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Elsevier book DTD v5.3 – Release Note

530_book_rel_note.doc — by Bill Bernickus

version 0.1	06 February 2009	1 st draft by BBe
version 0.2	20 February 2009	Begin adding CEP changes
version 0.3	19 March 2009	Scope of changes become more firm, just MRWs in XML
version 0.4	15 April 2009	Comments from RSc
version 0.5	02 June 2009	ce:biography to chapter and simple-chapter for MRWs
version 1.0	09 October 2009	body now repeatable for MRWs, minor change to chapters
version 1.1	30 November 2009	Minor change to subchapter to fix an ambiguity problem
version 1.2	16 December 2009	DTD finalized after minor change to CEP116.ent

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1. Introduction

This document is intended as the release note for the Elsevier book DTD v5.3. The purpose of this DTD version is to augment Elsevier XML Book DTD v5.2.1 slightly to enable it also handle Major Reference Works (MRWs)¹. Some other minor/helpful CRs are also included.

The more sweeping book DTD changes (ex: adding %titles; – subtitles and alternate language titles – to each book item and a proper solution for book section title icons) will be held until version 5.4, which will not be considered until after XOCS (XML Online Content System) has been implemented at ScienceDirect (SD).

At some point, it would seem useful to get all of the stand-alone books (STABs)² and MRWs switched to version 5.3 of the DTD³. To be able to do so would mean a small implementation at both MDConsult and SD to upgrade from version 5.2.1. A decision about this will be taken at a later date. This version of the DTD will be used initially only for major reference works after the release of SD's new online repository (XOCS).

2. Changes to Elsevier book DTD

- 1) Call in latest version of CEP (common116.ent).
- 2) Created new parameter entity %docsubtype-book; with values of “bk”, “mrw”, and “dct” for use as top-level identifiers for Books, Major Reference Works, and Dictionaries.
- 3) Changed the allowed languages in top-level attributes to %iso639;

- 4) Also added value of “cop” to parameter entity % docsubtype for copyright pages as items; also removed “bk”, see above.
- 5) This role attribute is used to distinguish between the two types of MRWs: encyclopedias (role=”enc”) and comprehensives (role=”com”).
- 6) Added part element to content model of part to allow parts to be nested within themselves; this is a requirement for MRWs.
- 7) Added optional ce:abstract to chapter and simple-chapter; this is a requirement for MRWs.
- 8) Added ce:miscellaneous to element chapter and simple-chapter.
- 9) Made references optional in subchapter.
- 10) Added optional ID attribute to element poem.
- 11) Added optional ID attribute and optional ROLE attribute to element exam; this is helpful for many HS books.
- 12) Added ce:keywords to element chapter.
- 13) Added ce:title to content models of bibliography; title hierarchy is as follows:

ce:title within bibliography has the weight of an item (chapter) title;
ce:section-title within ce:further-reading within bibliography has the weight of a first-order heading;
ce:section-title within ce:further-reading-sec within ce:further-reading within bibliography had the weight of a second-order heading.
- 14) Added ce:title to content models of glossary; title hierarchy is as follows:

ce:title within glossary has the weight of an item (chapter) title;
ce:section-title within ce:glossary within glossary has the weight of a first-order heading;
ce:section-title within ce:glossary-sec within ce:glossary within glossary had the weight of a second-order heading.
- 15) Added ce:title to content models of index; title hierarchy is as follows:

ce:title within index has the weight of an item (chapter) title;
ce:section-title within ce:index within index has the weight of a first-order heading;
ce:section-title within ce:index-sec within ce:index within index had the weight of a second-order heading.

- 16) Added `ce:biography` to end of content models for chapter and simple-chapter to allow for MRW item authors.
- 17) Changed occurrence indicator on element body from required to required/repeatable +.
- 18) Changed content models for elements chapter and simple-chapter from + to * as from:
`((ce:bibliography | ce:further-reading)+, (ce:section | exam | ce:biography)*)?)>`
to
`((ce:bibliography | ce:further-reading)*, (ce:section | exam | ce:biography)*)?)>`
- 19) Changed content model of subchapter to the following to fix an ambiguity problem:
`<!ELEMENT subchapter(ce:footnote*, ce:label?, ce:title, ce:author-group*, ce:displayed-quote?, ce:nomenclature?, ce:acknowledgment?, ce:intro?, (ce:sections | subchapter | exam)+, (((ce:bibliography | ce:further-reading)+ | ce:section), (ce:section | exam)*)?)>`

3. Changes to the Common Element Pool (cep116.ent)

- 1) Added **%common-role.att**; to the following elements: `ce:refers-to-document`, `ce:article-footnote`, `ce:author-group`, `ce:dedication`, `ce:editors`, `ce:abstract-sec`, `ce:nomenclature`, `ce:note-para`, `ce:intro`, `ce:stereochem`, `ce:acknowledgment`, `ce:bib-reference`, `ce:miscellaneous`, `ce:biography`, `ce:footnote`, `ce:list`, `ce:def-list`, `ce:source`, `ce:figure`, `ce:table`, `ce:table-footnote`
- 2) Added **%common-view.att**; to the following elements: `ce:abstract`, `ce:abstract-sec`, `ce:keywords`, `ce:stereochem`, `ce:nomenclature`, `ce:note-para`, `ce:intro`, `ce:acknowledgment`, `ce:bibliography-sec`, `ce:further-reading-sec`, `ce:glossary-sec`, `ce:index-sec`
- 3) Added **%common-optref-link.att**; to the following elements: `entry`, `row`, `ce:abstract-sec`, `ce:stereochem`, `ce:nomenclature`, `ce:intro`, `ce:caption`, `ce:source`
- 4) Made element `ce:section-title` optional in content models of `ce:index`, `ce:glossary`, and `ce:further-reading`; see Section 2, Item 12 above.
- 5) Changed the content model of `ce:author-group` to include `ce:text`. This is a simple solution to allow text to be inserted between authors (a more advanced solution is among the changes deferred to version 5.4, cf. section 1). Examples:

```
<ce:author-group>
  <ce:author>
    <ce:given-name>William J.</ce:given-name>
    <ce:surname>Bernickus</ce:surname>
  </ce:author>
  <ce:text>on behalf of</ce:text>
  <ce:collaboration>
    <ce:text>DMT Collaboration</ce:text>
  </ce:collaboration>
</ce:author-group>

<ce:editors>
```

```
<ce:author-group>  
  <ce:text>Edited by</ce:text>  
  <ce:author>...</ce:author>  
</ce:author-group>  
</ce:editors>
```

- 6) The content model of ce:glossary def was changed to allow for cross-references within its content. This functionality was present in MRW DTD v1.3.

4. References

- [1] [Existing specifications for MRWs done using SGML DTD4 and CONTRAST](#)
- [2] [Existing specifications for Elsevier stand-alone books \(STAB\) on SD](#)
- [3] [MRW CAP Guide using DTDv5.3](#)