database that conforms to the relational model, and refers to a database's data and schema. Systems managing these relational databases (RDBMS) are: Oracle, Microsoft SQL, PostgreSQL, MySQL, IBM's DB2, etc.
In an RDBMS type of database, data is typically loaded and indexed according to a pre-defined data model. Simply put, tables for specific data elements or type are defined and are linked with each other through relations. Typically a data model is carefully designed in order to ensure various granular output that can then easily be aggregated during query time. The development of a good data model is perhaps one of the most challenging tasks during the creation of a database.
RDBMS exist so long that main developers find it easy to deal with. On the other hand performance might be affected when queries become complex (e.g., too many joins) due to a very large data model. In addition the update or change of a data model often results in re-building the database.
- ii. An XML native database (http://en.wikipedia.org/wiki/XML_native_database) is a data software system that allows data in XML format to be imported, accessed and exported. A Native XML database (NXD) is a database that Defines a (logical) model for an XML document — as opposed to the data in that document — and stores and retrieves documents according to that model. There are numerous implementations of NXD: SQL Server 2005, IBM's DB2 9 Express-C, Oracle XML DB, eXist-db (Open source, <http://exist.sourceforge.net>), MarkLogic Server (Commercial, <http://www.marklogic.com>), etc.
The main advantage of an XML native database is the simplified ETL process and the elimination of a data model dependency. In fact, data can be loaded directly from the source without any transformation as long as a DTD or schema is provided. While relational databases lose the XML structure, in an XML native database these are kept since a document is indexed as it is. Another strong argument for an XML native database is the flexibility it allows during query. Where a RDBMS type of database

relies on SQL queries based on indexed tables, Xqueries are used to query the XML data directly. This requires a good understanding of XML and XQuery language. It should be noted that most of the XML native database vendors are commercial (except for eXist-db). This technology is generally speaking quite expensive.

Any database chosen will do the task regardless on what this is. It is advisable though to seriously consider an XML database because of the richness of the Scopus Custom Data XML. The SciVerse Scopus Custom Data and Scopus team recommend either MarkLogic or eXist.

On the other hand, using a conventional relational database with the appropriate XML interface will also serve nicely. It has then the advantage of being known to most of the DBAs. Note also that any database choice will be tied to both Operating system and hardware specifications.

Recommendations

Hardware/software

Taking in consideration the above outlined details, a typical system to perform most of the complex operations might comprise:

- i. A (Red Hat) LINUX based box preferably with 64-bits architecture.
- ii. A 8Gb 1-2 processors equipped with the necessary disk capacity (depending on the data request), and
- iii. Best performing disks are local SCUSI disks. An external storage architecture such as NAS is probably the best option when disks are shared. A RAID-0 might be considered for best performance if redundancy is not required.
- iv. A SQL or XML native database, e.g. respectively PostgreSQL or MarkLogic. Alternatively one could consider MySQL on a MS Windows server or eXist as an open source alternative to Mark Logic.

Data

- i. It's important to request and study a Scopus Custom Data sample in order to place the right data extraction request.
- ii. Generally speaking, data fields not required for your objective might be considered to be excluded from loading into your database. For example, unless there is a need to load and store the "Abstract" field, it will save disk and processing time if it's left out.
- iii. A native XML database implementation has the benefit to load the data as received by Scopus Custom Data. When a conventional RDBMS solution is considered, a number of data preparation tasks need to be performed first, e.g. conversion and normalization.
- iv. The Scopus Custom Data is typically delivered on a external hard drive (e.g. USB) as many large zipped files. The data is also encrypted. GunPG is a good tool to use for decryption once the decryption key is received from the Scopus Custom Data support team. This key is always delivered separately from the data.
- v. The decryption and unzipping of the files are tasks that are quite I/O extensive. It's a good practice to do this task on high spec-ed box. Database tables might then be created on a relatively modest machine.

III. Data elements

This section of the manual describes all elements and subelements that can be present in Scopus Custom Datasets. Few important things to know:

- i. Scopus content travels through several databases before it reaches the on-line Web application. The receiving database is called OPSBANK. This system receives and converts data directly after capturing and delivers to several products among which are Compendex, Scopus, EMBASE, etc. Scopus data is enriched with Author and Affiliation IDs in what we call the Scopus and Author Warehouse application. The latter system delivers profiled data to a so-called XML Fabrication (XFAB) database, which finally sends the data to the XML On-line Content System (XOCS) which puts the data on-line.
- ii. Scopus Custom Data is extracted and delivered from the XOCS system.
- iii. When traveling through the several databases and conversions, most data elements are somewhat tweaked. This means for instance that certain (sub)elements will receive prefixes like 'xocs' which were not present in the data when originally received from the OPSBANK database.
- iv. Below element descriptions are OPSBANK descriptions, so lack prefixes like 'xocs'. Customers should keep that in mind when looking up elements soon they have started using the data.
- v. Several (xocs) time stamps are added while data travels through the systems. Most of these can be ignored and are of no relevance to the customer.

Note: There is a possibility the data elements list contains (sub)elements which cannot be found in your data. Some of the elements might have disappeared when migrating from one dtd/schema to another.

1. abstract

Description

Element [abstract](#) contains an abstract of the document.

Usage

See element [abstracts](#).

```
<abstract original="y">
  <ce:para>
    Members of the genus Aeromonas are important enteropathogens.
    Commercial identification systems are often unable to correctly
    identify Aeromonas strains and misidentification as Vibrio spp.
    is common. &copy; 2002 Elsevier Science Inc. All rights
    reserved.
  </ce:para>
</abstract>

<abstract source="cover">
  <ce:para>
    Presents the most effective aspects of bioenergetics, Gestalt
    therapy, psychomotor therapy, Reichian orgonomy, and many other
    practices, along with a wealth of therapeutic techniques of body-
    oriented psychotherapy. The book is divided into four parts: the
    historical and theoretical perspective, the body as the locus of
    personality assessment, the body as the locus of psychotherapeutic
    intervention, and personal and ethical considerations. (PsycINFO
    Database Record(c) 2003 APA, all rights reserved)
  </ce:para>
</abstract>

<abstract source="chapter">
  <ce:para>
    Presents a historical overview to provide the reader with some
    background to the graphology debate. The author emphasizes the
    historic and present connection of graphology with mystical and
    occult doctrines. This does not, by itself, refute graphology, since
    medicine and astronomy had some of their origins in doctrines that
    we know today (or even were known at the time) to be
    pseudoscientific, as graphologists like to point out. (PsycINFO
    Database Record (c) 2003 APA, all rights
    reserved)
  </ce:para>
</abstract>
```

Light reading

The [source](#) attribute contains values indicating from which part of the document the abstract originates or what type of abstract this is. Possible values are:

- journal abstract
- chapter
- introduction
- preface
- jacket
- foreword

Please note that it is not possible to give a complete list.

The attribute [perspective](#) can have the values "MEDL AAMC", "MEDL AIDS", "MEDL KIE", "MEDL PIP", "MEDL NASA", "MEDL Consumer", "CPXAUTHOR", "CPXEDITAUT", "CPXNONE", "CPXTRANSAUT", "CPXTRANSEEDITAUT", "API", "CISENV", "ABSCREATE", "ABSEEDIT", "ABSTRANS", "PRESCREEN", "NOABSTRACT".

2. abstract-language

Description

Element [abstract-language](#) contains the language(s) of the summaries in the original document.

Usage

Element [abstract-language](#) contains the language(s) of the summaries printed in the original document. Up to three summary languages are captured.

This is an empty element. The actual citation language is in attribute [xml:lang](#). The language codes used are standard ISO 636 language codes.

XML

```
<abstract-language xml:lang="eng"/>
<abstract-language xml:lang="fre"/>
```

Explanation

Usually the language name will be displayed instead of the language code.

3. abstracts

Description

Element [abstracts](#) contains the abstract(s) of the document.

Usage

Element [abstracts](#) contains one or more abstracts of the document, optionally preceded by a copyright statement of the publisher. Most items have a single abstract which is the author summary. But there can be additional abstracts, e.g. a translation of the original author summary or an abstract written from a specific perspective. Element [abstracts](#) contains an occurrence of the child element [abstract](#) for every abstract, with four attributes indicating the language of the abstract (attribute [xml:lang](#), a 3-letter standard ISO 636 language code), the perspective from which the abstract was created (optional, attribute [perspective](#), an attribute indicating whether the abstract was part of the original document or not (attribute [original](#), value "y" or "n" respectively) and an attribute containing information on the source \ of the abstract (optional, attribute [source](#)).

Element [abstract](#) consists of one or more paragraphs (child element [ce:para](#)).

```

<abstracts>
  <abstract xml:lang="eng" original="y">
    <publishercopyright>&copy; 2003 Elsevier Ltd. All rights reserved.
    </publishercopyright>
    <ce:para>In order to evaluate the biochemical effects of long-term
      treatment with inhibitors of acetylcholinesterase (AChE) in
      patients with Alzheimer's disease (AD), we measured the
      activities of AChE and butyrylcholinesterase (BuChe) and the
      concentrations of &beta;-amyloid (1-42), &tau; and
      phosphorylated &tau; proteins in the cerebrospinal fluid (CSF).
    </ce:para>
  </abstract>
  <abstract xml:lang="eng" perspective="NOABSTRACT" original="n">
    <ce:para>Treatment of Alzheimer's Disease (AD)</ce:para>
    <ce:para>Cerebrospinal fluid (CSF) levels of biomarkers and activity
      of acetylcholinesterase (AChE) and butylcholinesterase in AD
      patients treated with Exelon.
    </ce:para>
    <ce:para>In the 10 patients treated with Exelon, a
      significant reduction of AChE activity was
      documented in this group. BuChe activity and levels of other
      biomarkers did not show variations.
    </ce:para>
    <ce:para>This study showed that: (i) AChE inhibitors induced
      different effects on AChE activity in the CSF
      and, at least for donepezil, the effect was dose-dependent; (ii)
      the biochemical effects of these drugs were detected in CSF and
      different treatments were distinguished (iii) other CSF
      biomarkers of AD were not significantly affected by treatment
      with AChE inhibitors.
    </ce:para>
  </abstract>
  <abstract xml:lang="eng" perspective="PSYC" original="y" source="journal
  abstract">
    <ce:para>Child-Centered Therapy and Family Systems Therapy have
      traditionally been seen as very different, if not incompatible
      approaches to resolving family problems. These approaches have been
      viewed as in conflict theoretically, regarding focus and technique.
      (PsycINFO Database Record (c) 2003 APA, all rights reserved)
    </ce:para>
  </abstract>
</abstracts>

```

4. additional-srcinfo

Description

Element [additional-srcinfo](#) contains additional information on the source like conference information, report number or secondary source information.

Usage

The element consists of four optional child elements: [secondaryjournal](#) (only available for items that have source type S = Secondary journal), [conferenceinfo](#) (most frequently used for items that have source type P = Conference Proceeding, but can occur with all source types), [reportinfo](#) (only available for items that have source type R = Report) and [toc](#) (table of contents).

```
<additional-srcinfo>
  <reportinfo>
    <reportnumber>WF1765-yyy</reportnumber>
  </reportinfo>
</additional-srcinfo>
```

5. address-part

Description

Element [address-part](#) contains information on the address-part of the affiliation of an author of the document.

Usage

See [affiliation](#).

```
<affiliation country="gbr">
  <organization>School of Biological Sciences</organization>
  <organization>University of Bristol</organization>
  <address-part>Woodland Road</address-part>
  <city-group>Bristol BS8 1UG</city-group>
</affiliation>
```

6. affiliation

Description

Element [affiliation](#) contains author address information.

Usage

The [affiliation](#) element consists of either an unstructured address text (element [ce:text](#)), or a structured address, containing up to three [organization](#) elements, an optional [address-part](#) element containing street or P.O.box information, and (again optional) either an unstructured [city-group](#) element containing city and postcode information, or three separate elements [city](#) and/or [state](#) and/or [postal-code](#).

The country of the author address is in attribute [country](#) of element [affiliation](#). The 3-letter countrycodes are standard ISO 3166 country codes.

Attribute [afid](#) (optional) contains an id identifying a unique affiliation.

Attribute [dptid](#) (optional) contains an id identifying a department within the affiliation specified in attribute [afid](#).

```

<affiliation country="usa" afid="00246578">
  <organization>Michigan State University</organization>
  <citygroup>East Lansing, MI 48824-1311</citygroup>
</affiliation>
<affiliation country="usa" afid="00246578" dptid="123">
  <organization>204 Ctr. for Integrated Plant Syst.</organization>
  <organization>Michigan State University</organization>
  <citygroup>East Lansing, MI 48824-1311</citygroup>
</affiliation>
<affiliation country="usa">
  <organization>Division of Cardiovascular Medicine</organization>
  <organization>Univ. of AR for Medical Sciences</organization>
  <address-part>4301 West Markham, Slot 532</address-part>
  <city>Little Rock</city>
  <state>AR</state>
  <postal-code>72205</postal-code>
</affiliation>

```

Light reading

Addresses are transliterated if necessary (e.g. for Slavic/Greek addresses).

The affiliationid attribute (afid) is for future use and will not be used until later.

See also

[author-group](#)

7. ait:date-delivered

Description

The element [ait:date-delivered](#) contains the date on which the record was delivered to the customer. Normally, it is the same for every record in an XML file.

Usage

The element [ait:date-delivered](#) is an empty element, with three attributes: [year](#), [month](#) and [day](#). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

XML

```
<ait:date-delivered year="2002" month="12" day="03"/>
```

Explanation

If day or month is less than 10, a leading zero is added.

Rendering notes

Can be displayed as desired, e.g. "Delivered: <year>-<month>-<day>" (or with the number of the month substituted by the corresponding 3-letter code or month name).

8. ait:date-sort

Description

Element [ait:date-sort](#) contains a sorting date created for the document.

Usage

The sorting date is based on the publicationdate or (if no publicationdate is available) on the creationdate of the record. The element [ait:date-sort](#) is an empty element, with three attributes: [year](#), [month](#) and [day](#). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

The construction rules are: if a full publication date is available, then that date is used as date-sort (exception: if the publication year is higher than the record creation year, then only the publication year is used for date-sort, and the day and month in date-sort will be set to 1).

Example:

publication date "6 January 2000" plus record creation date "22 March 2000" will give:

XML

```
<ait:date-sort year="2000" month="01" day="06"/>
```

Example:

publication date "6 February 2000" plus record creation date "22 December 1999" will give:

XML

```
<ait:date-sort year="2000" month="01" day="01"/>
```

If there is a publication year and month, then year and month are taken from that date, and day is set to 1.

Example:

publication date "October 1999" plus record creation date "12 January 2000" will give:

XML

```
<ait:date-sort year="1999" month="10" day="01"/>
```

If there is only a publication year, then the month of the record creation date is used and the day is set to 1 (exception: if the publication year is lower than the record creation year, then the date-sort is set to year = publication year, month = 12, day = 1).

Example:

publication year "2002" plus record creation date "11 March 2002" will give:

XML

```
<ait:date-sort year="2002" month="03" day="01"/>
```

Example:

publication year "2001" plus record creation date "11 March 2002" will give:

XML

```
<ait:date-sort year="2001" month="12" day="01"/>
```

If there is only a publication year and no record creation date (or the record creation date can't be used because the record was produced through the content backward gapfill) then the date-sort is set to year = publication year, month = 1, day = 1.

Example:

publication date "Winter 2001" plus record creation date "3 March 2003" for a gapfill record will give:

XML

```
<ait:date-sort year="2001" month="01" day="01"/>
```

If there is no publication year then the record creation date is used as date-sort.

Example:

no publication date plus record creation date "5 March 2002" will give:

XML

```
<ait:date-sort year="2002" month="03" day="05"/>
```

If there is no publication year and no record creation date (or the record creation date can't be used because the record was produced through the content backward gapfill) then the date-sort is set to year = OPSBANK production year, month = 0, day = 0.

Example:

no publication date plus record creation date "3 March 2003" for a gapfill record in the OPSBANK production year 2002 will give:

XML

```
<ait:date-sort year="2002" month="00" day="00"/>
```

Light reading

For core records produced through the content backward gapfill the record creation date may not be used for the construction of the date-sort

Season terms (fall, winter etc.) are ignored for the construction of the date-sort.

9. ait:process-info**Description**

The [ait:process-info](#) element contains information that is not part of the bibliographic information, but can be used for processing the item.

Usage

The [ait:process-info](#) element consists of three child elements: [ait:date-delivered](#), [ait:date-sort](#) and [ait:status](#).

The [ait:status](#) element is used to indicate whether a delivered item is a core item or a dummy item (generated from an unlinked reference), and whether it is a new item, an update of a previously delivered item or a previously delivered item that has been deleted.

```
<ait:process-info>
  <date-delivered year="2002" month="09" day="12"/>
  <date-sort year="2001" month="12" day="01"/>
  <status type="core" state="new"/>
</ait:process-info>
```

Rendering notes

The data in [ait:process-info](#) is used for processing only and will normally not be rendered.

10. ait:status

Description

The [ait:status](#) element is used to indicate whether a delivered item is a core item or a dummy item, and whether the item is new, updated or deleted.

Usage

The [ait:status](#) element is an empty element with three attributes:

Attribute [type](#) can have two values: "core" to indicate that the item is a full bibliographic record, or "dummy" to indicate that the item is a "dummy item" generated from an unlinked reference.

Attribute [state](#) can have three values: "new" to indicate that the item is delivered for the first time, "update" to indicate that this is an update of a previously delivered item and should replace the original item, and "delete" to indicate that a previously delivered item should be deleted.

Attribute [stage](#) is used to indicate the stage of processing of the document. It can have three values: "S100" (uncorrected proof), "S200" (corrected proof) or "S300" (published). Default value is "S300".

Attribute [priority](#) is an optional element used to influence the merging of items in the Scopus Warehouse and will not be delivered to Scopus.

```
<ait:status type="core" state="new" stage="S200"/>
```

Rendering notes

The data in the [ait:status](#) element is used for processing only and will normally not be rendered.

11. article-number

Description

Element [article-number](#) contains a number assigned to the document by the publisher.

Usage

Article numbers are used in place of page numbers for the electronic and paper version of articles published in some journals.

```
<article-number>053830</article-number>
```

12. author

Description

Element [author](#) contains the name and e-mail address of an author of the document.

Usage

Element [author](#) consists of the following child elements:

Element [ce:initials](#) (optional), contains the initials of the author.

Element [ce:indexed-name](#) contains a sortable variant of the author surname and initials (without special characters).

Either 4 structured name elements:

Element [ce:degrees](#) optional, contains any degrees of the author.

Element [ce:surname](#) contains the surname (familyname) of the author. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials.

Element [ce:given-name](#) (optional), contains the first name (given name) of the author.

Element [ce:suffix](#) (optional), contains an indication of the generation, like II or Sr.

Or one unstructured name element:

Element [nametext](#) (optional), contains an unstructured name.

Element [preferred-name](#) (optional), contains the preferred name of an author, associated with the unique author id in attribute [auid](#)). For more information on author ID (auid): see Chapter IV.

Element [ce:e-address](#) (optional), contains an e-mail address of the author.

Element [author](#) has three attributes: Attribute [auid](#) (optional) contains an id identifying a unique author. Attribute [seq](#) contains a sequence number defining the order of the authors in the document. If the [author](#) element contains the name of an institution instead of a person then attribute [type](#) will be specified with value "inst".

```
<author auid="0006780875" seq="1">
  <initials>M.</initials>
  <ce:indexed-name>Gonzalez M.</ce:indexed-name>
  <ce:surname>Gonza&acute;lez</ce:surname>
  <ce:given-name>Marta</ce:given-name>
  <preferred-name>
    <initials>M.P.</initials>
    <ce:indexed-name>Gonzalez M.P.</ce:indexed-name>
    <ce:degrees>Dr.</ce:degrees>
    <ce:surname>Gonza&acute;lez</ce:surname>
    <ce:given-name>Marta P.</ce:given-name>
  </preferred-name>
  <ce:e-address>m.gonzalez@ucm.es</ce:e-address>
</author>

<author seq="2">
  <initials>K.L.</initials>
  <ce:indexed-name>McClure K.L.</ce:indexed-name>
  <ce:surname>McClure</ce:surname>
</author>

<author seq="3" type="inst">
  <ce:indexed-name>International Bone and Mineral Society</ce:indexed-
name>
  <ce:surname>International Bone and Mineral Society</ce:surname>
</author>
```

Light reading

The authorid attribute ([auid](#)) is generated by the Scopus Warehouse and not available when exporting from OPSBANK.

Attribute [type](#) is an optional attribute because in a large part of the data it is unknown whether the author is a person or an institution.

13. author-group

Description

Element [author-group](#) contains information on the author(s) of the item.

