

Central Application Management, Operations

Elsevier Radarweg 29 1043 NX Amsterdam Netherlands

Phone: +31 20 485 2408 Fax: +31 20 485 3266

Email: r.schrauwen@elsevier.com

Release note of the Journal Article Input DTD JA 5.1.0

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version 0.2	14 June 2008	Final draft, with comments from SPe and RCa
version 0.3	13 August 2008	Small correction in Section 2.1 (ce:reader-see)
version 0.4	27 August 2008	Included new CRs 329 and 333 and feedback from review stage
version 1.0	31 August 2008	Final
version 1.1	12 September 2008	Final, with sponsor-id
version 1.2	18 February 2009	Final, with small corrections in Sections 2.2 and 2.3

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1 Introduction

The Journal Article Input DTD JA 5.1.0 is an update to the JA DTD 5.0.2 which has been in production since November 2007. Its implementation is expected in Q2 2009. The release comprises the following:

- the Journal Article DTD 5.1.0 (art 510.dtd);
- the Common Element Pool 1.1.5 (common115.ent), which includes the same other declarations as earlier versions of the CEP;
- a complete set containing all relevant DTD files (art510.zip);
- this release note;
- an updated *Tag by Tag*, version 1.2.

Additionally, separate implementation notes and updates of other documentation can be expected. Sample files will be made available and distributed separately.

2 Changes with respect to JA DTD 5.0.2

The following sections list the changes with respect to JA DTD 5.0.2.

2.1 Common element pool

The new JA DTD 5.1.0 uses the latest version of the common element pool, CEP 1.1.5. This implies that the journal DTD can benefit from a number of modifications that were already commonplace in the books DTDs and the serial issue DTD:

- ce:br is allowed in table cells;
- multiple captions with different roles and/or languages are supported (for journals, presently no use cases for roles are known; there are, however, known roles for the paragraphs within captions, see [3]);
- ce:source is available in figures, tables and textboxes to capture the source of the object;
- ce:indexed-name and ce:reader-see are allowed in ce:glossary.

More information about these elements can be found in the *Tag by Tag*, both the printed (green) version, the updated version v1.1 and the version that accompanies JA DTD 5.1.0, v1.2 [4, 5, 6].

2.2 Grant information (CRs 315, 321)

Following industry recommendations, the common element pool CEP 1.1.5 introduces two new elements, ce:grant-sponsor and ce:grant-number. These elements can be used in paragraph context.

Model (CEP 1.1.5)

```
<!ELEMENT ce:grant-sponsor ( %text.data; )>
<!ATTLIST ce:grant-sponsor
          id
                          ID
                                        #IMPLIED
                                       #FIXED "simple"
         xlink:type
                        (simple)
         xlink:role
                         CDATA
                                       #FIXED "http://www.elsevier.com/xml/
                                               linking-roles/grant-sponsor"
                        CDATA
         xlink:href
                                       #IMPLIED
                         CDATA
         sponsor-id
                                        #IMPLIED>
<!ELEMENT ce:grant-number ( %text.data; )>
<!ATTLIST ce:grant-number
         refid
                          IDREF
                                        #REQUIRED>
```

ce:grant-sponsor contains the name of a funding body. Its optional attribute xlink:href contains a URI that belongs to the funding body. In this respect, ce:grant-sponsor works exactly like ce:inter-ref. For more information about the xlink attributes we refer to the documentation of ce:inter-ref in the *Tag by Tag* [4, 5, 6].

The id attribute is used to link the sponsor with one or more grant numbers. The attribute sponsor—id can be used to uniquely identify the sponsor.

ce:grant-number contains a grant number. Through its attribute refid it must be linked with a grant sponsor.

The following example is taken from the documentation of the NLM DTD v2.3 [2].

