The DocBook Publishers Schema Version 1.1

Working Draft

16 March 2013

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Additional artifacts:
This prose specification is one component of a Work Product which also includes:

* XML Schemas

Related work:
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[**DocBookPub-v1.0**] *The DocBook Publishers Schema*. 27 August 2010. OASIS Committee Specification 01. http://docs.oasis-open.org/docbook/specs/publishers-1.0-spec-cs-01.html.

This specification is related to:

[**DocBook-v5.1**] *The DocBook Schema Version 5.1*. OASIS Committee Specification 01. http://docs.oasis-open.org/docbook/specs/docbook-5.1-spec-os.html.

Declared XML namespaces:
    http://docbook.org/ns/docbook

Abstract:
    For more than a decade, DocBook has provided a structured markup vocabulary for hardware and software documentation. DocBook is now widely used in both commercial and Open Source environments. DocBook has a very broad element set, and applies to much more than just technical documentation. The DocBook TC is engaged in evolving the suite of DocBook specifications. The community benefits from having a standard, open, interchangeable vocabulary in which to write structured content. DocBook has been, and will continue to be, designed to satisfy this requirement.

    The OASIS DocBook Sub Committee for Publishers is chartered to develop and maintain official variants of DocBook in support of the publishing industry. Specifically, the subcommittee will focus on schema and stylesheet customizations to support: periodicals as regularly published technical notes or journals, book publishing (such as business, legal, medical, and other non-technical domains), educational textbooks, and other document types as appropriate for this industry.

    The DocBook Publishers Schema is based on [**DocBook-v5.1**] and delivered in the normative RelaxNG Schema format. A DTD version will also be made available.

Status:

This Working Draft (WD) has been produced by one or more TC Members; it has not yet been voted on by the TC or approved as a Committee Draft (Committee Specification Draft or a Committee Note Draft). The OASIS document Approval Process begins officially with a TC vote to approve a WD as a Committee Draft. A TC may approve a Working Draft, revise it, and re-approve it any number of times as a Committee Draft.

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[**DocBookPub-v1.1**] *The DocBook Publishers Schema Version 1.1.* 16 March 2013. OASIS Committee Specification Draft wd01. *http://docs.oasis-open.org/docbook/publishers/publishers.html.*

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1 Introduction

For more than a decade, DocBook has provided a structured markup vocabulary for hardware and software documentation. DocBook is now widely used in both commercial and Open Source environments. DocBook has a very broad element set and applies to much more than just technical documentation. The DocBook TC is engaged in evolving the suite of DocBook specifications. The community benefits from having a standard, open, interchangeable vocabulary in which to write structured content. DocBook has been, and will continue to be, designed to satisfy this requirement.

The OASIS DocBook Sub Committee for Publishers is chartered to develop and maintain official variants of DocBook in support of the publishing industry. Specifically, the subcommittee will focus on schema and stylesheet customizations to support: periodicals as regularly published technical notes or journals, book publishing (such as business, legal, medical, and other non-technical domains), educational textbooks, and other document types as appropriate for this industry.

The DocBook Publishers subcommittee [mailto:docbook-publishers@lists.oasis-open.org] maintains the DocBook Publishers schema. Based on [**DocBook-v5.1**], the DocBook Publishers schema is normatively available as a [**RELAX NG**] Schema (with some additional Schematron assertions). A DTD version will also be made available, but is not the normative format.

The DocBook Technical Committee welcomes bug reports and requests for enhancement (RFEs) from the user community. The current list of outstanding requests is available through the SourceForge tracker [https://sourceforge.net/tracker/?group_id=21935&atid=1037852] interface. This is also the preferred mechanism for submitting new requests.

The DocBook Publishers Schema v1.1 addresses the following requests for enhancement:

- RFE 3168755 [https://sourceforge.net/tracker/?func=detail&aid=3168755&group_id=21935&atid=1037852]: Epigraphs should allow poetry

- RFE 3519024 [https://sourceforge.net/tracker/?func=detail&aid=3519024&group_id=21935&atid=1037852]: Add admonitions to Publishers

- RFE 3292583 [https://sourceforge.net/tracker/?func=detail&aid=3292583&group_id=21935&atid=1037852]: Include mechanisms for table accessibility

- RFE 3560731 [https://sourceforge.net/tracker/?func=detail&aid=3560731&group_id=21935&atid=1037852]: Add stage direction markup

1.1 Terminology

1.1.1 Key words

The key words *must*, *must not*, *required*, *shall*, *shall not*, *should*, *should not*, *recommended*, *may*, and *optional* are to be interpreted as described in [**RFC 2119**]. Note that for reasons of style, these words are not capitalized in this document.