Usage

Element [author-group](#) consists of 0, 1 or more occurrences of the name of an author or collaboration (child elements [author](#) and [collaboration](#), optionally an [et-al](#) element (indicating that not all authors of the document are included), and optionally an [affiliation](#) element with author address information.

The authors are grouped by affiliation. If an author has more than one affiliation, the author's name will be included in all author-group occurrences that contain one of the affiliations for that author. The [seq](#) preserves the original order of the authors.

```
<author-group>
  <author seq="1">
    <initials>F.D.</initials>
    <ce:indexed-name>Menalled</ce:indexed-name>
    <ce:surname>Menalled</ce:surname>
    <ce:given-name>Fabia&acute;n</ce:given-name>
    <ce:e-address>memalled@iastate.edu</ce:e-address>
  </author>
  <author seq="3">
    <initials>D.A.</initials>
    <ce:indexed-name>Landis</ce:indexed-name>
    <ce:surname>Landis</ce:surname>
    <ce:given-name>Douglas A.</ce:given-name>
  </author>
  <affiliation country="usa">
    <organization>204 Ctr. for Integrated Plant Syst.</organization>
    <organization>Michigan State University</organization>
    <citygroup>East Lansing, MI 48824-1311</citygroup>
  </affiliation>
</author-group>
<author-group>
  <author seq="1">
    <initials>F.D.</initials>
    <ce:indexed-name>Menalled</ce:indexed-name>
    <ce:surname>Menalled</ce:surname>
    <ce:given-name>Fabia&acute;n</ce:given-name>
    <ce:e-address>memalled@iastate.edu</ce:e-address>
  </author>
  <author seq="2">
    <initials>J.C.</initials>
    <ce:indexed-name>Lee</ce:indexed-name>
    <ce:surname>Lee</ce:surname>
    <ce:given-name>Jana C.</ce:given-name>
  </author>
  <affiliation country="usa">
    <organization>Department of Agronomy</organization>
    <organization>Iowa State University</organization>
    <citygroup>Ames, IA 50011-1010</citygroup>
  </affiliation>
</author-group>
```

14. author-keyword

Description

Element [author-keyword](#) contains an uncontrolled author keyword.

Usage

Element [author-keyword](#) contains an uncontrolled keyword assigned to the document by the author(s).

```
<author-keywords>
  <author-keyword>headache</author-keyword>
  <author-keyword>high blood pressure</author-keyword>
</author-keywords>
```

15. author-keywords

Description

Element [author-keywords](#) contains a set of uncontrolled keywords assigned to the document by the author(s).

Usage

Element [author-keywords](#) contains one or more [author-keyword](#) elements.

```
<author-keywords>
  <author-keyword>headache</author-keyword>
  <author-keyword>high blood pressure</author-keyword>
</author-keywords>
```

16. bib-text

Description

Element [bib-text](#) contains unstructured bibliographic information.

Usage

For core items this element will only be used if no structured source information is available (i.e. if no other [source](#) child elements are present). Dummy items (generated from unlinked references) may have unstructured source information in addition to the structured source elements.

```
<bib-text>In: Trenchless Construction for Utilities, Proc. First Int.
  Conf., (London, U.K.: Apr. 16-18, 1985), F.E. Bruce (ed.),
  London, U.K., Inst. Public Health Engrs., 1985, Session 1, Paper
  1.3, p.19-29. (NO-DIG 85) (ISBN 0-905188-07-1)
</bib-text>
```

17. bibdataset

Description

Element [bibdataset](#) is the top-level element of the Elsevier Science Abstract and Indexing DTD.

Usage

Top-level element [bibdataset](#) is a wrapper element, used to deliver a set of abstract and indexing items. It contains one or more [item](#) elements.

```
<bibdataset
  xmlns:ait="http://www.elsevier.com/xml/ait/dtd"
  xmlns:ce="http://www.elsevier.com/xml/common/dtd">
  <item>
    ...
  </item>
```

```

<item>
  ...
</item>
</bibdataset>

```

18. bibliography

Description

Element [bibliography](#) contains the bibliography of the document.

Usage

This element can contain one or more [reference](#) elements. Element [bibliography](#) has an attribute [refcount](#), which contains the number of references in the document. If the references are captured for the document (i.e. [bibliography](#) contains at least one [reference](#) element), then the number of [reference](#) elements should be equal to the value of the [refcount](#) attribute.

```

<bibliography refcount="5">
  <reference>...</reference>
  <reference>...</reference>
  <reference>...</reference>
  <reference>...</reference>
  <reference>...</reference>
</bibliography>

```

19. bibrecord

Description

Element [bibrecord](#) is the top-level element of the bibliographic record information.

Usage

The content of [bibrecord](#) consists of three child elements:

[item-info](#) which contains information about the bibliographic record (copyright information, unique item identifiers like PII and DOI, record history and database collections of which the record is part),

[head](#) which contains the actual abstract and indexing information, and

[tail](#), an optional element containing the bibliographic references.

```

<bibrecord>
  <item-info>
    <copyright>Copyright 2002 Elsevier Science B.V., Amsterdam. All
rights reserved.</copyright>
    <itemidlist>...</itemidlist>
    <history>...</history>
    <dbcollection>EMBASE</dbcollection>
    <dbcollection>CABS</dbcollection>

```

```

</item-info>
<head>
  <citation-info>...</citation-info>
  <citation-title>... </citation-title>
  <author-group>...</author-group>
  <correspondence>...</correspondence>
  <abstracts>...</abstracts>
  <source>...</source>
  <enhancement>...</enhancement>
</head>
<tail>
  <bibliography>...</bibliography>
</tail>
</bibrecord>

```

20. cas-registry-number

Description

Element [cas-registry-number](#) contains a CAS Registry Number in an association of a chemical name with one or more corresponding CAS Registry Numbers.

Usage

```
<cas-registry-number>15715-08-9</cas-registry-number>
```

21. ce:degrees

Description

Titles before or after an author name are captured using [ce:degrees](#).

Usage

The element [ce:degrees](#) is used for academic degrees, titles of nobility or dignity, military or police ranks, etc. It may occur before and/or after the name.

```
<ce:degrees>Prof. Dr. Ing.</ce:degrees>
```

22. ce:doi

Description

The element [ce:doi](#) contains the DOI of the item.

Usage

Each item can have a DOI, a digital object identifier, see <http://www.doi.org>. To identify the document, [ce:doi](#) is populated with the DOI of the document. The DOI co-exists beside the PII. An item can have a PII, but not a DOI, for instance if the journal does not have an online appearance.

```
<ce:doi>10.1016/S0955-2219(03)00607-1</ce:doi>
```

23. ce:e-address

Description

A description of [ce:e-address](#) appears here. The purpose of the [ce:e-address](#) element is to capture the electronic address(es) of the authors of the document.

Usage

Each author or collaboration can have zero or more electronic addresses which are tagged using [ce:e-address](#). The attribute type denotes the type of the electronic address. Its two values are "email" and "url". email, the default value, is an email address, and url is a complete URL, beginning with http://.

```
<ce:e-address>g.thooft@phys.uu.nl</ce:e-address>
<ce:e-address type="url">http://www.phys.uu.nl/~thooft</ce:e-address>
```

Character entities are not allowed in the content of [ce:e-address](#) with the exception of & (used for an ampersand within a URL).

24. ce:given-name

Description

The given name of an author or editor (also known as forename, Christian name) is tagged using [ce:given-name](#).

Usage

For non-Western persons, the [ce:given-name](#) is unreliable, and therefore the ce:givename and ce:surname should always be used together.

```
<ce:given-name>Franklin D.</ce:given-name>
```

25. ce:indexed-name

Description

Element [ce:indexed-name](#) contains the concatenated value of [ce:surname](#) and [initials](#), with all special characters removed.

Usage

Element [ce:indexed-name](#) is used for indexing purposes.

```
<ce:indexed-name>Roosevelt F.D.</ce:indexed-name>
```

26. ce:initials

Description

Element [ce:initials](#) contains the initials (as part of the name of a person).

Usage

```
<ce:initials>F.D.</ce:initials>
```

27. ce:para

Description

Paragraphs of text are captured using the element [ce:para](#).

Usage

A paragraph, [ce:para](#), belongs to the lowest-level structuring elements. It contains text and optional [sup](#) and [inf](#) elements.

```
<ce:para>An improved method for the analysis of fecal sterols in sediments was applied to distinguish livestock wastewater, domestic sewage, and industrial wastewater pollution in the receiving waters of Taiwan's rivers. The method included direct saponification, solvent phase extraction, derivatization with N-methyl-N-trimethyltrifluoroacetamide and catalyst, and separation by gas chromatography with an HP-50<sup>+</sup> capillary column, followed by qualitative and quantitative analysis by mass spectrometry. Recoveries of nine sterols by this method were 78-89%. The indicators of biopollution markers ((coprostanone x coprostanol)/epicoprostanol) in different sources of wastewater effluents were calculated as human 0.913&plusmn; 0.251, pig 0.224 &plusmn; 0.135, cow 0.023 &plusmn; 0.001, duck 0.007 &plusmn; 0.001; such indicators are feasible for distinguishing between different animal sources of fecal pollution in water.</ce:para>
```

28. ce:pji

Description

Element [ce:pji](#) contains the PII (Publication Item Identifier used by Elsevier and few other Publishers) of the item.

Usage

```
<ce:pji>S1090023301906884</ce:pji>
```

29. ce:suffix

Description

Element [ce:suffix](#) contains a suffix of the author name, e.g. junior or senior.

Usage

```
<ce:suffix>Sr.</ce:suffix>
```

30. ce:surname

Description

Element [ce:surname](#) contains the surname of a person.

Usage

Together with the element [ce:given-name](#), [ce:surname](#) forms the name of authors or editors.

Especially for non-Western persons, it is not always clear or known what the given name and the surname is. In some regions of the world, it is even not uncommon to have just one name. In such cases, [ce:surname](#) may contain the full name of the person.

If the author or editor (especially of a work in the bibliographic reference list) is not a person but an institution or corporation, the name is also tagged using [ce:surname](#). (This should not be confused with a collaboration, [collaboration](#).)

```
<ce:surname>Ho Chi Minh</ce:surname>
<ce:surname>National Board of Safety</ce:surname>
<ce:surname>Roosevelt</ce:surname>
```

31. ce:text

Description

Element [ce:text](#) is a container element for text.

Usage

```
<ce:text>ALPHA Collaboration</ce:text>
```

32. chemical

Description

Element [chemical](#) contains an association of a chemical name with one or more corresponding CAS Registry Numbers.

Usage

Element [chemical](#) consists of a [chemical-name](#) element containing the name of the chemical substance, and one or more [cas-registry-number](#) elements containing the associated CAS Registry Numbers.

```
<chemicals>
  <chemical>
    <chemical-name>oxidopamine</chemical-name>
    <cas-registry-number>1199-18-4</cas-registry-number>
    <cas-registry-number>28094-15-7</cas-registry-number>
    <cas-registry-number>636-00-0</cas-registry-number>
  </chemical>
</chemicals>
```

33. chemical-name

Description

Element [chemical-name](#) contains the name of a chemical substance in an association of a chemical name with one or more corresponding CAS Registry Numbers.

Usage

```
<chemical-name>iodine</chemical-name>
```

34. chemicalgroup

Description

Element [chemicalgroup](#) contains a set of [chemicals](#) elements.

Usage

The [chemicalgroup](#) element contains one or more occurrences of the child element [chemicals](#), each of them having an attribute describing the source of the [chemical](#) elements included in the list. The possible values of this attribute are "nlm" for National Library of Medicine or "esbd" to indicate Elsevier (Bibliographic Databases division). When no value is given then "esbd" is implied.

```
<chemicalgroup>
  <chemicals>
    <chemical>
      <chemical-name>iodine 123</chemical-name>
      <cas-registry-number>15715-08-9</cas-registry-number>
    </chemical>
  </chemicals>
  <chemicals source="nlm">
    <chemical>
      <chemical-name>oxidopamine</chemical-name>
      <cas-registry-number>1199-18-4</cas-registry-number>
      <cas-registry-number>28094-15-7</cas-registry-number>
      <cas-registry-number>636-00-0</cas-registry-number>
    </chemical>
  </chemicals>
</chemicalgroup>
```

35. chemicals

Description

Element [chemicals](#) contains a set of chemical names with one or more corresponding CAS Registry Numbers.

Usage

The [chemicals](#) element contains one or more occurrences of the child element [chemical](#), each containing a chemical name that occurs in the document ([chemical-name](#)) and one or more associated CAS Registry numbers ([cas-registry-number](#)).

The attribute describes the source of the [chemical](#) elements included in the list. The possible values of this attribute are "nlm" for National Library of Medicine or "esbd" to indicate Elsevier (Bibliographic Databases division). When no value is given then "esbd" is implied.

```
<chemicalgroup>
  <chemicals>
    <chemical>
      <chemical-name>iodine 123</chemical-name>
      <cas-registry-number>15715-08-9</cas-registry-number>
    </chemical>
  </chemicals>
  <chemicals source="nlm">
    <chemical>
      <chemical-name>oxidopamine</chemical-name>
      <cas-registry-number>1199-18-4</cas-registry-number>
      <cas-registry-number>28094-15-7</cas-registry-number>
      <cas-registry-number>636-00-0</cas-registry-number>
    </chemical>
  </chemicals>
</chemicalgroup>
```

36. citation-info

Description

Element [citation-info](#) contains information that describes the full text item. However in the case of dummy items it only contains link information.

Usage

Element [citation-info](#) contains information about the full text item (article, book, report or conference proceeding) that is described in the bibliographic record. The element contains the following child elements, all optional:

Element [citation-type](#) identifies the item type of the original document (see description of element [citation-type](#) for a list of supported citation types).

Element [citation-language](#) contains the language(s) of the original document. If the document is published in parallel translation, up to three languages may be given, in which case the page range shown in data element [volisspag](#) (Volume/issue/page) is for all the pages, including all languages.

Element [abstract-language](#) contains the language(s) of the summaries (up to three languages) printed in the original document.

Element [author-keywords](#) contains uncontrolled keywords assigned to the document by the author(s).

Element [dummy-link](#) contains link information generated from internet searching. This is only generated for so-called dummy items.

Element [figure-information](#) contains information about the content of the source, such as the number of figures, photographs, tables, maps, CD-ROMs, the presence of an index and the number of references.

Element [price](#) contains information about the price of the source at the time of the original publication.

Element [medium](#) describes on which media the document is available, and which medium was used for abstracting and indexing.

Element [document-delivery](#) contains information about where the document can be obtained.

Element [publication-notes](#) contains miscellaneous information about the publication or publisher.

Element [degrees](#) contains information about the degree that was acquired by the publication (for dissertations only).

```
<citation-info>
  <citation-type code="br"/>
  <citation-language xml:lang="fre"/>
  <abstract-language xml:lang="eng"/>
  <abstract-language xml:lang="fre"/>
  <author-keywords>
    <author-keyword>headache</author-keyword>
    <author-keyword>high blood pressure</author-keyword>
  </author-keywords>
  <figure-information>2 figs, 3 photos, 3 tables, 7 refs</figure-
information>
  <price>paperback GBR pound 17.95</price>
  <medium covered="y">print</medium>
  <document-delivery>
    <service>UMI</service>
    <documentid>DA9501557</documentid>
  </document-delivery>
  <publication-notes type="publication">Parts translated from Chinese by
J. P. Shuc.</publication-notes>
  <degrees>Ph.D.</degrees>
</citation-info>
```

37. citation-language

Description

Element [citation-language](#) contains the language of the original document.

Usage

Element [citation-language](#) contains the language(s) of the original document. If the document is published in parallel translation, up to three languages may be given. In that case the page range shown in data element [volisspag](#) (Volume/issue/page) is for all the pages, including all languages.

This is an empty element. The actual citation language is in attribute [xml:lang](#). The language codes used are standard ISO 636 language codes.

XML

```
<citation-language xml:lang="fre"/>
```

Explanation

Usually the language name will be displayed instead of the language code.

38. citation-title

Description

Element [citation-title](#) contains the title of the document.

Usage

Element [citation-title](#) contains an occurrence of the child element [titletext](#) for the original title and/or every translation of the original title of the document.

```
<citation-title>
  <titletext xml:lang="eng" original="n">The genus Tragus (Poaceae,
Zoisieae) in Argentina</titletext>
  <titletext xml:lang="esp" original="y">El geacute;nero Tragus (Poaceae,
Zoisieae) en la Argentina</titletext>
</citation-title>
```

39. citation-type

Description

Element [citation-type](#) identifies the item type of the original document.

Usage

Element [citation-type](#) contains the item type of the original document. This is an empty element. The actual citation-type information is in the value of attribute [code](#). The following values are supported:

- "ab" = Abstract Report
- "ar" = Article
- "bk" = Book
- "br" = Book Review
- "bz" = Business Article
- "ch" = Chapter
- "cp" = Conference Paper
- "cr" = Conference Review
- "di" = Dissertation
- "ed" = Editorial
- "er" = Erratum
- "ip" = Article In Press
- "le" = Letter
- "no" = Note
- "pa" = Patent
- "pr" = Press Release
- "re" = Review
- "rp" = Report
- "sh" = Short Survey
- "wp" = Working Paper

```
<citation-type code="sh"/>
```

Light reading

Most items have exactly one citation-type. But the element is optional (because the citation type is unknown for dummy items), and in the future this element will also be repeating (as support for material from third party bibliographic databases). Item types of third party bibliographic databases are mapped to these citation-types. The original citation-types are also delivered, in the descriptor element.

40. city

Description

Element [city](#) contains the city of the affiliation of an author of the document.

Usage

See [affiliation](#).

```
<affiliation country="gbr">
  <organization>School of Biological Sciences</organization>
  <organization>University of Bristol</organization>
  <address-part>Woodland Road</address-part>
  <city>Bristol</city>
  <postal-code>BS8 1UG</postal-code>
</affiliation>
```

41. city-group

Description

Element [city-group](#) contains information on the city and postal code of the affiliation of an author of the document.

Usage

See [affiliation](#).

```
<affiliation country="gbr">
  <organization>School of Biological Sciences</organization>
  <organization>University of Bristol</organization>
  <address-part>Woodland Road</address-part>
  <city-group>Bristol BS8 1UG</city-group>
</affiliation>
```

42. classification

Description

Element [classification](#) contains a classification from a specific classification scheme, classifying the contents of the document. See Chapter VII for a list of codes.

Usage

Attribute [type](#) of the parent element [classifications](#) specifies the classification scheme.

```
<classifications type="EMCLASS">
  <classification>46.2.6</classification>
  <classification>46.2.3</classification>
</classifications>
<classifications type="ASJC">
  <classification>2918</classification>
  <classification>2920</classification>
</classifications>
```

43. classificationgroup

Description

Element [classificationgroup](#) contains one or more sets of classifications assigned to the item.

Usage

This element contains one or more [classifications](#) elements, each containing a set of classifications from a specific classification scheme, e.g. EMCLASS, GEOCLASS etc. The attribute [type](#) of the child element [classifications](#) specifies the classification scheme.

```

<classificationgroup>
  <classifications type="GEOCLASS">
    <classification>901</classification>
  </classifications>
  <classifications type="CABSCCLASS">
    <classification>91.8.9</classification>
  </classifications>
  <classifications type="EMCLASS">
    <classification>46.2.6</classification>
    <classification>46.2.3</classification>
  </classifications>
  <classifications type="SUBJECT">
    <classification>Engineering and Technology</classification>
  </classifications>
  <classifications type="ASJC">
    <classification>1908</classification>
  </classifications>
</classificationgroup>

```

44. classifications

Description

Element [classifications](#) contains a set of classifications from a specific classification scheme, classifying the contents of the document.

Usage

The [classifications](#) element contains one or more occurrences of the child element [classification](#), each containing a classification from the classification scheme specified by the attribute [type](#).

```

<classifications type="EMCLASS">
  <classification>46.2.6</classification>
  <classification>46.2.3</classification>
</classifications>
<classifications type="ASJC">
  <classification>1800</classification>
  <classification>2003</classification>
</classifications>

```

45. codencode

Description

Element [codencode](#) contains the CODEN code that uniquely identifies the source in which the document was published.

Usage

The CODEN code is a unique code assigned to the serial title defined in element [sourcetitle](#) by Chemical Abstracts Service. The check digit designated by CAS does not form part of this data element.

```
<codencode>CMROC</codencode>
```

Light reading

Although most CODEN codes are alphabetic, numeric forms are not unknown. When the CODEN code itself is unknown, then usually this data element will be absent, but in older items the dummy CODEN code XXXXX may be used.

46. collaboration

Description

The name of a collaboration is captured in the [collaboration](#) element.