XML

```
<ce:acknowledgment>
<ce:para>This work was supported by the <ce:grant-sponsor
 xlink:href="http://www.pharmafoundation.org/" id="GS1">Pharmaceutical
 Research and Manufacturers of America Foundation</re>
 the <ce:grant-sponsor xlink:href="http://www.energy.gov" id="GS2">United
 States Department of Energy</ce:grant-sponsor> Office of Science (BER)
 grant number <ce:grant-number refid="GS2">DE-FG02-04ER63803</ce:grant</pre>
  -number>, the <ce:grant-sponsor xlink:href="http://www.nih.gov"
 id="GS3">National Institutes of Health</ce:grant-sponsor>, <ce:grant
 -sponsor xlink:href="http://www.nsf.gov" id="GS4">National Science
 Foundation</re>;grant-sponsor> FIBR Award <ce:grant-number
 rid="GS4">EF-0425719</ce:grant-number>, the <ce:grant-sponsor
 xlink:href="http://www.nhlbi.nih.gov/meetings/proteomics.htm"
 id="GS5">National Heart, Lung, and Blood Proteomics Initiative</ce:grant
 -sponsor> (<ce:grant-number refid="GS5">HHSN268200248178C</ce:grant
 -number>), the Whitaker Foundation, and Cellicon Biotechnologies,
 Inc.</ce:para>
</ce:acknowledgment>
```

Instructions for tagging grant information will be included in other documentation. Authors will have to supply grant information, including URIs, and modifications to the electronic submission are planned to make it easier to obtain that information.

2.3 Multiple languages (CR 271)

The language of an article, of the alternative titles (ce:alt-title) and subtitles (ce:alt-subtitle), and of the element ce:keywords, has been expanded from just English, French, German, Portuguese, Russian and Spanish to the full list of ISO 639 [4, p. 141], [5, p. 147]. Abstracts could already take any language in the ISO 639 list.

CAP production of Italian (allowed in the Books DTDs but not yet in the JA DTDs) but also Japanese and Chinese journals was the driver for this expansion.

XML

```
<ce:alt-title xml:lang="ca">Les Etapes de l'ocupacío borbònica a
   Catalunya (1706-1713)
<article xml:lang="ja">
...
<head>
   <ce:title>大学におけるアカデミック看護実践の事業: 構造、機能、協力関係</ce:title>
```

```
<ce:alt-title xml:lang="en">Making Academic Nursing Practice Work in
Universities: Structure, Function, and Synergy/ce:alt-title>
```

Recall that the article language has an impact on the text generated by the elements ce:date-received, ce:date-revised and ce:date-accepted. Rendering applications which are not able to generate the text in the language of the article, may use an application or platform default, which will usually be English.

2.4 New publication item types (CRs 234, 274)

In JA DTD 5.1.0, the following publication item types (docsubtype) are introduced:

- chp used for chapters in book series volumes (equivalent to fla);
- cop used for an item containing the copyright information in book series volumes;
- pgl used for practice guidelines.

Additionally, in order to make it easier to produce whole-article errata for documents that are structured with the top-level elements (doctypes) book-review and exam, the publication item type err is now allowed for these doctypes. Whole-article errata are corrected versions of the original book reviews or exams, and therefore must be structured using the relevant doctypes, but require the publication item type err.

2.5 Intra-ref (CR 277)

The existing common elements ce:intra-ref and ce:intra-refs, present in the Common Element Pool, were not accessible in the JA DTDs 5.0.1 and 5.0.2 because of a redefinition of the parameter entities %cross-ref and %cross-refs. In journal issues, especially special issues, and in book series volumes there is an increased need to make cross-references between articles and between objects within those articles. The element ce:inter-ref is less appropriate, as in practice this element has been interpreted as a hyperlink "out" of the application while ce:intra-ref makes sure the user remains within the application.

In JA DTD 5.1.0 PII-based intra-refs can be used.

The expected behaviour of a ce:intra-ref is similar to the behaviour of ce:cross-ref within an item. If the destination PII does not exist within the application's database, this is not an error condition; in this case the content of the element should not be turned into a hyperlink.

In practice, the Vtool will limit the scope of ce:intra-ref to a journal issue or a book. In the case of articles in press, the destination's existence is not guaranteed.

ce:intra-ref and ce:intra-refs must not be used to link to destinations within the same article. In the following examples we therefore assume that the links are from one item to another.

XML

```
See <ce:intra-ref xlink:href="pii:S0004-3702(02)00193-5">the article by Smith et al.</ce:intra-ref> in this issue.
```

XML

```
For more detail we refer to <ce:intra-ref xlink:href= "pii:S0004-3702(02)00193-5#tbl3">Table 3 in Chapter 8</ce:intra-ref>.
```

The more complicated element ce:intra-refs is similar to ce:cross-refs, each of the ce:intra-ref-end elements works exactly like ce:intra-ref.

