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Release note of the Journal Article Input DTD JA 5.1.0

relnote510 — version 0.2, 14 June 2008, by Rob Schrauwen

version 0.1	10 June 2008	Draft
version 0.2	14 June 2008	Final draft, with comments from SPe and RCa

Contents

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.

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;
- `ce:source` is available in figures, tables and textboxes to capture the source of the object;
- `ce:indexed-name` is allowed in `ce:glossary`.

More information about these elements can be found in the *Tag by Tag*, both the printed (green) version and the updated version v1.1 [3, 4].

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
           xlink:type         (simple)       #FIXED "simple"
           xlink:role         CDATA          #FIXED "http://www.elsevier.com/xml/
                                                     linking-roles/grant-sponsor"
           xlink:href         CDATA          #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* [3, 4].

The `id` attribute is used to link the sponsor with one or more grant numbers.

`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:simple-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</ce:grant-sponsor>,
  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-
  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</ce: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:simple-para>
```

```
</ce:acknowledgment>
```

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 [3, p. 141], [4, 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'ocupació borbònica a
  Catalunya (1706-1713)</ce:alt-title>

<article xml:lang="jp">
...
<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 patient guidelines.

Additionally, in order to make it easier to produce errata for documents utilizing the top-level elements `book-review` and `exam`, the publication item type `err` has been added.

2.5 *Intra-ref (CR 277)*

The existing common elements `ce:intra-ref` and `ce:intra-refs` were not accessible in the JA DTDs 5.0.1 and 5.0.2. 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.

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.

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-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.

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 will not be guaranteed.

For more information about ce:intra-ref and ce:intra-refs please refer to the *Tag by Tag* [3, 4].

With the introduction of CEP 1.1.5, the inter-ref scheme "pii" and the intra-ref scheme "doi" are deprecated. This means that rendering applications do not have to examine the linking scheme to decide whether the hyperlink should be regarded as "internal" or "external".

2.6 Biographies (CR 240)

The well-known common element `ce:biography` is added to `simple-tail`, to enable author biographies in items such as book reviews.

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>
```

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] *Tag by Tag (print)*, Documentation of the Elsevier DTDs, March 2005.

[4] *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://www.elsevier.com/locate/xml` (external), April 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`.