Usage

A collaboration denotes a group of authors who present themselves under a common name: the collaboration name. The element [collaboration](#) is used to capture such a collaboration. It contains an optional name under which the collaboration should appear in an index ([ce:indexed-name](#)) and a container for the actual name ([ce:text](#)).

Attribute [seq](#) contains a sequence number defining the order of the authors/collaborations in the document.

```
<collaboration seq="1">
  <ce:indexed-name>ALPHA Collaboration</ce:indexed-name>
  <ce:text>ALPHA Collaboration</ce:text>
</collaboration>
```

The collaboration name can be used in an author group [author-group](#) instead of or in addition to the names of its member authors. A [collaboration](#) element can be the only element in an author group, or its author group can contain the names of other collaborations and the names of individual authors.

```
<author-group>
  <author seq="1">
    <ce:indexed-name>Jansen Th.J.</ce:indexed-name>
    <ce:given-name>Th.J.</ce:given-name>
    <ce:surname>Jansen</ce:surname>
  </ce:author>
  <collaboration seq="2">
    <ce:indexed-name>The ISOLDE Collaboration</ce:indexed-name>
    <ce:text>The ISOLDE Collaboration</ce:text>
  </collaboration>
</author-group>
```

The element [ce:indexed-name](#) is used to alphabetize the name for indexing purposes.

```
<collaboration seq="1">
  <ce:indexed-name>Alpha Collaboration</ce:indexed-name>
  <ce:text>&alpha; Collaboration</ce:text>
</collaboration>
```

A collaboration should not be confused with a non-person author (captured using [ce:surname](#)).

47. confcatnumber

Description

Element [confcatnumber](#) contains the IEEE catalogue number of a conference.

Usage

```
<confcatnumber>97CB36136</confcatnumber>
```

48. confcode

Description

Element [confcode](#) contains a code identifying a conference.

Usage

This numerical code is an internal code, assigned to a conference by Elsevier BD.

```
<confcode>55133</confcode>
```

Light reading

If the proceedings of a conference are published in multiple volumes, each volume may have its own IEEE catalogue number. The generated conference code is used as a unique id that can be used for grouping the proceedings from the same conference.

49. confdate

Description

Element [confdate](#) contains the date of a conference event.

Usage

Element [confdate](#) consists of either a [startdate](#) and optional [enddate](#) element, or an unstructured [date-text](#) element. Both startdate and enddate elements are empty, with the actual value in the attributes [year](#), [month](#) and [day](#).

```
<confdate>
  <startdate year="2002" month="09" day="09"/>
  <enddate year="2002" month="09" day="12"/>
</confdate>
  or
<confdate>
  <date-text>Jun 2001</date-text>
</confdate>
```

50. confeditors

Description

Element [confeditors](#) contains information on the editors of a conference proceeding.

Usage

The element consists of three optional child elements: [editors](#) (containing the names of the editors of the conference proceeding), [editororganization](#) (containing information about the organization of the editors of the conference proceeding) and [editoraddress](#) (containing the address of the editors of the conference proceeding).

```
<confeditors>
  <editors complete="y">
    <editor>
      <initials>A.A.</initials>
      <ce:indexed-name>Maes A.A.</indexed-name>
      <ce:degrees>Dr.</ce:degrees>
      <ce:surname>Maes</ce:surname>
      <ce:given-name>Anton A.</ce:given-name>
      <ce:suffix>II</ce:suffix>
    </editor>
    <editor>
      <initials>P.</initials>
      <ce:indexed-name>Green P.</indexed-name>
      <ce:surname>Green</ce:surname>
    </editor>
  </editors>
  <editororganization></editororganization>
  <editoraddress></editoraddress>
</confeditors>
```

51. conferenceinfo

Description

Element [conferenceinfo](#) contains information about a conference event and/or about the conference proceedings of that event.

Usage

The element consists of two optional child elements: [confevent](#) (containing information about date and location of the conference event) and [confpublication](#) (containing information about the conference proceeding that publishes the conference presentations).

```
<conferenceinfo>
  <confevent>
    <confname>Proceedings of the Conference: Electrical Transmission in a
New Age</confname>
    <conflocation>
      <venue>Omaha, NE, USA</venue>
    </conflocation>
    <confdate>
```

```

    <startdate year="2002" month="09" day="09"/>
    <enddate year="2002" month="09" day="12"/>
  </confdate>
</confevent>
</conferenceinfo>

```

52. confevent

Description

Element [confevent](#) contains information about a conference event.

Usage

Element [confevent](#) contains seven child elements, all optional:

[confname](#) contains the name of the conference.

[confnumber](#) contains a sequencenumber of the conference.

[conflocation](#) contains the location (venue and address) of the conference event.

[confdate](#) contains the start- and enddate of the conference event.

[confcatalogue](#) contains the conference catalogue number.

[confcode](#) contains a conference code, assigned to the conference by Elsevier Bibliographic Databases.

[confsponsors](#) contains information about the sponsors of the conference.

```

<confevent>
  <confname>Proceedings of the Conference: Electrical Transmission in a
New Age</confname>
  <conflocation>
    <venue>Omaha, NE, USA</venue>
  </conflocation>
  <confdate>
    <startdate year="2002" month="09" day="09"/>
    <enddate year="2002" month="09" day="12"/>
  </confdate>
</confevent>

```

53. conflocation

Description

Element [conflocation](#) contains the location of a conference event.

Usage

Element [conflocation](#) consists of four optional child elements:

[venue](#) contains the name of the place where the conference was held, e.g. "Palais des Festivals" or "Merriott Hotel".

[address-part](#) contains the address of the place where the conference was held.

[city-group](#) contains the city where the conference was held.

[postal-code](#) contains the postalcode of the place where the conference was held. This element may be repeating.

Note that the address does not contain a country. The country in which the conference was held is delivered in attribute [country](#) of element [conflocation](#).

```
<conflocation country="nld">
  <venue>Congresgebouw</venue>
  <city-group>Den Haag</city-group>
</conflocation>
```

54. confname

Description

Element [confname](#) contains the name of a conference.

Usage

```
<confname>Proceedings of the Conference: Electrical Transmission in a New
Age
</confname>
<confname>Achema 2003 27<sup>th</sup> International Exhibition-Congress on
Chemical Engineering,
    Environmental Protection and Biotechnology
</confname>
```

55. confnumber

Description

Element [confnumber](#) contains a (free text) sequencenumber of a conference.

Usage

Usually the sequencenumber is part of the conference name (e.g. in "5th International Conference on Nuclear Engineering"), but in some documents the name of the conference is separate from the sequencenumber that indicates which particular conference event is concerned.

```
<confnumber>5th
</confnumber>
```

56. confpublication

Description

Element [confpublication](#) contains information about the conference proceeding that publishes the presentations of a conference.

Usage

Element [confpublication](#) contains four optional child elements:

[confeditors](#) contains information on the editors of the conference proceeding.

[procpartno](#) contains the part number of the conference proceeding.

[procpagerange](#) contains the start- and endpage of the conference proceeding.

[procpagecount](#) contains the number of pages in the conference proceeding.

```
<confpublication>
  <confeditors>
    <editors complete="y">
      <editor>
        <initials>A.A.</initials>
        <ce:indexed-name>Maes A.A.</indexed-name>
        <ce:degrees>Dr.</ce:degrees>
        <ce:surname>Maes</ce:surname>
        <ce:given-name>Anton A.</ce:given-name>
        <ce:suffix>II</ce:suffix>
      </editor>
      <editor>
        <initials>P.</initials>
        <ce:indexed-name>Green P.</indexed-name>
        <ce:surname>Green</ce:surname>
      </editor>
    </editors>
    <editororganization></editororganization>
    <editoraddress></editoraddress>
  </confeditors>
  <procpartno></procpartno>
  <procpagerange></procpagerange>
  <procpagecount></procpagecount>
</confpublication>
```

57. confsponsor

Description

Element [confsponsor](#) contains the name of a sponsor of a conference.

Usage

```
<confsponsor>IEEE Engineering in Medicine and Biology Society</confsponsor>
```

58. confsponsors

Description

Element [confsponsors](#) contains the names of the sponsors of a conference.

Usage

Element [confsponsors](#) contains one or more [confsponsor](#) elements, each containing the name of a sponsor of the conference. Attribute [complete](#) can be "y" or "n", indicating whether the list of sponsors is complete (complete="y") or truncated (complete="n").

```
<confsponsors complete="y">
  <confsponsor>IEEE Engineering in Medicine and Biology
  Society</confsponsor>
  <confsponsor>Chicago Section of IEEE</confsponsor>
  <confsponsor>Pritzker Institute of Medical Engineering</confsponsor>
</confsponsors>
```

59. contributor

Description

Element [contributor](#) contains the name and e-mail address of a contributor to the document (e.g. an author, editor, illustrator etc.).

Usage

Element [contributor](#) consists of 7 child elements:

Element [ce:initials](#) (optional), contains the initials of the contributor.

Element [ce:indexed-name](#) contains a sortable variant of the contributor surname and initials (without special characters).

Element [ce:degrees](#) optional, contains any degrees of the contributor.

Element [ce:surname](#) contains the surname (familyname) of the contributor. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials.

Element [ce:given-name](#) (optional), contains the first name (given name) of the contributor.

Element [ce:suffix](#) (optional), contains an indication of the generation, like II or Sr.

Element [ce:e-address](#) (optional), contains an e-mail address of the contributor.

Element [contributor](#) has four attributes:

Attribute [role](#) describes the role of the contributor. Currently allowed values are :

- auth (author)
- comp (compiler)
- edit (editor)
- illu (illustrator)
- phot (photographer)
- publ (publisher)
- revi (reviewer)
- tran (translator)

Attribute [auid](#) is an optional attribute containing an unique author id. This attribute will be empty until the author clustering has been realised.

Attribute [seq](#) contains the sequencenumber of the contributor in the original document.

If the contributor element contains the name of an institution instead of a person then attribute [type](#) will be specified with value "inst".

```
<contributor role="illu" seq="1">
  <initials>M.</initials>
  <ce:indexed-name>Gonzalez M.</ce:indexed-name>
  <ce:surname>Gonza&acute;lez</ce:surname>
  <ce:given-name>Marta</ce:given-name>
  <ce:e-address>m.gonzalez@ucm.es</ce:e-address>
</contributor>

<contributor role="edit" auid="00284376" seq="2" type="inst">
  <ce:indexed-name>International Bone and Mineral Society</ce:indexed-
name>
  <ce:surname>International Bone and Mineral Society</ce:surname>
</contributor>
```

60. contributor-group

Description

Element [contributor-group](#) contains information on a "contributor" to the publication. A contributor can be an author, editor, illustrator etc.

Usage

Element [contributor-group](#) consists of 0, 1 or more occurrences of the name of a contributor or collaboration (child elements [contributor](#) and [collaboration](#), optionally an [et-al](#) element (indicating that not all contributors of the document are included), and optionally an [affiliation](#) element with contributor address information.

The contributors are grouped by affiliation. If a contributor has more than one affiliation, the contributor's name will be included in all contributor-group occurrences that contain one of the affiliations for that contributor. The attribute [seq](#) preserves the original order of the contributors. The attribute [role](#) describes the role of the contributor.

```

<contributor-group>
  <contributor seq="1" role="auth">
    <initials>F.D.</initials>
    <ce:indexed-name>Menalled</ce:indexed-name>
    <ce:surname>Menalled</ce:surname>
    <ce:given-name>Fabia&acute;n</ce:given-name>
    <ce:e-address>memalled@iastate.edu</ce:e-address>
  </contributor>
  <contributor seq="3">
    <initials>D.A.</initials>
    <ce:indexed-name>Landis</ce:indexed-name>
    <ce:surname>Landis</ce:surname>
    <ce:given-name>Douglas A.</ce:given-name>
  </contributor>
  <affiliation country="usa">
    <organization>204 Ctr. for Integrated Plant Syst.</organization>
    <organization>Michigan State University</organization>
    <citygroup>East Lansing, MI 48824-1311</citygroup>
  </affiliation>
</contributor-group>
<contributor-group>
  <contributor seq="1" role="auth">
    <initials>F.D.</initials>
    <ce:indexed-name>Menalled</ce:indexed-name>
    <ce:surname>Menalled</ce:surname>
    <ce:given-name>Fabia&acute;n</ce:given-name>
    <ce:e-address>memalled@iastate.edu</ce:e-address>
  </contributor>
  <contributor seq="2" role="auth">
    <initials>J.C.</initials>
    <ce:indexed-name>Lee</ce:indexed-name>
    <ce:surname>Lee</ce:surname>
    <ce:given-name>Jana C.</ce:given-name>
  </contributor>
  <affiliation country="usa">
    <organization>Department of Agronomy</organization>
    <organization>Iowa State University</organization>
    <citygroup>Ames, IA 50011-1010</citygroup>
  </affiliation>
</contributor-group>

```

61. copyright

Description

Element [copyright](#) contains the Elsevier Science copyright notice or a Medline copyright notice.

Usage

This data element contains the Elsevier Science copyright notice or a third party copyright notice. For an Elsevier copyright it incorporates the year in which the record is included in a database update.

Element [copyright](#) has an optional attribute [type](#) describing the origin of the copyright statement.

```
<copyright type="Elsevier">Copyright Elsevier Science B.V. 2003 All Rights Reserved</copyright>
```

When records from Elsevier and Medline were merged, two copyright elements are generated.

```
<copyright type="Elsevier">Copyright Elsevier Science B.V. 2003 All Rights Reserved</copyright>
<copyright type="Medline Descriptors">Medline is the source for the MeSH terms of this document</copyright>
```

When it is a Medline only record, one copyright element is generated.

```
<copyright type="Medline unique">Medline is the source for the citation and abstract of this record</copyright>
```

Rendering notes

One or more copyright notices should be used in all displays of retrieved citations in order to identify the source of each record.

Light reading

Records from third parties other than NLM (Medline) will not be merged with Elsevier records. Therefore those third party records will have only one copyright statement, specific for that third party. The [type](#) attribute can have these values:

- elsevier
- medline unique
- medline descriptors
- psycinfo
- econlit

62. correspondence

Description

Element [correspondence](#) contains information about the corresponding author and address of the document.

Usage

Element [correspondence](#) consists of three child elements (all optional):

[person](#) contains the name of the corresponding author.

[affiliation](#) contains the correspondence address.

[ce:e-address](#) contains the e-mail address of the corresponding author.

```

<correspondence>
  <person>
    <initials>A.J.</initials>
    <ce:indexed-name>Dowson</ce:indexed-name>
    <ce:degrees>Dr.</degrees>
    <ce:surname>Dowson</ce:surname>
  </person>
  <affiliation country="gbr">
    <organization>King's Headache Service</organization>
    <organization>King's College Hospital</organization>
    <citygroup>Denmark Hill, London SE5 9RS</citygroup>
  </affiliation>
</correspondence>

```

63. country

Description

Element [country](#) contains a country code. See Chapter VII for a list of codes.

Usage

This is an empty element, with the 3-letter country code (ISO 3166) in attribute [iso-code](#).

```
<country iso-code="usa"/>
```

64. date-completed

Description

Element [date-completed](#) contains the completion date for an item.

Usage

Element [date-completed](#) is an optional element, containing the date that the item was "completed".

The element is an empty element; the date information is in its three attributes [year](#) (a 4-digit year), [month](#) (a 2-digit month) and [day](#) (a 2-digit day). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

Note that an item can only be completed in the context of a specific database collection - as soon as the indexing for a database collection has been added the item is completed for that collection. For products that are not limited to a single database collection, the item is never "completed" and the [date-completed](#) element will not be used.

XML

```
<date-completed year="2001" month="04" day="16"/>
```

Explanation

The completion date can be displayed as desired, in any date format.

65. date-created

Description

Element [date-created](#) contains the creation date of the item.

Usage

Element [date-created](#) contains the date that the item was created (either as core item in the OPSBANK database, or as dummy item generated from an unlinked reference).

The element is an empty element; the date information is in its three attributes [year](#) (a 4-digit year), [month](#) (a 2-digit month) and [day](#) (a 2-digit day). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

XML

```
<date-created year="2002" month="09" day="07"/>
```

Explanation

The creation date can be displayed as desired, in any date format.

66. date-revised

Description

Element [date-revised](#) contains the revision date of the item.

Usage

Element [date-revised](#) is an optional repeating element containing the date(s) on which the item was revised.

The element is an empty element; the date information is in its three attributes [year](#) (a 4-digit year), [month](#) (a 2-digit month) and [day](#) (a 2-digit day). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

XML

```
<date-revised year="2002" month="11" day="06"/>
```

Explanation

The revision date can be displayed as desired, in any date format.

67. date-text

Description

Element [date-text](#) contains unstructured date information.

Usage**XML**

```
<date-text>Summer 1999</date-text>
```

Explanation

Note that this example contains no information that could not also have been delivered as structured date, in the elements "year" "season". But if the date is stored as unstructured date information, no attempt is made to derive the structured data from that.

68. day

Description

Element [day](#) contains a 2-digit day.

Usage

If the day of the month is less than 10 then a leading zero will be added.

```
<day>08</day>
```

69. dbcollection

Description

Element [dbcollection](#) contains the database collection code. See Chapter VII for a list of codes.

Usage

A Database Collection is a collection of items in the OPSBANK database that is maintained for a specific purpose. Every core item belongs to one or more database collections.

```
<dbcollection>EMBASE</dbcollection>
<dbcollection>CPX</dbcollection>
<dbcollection>CABS</dbcollection>
```

Rendering notes

Not displayed, but used for creating specific data subsets.

70. descriptor

Description

Element [descriptor](#) contains a descriptor of a specific type, describing the contents of the document.

Usage

Element [descriptor](#) consists of a [mainterm](#) element containing the principal descriptor, plus optionally one or more [link](#) elements that describe the context of use of the main descriptor. For specialized indexing for customers two additional levels of link terms are available: [sublink](#) and [subsublink](#).

```
<descriptor>
  <mainterm weight="a">orthostatic hypotension</mainterm>
  <link>epidemiology</link>
  <link>drug therapy</link>
</descriptor>

<descriptor>
  <mainterm weight="a" code="25010">Industrial Psychology</mainterm>
</descriptor>
```

71. descriptorgroup

Description

Element [descriptorgroup](#) contains descriptors (subject index terms) describing the contents of the item.

Usage

This element contains one or more [descriptors](#) elements, each containing a set of descriptors of a specific type, e.g. drug indexterms, medical indexterms etc. The descriptors can be controlled by a thesaurus or codelist, or uncontrolled.

```
<descriptorgroup>
  <descriptors controlled="y" type="MED">
    <descriptor><mainterm>accuracy</mainterm></descriptor>
    <descriptor><mainterm>animal experiment</mainterm></descriptor>
    <descriptor><mainterm>article</mainterm></descriptor>
    <descriptor><mainterm>autoradiography</mainterm></descriptor>
    <descriptor><mainterm>central nervous system</mainterm></descriptor>
    <descriptor><mainterm>controlled study</mainterm></descriptor>
    <descriptor><mainterm weight="a">corpus
striatum</mainterm></descriptor>
    <descriptor><mainterm>correlation analysis</mainterm></descriptor>
    <descriptor><mainterm>evaluation</mainterm></descriptor>
  </descriptors>
</descriptorgroup>
```

```

<descriptors controlled="y" type="DRG">
  <descriptor><mainterm candidate="y">2beta carbomethoxy 3beta (4
iodophenyl)tropane i 123</mainterm></descriptor>
  <descriptor><mainterm weight="a">dopamine
transporter</mainterm><link>endogenous compound</link></descriptor>
  <descriptor><mainterm weight="a">iodine 123</mainterm></descriptor>
  <descriptor><mainterm>oxidopamine</mainterm></descriptor>
  <descriptor><mainterm>unclassified drug</mainterm></descriptor>
</descriptors>
<descriptors controlled="y" type="PSM">
  <descriptor><mainterm weight="a" code="01360">Age
Differences</mainterm></descriptor>
  <descriptor><mainterm weight="a" code="02720">Animal
Ethology</mainterm></descriptor>
  <descriptor><mainterm weight="a" code="02730">Animal Exploratory
Behavior</mainterm></descriptor>
</descriptors>
</descriptorgroup>

```

72. descriptors

Description

Element [descriptors](#) contains a set of descriptors of a specific type, describing the contents of the document.