1.2 Normative References

[**DocBookPub-v1.0**] *The DocBook Publishers Schema* 27 August 2010. OASIS Committee Specification 01. *http://docs.oasis-open.org/docbook/specs/publishers-1.0-spec-cs-01.html*

[**DocBook-v5.1**] *The DocBook Schema Version 5.1* TBD OASIS Committee Specification 01 *http://docs.oasis-open.org/docbook/specs/docbook-5.1-spec-os.html*

[**DocBook:TDG5.1**] *DocBook 5.1: The Definitive Guide* 26 December 2012 Norman Walsh, RichardHamilton. *http://docbook.org/tdg51/en/*

[**RELAX NG**] *RELAX NG Specification* 3 December 2001 OASIS Committee Specification *http://relaxng.org/spec-20011203.html*

[**RELAX NG Compact Syntax**] *RELAX NG Compact Syntax* 21 November 2002 OASIS Committee Specification *http://relaxng.org/compact-20021121.html*

[**XML**] *Extensible Markup Language (XML) 1.0 (Fourth Edition)* 16 August 2006 World Wide Web Consortium *http://www.w3.org/TR/REC-xml*

[**XLink11**] *XML Linking Language (XLink) Version 1.1* 2005 World Wide Web Consortium *http://www.w3.org/TR/xlink11*

[**RFC 2119**] *Key words for use in RFCs to Indicate Requirement Levels*, March 1997. S. Bradner. IETF (Internet Engineering Task Force) RFC 2119, *http://www.ietf.org/rfc/rfc2119.txt*

[**RFC 3023**] *XML Media Types*, 2001. M. Murata, S. St. Laurent, D. Kohn. IETF (Internet Engineering Task Force) RFC 3023, *http://www.ietf.org/rfc/rfc3023.txt*

[**DCMI Metadata Terms**] *DCMI Metadata Terms (DCMI Recommendation)* 14 January 2008 Dublin Core Metadata Initiative. All Rights Reserved. http://www.dublincore.org/about/copyright. *http://dublincore.org/documents/dcmi-terms/*

1.3 Non-Normative References

[**SGML**] *ISO 8879:1986 Information processing -- Text and office systems -- Standard Generalized Markup Language (SGML)* 1986 JTC 1, SC 34

[**W3C XML Schema**] *XML Schema Part 1: Structures* 2000 World Wide Web Consortium *http://www.w3.org/TR/xmlschema-1/*.

[**W3C XML Datatypes**] *XML Schema Part 2: Datatypes* 2000 World Wide Web Consortium *http://www.w3.org/TR/xmlschema-2/*.

[**Schematron**] *The Schematron Assertion Language 1.6* 2002-10-01 Rick Jelliffe Rick Jelliffe and Academia Sinica Computing Centre *http://www.ascc.net/xml/resource/schematron/Schematron2000.html*.

2 The DocBook Publishers RELAX NG Schema

The DocBook Publishers RELAX NG Schema [http://docs.oasis-open.org/docbook/rng/] is distributed from the DocBook site [http://www.oasis-open.org/docbook/] at OASIS [http://www.oasis-open.org/]. DocBook is also available from the mirror on http://docbook.org [http://docbook.org/].

This subcommittee will submit additional enhancements back to the full DocBook standard as appropriate. The scope of this DocBook Publishers schema is publishing industry content. Broadly, this includes books, journals and other related publications. The DocBook Publishers schema has been written as a native RELAX NG grammar, based on [**DocBook-v5.1**]. This effort delivers on the following goals:

1. Build an official DocBook variant, based against the [**DocBook-v5.1**] schemas.

2. Address issues and enhancement requests that have arisen from experience with real-world DocBook implementations.

3. Add support for features specific to the publishing industry.

3 Changes to the DocBook Publishers schema v1.1

This version of the DocBook Publishers schema includes the following content model changes to [**DocBook-Pub-v1.0**] and Core DocBook. These are considered "official customizations".

3.1 Epigraphs allow poetry

Poetry is a common component of epigraphs in trade and academic publishing. The DocBook Publishers schema will allow poetry in epigraph.