XML

```
<ce:intra-refs>
  <ce:intra-refs-text>Figs. 1 and 2 in Chapter 2</ce:intra-refs-text>
  <ce:intra-ref-end xlink:href="pii:S0167-8396(00)00009-1#fig1">
        <ce:intra-ref-title>Fig. 1</ce:intra-ref-title>
        </ce:intra-ref-end>
        <ce:intra-ref-end xlink:href="pii:S0167-8396(00)00009-1#fig2">
             <ce:intra-ref-end xlink:href="pii:S0167-8396(00)00009-1#fig2">
              <ce:intra-ref-title>Fig. 2</ce:intra-ref-title>
        </ce:intra-ref-end>
        <ce:intra-refs-link/>
</ce:intra-refs>
```

Explanation

In print and in the web PDF, ce:intra-refs-text is displayed. In online applications, it is suggested to display this as follows:

```
Figs. 1 and 2 in Chapter 2 [Fig. 1] [Fig. 2]
```

The links, taken from the ce:intra-ref-title elements, would not appear if the destinations are not available within the realm of the online application.

For more information about ce:intra-ref and ce:intra-refs please refer to the *Tag* by *Tag* [4, 5, 6].

With the introduction of CEP 1.1.5, the inter-ref scheme "pii" and the intra-ref scheme "doi", which according to the documentation were allowed but not in use, are deprecated. "pii" is now exclusively used in ce:intra-ref and "doi" exclusively in ce:inter-ref.

2.6 Biographies and glossaries (CRs 240, 333)

The existing, well-known common elements ce:glossary and ce:biography are added to simple-tail, to enable author biographies in items such as book reviews and glossaries in items such as editorials.

2.7 Chapter labels (CR 308)

In book series volumes, in addition to the item title, the item may possess a designation like "Chapter 7". This is neither a ce:dochead nor a part of ce:title (to which, as a workaround, the chapter number was often added despite its different nature and presentation).

Similar to the book DTDs, the element ce:label is added before ce:title in head, simple-head and book-review-head.

In tables of contents, the label should be rendered together with the title.

XML

```
<head>
  <ce:label>Chapter 7</ce:label>
  <ce:title>The evolution of the scoring system for NBPTS
    assessments</ce:title>
</head>
```

2.8 E-components (CR 329)

To allow the user to specify the role of an electronic component, the element ce:e-component now has a role attribute. One use case of this role attribute are editorial videos on Cell.com which need different treatment from general e-components.

Remark. Roles can be added at any time; recipients of content should ignore roles that are new to them. The currently valid roles are described in [3]. Most roles have a very specific use case and are not supported by the majority of users of our XML files. In the next version of the Common Element pool, more elements will be furnished with role and view attributes.

References

- [1] Change request list, available on Elsevier's Intranet through: http://nonsolus/cap/crlists/dtd.htm
- [2] Documentation of the NLM Journal Publishing DTD version 2.3, March 2007, http://dtd.nlm.nih.gov/publishing/tag-library/2.3/index.html
- [3] Implementation note: Roles in JA DTD 5.0 and SI DTD 5.1, http://nonsolus/DTD/hawaii50/rs200409.pdf (internal), http://cap-extranet.elsevier.com/C5/DTD/DTD5%20Additional%20Information/rs200409.pdf (external).
- [4] Tag by Tag (print), Documentation of the Elsevier DTDs, March 2005.
- [5] Tag by Tag (online), v1.1pl1, incorporating the latest changes and errata prior to JA 5.1.0 and CEP 1.1.5, http://nonsolus/DTD/hawaii50/tagbytag5-v1.1.pdf (internal), http://cap-extranet.elsevier.com/C5/DTD/DTD5%20Additional%20Information/tagbytag5-v1.1.pdf (external), http://www.elsevier.com/locate/xml (public), April 2007.
- [6] Tag by Tag (online), v1.2 , incorporating JA 5.1.0 and CEP 1.1.5, http://nonsolus/DTD/hawaii50/tagbytag5-v1.2.pdf (internal), http://cap-extranet.elsevier.com/C5/DTD/DTD5%20Additional%20Information/tagbytag5-v1.2.pdf (external), http://www.elsevier.com/locate/xml (public), September 2007.

Support

The Elsevier DTDs and schemas are developed by the DTD Maintenance & Development Team, who are happy to answer queries about the new DTD. For this release, please contact Rob Schrauwen (mailto:r.schrauwen@elsevier.com), Simon Pepping (mailto:s.pepping@elsevier.com) or Jos Migchielsen (mailto:j.migchielsen@elsevier.com).