Usage

The [descriptors](#) element contains one or more occurrences of the child element [descriptor](#), each containing a descriptor of the type specified by the attribute [type](#). The descriptors can be controlled by a thesaurus or codelist, or uncontrolled (as specified by the attribute [controlled](#)).

```

<descriptors controlled="y" type="MED">
  <descriptor><mainterm>accuracy</mainterm></descriptor>
  <descriptor><mainterm>article</mainterm></descriptor>
  <descriptor><mainterm>central nervous system</mainterm></descriptor>
  <descriptor><mainterm weight="a">corpus
striatum</mainterm></descriptor>
  <descriptor><mainterm>correlation analysis</mainterm></descriptor>
  <descriptor><mainterm>evaluation</mainterm></descriptor>
</descriptors>

```

73. dummy-link

Description

Element [dummy-link](#) contains link information about dummy items (i.e., citations to articles that are not yet in Scopus). This is a generated element.

Usage

Element [dummy-link](#) consists of two child elements.

Child element [gen-citationtype](#) contains the generated citation type of the dummy item.

Child element [itemlink](#) contains the link information (url?).

Element [dummy-link](#) contains one attribute: [restricted-access](#), an y/n flag indicating whether access is restricted (y) or not (n).

```
<dummy-link restricted-access="y">
  <gen-citationtype code="ot">
    <itemlink></itemlink>
  </dummy-link>
```

74. editor

Description

Element [editor](#) contains the name of an editor.

Usage

The [editor](#) element consists of seven child elements:

Element [ce:initials](#) (optional), contains the initials of the editor.

Element [ce:indexed-name](#) contains a sortable variant of the editor surname and initials (without special characters).

Element [ce:degrees](#) optional, contains any degrees of the editor.

Element [ce:surname](#) contains the surname (familyname) of the editor. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials.

Element [ce:given-name](#) (optional), contains the first name (given name) of the editor.

Element [ce:suffix](#) (optional), contains an indication of the generation, like II or Sr.

Element [nametext](#) (optional), contains an unstructured editor name.

If an editor has a special role (e.g. "chief editor") that can be specified in attribute [role](#). If the [editor](#) element contains the name of an institution instead of a person then attribute [type](#) will be specified with value "inst".

```
<editor role="chief editor">
  <initials>A.A.</initials>
  <ce:indexed-name>Maes A.A.</indexed-name>
  <ce:degrees>Dr.</ce:degrees>
  <ce:surname>Maes</ce:surname>
  <ce:given-name>Anton A.</ce:given-name>
  <ce:suffix>II</ce:suffix>
</editor>

<editor type="inst">
  <ce:indexed-name>Japanese Society for Bone and Mineral Research</ce:indexed-name>
  <ce:surname>Japanese Society for Bone and Mineral Research</ce:surname>
</editor>
```

75. editoraddress

Description

Element [editoraddress](#) contains the address of the editors of a conference proceeding.

Usage

```
<editoraddress>Valencia, Spain</editoraddress>
<editoraddress>445 Hoes Lane, PO Box 1331, New Jersey, 08855 -1331, United
States
</editoraddress>
```

76. editororganization

Description

Element [editororganization](#) contains information about the organization of the editors of a conference proceeding.

Usage

```
<editororganization>IEEE</editororganization>
<editororganization>Instituto de Quimica</editororganization>
```

77. editors

Description

Element [editors](#) contains a set of editor names.

Usage

Element [editors](#) contains one or more [editor](#) elements, each containing the name of an editor.

Attribute [complete](#) can be "y" or "n", indicating whether the list of editors is complete (complete="y") or truncated (complete="n").

```
<editors complete="y">
  <editor>
    <initials>A.A.</initials>
    <ce:indexed-name>Maes A.A.</indexed-name>
    <ce:degrees>Dr.</ce:degrees>
    <ce:surname>Maes</ce:surname>
    <ce:given-name>Anton A.</ce:given-name>
    <ce:suffix>II</ce:suffix>
  </editor>
  <editor>
    <ce:indexed-name>Peter Green</indexed-name>
    <nametext>Peter Green</ce:surname>
  </editor>
</editors>
```

78. enddate

Description

Element [enddate](#) contains the end-date of an event.

Usage

The element is empty, with the actual value in the attributes [year](#) , [month](#) and [day](#). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

```
<enddate year="2000" month="05" day="13"/>
```

79. enhancement

Description

Element [enhancement](#) contains enhancements of an item (indexing, classifications etc.).

Usage

Element [enhancement](#) consists of 7 child elements (all optional):

[patent](#) contains any patent information in the item.

[descriptorgroup](#) contains descriptors (subject index terms) describing the contents of the item. This element contains one or more sets of descriptors of a specific type, e.g. drug indexterms, medical indexterms etc.

[classificationgroup](#) contains one or more sets of classification codes assigned to the item.

[manufacturergroup](#) contains manufacturers mentioned in the document. This element contains one or more sets of manufacturers of a specific type, e.g. drug manufacturers, device manufacturers etc.

[tradenamgroup](#) contains tradenames mentioned in the document. This element contains one or more sets of tradenames of a specific type, e.g. drug tradenames, device tradenames etc.

[sequencebanks](#) contains references to nucleotide and amino acid sequences defined or mentioned in the document. The sequence is defined by the name of a sequencebank plus the accession number of that sequence in that sequencebank.

[chemicals](#) contains a chemical name with one or more corresponding CAS Registry Numbers.

```
<enhancement>
  <descriptorgroup>
    <descriptors controlled="y" type="MED">
      <descriptor><mainterm>accuracy</mainterm></descriptor>
      <descriptor><mainterm>animal experiment</mainterm></descriptor>
```

```

    <descriptor><mainterm>central nervous
system</mainterm></descriptor>
    <descriptor><mainterm>controlled study</mainterm></descriptor>
    <descriptor><mainterm weight="a">corpus
striatum</mainterm></descriptor>
    <descriptor><mainterm>correlation
analysis</mainterm></descriptor>
    <descriptor><mainterm>evaluation</mainterm></descriptor>
  </descriptors>
  <descriptors controlled="y" type="DRG">
    <descriptor><mainterm candidate="y">2beta carbomethoxy 3beta (4
iodophenyl)tropane i 123</mainterm></descriptor>
    <descriptor><mainterm weight="a">dopamine
transporter</mainterm><link>endogenous compound</link></descriptor>
    <descriptor><mainterm weight="a">iodine
123</mainterm></descriptor>
    <descriptor><mainterm>oxidopamine</mainterm></descriptor>
    <descriptor><mainterm>unclassified drug</mainterm></descriptor>
  </descriptors>
</descriptorgroup>
<classificationgroup>
  <classifications type="EMCLASS">
    <classification>23.3.1</classification>
    <classification>8.2</classification>
  </classifications>
</classificationgroup>
<chemicals>
  <chemical>
    <chemical-name>iodine 123</chemical-name>
    <cas-registry-number>15715-08-9</cas-registry-number>
  </chemical>
</chemicals>
</enhancement>

```

80. et-al

Description

Element [et-al](#) is an empty element, used to indicate that a list of names is truncated.

Usage

```
<et-al/>
```

81. head

Description

Element [head](#) contains the actual abstract and indexing information of a bibliographic record.

Usage

Element [head](#) consists of the following (optional) child elements:

Element [citation-info](#) contains information about the full text article (or book, report or conference proceeding) that is described in the bibliographic record, like item and abstract languages, figure information, author keywords etc.

Element [related-item](#) contains information about a related document.

[citation-title](#) is an optional repeating element containing the title of the item. This element can contain the original (English or non-English) item title, and/or a translation of the original title.

Element [author-group](#) contains information on the author(s) of the item. The authors are grouped by affiliation. If an author has more than one affiliation, the author's name will be included in all author-group occurrences that contain one of the affiliations for that author.

Element [correspondence](#) contains the corresponding author and address.

Element [abstracts](#) contains one or more abstracts of the full text. This can be the original English author abstract, but also a translated abstract or an abstract created for a specific database collection.

Element [source](#) contains information on the source of the item (like source title, issn, isbn, volume, issue, page, publication year etc.).

Finally, the optional element [enhancement](#) contains enhancements of the item (indexing, classifications etc.).

```
<head>
  <citation-info>...</citation-info>
  <related-item>...</related-item>
  <citation-title>...</citation-title>
  <author-group>...</author-group>
  <correspondence>...</correspondence>
  <abstracts>...</abstracts>
  <source>...</source>
  <enhancement>...</enhancement>
</head>
```

82. history

Description

The [history](#) contains information about the dates an item was created, completed or revised.

Usage

Element [history](#) contains three child elements:

[date-created](#), containing the date that the item was created (either as core item in the OPSBANK database, or as dummy item generated from an unlinked reference).

[date-completed](#) (optional), containing the date that the item was completed.

[date-revised](#) (optional and may occur more than once), containing the date(s) on which the item was revised.

XML

```
<history>
  <date-created year="2002" month="09" day="07"/>
  <date-revised year="2002" month="09" day="23"/>
  <date-revised year="2002" month="11" day="16"/>
</history>
```

Explanation

Some or all history dates can be displayed as desired, in any date format.

Light reading

Child element [date-completed](#) is not always relevant. An item can only be "completed" in the context of a specific database collection - as soon as the indexing for that database collection has been added the item is completed for that collection. For products that are not limited to a single database collection, the item is never "completed" and the [date-completed](#) element will always be empty.

83. inf**Description**

Element [inf](#) contains inferior text.

Usage

Used in title and abstract elements where parts of the text can be superior or inferior.

```
<inf>2</inf>
```

84. isbn**Description**

Element [isbn](#) contains the ISBN of a monograph.

Usage

The ISBN is the International Standard Book Number for monographs. The data element can be present for all source types except journals. A document can have more than one ISBN, e.g. for hardcover and paperback, but also for a certain level, e.g. a set of books or a volume in a series. The type is specified in (optional) attribute [type](#). The level is specified in the (optional) attribute [level](#). A third attribute is used to indicate the length of the ISBN: [length](#).

```
<isbn length="10">0784406367</isbn>
  or
<isbn type="paperback" length="10">0-7450-1181-0</isbn>
  or
<isbn type="hardcover" length="10" level="volume">1234567890</isbn>
```

Light reading

Possible values for the type attribute include "hardcover", "paperback" and "cloth".

Allowed values for the level attribute are "set" and "volume".

Allowed values for the length attribute are "10" and "13". The original length of the ISBN was 10, but because of the limitations of the 10 character ISBN, the format changed to a 13-character wide value in 2007.

85. issn

Description

The ISSN of a serial publication is captured using [issn](#).

Usage

A document can have more than one ISSN, e.g. for print and electronic. The type is specified in (optional) attribute [type](#).

```
<issn>01678396</issn> or <issn type="print">00131946</issn>
```

Rendering notes

Usually the ISSN is rendered with a dash in the middle: 0167-8396.

86. issuetitle

Description

Sometimes journal issues have their own title. The element [issuetitle](#) contains that issue title of the document.

Usage

Element [issuetitle](#) contains the issue title of the journal, book, conference proceeding or report ("source") in which the document was published.

```
<issuetitle>Roads and Airfields in Cold Regions</issuetitle>
```

87. item

Description

Element [item](#) is a wrapper element that contains a bibliographic record and the processing information for that record.

Usage

The item element contains two child elements: element [bibrecord](#) contains the bibliographic record information, and element [ait:process-info](#) contains the information for processing that record.

```
<item>
  <ait:process-info>
    <date-delivered year="2002" month="09" day="12"/>
    <date-sort year="2001" month="12" day="01"/>
    <status type="core" state="new"/>
  </ait:process-info>
  <bibrecord>
    <item-info>...</item-info>
    <head>...</head>
    <tail>...</tail>
  </bibrecord>
</item>
```

88. item-info

Description

Element [item-info](#) contains the non-bibliographic part of the information on a bibliographic record, like copyright information, unique item identifiers, record history and database collections to which the record belongs.

Usage

Element [item-info](#) consists of the following child elements: one or two [copyright](#) (containing the Elsevier copyright notice and/or a third party copyright statement), [itemidlist](#) (containing the unique identifiers for the item), [history](#) (containing information about the dates an item was created and optionally also about dates of completion or revision) and [dbcollection](#) (optional, containing the database collection codes of the database collection(s) to which the item belongs).

```
<item-info>
  <copyright type="Elsevier">Copyright 2003 Elsevier Science B.V.,
Amsterdam. All rights reserved.</copyright>
  <itemidlist>
    <itemid idtype="SCP">77776666554</itemid>
    <itemid idtype="PUI">25371863</itemid>
    <itemid idtype="GEO">1063437</itemid>
  </itemidlist>
  <history>
    <date-created year="1995" month="01" day="01"/>
  </history>
  <dbcollection>GEO</dbcollection>
</item-info>
```

89. itemid

Description

Element [itemid](#) contains a unique identifier of a bibliographic record.

Usage

The [itemid](#) element contains a unique identifier of a bibliographic record. The [type](#) attribute shows the type of the id, e.g. "EMBASE" if the [itemid](#) element contains the production number that uniquely identifies the bibliographic record within the database collection EMBASE, or "PUI" if the [itemid](#) element contains the "pubitemid" (the id that uniquely identifies a core item in the OPSBANK database), or "SCP" if the [itemid](#) element contains a "Scopus id" (the id that uniquely identifies any core or dummy item).

```
<itemid type="PUI">3502817362</itemid>
<itemid type="SCP">128473658765</itemid>
<itemid type="SGR">128473658765</itemid>
<itemid type="EMBASE">2002123456</itemid>
```

Attribute [type](#) can have the following values:

PUI = publishable item id, that uniquely identifies a core item in the Elsevier delivery database.

SCP = Scopus id, that uniquely identifies any core or dummy item. It is a numerical value of unsigned integer which can be in the range 1..4294967295. That should give enough space for growth in the coming 10 to 15 years. And by that time it can probably be extended easily. There is a preference to use numerical format for this field for performance and ranging needs. The number will be formatted with leading zeroes.

SGR = Scopus group id. Same as Scopus id, but a little less unique: if a record from a third party is loaded and it has also been loaded for an Elsevier record, then the two records will be delivered separately. Each record will have it's own unique "SCP" id, but the two records will have the same "SGR" id (indicating that both records are in fact identical).

DBCOL = id that uniquely identifies a core item within database collection DBCOL (where DBCOL is a valid code for an Elsevier BD database collection).

90. itemidlist

Description

The element [itemidlist](#) contains the known identifiers for this citation.

Usage

An [itemidlist](#) may contain a [ce:doi](#), a [ce:pii](#), and a set of other identifiers in [itemid](#) elements.

For every database collection to which this item belongs, the [itemidlist](#) element will contain the production number (an [itemid](#) element with attribute [idtype](#) = database collection code).

XML

```
<itemidlist>
  <ce:doi>10.1016/S0248-4900(01)01178-9</ce:doi>
  <ce:pii>S0248490001011789</ce:pii>
  <itemid idtype="EMBASE">2002147884</itemid>
  <itemid idtype="CABS">2002094669</itemid>
</itemidlist>
```

Explanation

Each identifier is listed once in this list.

Rendering notes

The identifiers are rendered in the order listed, each on a new line, preceded by the type name (for the elements [ce:pii](#) and [ce:doi](#) derived from the element name, for [itemid](#) elements from the value of the attribute [idtype](#)).

91. itemlink

Description

Element [itemlink](#) contains link information (url) for the dummy item. This is a generated element.

Usage

Element [itemlink](#) contains link information about the dummy item. This is added by Parity software whenever a link is found.

```
<itemlink>url</itemlink>
```

92. link

Description

Element [link](#) describes the context of use of a main descriptor assigned to the document.

Usage

```
<descriptor>
  <mainterm weight="a">orthostatic hypotension</mainterm>
  <link>epidemiology</link>
  <link>drug therapy</link>
</descriptor>
```

93. mainterm

Description

Element [mainterm](#) contains a principal descriptor assigned to the document.

Usage

Four attributes give additional information about the descriptor:

Attribute [weight](#) indicates whether the descriptor is a major term (weight="a") or a minor term (weight="b").

Attribute [candidate](#) is only used for controlled descriptors, and shows whether the term is an active term in the thesaurus or a candidate term (candidate="y").

Attribute [sortpos](#) indicates that the term should be sorted in a different position. E.g. if sortpos="2" (like in the example) then the first two characters of the term should be ignored for sorting purposes (which means that the term in the example should sort under "deoxy..." instead of under "2 deoxy...").

Attribute [code](#) contains a code associated with the term.

```
<mainterm weight="a" candidate="n" sortpos="2">
  2 deoxy 3 o (9 phenylnonanoyl) 2 [3 (9
phenylnonanoyloxy)tetradecanoylamino]glucopyranose
  4 sulfate
</mainterm>
<mainterm weight="a" code="10050">
  Cognitive Ability
</mainterm>
```

Light reading

Some descriptor types (API template and controlled linkterms) use different weighting codes: m/n/p instead of a/b.

94. month

Description

Element [month](#) contains a 2-digit month.

Usage

If the month is less than 10 a leading zero will be added.

```
<month>04</month>
```

95. nametext

Description

Element [nametext](#) contains an unstructured name.

Usage

If the name of an author or other contributor to the publication is only available as unstructured free text it will be delivered in the [nametext](#) element.

```
<nametext>Kathleen W. Faulkner</nametext>
```

96. organization

Description

Element [organization](#) contains information on the organization as part of the affiliation of an author of the document.

Usage

See [affiliation](#).

```
<organization>204 Ctr. for Integrated Plant Syst.</organization>
<organization>Michigan State University</organization>
```

97. pagecount

Description

Element [pagecount](#) contains the number of pages in the document.

Usage

Usually for items of type Book the number of pages is given instead of the start- and endpage.

Element [pagecount](#) has an optional attribute [type](#) with possible values "arabic" or "roman" (default = "arabic").

```
<pagecount>245 p.</pagecount>
<pagecount type="roman">25 p.</pagecount>
```

Light reading

The type attribute is used in third party data where the pagecount is given separately for the pages numbered in roman and the pages numbered in arabic.

98. pagerange

Description

Element [pagerange](#) contains the start- and endpage of the document.

Usage

This element is only used if the start- and endpage are numeric. The element is empty; startpage and (optionally) endpage are in the attributes [first](#) and [last](#).

```
<pagerange first="123" last="128"/>
```

Light reading

A page range in Roman numbers (e.g. "iii-vi") is not seen as numeric, and will therefore not be delivered as [pagerange](#) but as the unstructured [pages](#) element.

99. pages

Description

Element [pages](#) contains unstructured page information.

Usage

This element is only used if the page information is more than a simple start- and endpage. Also if the start- and endpage are not completely numeric, the [pages](#) element will be used instead of the [pagerange](#) element.

```
<pages>R12-R24</pages>
```

100. part

Description

Element [part](#) contains part information of the source in which the document was published.

Usage

Mostly used in sources of type book or conference procedure.

```
<part>Part 2</part>
```

101. person

Description

Element [person](#) contains information about the corresponding author of the document.

Usage

See [correspondence](#).

```
<person>
  <initials>A.J.</initials>
  <ce:indexed-name>Dowson</ce:indexed-name>
  <ce:degrees>Dr.</degrees>
  <ce:surname>Dowson</ce:surname>
</person>
```

102. postal-code

Description

Element [postal-code](#) contains the postal code of the affiliation of an author of the document.

Usage

See [affiliation](#). Element [postal-code](#) has an optional attribute [type](#) describing the type of postal code. Values of the attribute can be "pre" (for a postcode that must be displayed before the city), "post" (for a postcode that must be displayed after the city) or "zip" (for a ZIP code).

```
<affiliation country="gbr">
  <organization>School of Biological Sciences</organization>
  <organization>University of Bristol</organization>
  <address-part>Woodland Road</address-part>
  <city>Bristol</city>
  <postal-code type="post">BS8 1UG</postal-code>
</affiliation>
```

103. preferred-name

Description

Element [preferred-name](#) contains the preferred name of an author.

Usage

Element [preferred-name](#) contains the preferred name of an author, associated with the unique author id in attribute [auid](#). It consists of 6 child elements:

Element [ce:initials](#) (optional), contains the initials of the author.

Element [ce:indexed-name](#) contains a sortable variant of the author surname and initials (without special characters).

Element [ce:degrees](#) optional, contains any degrees of the author.

Element [ce:surname](#) contains the surname (familyname) of the author. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials.

Element [ce:given-name](#) (optional), contains the first name (given name) of the author.

Element [ce:suffix](#) (optional), contains an indication of the generation, like II or Sr.

```
<preferred-name>
  <initials>M.P.</initials>
  <ce:indexed-name>Gonzalez M.P.</ce:indexed-name>
  <ce:degrees>Dr.</ce:degrees>
  <ce:surname>Gonzalez</ce:surname>
  <ce:given-name>Marta P.</ce:given-name>
</preferred-name>
```

104. preferred-sourcetitle

Description

Element [preferred-sourcetitle](#) contains the preferred full title of the source of the document.