The content model for epigraph will be overridden as follows:

```
db.epigraph =
    element epigraph {
       db.epigraph.attlist,
       db.epigraph.info,
       db.attribution?,
       (db.para.blocks | db.literallayout | db.extension.blocks)+
    }
```

3.2 Allow admonitions

The admonitions group was removed from the initial DocBook Publishers specification. Vocational textbook publishers have responded that admonitions are used fairly extensively. Admonistions should be allowed to avoid the workarounds that have been required so far (using sidebars with role attributes).

```
include "../../docbook/src/admonitions.rnc"
```

3.3 Stage Directions

The DocBook Publishers schema supports dramatic markup, but there is no support for semantic markup of stage directions. the following elements have been added and allow the standard set of inlines:

1. Add stagedir to drama, linegroup to provide block level stage directions (between the speeches, lines, etc).

2. Add inlinestagedir to provide inline stage direction markup.

Content model:

```
div {
db.stagedir.attlist = db.common.attributes
db.stagedir.content = (db.para+)
db.stagedir =
## A stage direction.
element db:stagedir {db.stagedir.attlist, db.stagedir.content }
```

```
}

div {
db.inlinestagedir.attlist = db.common.attributes
db.inlinestagedir.content = (db.all.inlines+)
db.inlinestagedir =
## inline stage direction.
element db:inlinestagedir {db.inlinestagedir.attlist, db.inlinestagedir.content }
}

div {
  db.line.role.attribute = attribute role { text }
  db.line.attlist =
    db.line.role.attribute?
    & db.common.attributes
    & db.common.linking.attributes
  db.line =
    ## A line of dialogue or other form of communication.
    element line { db.line.attlist, (db.inlinestagedir | db.all.inlines | text)+ }
}

div {
  db.linegroup.role.attribute = attribute role { text }
  db.linegroup.attlist =
    db.linegroup.role.attribute?
    & db.common.attributes
    & db.common.linking.attributes
  db.linegroup =
    ## A grouping of lines in dialogue or other form of communication.
    element linegroup {
      db.linegroup.attlist, db.speaker*, (db.stagedir | db.line | db.all.blocks)+
    }
}

div {
  db.drama =
    ## A container for plays and other forms of dramatic presentation.
    element drama {
      db.drama.attlist,
      db.drama.info?,
      (db.stagedir | db.mediaobject | db.linegroup | db.line | db.all.blocks)+
    }
  db.drama.info = db._info.title.only
  db.drama.role.attribute = attribute role { text }
  db.drama.attlist =
    db.drama.role.attribute?
    & db.common.attributes
    & db.common.linking.attributes
}
```

3.4 Table Accessibility

In order to enhance accessibility for screen readers, the following changes have been made to the DocBook table model for [**DocBook-v5.1**] (and associated schemas):

1. Add rowheader to the colspec element. Indicates whether or not the entries in the respective column should be considered row headers.

   Content model:

   ```
   db.rowheader.attribute =
     ## Indicates whether or not the entries in the first column should be considered row headers
    attribute rowheader {
     ## Indicates that entries in the first column of the table are functionally row headers (analogous to the way that a the
       "firstcol" |
     ## Indicates that entries of a column described via colspec are functionally row headers (for cases with more than on
       "headers" |
     ## Indicates that entries in the first column have no special significance with respect to column headers.
       "norowheader"
    }

    db.colspec.attlist =
     db.colspec.role.attribute?
     & db.common.attributes
     & db.common.linking.attributes
     & db.colspec.colnum.attribute?
     & db.char.attribute?
     & db.colsep.attribute?
     & db.colspec.colwidth.attribute?
     & db.charoff.attribute?
     & db.colname.attribute?
     & db.rowsep.attribute?
     & db.align.attribute?
     & db.rowheader.attribute?
   ```

2. Allow scope attribute on entry. The scope attribute can contain one of "row" or "col" or "rowgroup" or "colgroup", as defined in [**DocBook-v5.1**].

   Content model:

   ```
   db.entry.scope.attribute =
       ## Specifies the scope of a header.
       attribute scope {
         ## Applies to the row
         "row"
         |
           ## Applies to the column
           "col"
         |
           ## Applies to the row group
           "rowgroup"
         |
           ## Applies to the column group
   ```

```
    "colgroup"
  }
```

3. Allow headers attribute on entry. Identifies one or more entry elements that apply to its entry. The headers attribute contains an unordered set of unique space-separated tokens, each of which is an ID reference.