Usage

Element [preferred-sourcetitle](#) contains the preferred full title of the journal, book, conference proceeding, report etc. ("source") in which the document was published. This is a generated element.

```
<preferred-sourcetitle>Trends in Analytical Chemistry</preferred-sourcetitle>
```

105. procpagecount

Description

Element [procpagecount](#) contains the number of pages in a conference proceeding.

Usage

```
<procpagecount>531</procpagecount>
```

106. procpagerange

Description

Element [procpagerange](#) contains the start- and endpage of a conference proceeding.

Usage

```
<procpagerange>21-602</procpagerange>
```

107. `procpartno`

Description

Element [procpartno](#) contains the part number of the conference proceeding.

Usage

```
<procpartno>1 of 3</procpartno>
```

108. `publicationdate`

Description

Element [publicationdate](#) contains the date of publication of the document, as reported by the document itself.

Usage

The date is either structured (containing [year](#), [month](#), [day](#) and/or [season](#)) or unstructured ([date-text](#)). It can be followed by unstructured information about previous publications (in the optional element [previous](#) and/or the optional element [reprint](#)).

```
<publicationdate>
  <year>2001</year>
  <month>03</month>
  <previous>[1997, 1999]</previous>
</publicationdate>
or
<publicationdate>
  <date-text>Spring 2002</date-text>
</publicationdate>
or
<publicationdate>
  <year>1999</year>
  <reprint>2001</reprint>
</publicationdate>
```

109. `publicationyear`

Description

Element [publicationyear](#) contains the year of publication of the document, as reported by the document itself.

Usage

This is an empty element. The actual value is in the attributes [first](#) and [last](#). The first attribute is required, the last attribute - if present - will always have a value greater than the value of the first attribute.

```
<publicationyear first="1994"/>
```

110. publisher

Description

Element [publisher](#) contains the name and optionally the address of the publisher of the source.

Usage

This element is used mostly for books, but can be present in all other source types as well. It can consist of three child elements:

Element [publishername](#) contains the name of the publisher.

The (optional) publisher address can be either unstructured (element [publisheraddress](#)) or structured (element [affiliation](#)).

And element [ce:e-address](#) (optional) contains the URL of the publisher.

```
<publisher>
  <publishername>Inst of Metals & Materials Australasia</publishername>
  <publisheraddress>Parkville, Australia</publisheraddress>
  <ce:e-address>http://www.wkap.nl/kapis/</ce:e-address>
</publisher>
```

111. publisheraddress

Description

Element [publishername](#) contains the address of the publisher of the source.

Usage

```
<publisher>
  <publishername>Inst of Metals & Materials Australasia</publishername>
  <publisheraddress>Parkville, Australia</publisheraddress>
</publisher>
```

112. publishercopyright

Description

Element [publishercopyright](#) contains a copyright statement.

Usage

The copyright statement of the publisher of the document is delivered in element [publishercopyright](#).

```
<publishercopyright>&copy; 2003 Elsevier Ltd. All rights reserved.
</publishercopyright>
```

The copyright statement is also often delivered as part of the last [ce:para](#) element within the [abstract](#) element.

113. publishername

Description

Element [publishername](#) contains the name of the publisher of the source.

Usage

```
<publisher>
  <publishername>Inst of Metals & Materials Australasia</publishername>
  <publisheraddress>Parkville, Australia</publisheraddress>
</publisher>
```

114. ref-authors

Description

Element [ref-authors](#) contains the authors of a referenced document.

Usage

Element [ref-authors](#) consists of 0, 1 or more occurrences of the name of an author or collaboration (child elements [author](#) and [collaboration](#), and optionally an [et-al](#) element (indicating that not all authors of the referenced document are included).

```
<ref-authors>
  <author seq="1">
    <ce:initials>T.</ce:initials>
    <ce:indexed-name>Asanuma T.</ce:indexed-name>
    <ce:surname>Asanuma</ce:surname>
  </author>
  <et-al/>
</ref-authors>
```

115. ref-fulltext

Description

Element [ref-fulltext](#) contains the full text of a reference, as it appeared in the original document.

Usage

```
<ref-fulltext>Albrecht, D.W.; Mansfield, E.L.; Milne, A.E.; Algorithms for
    Special Integrals, J. Phys. A 1996, 29 (5), 973-991.
</ref-fulltext>
```

116. ref-info

Description

Element [ref-info](#) contains the structured information of a reference in the document.

Usage

The [ref-info](#) element consists of 8 child elements, all optional:

[ref-title](#) contains the title of the referenced document.

[refd-itemidlist](#) contains the known identifiers for the referenced item.

[ref-authors](#) contains the authors of the referenced document.

[ref-sourcetitle](#) contains the (full or abbreviated) sourcetitle of the referenced document.

[ref-publicationyear](#) contains the year of publication of the referenced document.

[ref-volisspag](#) contains information on the source volume and issue in which the referenced document was published, and also the pages on which that document appears.

[ref-website](#) contains the URL of a website where the referenced document is published.

[ref-text](#) contains any remaining unstructured information in the reference.

```
<ref-info>
  <ref-title>
    <titletext xml:lang="eng">Visualization of the topographical
    structure of the anesthetized mouse brain by MR microimaging</titletext>
  </ref-title>
  <refd-itemidlist>
    <itemid idtype="SGR">99095604</itemid>
  </refd-itemidlist>
```

```

<ref-authors>
  <author seq="1">
    <ce:initials>T.</ce:initials>
    <ce:indexed-name>Asanuma T.</ce:indexed-name>
    <ce:surname>Asanuma</ce:surname>
  </author>
  <et-al/>
</ref-authors>
<ref-sourcetitle>J. Vet. Med. Sci.</ref-sourcetitle>
<ref-publicationyear first="1998"/>
<ref-volisspag>
  <voliss volume="60"/>
  <pagerange first="1311" last="1314"/>
</ref-volisspag>
</ref-info>

  or

<ref-info>
  <ref-title>
    <titletext xml:lang="eng">Automated multi-modality image registration
based on information theory</titletext>
  </ref-title>
  <refid-itemidlist>
    <itemid idtype="SGR">d0e1361</itemid>
  </refid-itemidlist>
  <ref-authors>
    <author seq="1">
      <ce:initials>A.</ce:initials>
      <ce:indexed-name>Collignon A.</ce:indexed-name>
      <ce:surname>Collignon</ce:surname>
    </author>
    <author seq="2">
      <ce:initials>F.</ce:initials>
      <ce:indexed-name>Maes F.</ce:indexed-name>
      <ce:surname>Maes</ce:surname>
    </author>
  </ref-authors>
  <ref-sourcetitle>The Proceedings of Information Processing in Medical
Imaging</ref-sourcetitle>
  <ref-publicationyear first="1995"/>
  <ref-text>(Y. Bizais, Ed.). Kluwer Academic, New York</ref-text>
</ref-info>

```

117. ref-publicationyear

Description

Element [ref-publicationyear](#) contains the year of publication of a referenced document.

Usage

This is an empty element. The actual value is in the attributes [first](#) and [last](#). The first attribute is required.

```
<ref-publicationyear first="2000"/>
```

118. ref-sourcetitle

Description

Element [ref-sourcetitle](#) contains the (full or abbreviated) sourcetitle of a referenced document.

Usage

```
<ref-sourcetitle>NeuroImage</ref-sourcetitle>
```

119. ref-text

Description

Element [ref-text](#) contains any information in the reference that can't be placed in the structured ref-info elements.

Usage

```
<ref-text>doi:10.1006/nimg.2000.0600</ref-text>
```

120. ref-title

Description

Element [ref-title](#) contains the title of a referenced document.

Usage

Element [ref-title](#) consists of one or more [ref-titlertext](#) elements.

```
<ref-title>
  <ref-titlertext>Small animal imaging with pinhole single-photon emission
  computed tomography</ref-titlertext>
</ref-title>
```

121. ref-titlertext

Description

Element [ref-titlertext](#) contains the original or translated title a reference.

Usage

Element [ref-titlertext](#) has no attributes.

```
<ref-titlertext>The genus Tragus (Poaceae, Zoisieae) in Argentina
</titlertext>
<ref-titlertext>El geacute;nero Tragus (Poaceae, Zoisieae) en la Argentina
</ref-titlertext>
```

122. ref-volisspag

Description

Element [ref-volisspag](#) contains information on the source volume and issue in which the referenced document was published, and also the pages on which that document appears.

The page information is contained in one of three possible elements: element [pagerange](#) (containing a page range, with first and last page), or element [pages](#) (page information in free text format), and/or element [pagecount](#) (containing the number of pages). Element [pagecount](#) can be repeating (some sources give the number of roman pages and the number of arabic pages separately).

Usage

```
<ref-volisspag>
  <voliss volume="12"/>
  <pagerange first="37" last="46"/>
</ref-volisspag>
```

123. ref-website

Description

Element [ref-website](#) contains the name and/or URL of a website where the referenced document is published.

Usage

Element [ref-website](#) contains the URL of a website where the document is published, optionally preceded by the name of the website.

```
<ref-website>
  <websitename>National Library of Medicine</websitename>
  <ce:e-address type="url">http://www.igml.nlm.nih.gov</ce:e-address>
</ref-website>
```

124. reference

Description

Element [reference](#) contains a bibliographic reference of the document.

Usage

Element [reference](#) consists of two child elements: element [ref-info](#) (containing the structured reference information), [ref-fulltext](#) (optional, containing the full reference text).

It has an attribute [id](#) which uniquely identifies a [reference](#).

```
<reference>
  <ref-info>
    <refd-itemidlist>
      <itemid idtype="SGR">32886537</itemid>
    </refd-itemidlist>
    <ref-authors>
      <author seq="1">
        <ce:initials>S.B.</ce:initials>
        <ce:indexed-name>Blunt S.B.</ce:indexed-name>
        <ce:surname>Blunt</ce:surname>
      </author>
      <author seq="2">
        <ce:initials>P.</ce:initials>
        <ce:indexed-name>Jenner P.</ce:indexed-name>
        <ce:surname>Jenner</ce:surname>
      </author>
      <author seq="3">
        <ce:initials>C.D.</ce:initials>
        <ce:indexed-name>Marsden C.D.</ce:indexed-name>
        <ce:surname>Marsden</ce:surname>
      </author>
    </ref-authors>
    <ref-sourcetitle>Brain Res.</ref-sourcetitle>
    <ref-publicationyear first="1992"/>
    <ref-volisspag>
      <voliss volume="582"/>
      <pagerange first="299" last="311"/>
    </ref-volisspag>
  </ref-info>
  <ref-fulltext>Blunt S.B., Jenner, P., and Marsden C.D., Brain Res. 582 (1992)
  299-311</ref-fulltext>
</reference>
```

As mentioned above, SGR = Scopus group id and refers to the id used in the record the Reference points to.

125. related-item

Description

Element [related-item](#) contains information on a publication that is related to the document.

Parents

[head](#)

Children

[ce:doi](#), [ce:pui](#), [citation-info](#), [citation-title](#), [contributor-group](#), [source](#)

Attributes

[type](#)

Usage

Element [related-item](#) contains information on a publication that is related to the document. It can contain information of a parent book or book series, or of an erratum, retraction etc.

The element contains six optional child elements:

Element [ce:pii](#) contains the pii of the related document.

Element [ce:doi](#) contains the doi of the related document.

Element [citation-info](#) contains information about the full text article (or book, report or conference proceeding) that is described in the bibliographic record, like item and abstract languages, figure information, author keywords etc.

Element [citation-title](#) contains the title of the related document.

Element [contributor-group](#) (which can occur more than once) contains contains information on a "contributor" to the publication. A contributor can be an author, editor, illustrator etc.

Element [source](#) contains information on the source of the item (like source title, issn, isbn, volume, issue, page, publication year etc.).

```
<related-item type="parent book">
  <citation-info>
    <publication-notes type="availability">Copies Available from
UMI</publication-notes>
  </citation-info>
  <contributor-group>
    <contributor role="edit" seq="1">
      <ce:initials>R.</ce:initials>
      <ce:indexed-name>R. Clarke</ce:indexed-name>
      <ce:surname>Clarke</ce:surname>
    </contributor>
    <contributor role="edit" seq="2">
      <ce:initials>P.</ce:initials>
      <ce:indexed-name>P. Fransen</ce:indexed-name>
      <ce:surname>Fransen</ce:surname>
    </contributor>
  </contributor-group>
  <source>
    <sourcetitle>ADVANCES IN EXPERIMENTAL MEDICINE AND
BIOLOGY</sourcetitle>
    <volisspag>
      <pages>211</pages>
    </volisspag>
  </source>
</related-item>
```

126. reportinfo

Description

Element [reportinfo](#) contains report information.

Usage

This element is only available for items that have source type R (Report). Currently it consists of a single child [reportnumber](#), containing a report number.

```
<reportinfo>
  <reportnumber>WF1765-yyy</reportnumber>
</reportinfo>
```

127. reportnumber

Description

Element [reportnumber](#) contains a report number.

Usage

This element is only available for items that have source type R (Report).

```
<reportnumber>WF1765-yyy</reportnumber>
```

128. source

Description

Element [source](#) contains information about the source of the document.

Usage

Element [source](#) contains information about the source of the document. Attribute [type](#) shows the source type: journal (type="j"), book (type="b"), conference proceeding (type="p"), report (type="r"), major reference work (type="m"), book series (type="k") or trade journal (type="d"). Attribute [country](#) gives the three-letter code of the country of publication of the source. Attribute [srcid](#) (optional) is an id uniquely identifying a source.

The [source](#) element contains sixteen child elements, all optional:

Element [sourcetitle](#) contains the full title of the journal, book, conference proceeding or report ("source") in which the document was published.

Element [preferred-sourcetitle](#) contains the preferred title of the journal, book, conference proceeding or report ("source") in which the document was published. This is a generated element.

Element [sourcetitle-abbrev](#) contains the abbreviated title of the source in which the document was published.

Element [issuetitle](#) contains the title of the issue in which the document was published.

Element [issn](#) contains the ISSN number of the source. Note that all source types can have an ISSN number, even books, and that the ISSN can occur more than once.

Element [isbn](#) contains the ISBN number of the source. All source types except journals can have one or more ISBN's.

Element [codencode](#) contains the CODEN code that uniquely identifies the source in which the document was published.

[edition](#) contains edition information of the source in which the document was published.

[part](#) contains part information of the source in which the document was published.

Element [volisspag](#) contains information on the source volume and issue in which the document was published, and also the pages on which the document appears.

[article-number](#) contains the article-number assigned to the document by the publisher.

Element [publicationyear](#) contains the year of publication of the document, as reported by the document itself. This is an empty element; the actual value is in the attributes [first](#) and [last](#). The first attribute is required, the last attribute - if present - will always have a value greater than the value of the first attribute.

Element [publicationdate](#) contains the date of publication of the document, as reported by the document itself. The date is either structured (containing [year](#), [month](#), [day](#) and/or [season](#)) or unstructured ([date-text](#)).

Element [editors](#) contains the names of the editors of multi-authored books, conference proceedings or reports.

Element [publisher](#) contains the name and optionally the address of the publisher of the source. This element is used mostly for books, but can be present in all other source types as well.

Element [additional-srcinfo](#) contains additional information on the source like conference information, report number or secondary source information.

Element [bib-text](#) contains unstructured bibliographic information. For core items this element will only be used if no structured source information is available (i.e. if no other [source](#) child elements are present). Dummy items (generated from unlinked references) may have unstructured source information in addition to the structured source elements.

```
<source srcid="123" type="j" country="usa">
  <sourcetitle>Current Biology</sourcetitle>
  <sourcetitle-abbrev>Curr. Biol.</sourcetitle-abbrev>
  <issn>09609822</issn>
  <codencode>CUBLE</codencode>
  <volisspag>
    <voliss volume="18" issue="2"/>
    <pagerange first="193" last="196"/>
  </volisspag>
  <article-number>74.577</article-number>
  <publicationyear first="1999"/>
  <publicationdate>
    <year>1999</year>
    <month>08</month>
    <day>03</day>
  </publicationdate>
</source>
or
```

```

<source type="d" country="usa">
  <sourcetitle>Municipal Engineers Journal</sourcetitle>
  <sourcetitle-abbrev>Munic. Eng. J.</sourcetitle-abbrev>
  <issn>00273465</issn>
  <codencode>MUEJA</codencode>
  <volisspag>
    <voliss volume="12" issue="10"/>
    <pagerange first="R340" last="R342"/>
  </volisspag>
  <publicationyear first="2002"/>
  <publicationdate>
    <year>2002</year>
    <month>05</month>
    <day>14</day>
  </publicationdate>
</source>
or
<source id="88" type="b" country="usa">
  <sourcetitle>Recent Advances in Optimal Structural Design</sourcetitle>
  <sourcetitle-abbrev>Recent Adv. Optim. Struct. Des.</sourcetitle-abbrev>
  <isbn>0784406367</isbn>
  <edition>3rd edition</edition>
  <part>Part 2</part>
  <volisspag>
    <pagerange first="iii" last="iv"/>
  </volisspag>
  <publicationyear first="2002"/>
  <editors>
    <editor>
      <ce:initials>S.A.</ce:initials>
      <ce:indexed-name>Burns</ce:indexed-name>
      <ce:surname>Burns</ce:surname>
    </editor>
  </editors>
  <publisher>
    <publishername>American Society of Civil Engineers</publishername>
  </publisher>
</source>

```

129. sourcetitle

Description

Element [sourcetitle](#) contains the full title of the source of the document.

Usage

Element [sourcetitle](#) contains the full title of the journal, book, conference proceeding, report etc. ("source") in which the document was published.

```

<sourcetitle>Journal of Chromatography B: Biomedical Sciences and
Applications</sourcetitle>

```

130. sourcetitle-abbrev

Description

Element [sourcetitle-abbrev](#) contains the abbreviated title of the source of the document.

Usage

Element [sourcetitle-abbrev](#) contains the abbreviated title of the journal, book, conference proceeding, report etc. ("source") in which the document was published.

```
<sourcetitle-abbrev>J. Chromatogr. B Biomed. Sci. Appl.</sourcetitle-abbrev>
```

131. startdate

Description

Element [startdate](#) contains the starting date of an event.

Usage

The element is empty, with the actual value in the attributes [year](#), [month](#) and [day](#). An optional attribute [timestamp](#) is allowed but generally not used for this element. The format of this attribute is yyyy-mm-ddThh:mm:ss.ssssssSHH:00 where SHH:00 is the timezone: S = sign (+ or -), and HH are the hours difference of local time minus universal time. Example: timestamp="2004-12-13T19:12:06.856732-05:00".

```
<startdate year="2000" month="05" day="09"/>
```

132. state

Description

Element [state](#) contains the state part of an address.

Usage

```
<state>CA</state>
```

133. sublink

Description

Element [sublink](#) describes the context of use of a main descriptor assigned to the document.

Usage

Normally only the [link](#) element is used to describe the context of use of a main descriptor. But for specialized indexing for customers two additional levels of link terms, that describe the context even further, are available: [sublink](#) and [subsublink](#).

```
<descriptor>
  <mainterm weight="a">octreotide</mainterm>
  <link>keyword medical link</link>
  <sublink>gastrointestinal hemorrhage</sublink>
  <subsublink>surgery</subsublink>
</descriptor>
```

134. [subsublink](#)

Description

Element [subsublink](#) describes the context of use of a main descriptor assigned to the document.

Usage

Normally only the [link](#) element is used to describe the context of use of a main descriptor. But for specialized indexing for customers two additional levels of link terms, that describe the context even further, are available: [sublink](#) and [subsublink](#).

```
<descriptor>
  <mainterm weight="a">octreotide</mainterm>
  <link>keyword medical link</link>
  <sublink>gastrointestinal hemorrhage</sublink>
  <subsublink>surgery</subsublink>
</descriptor>
```

135. [sup](#)

Description

Element [sup](#) contains superior text.

Usage

Used in title and abstract elements where parts of the text can be superior or inferior.

```
E = mc<sup>2</sup>
```

136. [supplement](#)

Description

Element [supplement](#) contains information if the source is a supplement issue

Usage

The presence of element [supplement](#) indicates that the issue is a supplement issue. It can contain data (like a supplement sequencenumber), but will more often be empty.

```
<supplement>SUPPL. 2</supplement>
```

137. [tail](#)

Description

Element [tail](#) contains the bibliography of the document.

Usage

This element contains a single child element [bibliography](#), which contains the number of references in the document, and optionally contains one or more [reference](#) elements.

```
<tail>
  <bibliography refcount="3">
    <reference>...</reference>
    <reference>...</reference>
    <reference>...</reference>
  </bibliography>
</tail>
```

138. titletext

Description

Element [titletext](#) contains the original or translated title of the document.

Usage

Element [titletext](#) has two attributes:

Attribute [xml:lang](#) contains a 3-lettercode representing the language of the title (the language codes used are standard ISO 636 language codes). See Chapter VII for a list of codes.

Attribute [original](#) has value "y" if the title is the original title of the document, and "n" if the title is a translation of the original title.

```
<titletext xml:lang="eng" original="n">The genus Tragus (Poaceae, Zoisieae)
in Argentina</titletext>
<titletext xml:lang="esp" original="y">El geacute;nero Tragus (Poaceae,
Zoisieae) en la Argentina</titletext>
```

139. trademanuitem

Description

Element [trademanuitem](#) contains a tradename (and optionally manufacturer) that is mentioned in the document.

Usage

Element [trademanuitem](#) consists of a [tradename](#) element containing a tradename for a drug, device, etc., plus optionally a [manufacturer](#) element containing the name of the manufacturer that manufactured the drug, device etc.

```
<tradenames type="TRD">
  <trademanuitem>
    <tradename>mycospor</tradename>
    <manufacturer country="deu">Bayer</manufacturer>
  </trademanuitem>
</tradenames>
```

140. tradename

Description

Element [tradename](#) contains a tradename that is mentioned in the document.

Usage

```
<tradenames type="TRD">
  <trademanuitem>
    <tradename>mycospor</tradename>
    <manufacturer country="deu">Bayer</manufacturer>
  </trademanuitem>
</tradenames>
```

141. tradenamegroup

Description

Element [tradenamegroup](#) contains tradenames mentioned in the document.

Usage

This element contains one or more [tradenames](#) elements, each containing a set of tradenames of a specific type, e.g. drug tradenames, device tradenames etc.

```
<tradenamegroup>
  <tradenames type="TRD">
    <trademanuitem>
      <tradename>mycospor</tradename>
      <manufacturer country="deu">Bayer</manufacturer>
    </trademanuitem>
  </tradenames>
  <tradenames type="TNV">
    <trademanuitem>
      <tradename>Amplicor HIV-1 Monitor 1.5</tradename>
      <manufacturer country="usa">Hoffmann La Roche</manufacturer>
    </trademanuitem>
  </tradenames>
</tradenamegroup>
```

142. tradenames

Description

Element [tradenames](#) contains a set of tradenames of a specific type that occur in the document.

Usage

The [tradenames](#) element contains one or more occurrences of the child element [trademanuitem](#), each containing a tradename and optionally manufacturer of the type specified by the attribute [type](#).

```
<tradenames type="TRD">
  <trademanuitem>
    <tradename>mycospor</tradename>
    <manufacturer country="deu">Bayer</manufacturer>
  </trademanuitem>
</tradenames>
```

143. translated-sourcetitle

Description

Element [translated-sourcetitle](#) contains a translation of the original title of the source in which the document was published.

Usage

The [translated-sourcetitle](#) element contains a translation of the original title of the source (journal, book, report or conference proceeding) in which the document was published.

```
<sourcetitle>
  Selvets idehistorie
</sourcetitle>

<translated-sourcetitle>
  The self in the historie of ideas
</translated-sourcetitle>
```

144. venue

Description

Element [venue](#) contains the name of a place where a conference is held.

Usage

```
<venue>Palais des Festivals</venue>
```

145. voliss

Description

Element [voliss](#) contains information on the source volume and issue in which the document was published.

Usage

This is an empty element. The actual value is in the attributes [volume](#) and [issue](#).

```
<voliss volume="34" issue="C-22"/>
```

146. volisspag

Description

Element [volisspag](#) contains information on the source volume and issue in which the document was published, and/or the pages on which the document appears.

Usage

The [volisspag](#) element consists of three optional elements, of which at least either the first or the last must be present: element [voliss](#), containing the volume and issue information, element [supplement](#) which can contain information if the source is a supplement issue, and/or an element containing page information.

The page information is contained in one of three possible elements: element [pagerange](#) (containing a page range, with first and last page), or element [pages](#) (page information in free text format), or element [pagecount](#) (containing the number of pages). Element [pagecount](#) can be repeating (some sources give the number of roman pages and the number of arabic pages separately).

```
<volisspag>
  <voliss issue="C-22"/>
  <supplement>SUPPL. 2</supplement>
  <pagerange first="483" last="498"/>
</volisspag>
```

Light reading

The presence of element [supplement](#) indicates that the issue is a supplement issue. It can contain data (like a supplement sequencenumber), but will more often be empty.

Element [supplement](#) has been added for future use and will not be delivered as separate element yet.

147. volumetitle

Description

Element [volumetitle](#) contains the title of a volume of a book.

Usage

If the source of of document is a book series, then the title of the book (or volume) will be delivered in the [volumetitle](#) element, while the title of the book series will be delivered in the [sourcetitle](#) element.

```
<volumetitle>Brain Death and Disorders of Consciousness
</volumetitle>
```

148. website

Description

Element [website](#) contains the name and/or URL of a website where the document is published.

Usage

Element [website](#) contains the URL of a website where the document is published, optionally preceded by the name of the website. Element [website](#) has an optional attribute [type](#) with possible values "source" or "item", indicating whether the URL refers to the item or the source of the item (i.e. the journal homepage).

```
<website>
  <websitename>National Library of Medicine</websitename>
  <ce:e-address type="url">http://www.igml.nlm.nih.gov</ce:e-address>
</website>
<website type="source">
  <ce:e-address type="url">www.urbanfischer.de/journals/intjhyg</ce:e-
address>
</website>
```

149. websitename

Description

Element [websitename](#) contains the name of a website where the document is published.

Usage

```
<ref-website>
  <websitename>National Library of Medicine</websitename>
  <ce:e-address type="url">http://www.igml.nlm.nih.gov</ce:e-address>
</ref-website>
```

150. xocs:eid

Description

Element [xocs:eid](#) contains the xocs database identifier for an item in Scopus..

151. xocs:oeid

Description

Element [xocs:oeid](#) contains a preliminary version of the xocs database identifier for an item in Scopus and should be ignored.

152. year

Description

Element [year](#) contains a 4-digit year.

Usage

```
<year>2000</year>
```

IV. Author Metadata and Author Profiles

Author Metadata

The below information is additional to the descriptions in Chapter III. Author metadata contains the list of authors of the document. It includes information like above listed name, surname, initials, indexed name, preferred name, address information for the corresponding author, ID of the corresponding author profile.

Author Metadata Example

The example provided below is a composite demonstrator of actual Scopus data. This is a smaller and more concise example as there is too much data in an actual sample.

```
<author-group>
  <author seq="1" auid="7203056180">
    <ce:initials>H.L.A.</ce:initials>
    <ce:indexed-name>Janssen H.L.A.</ce:indexed-name>
    <ce:surname>Janssen</ce:surname>
    <ce:given-name>Harry L. A.</ce:given-name>
    <preferred-name>
      <ce:initials>H.L.A.</ce:initials>
      <ce:indexed-name>Janssen H.</ce:indexed-name>
      <ce:surname>Janssen</ce:surname>
      <ce:given-name>H. L A</ce:given-name>
    </preferred-name>
    <ce:e-address type>h.janssen@erasmusmc.nl</ce:e-address>
  </author>
</author-group>
```

Element	Description
<pre><author-group> </author-group></pre>	<p>Element <code>author-group</code> contains information on the author(s) of the item.</p> <p>Element <code>author-group</code> consists of 0, 1 or more occurrences of the name of an author or collaboration (sub elements <code>author</code> and <code>collaboration</code>, optionally an <code>et-al</code> element (indicating that not all authors of the document are included), and optionally an affiliation element with author address information.</p> <p>The authors are grouped by affiliation. If an author has more than one affiliation, the author's name will be included in all <code>author-group</code> occurrences that contain one of the affiliations for that author. The sequence preserves the original order of the authors.</p>
<pre><author seq="1" auid="7203056180"> </author></pre>	<p>Element <code>author</code> has two attributes:</p> <ul style="list-style-type: none"> • Attribute <code>auid</code> (optional) contains an ID identifying a unique author. • Attribute <code>seq</code> contains a sequence number defining the order of the authors in the document. If the <code>author</code> element contains the name of an institution instead of a person then attribute <code>type</code> will be specified with value "inst".
<pre><ce:initials> </ce:initials></pre>	<p>Element <code>ce:initials</code> contains the initials (as part of the name of a person).</p>
<pre><ce:indexed-name> </ce:indexed-name></pre>	<p>Element <code>ce:indexed-name</code> contains the concatenated value of <code>ce:surname</code> and <code>initials</code>, with all special characters removed.</p> <p>Element <code>ce:indexed-name</code> is used for indexing purposes.</p>
<pre><ce:surname> </ce:surname></pre>	<p>Element <code>ce:surname</code> contains the surname of a person.</p> <p>Together with the element <code>ce:given-name</code>, <code>ce:surname</code> forms the name of authors or editors.</p> <p>Especially for non-Westerners, it is not always clear or known what the given name and the surname is. In some regions of the world, it is even not uncommon to have just one name. In such cases, <code>ce:surname</code> may contain the full name of the person.</p>
<pre><ce:given-name> </ce:given-name></pre>	<p>The given name of an author or editor (also known as forename, Christian name) is tagged using <code>ce:given-name</code>.</p> <p>For non-Westerners, the <code>ce:given-name</code> is unreliable, and therefore the <code>ce:given-name</code> and <code>ce:surname</code> should always be used together.</p>
<pre><preferred-name></pre>	<p>Element <code>preferred-name</code> contains the preferred name</p>

Element	Description
<code></preferred-name></code>	<p>of an author.</p> <p><code>preferred-name</code> contains the preferred name of an author, associated with the unique author id in attribute <code>aid</code>. It consists of 6 sub elements:</p> <ul style="list-style-type: none"> • <code><ce:initials></code> (optional), contains the initials of the author. • <code><ce:indexed-name></code> contains a sort able variant of the author surname and initials (without special characters). • <code><ce:degrees></code> optional, contains any degrees of the author. • <code><ce:surname></code> contains the surname (familyname) of the author. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials. • <code><ce:given-name></code> (optional), contains the first name (given name) of the author. • <code><ce:suffix></code> (optional), contains an indication of the generation, like II or Sr.
<code><ce:e-address type=""></code> <code></ce:e-address type></code>	<p>A description of <code>ce:e-address</code> appears here. The purpose of the <code>ce:e-address</code> element is to capture the electronic address(es) of the authors of the document.</p> <p>Each author or collaboration can have zero or more electronic addresses which are tagged using <code>ce:e-address</code>. The attribute <code>type</code> denotes the type of the electronic address. Its two values are "email" and "url". email, the default value, is an email address, and url is a complete URL, beginning with <code>http://</code></p>

Author Profile

Typically an author profile is extracted separately, for all authors of a document. This includes all known information about that author: preferred name and all known name variants of the authors name found in the author's publications history, subject classifications of the author's publications history, journals in which the author has published and the author's affiliation history (by IDs only).

Author Profile- 6507848928

The following Author Profile is a sample profile from actual Scopus data.

Author Profile Example

```
<xocs:doc content-type="Profile" dbname="scopusbase" xsi:schemaLocation="http://www.elsevier.com/xml/xocs/dtd
xocs-ap501.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd">
  <xocs:meta>
    <xocs:eid>9-s2.0-6507848928</xocs:eid>
    <xocs:timestamp>2006-05-26T19:37:04.830397-04:00</xocs:timestamp>
  </xocs:meta>
  <xocs:author-profile>
```

```

<author-profile id="6507848928" type="author" suppress="false">
  <status>update</status>
  <date-created year="2005" month="12" day="03"/>
  <date-revised year="2006" month="05" day="01" timestamp="2006-05-01T07:02:08.000008+01:00"/>
  <date-revised year="2006" month="05" day="20" timestamp="2006-05-20T04:59:30.000030+01:00"/>
  <preferred-name>
    <initials>M.</initials>
    <indexed-name>Van Zonneveld M.</indexed-name>
    <surname>Van Zonneveld</surname>
    <given-name>Monika</given-name>
  </preferred-name>
  <name-variant>
    <initials>M.</initials>
    <indexed-name>Van Zonneveld M.</indexed-name>
    <surname>Van Zonneveld</surname>
    <given-name>M.</given-name>
  </name-variant>
  <name-variant>
    <initials>M.</initials>
    <indexed-name>van Zonneveld M.</indexed-name>
    <surname>van Zonneveld</surname>
    <given-name>Monika</given-name>
  </name-variant>
  <classificationgroup>
    <classifications type="ASJC">
      <classification frequency="1">2406</classification>
      <classification frequency="3">2700</classification>
      <classification frequency="1">2715</classification>
      <classification frequency="1">2721</classification>
      <classification frequency="2">2721</classification>
    </classifications>
  </classificationgroup>
  <publication-range start="2003" end="2006"/>
  <journal-history type="author">
    <journal type="j">
      <sourcetitle>American Journal of Gastroenterology</sourcetitle>
      <sourcetitle-abbrev>Am. J. Gastroenterol.</sourcetitle-abbrev>
      <issn>00029270</issn>
    </journal>
    <journal type="j">
      <sourcetitle>European Journal of Gastroenterology and Hepatology</sourcetitle>
      <sourcetitle-abbrev>Eur. J. Gastroenterol. Hepatol.</sourcetitle-abbrev>
      <issn>0954691X</issn>
    </journal>
    <journal type="j">
      <sourcetitle>Hepatology</sourcetitle>
      <sourcetitle-abbrev>Hepatology</sourcetitle-abbrev>
      <issn>02709139</issn>
    </journal>
    <journal type="j">
      <sourcetitle>Journal of Viral Hepatitis</sourcetitle>
      <sourcetitle-abbrev>J. Viral Hepatitis</sourcetitle-abbrev>
      <issn>13520504</issn>
    </journal>
    <journal type="j">
      <sourcetitle>Lancet</sourcetitle>
      <sourcetitle-abbrev>Lancet</sourcetitle-abbrev>
      <issn>01406736</issn>
    </journal>
    <journal type="j">
      <sourcetitle>Liver International</sourcetitle>
      <sourcetitle-abbrev>Liver Int.</sourcetitle-abbrev>
      <issn>14783223</issn>
    </journal>
    <journal type="j">
      <sourcetitle>New England Journal of Medicine</sourcetitle>
      <sourcetitle-abbrev>New Engl. J. Med.</sourcetitle-abbrev>
      <issn>00284793</issn>
    </journal>
    <journal type="j">
      <sourcetitle>The New England journal of medicine</sourcetitle>

```

```

        <source-title-abbrev>N Engl J Med</source-title-abbrev>
        <issn>15334406</issn>
    </journal>
</journal-history>
<affiliation-current>
    <affiliation affiliation-id="21733980" parent="18369513"/>
</affiliation-current>
<affiliation-history>
    <affiliation affiliation-id="23267195" parent="22569963"/>
    <affiliation affiliation-id="18571137" parent="22310232"/>
</affiliation-history>
</author-profile>
</xocs:author-profile>
</xocs:doc>

```

Element	Description
<author-profile>	Element <code>author-profile</code> includes all known information about that author: preferred name and all known variants, subject classifications of the author's publications history, journals in which the author has published and the author's affiliation history (by IDs only).
<preferred-name>	Element <code>preferred-name</code> contains the preferred name of an author, associated with the unique author id in attribute <code>aid</code> . It consists of 6 sub elements: Element <code>ce:initials</code> (optional), contains the initials of the author. Element <code>ce:indexed-name</code> contains a sortable variant of the author surname and initials (without special characters). Element <code>ce:degrees</code> optional, contains any degrees of the author. Element <code>ce:surname</code> contains the surname (familyname) of the author. Names for which it is difficult to identify the family name (e.g. Chinese names) are entered completely in this element, without attempting to distinguish surname and given-name and initials. Element <code>ce:given-name</code> (optional), contains the first name (given name) of the author. Element <code>ce:suffix</code> (optional), contains an indication of the generation, like II or Sr.
<name-variant>	Element <code>name-variant</code> is the variant name of the author.
<e-address>	The purpose of the <code>e-address</code> element is to capture the electronic address(es) of the authors of the document. Each author or collaboration can have zero or more electronic addresses which are tagged using <code>ce:e-address</code> . The attribute <code>type</code> denotes the type of the electronic address. Its two values are "email" and "url". <code>email</code> , the default value, is an email address, and <code>url</code> is a complete URL, beginning with <code>http://</code> .
<classificationgroup>	Element <code>classificationgroup</code> contains one or more sets of classifications assigned to the item. This element contains one or more classification elements, each containing a set of classifications from a specific classification scheme, e.g. EMCLASS, GEOCLASS etc. The attribute <code>type</code> of the sub element <code>classifications</code> specifies the classification

	scheme.
<publication-range>	Element publication-range is the author's start and end of publication dates.
<journal-history>	Element journal-history contains information regarding the author's published sources. This element contains the types of sources (i.e., journals, conference proceedings, etc.) the source title, and the issns of the source titles.
<affiliation-current>	Element affiliation-current contains the affiliation ID (parent affiliation ID and department affiliation ID if available) of the Author's current affiliation. All author profiles currently contain a maximum of one current affiliation.
<affiliation-history>	Element affiliation-history contains the affiliation id (parent affiliation id and department affiliation id if available) of the Author's historical affiliations.

V. Cited By counts

Cited By counts

This is a value calculated individually for every core record that describes the number of times a document has been cited by other Scopus documents.

Cited by counts Example

Note: The example provided below is a composite demonstrator of actual Scopus data. This is a smaller and more concise example as there is too much data in an actual sample

```
<xocs:metadoc metatype="cited-by" id="ANI-CITEDBY" xsi:schemaLocation="http://www.elsevier.com/xml/xocs/dtd
scopus-citedby.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd">
```

```
<cited-by>
```

```
<eid>2-s2.0-0038644483</eid>
```

```
<xocs:timestamp>2006-08-28T15:05:02.971082-04:00</xocs:timestamp>
```

```
<count>19</count>
```

```
</cited-by>
```

```
</xocs:metadoc>
```

Element	Description
<eid>2-s2.0-0038644483</eid>	Element eid is the Electronic Identifier for Scopus documents.
<count>19</count>	Element count refers to the number of documents citing the document.

VI. Ordering data and data decryption

Step 1 - Defining the Request

The first step in extracting a dataset is to define the request for data extraction. This depends entirely on your specific needs and the capabilities of our system to extract the data in an optimal way.

The information that needs to be clearly defined in your request are:

- **The subset of Scopus data requested** – this describes the individual set of Scopus data that is required. Some examples would be to limit the data to a specific subject classification, publication year etc.

Limiting the dataset to a minimum is essential in optimizing the performance and time it takes to extract the data. It allows for more flexibility in the choice of delivery and makes it easier to perform further analysis.

- **The data to be extracted** – this describes what will be extracted for each individual record included in the previously defined subset.
- **Other Options** – this allows you to specify a desired delivery date, packaging preferences, preferred method to transfer the data etc.

Step 2 – Sample Set

When you have finalized your request a sample set can be created and sent to you. The sample set will allow you to verify and validate the request that has been defined.

The validation will work in two ways:

First, it will allow you to gain an understanding of what the data will look like, how it will be structured and what it will contain. This will also allow you to start making initial preparations for the data processing once it is delivered.

Secondly, it will allow both parties to verify that the request is understood and interpreted correctly. This will enable your Scopus Custom Data contact to make a realistic estimation of the time required to complete the final request.

When you receive this sample set be sure to check that all your dataset analytical needs are met.

- If there are changes that need to be made to the query script, this is the best time to inform us.
- If no changes are required, then the formal approval will be communicated.
- Changes required after Step 2 can result in delays.

Once the sample set has been approved the extraction of the complete dataset can be scheduled.

The time required to run the dataset extraction will depend on the complexity of the request and the expected size of the final set. The running time of the request might vary from a couple of hours to a few days or weeks.

Step 3 – Delivery of Data

The data extracted will be in XML format.

There are multiple methods that can be used to deliver your specified Scopus Custom Data set:

- FTP of data to your FTP site
- CD, DVD
- External Hard Drives (USB 2.0)

On a case by case basis, it might be preferred to encrypted the data for transfer. See further details on how to decrypt the data below.