Example content markup:

```
<thead>
  <row>
     <entry></entry>
     <entry xml:id="date1">12/12/2005</entry>
     <entry xml:id="date2">12/19/2005</entry>
      <entry xml:id="date3">12/26/2005</entry>
  </row>
</thead>
<tbody>
<row>
   <entry xml:id="prog">Prognosis</entry>
   <entry headers="date1 prog">8,000</entry>
   <entry headers="date2 prog">7,000</entry>
   <entry headers="date3 prog">6,000</entry>
</row>
<row>
   <entry xml:id="act">Actual</entry>
   <entry headers="date1 act">11,123.45</entry>
   <entry headers="date2 act">11,012.34</entry>
   <entry headers="date3 act">10,987.64</entry>
</row>
</tbody>
```

Content model:

```
db.entry.headers.attribute =
   ## Specifies the entry or entries which serve as headers for this element.
   attribute headers { xsd:IDREFS }
 db.entry.attlist =
   db.entry.role.attribute?
   & db.common.attributes
   & db.common.linking.attributes
   & db.valign.attribute?
   & db.char.attribute?
   & db.colsep.attribute?
   & db.charoff.attribute?
   & db.entry.morerows.attribute?
   & db.column-spec.attributes?
   & db.rowsep.attribute?
   & db.entry.rotate.attribute?
   & db.align.attribute?
   & db.entry.scope.attribute?
   & db.entry.headers.attribute?
```

4. Since there is no @summary in CALS, the table's summary should be allowed in a caption. Ensure that caption is allowed within table.

Content model:

```
element table {
    db.cals.table.attlist,
    db.cals.table.info,
    (db.alt? & db.indexing.inlines* & db.textobject*),
    (db.mediaobject+ | db.tgroup+),
    db.caption?
  }
```

This change is informed by the following resources:

- http://www.w3.org/html/wg/wiki/IssueTableHeaders

- W3C HTML5 editor's draft (26 June 2012) scope: http://dev.w3.org/html5/spec/the-th-element.html#the-th-element

- W3C HTML5 editor's draft (26 June 2012) headers: http://dev.w3.org/html5/spec/attributes-common-to-td-and-th-elements.html

- Techniques for WCAG2.0: http://www.w3.org/TR/WCAG20-TECHS/H43.html

- W3C research on complex tables: http://www.w3.org/html/wg/wiki/ComplexTables

- WebAim Guide for accessible data tables: http://webaim.org/techniques/tables/data

Additional examples and guidance for Table Accessibility are provided in the appendix.

4 Conformance

The DocBook Publishers schema is a valid [**DocBook-v5.1**] variant. Publications or documents shall be considered conformant to this specification if they validate against the DocBook Publishers schema (publishers.rnc or publishers.rng).

For purposes of naming and versioning, documents conformant to this specification shall identify themselves using the *version="5.1-variant publishers-1.1"* identifier, as described in http://www.docbook.org/docs/how-to/#cust-naming.

Extensions allow implementers to include features that are in demand by their customers. Also, extensions, often times, define new features that may migrate into future versions of this specification. However, the use of extensions can have a severe negative impact on interoperability.

Any extensions to this schema shall follow the principles and guidelines of the [**DocBook-v5.1**] and this Publishers specification; that is, the specifications shall be extended in a standard manner as described in http://docbook.org/tdg5/en/html/ch05.html.

For implementations and/or applications that contain extensions, those extensions shall be clearly described in supporting documentation, and the extensions shall be marked as such within the implementation/application.

This document's normative language is English. Translation into other languages is permitted.

Appendix A Acknowledgements (Non-Normative)

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

Participants

- Nic Gibson, Individual
- Dick Hamilton, Individual
- Scott Hudson, Pelco by Schneider Electric (DocBook Publishers SC Chair, Editor)
- Nathalie Sequeira, Individual
- Norman Walsh, Mark Logic Corporation (DocBook TC Chair)

Appendix B Revision History (Non-Normative)

Revision 0.4   25 March 2013   sch
Added stagedir and inlinestagedir elements.

- RFE 3560731 [https://sourceforge.net/tracker/?func=detail&aid=3560731&group_id=21935&atid=1037852]: Add stage direction markup

Revision 0.3   6 March 2013   sch
Incorporated feedback from Dick Hamilton. Simplified description for rowheader.
Revision 0.2   22 February 2013   sch
Incorporated feedback and better table accessibility examples from Nathalie Sequeira.
Revision 0.1   20 February 2013   sch
Fixed the following RFEs:

- RFE 3168755 [https://sourceforge.net/tracker/?func=detail&aid=3168755&group_id=21935&atid=1037852]: Epigraphs should allow poetry

- RFE 3519024 [https://sourceforge.net/tracker/?func=detail&aid=3519024&group_id=21935&atid=1037852]: Add admonitions to Publishers

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