Step 4 – How to Decrypt Data

If the data is encrypted, Scopus data will be encrypted using GnuPG Version 1.2.1 free-ware for encryption and decryption. GnuPG can be downloaded at <http://www.gnupg.org/>

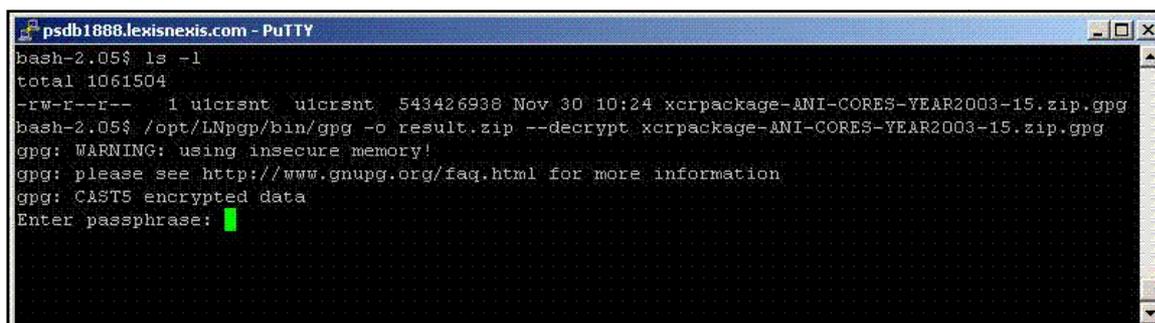
Documentation for installation and usage and other topics relating to this software can be found at <http://www.gnupg.org/documentation/>

All data is encrypted using a symmetric cipher which requires a pass phrase which is entered during decryption procedure. This pass phrase is provided to you by a Scopus Product representative. Please follow the following steps:

1. Use command prompt `gpg --output [file name]` to create an output file name for the compressed data file.
See <http://www.gnupg.org/documentation/manpage.en.html> for more information.
2. Use command prompt `gpg--decrypt [file name]`
3. Enter pass phrase (provided by your Scopus Product representative).
4. Press Enter. Your data file will be extracted into the output file.

▪ Decryption Example

1. Command execute to decrypt the encrypted file `xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg`
 - CD to the working directory where the encrypted files are stored.
 - Execute the command: `<<GnuPGP-Install-directory>>/bin/gpg -o <<result-output-file-name>> --decrypt <<encrypted-input-file-name>>`
 - At the prompt, enter the provided pass phrase and press **Enter**.

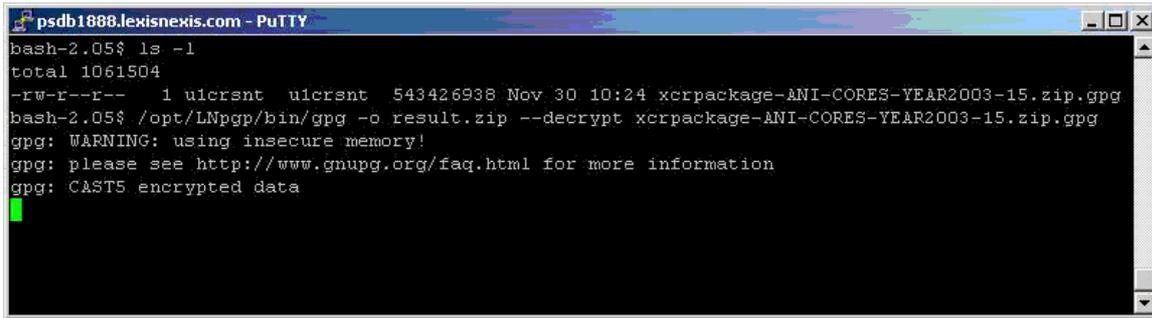


```

psdb1888.lexisnexis.com - PuTTY
bash-2.05$ ls -l
total 1061504
-rw-r--r--  1 uicrsnt  uicrsnt  543426938 Nov 30 10:24 xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
bash-2.05$ /opt/LNpgp/bin/gpg -o result.zip --decrypt xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
gpg: WARNING: using insecure memory!
gpg: please see http://www.gnupg.org/faq.html for more information
gpg: CAST5 encrypted data
Enter passphrase: █
  
```

Product pass phrase entry

- The data decryption process will start when the correct pass phrase is provided by Product.



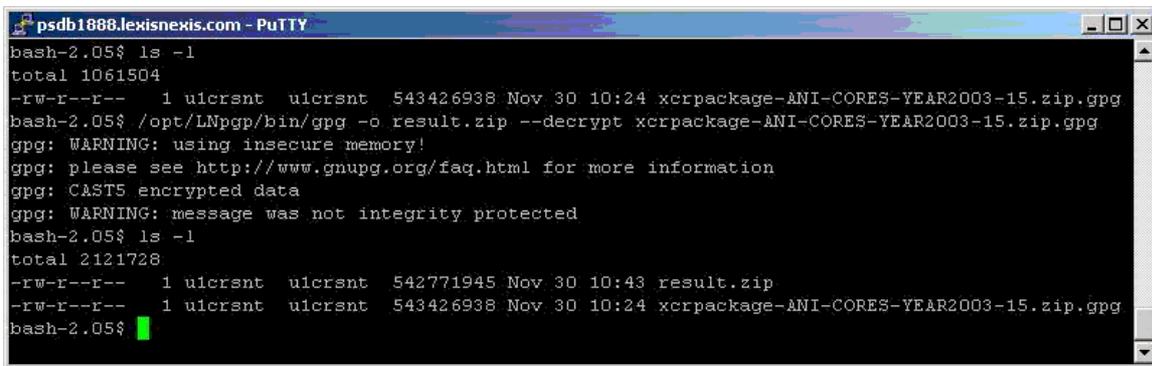
```

psdb1888.lexisnexis.com - PuTTY
bash-2.05$ ls -l
total 1061504
-rw-r--r--  1 ulcrsnt  ulcrsnt  543426938 Nov 30 10:24 xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
bash-2.05$ /opt/LNpggp/bin/gpg -o result.zip --decrypt xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
gpg: WARNING: using insecure memory!
gpg: please see http://www.gnupg.org/faq.html for more information
gpg: CAST5 encrypted data

```

Decryption Process

- Once the decryption is complete, the decrypted output file is available in the provided location.



```

psdb1888.lexisnexis.com - PuTTY
bash-2.05$ ls -l
total 1061504
-rw-r--r--  1 ulcrsnt  ulcrsnt  543426938 Nov 30 10:24 xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
bash-2.05$ /opt/LNpggp/bin/gpg -o result.zip --decrypt xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
gpg: WARNING: using insecure memory!
gpg: please see http://www.gnupg.org/faq.html for more information
gpg: CAST5 encrypted data
gpg: WARNING: message was not integrity protected
bash-2.05$ ls -l
total 2121728
-rw-r--r--  1 ulcrsnt  ulcrsnt  542771945 Nov 30 10:43 result.zip
-rw-r--r--  1 ulcrsnt  ulcrsnt  543426938 Nov 30 10:24 xcrpackage-ANI-CORES-YEAR2003-15.zip.gpg
bash-2.05$

```

Completed decryption

VII. Lists of codes and abbreviations

The following tables contain all codes and abbreviations used in Scopus Custom Data.

Citation types

Code	Description
ab	Abstract Report
ar	Article
bk	Book
br	Book Review
bz	Business Article
ch	Chapter
cp	Conference Paper
cr	Conference Review
di	Dissertation
ed	Editorial
er	Erratum
ip	Article in Press
le	Letter
no	Note
pa	Patent
pr	Press Release
re	Review
rp	Report
sh	Short Survey
wp	Working Paper

DBCollection Codes

Code	Description
ADONIS	Adonis collection
APILIT	API Technical Literature
APINWS	API Business News
BSTEIN	Beilstein
CABS	CABS collection
CHEM	Chemistry collection
CPX	Engineering Information/Compendex
ECON	Economics Literature (Econlit)
EMBASE	EMBASE collection
EMBIO	EMBASE Biology
EST	Environmental Science and Technology
FLX	FLUIDEX
GEO	GEObase
MEDL	Medline
PCH	Engineering Information/Paperchem
PSYC	Psychology (PsycINFO)
Scopusbase	Scopus
SNARTH	Arts & Humanities
SNCABS	SN Agriculture, Biology & Environmental Science
SNCHEM	SN Chemistry
SNCPX	SN Engineering & Technology
SNECON	SN Business & Economics
SNEMB	SN Biomedicine
SNGEO	SN Earth Science
SNMATH	SN Mathematics

SNPHYS	SN Physics
SNPSYB	SN Psychology & Behavioral Science
SNSOC	SN Social Science
WTA	World Textiles

Item ID Codes

Code	Description
ADONIS	Adonis collection
APILIT	API Technical Literature
APINWS	API Business News
CABS	CABS collection
CHEM	Chemistry collection
CPX	Engineering Information/Compendex
ECON	Economics Literature (Econlit)
EMBASE	EMBASE collection
EST	Environmental Science and Technology
FLX	FLUIDEX
GEO	GEObase
MEDL	Medline
PSYC	Psychology (PsycINFO)
SCP	Scopus
SGR	Scopus Group
SNCABS	SN Agriculture, Biology & Environmental Science
SNCHEM	SN Chemistry
SNCPX	SN Engineering & Technology
SNECON	SN Business & Economics
SNEMB	SN Biomedicine
SNGEO	SN Earth Science
SNMATH	SN Mathematics
SNPHYS	SN Physics
SNPSYB	SN Psychology & Behavioral Science
SNSOC	SN Social Science
WTA	World Textiles

Country codes

Country name	3 letter code UC	2 letter code UC	3 letter code LC	2 letter code LC
Afghanistan	AFG	AF	afg	af
Albania	ALB	AL	alb	al
Algeria	DZA	DZ	dza	dz
American Samoa	ASM	AS	asm	as
Andorra	AND	AD	and	ad
Angola	AGO	AO	ago	ao
Anguilla	AIA	AI	aia	ai
Antarctica	ATA	AQ	ata	aq
Antigua and Barbuda	ATG	AG	atg	ag
Argentina	ARG	AR	arg	ar
Armenia	ARM	AM	arm	am
Aruba	ABW	AW	abw	aw
Australia	AUS	AU	aus	au
Austria	AUT	AT	aut	at
Azerbaijan	AZE	AZ	aze	az
Bahamas	BHS	BS	bhs	bs
Bahrain	BHR	BH	bhr	bh
Bangladesh	BGD	BD	bgd	bd

Barbados	BRB	BB	brb	bb
Belarus	BLR	BY	blr	by
Belgium	BEL	BE	bel	be
Belize	BLZ	BZ	blz	bz
Benin	BEN	BJ	ben	bj
Bermuda	BMU	BM	bmu	bm
Bhutan	BTN	BT	btn	bt
Bolivia	BOL	BO	bol	bo
Bosnia and Herzegovina	BIH	BA	bih	ba
Botswana	BWA	BW	bwa	bw
Bouvet Island	BVT	BV	bvt	bv
Brazil	BRA	BR	bra	br
British Indian Ocean Territory	IOT	IO	iot	io
Brunei Darussalam	BRN	BN	brn	bn
Bulgaria	BGR	BG	bgr	bg
Burkina Faso	BFA	BF	bfa	bf
Burundi	BDI	BI	bdi	bi
Cambodia	KHM	KH	khm	kh
Cameroon	CMR	CM	cmr	cm
Canada	CAN	CA	can	ca
Cape Verde	CPV	CV	cpv	cv
Cayman Islands	CYM	KY	cym	ky
Central African Republic	CAF	CF	caf	cf
Chad	TCD	TD	tcd	td
Chile	CHL	CL	chl	cl
China	CHN	CN	chn	cn
Christmas Island	CXR	CX	cxr	cx
Cocos (Keeling) Islands	CCK	CC	cck	cc
Colombia	COL	CO	col	co
Comoros	COM	KM	com	km
Congo	COG	CG	cog	cg
Cook Islands	COK	CK	cok	ck
Costa Rica	CRI	CR	cri	cr
Côte d'Ivoire	CIV	CI	civ	ci
Croatia	HRV	HR	hrv	hr
Cuba	CUB	CU	cub	cu
Cyprus	CYP	CY	cyp	cy
Czech Republic	CZE	CZ	cze	cz
Democratic Republic Congo	COD	CD	cod	cd
Denmark	DNK	DK	dnk	dk
Djibouti	DJI	DJ	dji	dj
Dominica	DMA	DM	dma	dm
Dominican Republic	DOM	DO	dom	do
Ecuador	ECU	EC	ecu	ec
Egypt	EGY	EG	egy	eg
El Salvador	SLV	SV	slv	sv
Equatorial Guinea	GNQ	GQ	gnq	gq
Eritrea	ERI	ER	eri	er
Estonia	EST	EE	est	ee
Ethiopia	ETH	ET	eth	et
Falkland Islands (Malvinas)	FLK	FK	flk	fk
Faroe Islands	FRO	FO	fro	fo
Federated States of Micronesia	FSM	FM	fsm	fm
Fiji	FJI	FJ	fji	fj
Finland	FIN	FI	fin	fi
France	FRA	FR	fra	fr
French Guiana	GUF	GF	guf	gf
French Polynesia	PYF	PF	pyf	pf
French Southern Territories	ATF	TF	atf	tf
Gabon	GAB	GA	gab	ga
Gambia	GMB	GM	gmb	gm

Georgia	GEO	GE	geo	ge
Germany	DEU	DE	deu	de
Ghana	GHA	GH	gha	gh
Gibraltar	GIB	GI	gib	gi
Greece	GRC	GR	grc	gr
Greenland	GRL	GL	grl	gl
Grenada	GRD	GD	grd	gd
Guadeloupe	GLP	GP	glp	gp
Guam	GUM	GU	gum	gu
Guatemala	GTM	GT	gtm	gt
Guinea	GIN	GN	gin	gn
Guinea-Bissau	GNB	GW	gnb	gw
Guyana	GUY	GY	guy	gy
Haïti	HTI	HT	hti	ht
Heard Island and McDonald Islands	HMD	HM	hmd	hm
Honduras	HND	HN	hnd	hn
Hong Kong	HKG	HK	hkg	hk
Hungary	HUN	HU	hun	hu
Iceland	ISL	IS	isl	is
India	IND	IN	ind	in
Indonesia	IDN	ID	idn	id
Iran	IRN	IR	irn	ir
Iraq	IRQ	IQ	irq	iq
Ireland	IRL	IE	irl	ie
Israel	ISR	IL	isr	il
Italy	ITA	IT	ita	it
Jamaica	JAM	JM	jam	jm
Japan	JPN	JP	jpn	jp
Jordan	JOR	JO	jor	jo
Kazakhstan	KAZ	KZ	kaz	kz
Kenya	KEN	KE	ken	ke
Kiribati	KIR	KI	kir	ki
Kuwait	KWT	KW	kwt	kw
Kyrgyzstan	KGZ	KG	kgz	kg
Laos	LAO	LA	lao	la
Latvia	LVA	LV	lva	lv
Lebanon	LBN	LB	lbn	lb
Lesotho	LSO	LS	lso	ls
Liberia	LBR	LR	lbr	lr
Libyan Arab Jamahiriya	LBY	LY	lby	ly
Liechtenstein	LIE	LI	lie	li
Lithuania	LTU	LT	ltu	lt
Luxembourg	LUX	LU	lux	lu
Macao	MAC	MO	mac	mo
Macedonia	MKD	MK	mkd	mk
Madagascar	MDG	MG	mdg	mg
Malawi	MWI	MW	mwi	mw
Malaysia	MYS	MY	mys	my
Maldives	MDV	MV	mdv	mv
Mali	MLI	ML	mli	ml
Malta	MLT	MT	mlt	mt
Marshall Islands	MHL	MH	mhl	mh
Martinique	MTQ	MQ	mtq	mq
Mauritania	MRT	MR	mrt	mr
Mauritius	MUS	MU	mus	mu
Mayotte	MYT	YT	myt	yt
Mexico	MEX	MX	mex	mx
Moldova	MDA	MD	mda	md
Monaco	MCO	MC	mco	mc
Mongolia	MNG	MN	mng	mn
Montenegro	MNE	ME	mne	me

Montserrat	MSR	MS	msr	ms
Morocco	MAR	MA	mar	ma
Mozambique	MOZ	MZ	moz	mz
Myanmar	MMR	MM	mmr	mm
Namibia	NAM	NA	nam	na
Nauru	NRU	NR	nru	nr
Nepal	NPL	NP	npl	np
Netherlands	NLD	NL	nld	nl
Netherlands Antilles	ANT	AN	ant	an
New Caledonia	NCL	NC	ncl	nc
New Zealand	NZL	NZ	nzl	nz
Nicaragua	NIC	NI	nic	ni
Niger	NER	NE	ner	ne
Nigeria	NGA	NG	nga	ng
Niue	NIU	NU	niu	nu
Norfolk Island	NFK	NF	nfk	nf
North Korea	PRK	KP	prk	kp
Northern Mariana Islands	MNP	MP	mnp	mp
Norway	NOR	NO	nor	no
Oman	OMN	OM	omn	om
Pakistan	PAK	PK	pak	pk
Palau	PLW	PW	plw	pw
Palestine	PSE	PS	pse	ps
Panama	PAN	PA	pan	pa
Papua New Guinea	PNG	PG	png	pg
Paraguay	PRY	PY	pry	py
Peru	PER	PE	per	pe
Philippines	PHL	PH	phl	ph
Pitcairn	PCN	PN	pcn	pn
Poland	POL	PL	pol	pl
Portugal	PRT	PT	prt	pt
Puerto Rico	PRI	PR	pri	pr
Qatar	QAT	QA	qat	qa
Reunion	REU	RE	reu	re
Romania	ROU	RO	rou	ro
Russian Federation	RUS	RU	rus	ru
Rwanda	RWA	RW	rwa	rw
Saint Helena	SHN	SH	shn	sh
Saint Kitts and Nevis	KNA	KN	kna	kn
Saint Lucia	LCA	LC	lca	lc
Saint Pierre and Miquelon	SPM	PM	spm	pm
Saint Vincent and the Grenadines	VCT	VC	vct	vc
Samoa	WSM	WS	wsm	ws
San Marino	SMR	SM	smr	sm
Sao Tome and Principe	STP	ST	stp	st
Saudi Arabia	SAU	SA	sau	sa
Senegal	SEN	SN	sen	sn
Serbia	SRB	RS	srb	rs
Seychelles	SYC	SC	syc	sc
Sierra Leone	SLE	SL	sle	sl
Singapore	SGP	SG	sgp	sg
Slovakia	SVK	SK	svk	sk
Slovenia	SVN	SI	svn	si
Solomon Islands	SLB	SB	sib	sb
Somalia	SOM	SO	som	so
South Africa	ZAF	ZA	zaf	za
South Georgia and the South Sandwich Islands	SGS	GS	sgs	gs
South Korea	KOR	KR	kor	kr
Spain	ESP	ES	esp	es
Sri Lanka	LKA	LK	lka	lk
Sudan	SDN	SD	sdn	sd

Suriname	SUR	SR	sur	sr
Svalbard and Jan Mayen	SJM	SJ	sjm	sj
Swaziland	SWZ	SZ	swz	sz
Sweden	SWE	SE	swe	se
Switzerland	CHE	CH	che	ch
Syrian Arab Republic	SYR	SY	syr	sy
Taiwan	TWN	TW	twn	tw
Tajikistan	TJK	TJ	tjk	tj
Tanzania	TZA	TZ	tza	tz
Thailand	THA	TH	tha	th
Timor-Leste	TLS	TL	tls	tl
Togo	TGO	TG	tgo	tg
Tokelau	TKL	TK	tkl	tk
Tonga	TON	TO	ton	to
Trinidad and Tobago	TTO	TT	tto	tt
Tunisia	TUN	TN	tun	tn
Turkey	TUR	TR	tur	tr
Turkmenistan	TKM	TM	tkm	tm
Turks and Caicos Islands	TCA	TC	tca	tc
Tuvalu	TUV	TV	tuv	tv
Uganda	UGA	UG	uga	ug
Ukraine	UKR	UA	ukr	ua
United Arab Emirates	ARE	AE	are	ae
United Kingdom	GBR	GB	gbr	gb
United States	USA	US	usa	us
United States Minor Outlying Islands	UMI	UM	umi	um
Uruguay	URY	UY	ury	uy
Uzbekistan	UZB	UZ	uzb	uz
Vanuatu	VUT	VU	vut	vu
Vatican City State	VAT	VA	vat	va
Venezuela	VEN	VE	ven	ve
Viet Nam	VNM	VN	vnm	vn
Virgin Islands (British)	VGB	VG	vgb	vg
Virgin Islands (U.S.)	VIR	VI	vir	vi
Wallis and Futuna	WLF	WF	wlf	wf
Western Sahara	ESH	EH	esh	eh
Yemen	YEM	YE	yem	ye
Zambia	ZMB	ZM	zmb	zm
Zimbabwe	ZWE	ZW	zwe	zw
Countries names that no longer exist				
Ascension	ACX	AC	acx	ac
Burma	BUX	BU	bux	bu
Canton and Enderburry Islands	CTX	CT	ctx	ct
Czechoslovakia	CSX	CS	csx	cs
Dronning Maud Land	NQX	NQ	nqx	nq
Germany (Democratic Republic, DDR)	DDX	DD	ddx	dd
Johnston Island	JTX	JT	jtx	jt
Midway Islands	MIX	MI	mix	mi
Neutral Zone	NTX	NT	ntx	nt
Pacific Islands	PCX	PC	pcx	pc
Russia	SUX	SU	sux	su
United Nations	UNX	UN	unx	un
United States Miscellaneous Pacific Islands	PUX	PU	pux	pu
Wake Island	WKX	WK	wkx	wk
Yemen, Democratic People's Republic	YDX	YD	ydx	yd
Yugoslavia	YUX	YU	yux	yu
Zaire	ZRX	ZR	zrx	zr

Language codes

Language	3 letter code UC	2 letter code UC	3 letter code LC	2 letter code LC
Afrikaans	AFR	AF	afr	af
Albanian	ALB	SQ	alb	sq
Arabic	ARA	AR	ara	ar
Armenian	ARM	HY	arm	hy
Azerbaijani	AZE	AZ	aze	az
Basque	BAQ	EU	baq	eu
Bengali	BEN	BN	ben	bn
Bosnian	BOS	BS	bos	bs
Bulgarian	BUL	BG	bul	bg
Burmese	BUR	MY	bur	my
Belarusian	BEL	BE	bel	be
Catalan	CAT	CA	cat	ca
Chinese	CHI	ZH	chi	zh
Croatian	SCR	HR	scr	hr
Czech	CZE	CS	cze	cs
Danish	DAN	DA	dan	da
Dutch	DUT	NL	dut	nl
English	ENG	EN	eng	en
Esperanto	EPO	EO	epo	eo
Estonian	EST	ET	est	et
Finnish	FIN	FI	fin	fi
French	FRE	FR	fre	fr
Irish Gaelic	GLE	GA	gle	ga
Gallegan	GLG	GL	glg	gl
Georgian	GEO	KA	geo	ka
German	GER	DE	ger	de
Greek	GRE	EL	gre	el
Hebrew	HEB	HE	heb	he
Hindi	HIN	HI	hin	hi
Hungarian	HUN	HU	hun	hu
Icelandic	ICE	IS	ice	is
Indonesian	IND	ID	ind	id
Italian	ITA	IT	ita	it
Japanese	JPN	JA	jpn	ja
Korean	KOR	KO	kor	ko
Latvian	LAV	LV	lav	lv
Lithuanian	LIT	LT	lit	lt
Macedonian	MAC	MK	mac	mk
Malay	MAY	MS	may	ms
Maori	MAO	MI	mao	mi
Mongolian	MON	MN	mon	mn
Norwegian	NOR	NO	nor	no
Persian	PER	FA	per	fa
Polish	POL	PL	pol	pl
Polyglot	MAP	XX	map	xx
Portuguese	POR	PT	por	pt
Pushto	PUS	PS	pus	ps
Romanian	RUM	RO	rum	ro
Russian	RUS	RU	rus	ru
Scottish Gaelic	GLA	GD	gla	gd
Serbian	SCC	SR	scc	sr
Sinhalese	SIN	SI	sin	si
Slovak	SLO	SK	slo	sk
Slovene	SLV	SL	slv	sl
Spanish	SPA	ES	spa	es
Swedish	SWE	SV	swe	sv
Tagalog	TGL	TL	tgl	tl

Thai	THA	TH	tha	th
Turkish	TUR	TR	tur	tr
Ukrainian	UKR	UK	ukr	uk
Urdu	URD	UR	urd	ur
Uzbek	UZB	UZ	uzb	uz
Vietnamese	VIE	VI	vie	vi

Source types

Code	Description
b	Book
d	Trade Journal
j	Journal
k	Book Series
m	Multi-volume Reference Works
p	Conference Proceeding
r	Report

Database classifications

Type	Database collections	Description	Comment
APICLASS	APILIT	API classificationcode	
ASJC	all	All Science Journal Classification	
CABSCLASS	CABS SNCABS	CABS classification code	CABS = Current Abstracts in Biological Science; ESD database name is BIOBASE.
CPXCLASS	CPX SNCPX	Compendex Classification code	
EMCLASS	CABS CHEM EMBASE MEDL SNCHEM SNEMB	EMCLAS code	EMCLAS = EMBASE classification scheme.
GEOCLASS	GEO FLX WTA SNGEO	GEObase and Fluids Engineering Classification code	
PSXAG	PSYC	Age Group classification	
PSXAT	PSYC	Audience Type classification	
PSXCL	PSYC	Subject classification	
PSXPG	PSYC	Population Group classification	
SUBJECT	all	Source Subject Classifications	

Descriptors

Type attribute	Controlled attribute	Database collections	Description	Comment
AUD	n	APILIT	API Uncontrolled Term	
BTC	y	CABS CPX FLX GEO WTA	Biotechnology descriptor	Only used from 1995 to 2001; BTC terms are part of the EMTREE thesaurus since 2002.
CCV	y	CPX SNCPX	Compendex Descriptor	
CED	n	EST	CIS Environmental Descriptor	Not delivered to Scopus
CLU	n	CPX SNCPX	Compendex Free Language	
CMH	y	CPX SNCPX	Compendex Mainhead	
CTC	y	CPX SNCPX	Compendex Treatment code	Just a one-lettercode. Not delivered to Scopus.
DRG	y	CABS CHEM EMBASE MEDL SNCHEM SNEMB	EMTREE drug term	
ECD	n	ECON	Econlit Document type	
ECF	n	ECON	Name of Festschrift Honoree	
ECH	n	ECON	Named Person	Name of Person referred to in document who has contributed to the history of economic thought
ECK	n	ECON	Key words or phrases	
ECS	y or n	ECON	Econlit subject descriptor	
FDE	y	GEO FLX WTA SNGEO	Fluids Engineering Descriptors	
ESD	n	EST	Environmental Science Descriptor	
GDE	y	GEO FLX WTA SNGEO	GEObase Subject Index	
KWD	n	ADONIS APILIT BLETOC CABS CHEM CPX EMBASE EST FLX	Author keyword	...

		GEO MEDL SNCABS SNCHEM SNCPX SNECON SNEMB SNGEO SNMATH SNPHYS SNPSYB SNSOC WTA		
MED	y	CABS CHEM EMBASE MEDL SNCHEM SNEMB	EMTREE medical term	
MKW	n	MEDL	Medline Keyword	
MSF	n	MEDL	Medline SpaceFlightMission	
MSH	y	MEDL	Medline descriptor	Called Mesh heading in Medline.
PCV	y	CPX SNCPX	PaperChem Variable	
PSC	y	PSYC	PsycINFO content types	
PSD	y	PSYC	PsycINFO document types	
PSI	y	PSYC	PsycINFO instrumentation	Contains names of published tests and measures mentioned in the document
PSK	n	PSYC	PsycINFO key concepts or keywords	
PSM	y	PSYC	PsycINFO descriptors	Terms from the Thesaurus of Psychological Index Terms
PSS	y	PSYC	PsycINFO Supplemental material	
PUBID	y	all	Opsbank internal publisher id	For internal use only
RDT	n	FLX GEO WTA	Reprint Document Title	Only used before 1996. Not delivered to Scopus.
RGI	y or n	EST FLX GEO WTA SNGEO	Regional Index	
SPC	y	CABS EST FLX GEO WTA SNCABS SNGEO	Species index	
SPUID	y	all	Opsbank internal	For internal use only

			sourceprocunit id	
STID	y	all	Opsbank internal sourcetitle id	For internal use only
TRC	y	CABS CHEM EMBASE MEDL SNCHEM SNEMB	EMTREE code	Contains the EMTREE codes associated with medical and drug EMTREE terms (see descriptor types DRG and MED). The code is used to show the hierarchy of EMTREE terms, but it is mainly for internal use. Not delivered to Scopus.
WDE	y	FLX GEO WTA SNGEO	GEObase Subject Index for World Textile Abstracts	

All Science Journal Classification (ASJC) Codes

Code	Description
1000	Multidisciplinary
1100	Agricultural and Biological Sciences (all)
1101	Agricultural and Biological Sciences (miscellaneous)
1102	Agronomy and Crop Science
1103	Animal Science and Zoology
1104	Aquatic Science
1105	Ecology, Evolution, Behavior and Systematics
1106	Food Science
1107	Forestry
1108	Horticulture
1109	Insect Science
1110	Plant Science
1111	Soil Science
1200	Arts and Humanities (all)
1201	Arts and Humanities (miscellaneous)
1202	History
1203	Language and Linguistics
1204	Archeology (arts and humanities)
1205	Classics
1206	Conservation
1207	History and Philosophy of Science
1208	Literature and Literary Theory
1209	Museology
1210	Music
1211	Philosophy
1212	Religious Studies
1213	Visual Arts and Performing Arts
1300	Biochemistry, Genetics and Molecular Biology (all)
1301	Biochemistry, Genetics and Molecular Biology (miscellaneous)
1302	Aging
1303	Biochemistry
1304	Biophysics
1305	Biotechnology
1306	Cancer Research
1307	Cell Biology
1308	Clinical Biochemistry

1309	Developmental Biology
1310	Endocrinology
1311	Genetics
1312	Molecular Biology
1313	Molecular Medicine
1314	Physiology
1315	Structural Biology
1400	Business, Management and Accounting (all)
1401	Business, Management and Accounting (miscellaneous)
1402	Accounting
1403	Business and International Management
1404	Management Information Systems
1405	Management of Technology and Innovation
1406	Marketing
1407	Organizational Behavior and Human Resource Management
1408	Strategy and Management
1409	Tourism, Leisure and Hospitality Management
1410	Industrial Relations
1500	Chemical Engineering (all)
1501	Chemical Engineering (miscellaneous)
1502	Bioengineering
1503	Catalysis
1504	Chemical Health and Safety
1505	Colloid and Surface Chemistry
1506	Filtration and Separation
1507	Fluid Flow and Transfer Processes
1508	Process Chemistry and Technology
1600	Chemistry (all)
1601	Chemistry (miscellaneous)
1602	Analytical Chemistry
1603	Electrochemistry
1604	Inorganic Chemistry
1605	Organic Chemistry
1606	Physical and Theoretical Chemistry
1607	Spectroscopy
1700	Computer Science (all)
1701	Computer Science (miscellaneous)
1702	Artificial Intelligence
1703	Computational Theory and Mathematics
1704	Computer Graphics and Computer-Aided Design
1705	Computer Networks and Communications
1706	Computer Science Applications
1707	Computer Vision and Pattern Recognition
1708	Hardware and Architecture
1709	Human-Computer Interaction
1710	Information Systems
1711	Signal Processing
1712	Software
1800	Decision Sciences (all)
1801	Decision Sciences (miscellaneous)
1802	Information Systems and Management
1803	Management Science and Operations Research
1804	Statistics, Probability and Uncertainty
1900	Earth and Planetary Sciences (all)
1901	Earth and Planetary Sciences (miscellaneous)

1902	Atmospheric Science
1903	Computers in Earth Sciences
1904	Earth-Surface Processes
1905	Economic Geology
1906	Geochemistry and Petrology
1907	Geology
1908	Geophysics
1909	Geotechnical Engineering and Engineering Geology
1910	Oceanography
1911	Paleontology
1912	Space and Planetary Science
1913	Stratigraphy
2000	Economics, Econometrics and Finance (all)
2001	Economics, Econometrics and Finance (miscellaneous)
2002	Economics and Econometrics
2003	Finance
2100	Energy (all)
2101	Energy (miscellaneous)
2102	Energy Engineering and Power Technology
2103	Fuel Technology
2104	Nuclear Energy and Engineering
2105	Renewable Energy, Sustainability and the Environment
2200	Engineering (all)
2201	Engineering (miscellaneous)
2202	Aerospace Engineering
2203	Automotive Engineering
2204	Biomedical Engineering
2205	Civil and Structural Engineering
2206	Computational Mechanics
2207	Control and Systems Engineering
2208	Electrical and Electronic Engineering
2209	Industrial and Manufacturing Engineering
2210	Mechanical Engineering
2211	Mechanics of Materials
2212	Ocean Engineering
2213	Safety, Risk, Reliability and Quality
2214	Media Technology
2215	Building and Construction
2216	Architecture
2300	Environmental Science (all)
2301	Environmental Science (miscellaneous)
2302	Ecological Modeling
2303	Ecology
2304	Environmental Chemistry
2305	Environmental Engineering
2306	Global and Planetary Change
2307	Health, Toxicology and Mutagenesis
2308	Management, Monitoring, Policy and Law
2309	Nature and Landscape Conservation
2310	Pollution
2311	Waste Management and Disposal
2312	Water Science and Technology
2400	Immunology and Microbiology (all)
2401	Immunology and Microbiology (miscellaneous)
2402	Applied Microbiology and Biotechnology

2403	Immunology
2404	Microbiology
2405	Parasitology
2406	Virology
2500	Materials Science (all)
2501	Materials Science (miscellaneous)
2502	Biomaterials
2503	Ceramics and Composites
2504	Electronic, Optical and Magnetic Materials
2505	Materials Chemistry
2506	Metals and Alloys
2507	Polymers and Plastics
2508	Surfaces, Coatings and Films
2600	Mathematics (all)
2601	Mathematics (miscellaneous)
2602	Algebra and Number Theory
2603	Analysis
2604	Applied Mathematics
2605	Computational Mathematics
2606	Control and Optimization
2607	Discrete Mathematics and Combinatorics
2608	Geometry and Topology
2609	Logic
2610	Mathematical Physics
2611	Modeling and Simulation
2612	Numerical Analysis
2613	Statistics and Probability
2614	Theoretical Computer Science
2700	Medicine (all)
2701	Medicine (miscellaneous)
2702	Anatomy
2703	Anesthesiology and Pain Medicine
2704	Biochemistry (medical)
2705	Cardiology and Cardiovascular Medicine
2706	Critical Care and Intensive Care Medicine
2707	Complementary and Alternative Medicine
2708	Dermatology
2709	Drug Guides
2710	Embryology
2711	Emergency Medicine
2712	Endocrinology, Diabetes and Metabolism
2713	Epidemiology
2714	Family Practice
2715	Gastroenterology
2716	Genetics (clinical)
2717	Geriatrics and Gerontology
2718	Health Informatics
2719	Health Policy
2720	Hematology
2721	Hepatology
2722	Histology
2723	Immunology and Allergy
2724	Internal Medicine
2725	Infectious Diseases
2726	Microbiology (medical)

2727	Nephrology
2728	Neurology (clinical)
2729	Obstetrics and Gynecology
2730	Oncology
2731	Ophthalmology
2732	Orthopedics and Sports Medicine
2733	Otorhinolaryngology
2734	Pathology and Forensic Medicine
2735	Pediatrics, Perinatology and Child Health
2736	Pharmacology (medical)
2737	Physiology (medical)
2738	Psychiatry and Mental Health
2739	Public Health, Environmental and Occupational Health
2740	Pulmonary and Respiratory Medicine
2741	Radiology, Nuclear Medicine and Imaging
2742	Rehabilitation
2743	Reproductive Medicine
2744	Reviews and References (medical)
2745	Rheumatology
2746	Surgery
2747	Transplantation
2748	Urology
2800	Neuroscience (all)
2801	Neuroscience (miscellaneous)
2802	Behavioral Neuroscience
2803	Biological Psychiatry
2804	Cellular and Molecular Neuroscience
2805	Cognitive Neuroscience
2806	Developmental Neuroscience
2807	Endocrine and Autonomic Systems
2808	Neurology
2809	Sensory Systems
2900	Nursing (all)
2901	Nursing (miscellaneous)
2902	Advanced and Specialized Nursing
2903	Assessment and Diagnosis
2904	Care Planning
2905	Community and Home Care
2906	Critical Care Nursing
2907	Emergency Nursing
2908	Fundamentals and Skills
2909	Gerontology
2910	Issues, Ethics and Legal Aspects
2911	Leadership and Management
2912	LPN and LVN
2913	Maternity and Midwifery
2914	Medical and Surgical Nursing
2915	Nurse Assisting
2916	Nutrition and Dietetics
2917	Oncology (nursing)
2918	Pathophysiology
2919	Pediatrics
2920	Pharmacology (nursing)
2921	Psychiatric Mental Health
2922	Research and Theory

2923	Review and Exam Preparation
3000	Pharmacology, Toxicology and Pharmaceutics (all)
3001	Pharmacology, Toxicology and Pharmaceutics (miscellaneous)
3002	Drug Discovery
3003	Pharmaceutical Science
3004	Pharmacology
3005	Toxicology
3100	Physics and Astronomy (all)
3101	Physics and Astronomy (miscellaneous)
3102	Acoustics and Ultrasonics
3103	Astronomy and Astrophysics
3104	Condensed Matter Physics
3105	Instrumentation
3106	Nuclear and High Energy Physics
3107	Atomic and Molecular Physics, and Optics
3108	Radiation
3109	Statistical and Nonlinear Physics
3110	Surfaces and Interfaces
3200	Psychology (all)
3201	Psychology (miscellaneous)
3202	Applied Psychology
3203	Clinical Psychology
3204	Developmental and Educational Psychology
3205	Experimental and Cognitive Psychology
3206	Neuropsychology and Physiological Psychology
3207	Social Psychology
3300	Social Sciences (all)
3301	Social Sciences (miscellaneous)
3302	Archeology
3303	Development
3304	Education
3305	Geography, Planning and Development
3306	Health (social science)
3307	Human Factors and Ergonomics
3308	Law
3309	Library and Information Sciences
3310	Linguistics and Language
3311	Safety Research
3312	Sociology and Political Science
3313	Transportation
3314	Anthropology
3315	Communication
3316	Cultural Studies
3317	Demography
3318	Gender Studies
3319	Life-span and Life-course Studies
3320	Political Science and International Relations
3321	Public Administration
3322	Urban Studies
3400	Veterinary (all)
3401	Veterinary (miscellaneous)
3402	Equine
3403	Food Animals
3404	Small Animals
3500	Dentistry (all)

3501	Dentistry (miscellaneous)
3502	Dental Assisting
3503	Dental Hygiene
3504	Oral Surgery
3505	Orthodontics
3506	Periodontics
3600	Health Professions (all)
3601	Health Professions (miscellaneous)
3602	Chiropractics
3603	Complementary and Manual Therapy
3604	Emergency Medical Services
3605	Health Information Management
3606	Medical Assisting and Transcription
3607	Medical Laboratory Technology
3608	Medical Terminology
3609	Occupational Therapy
3610	Optometry
3611	Pharmacy
3612	Physical Therapy, Sports Therapy and Rehabilitation
3613	Podiatry
3614	Radiological and Ultrasound Technology
3615	Respiratory Care
3616	Speech and Hearing

Dates explained

Date	Explanation
<xocs:sort-year>	XFAB adds the year that is contained in the <ait:date-sort> element into the <xocs:metadata> element for easier XFAB node indexing purposes. This element is not used for web rendering or search purposes.
<xocs:pub-year>	XFAB adds the year that is contained in the <publicationyear> element into the <xocs:metadata> element for easier XFAB node indexing purposes. This element is also a refkey component. This element is not used for web rendering or search purposes.
<xocs:timestamp>	XFAB adds the timestamp for the exact time in which the record was processed and stored into XFAB. However, it is stored in the system as a java timestamp.
<ait:date-delivered year month day timestamp>	The element <ait:date-delivered> contains the date on which the record was delivered to Scopus. The timestamp attribute is added by the delivery DB for internal auditing purposes.
<ait:date-sort year month day>	Element <ait:date-sort> contains a sorting date created for the document based upon the publication date or creation date of the record. The Date column on the Scopus main document cluster Results.
<date-created year month day>	Element <date-created> contains the date that the item was created. This element is not rendered.
<publicationyear first>	Contains the year of publication of the document, as reported by the document itself.
<publicationdate><year><month>	Publication date of source.
<date-text xfab-added>	XFAB transforms the month, day, & year (for whichever components are in the data) to the textual representation.
	For example, "1 November 2002" is now searchable due to XFAB adding in this information into the <publicationdate> element. Also the Scopus app uses this element to render the publication date at the top of each record page.

	<pre><publicationdate><year>2002</year><month>11</month> <day>01</day><date-text xfab-added="true">1 November 2002</date-text></publicationdate></pre>
<date-revised>	Element date-revised is an optional repeating element containing the date(s) on which the item was revised.
Some other elements	
<pre><ait:status type="core" state="update" stage="S300" /></pre>	Core' means that it is an 'official' article in Scopus; state means that it has been updated with for instance index terms; S300 is a code for 'part of an issue' (articles in press are S200 (corrected but not in an issue)
<pre><xocs:pui>44473646</xocs: pui></pre>	ID number from the DB that delivered data to the Scopus DB
<pre><xocs:eid>2-s2.0- 33749177400</xocs:eid></pre>	Scopus unique ID