The DocBook Schema Version 5.0.1

Committee Specification 01

07 November 2018

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Additional artifacts:
This prose specification is one component of a Work Product that also includes:
- Relax NG schemas: http://docs.oasis-open.org/docbook/docbook/v5.0.1/cs01/schemas/rng/
- Schematron schema: http://docs.oasis-open.org/docbook/docbook/v5.0.1/cs01/schemas/sch/
- DTD schema: http://docs.oasis-open.org/docbook/docbook/v5.0.1/cs01/schemas/dtd/
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Related work:
This specification replaces or supersedes:

Note that *The DocBook Schema Version 5.0* has been superseded by:
Abstract:
The Schematron rules changed after DocBook 5.0 was released, so some Schematron tools do not work with DocBook 5.0. The DocBook 5.0.1 spec is updated with the new Schematron rules so users can continue using DocBook 5.0 if they need to use newer Schematron tools.

Status:
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When referencing this specification the following citation format should be used:

[DocBook-v5.0.1]
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1 Introduction

DocBook is a general purpose XML schema particularly well suited to books and papers about computer hardware and software (although it is by no means limited to these applications).


After [DocBook 5.0] was released as an OASIS Committee Standard in 2009, the Schematron standard was changed. After various tools that work with Schematron were updated, the DocBook 5.0 schema would no longer parse without error because it did not conform to the new Schematron syntax.

DocBook Version 5.0.1 is a minor update of DocBook 5.0 to bring its Schematron rules into conformance with the latest version of Schematron. No changes were made to DocBook elements, attributes, or content models. So any document that conformed to DocBook 5.0 will still conform to DocBook 5.0.1. This will allow users of DocBook 5.0 to make use of updated Schematron rules without having to upgrade their documents to DocBook Version 5.1 [DocBook-5.1].

This document describes only the changes that were made to DocBook Version 5.0 to bring it into conformance with the new Schematron version. For other information about DocBook Version 5.0 and how it differs from previous versions, see the OASIS Standards document for [DocBook-5.0].

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1.2 Terminology

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119] and [RFC8174] when, and only when, they appear in all capitals, as shown here.

1.3 Normative References


1.4 Non-Normative References

2 Schematron rule change

The DocBook 5.0 [DocBook-5.0] RelaxNG schema utilized embedded Schematron [Schematron2006] assertions to express certain constraints that cannot be expressed in RelaxNG syntax. After DocBook 5.0 was released, a new version of Schematron [Schematron2016] was released that made two changes that affected DocBook 5.0. The two changes were:

1. The updated standard Schematron syntax replaced the @name attribute with an <s:title> element that serves the same purpose.

2. The Schematron namespace was changed from "http://www.ascc.net/xml/schematron" to "http://purl.oclc.org/dsdl/schematron".

The result of these changes was that the DocBook 5.0 RelaxNG schema no longer parsed properly with updated Schematron validators.

2.1 Replace @name with <s:title>

In DocBook 5.0.1, every instance of the DocBook Schematron patterns that used @name has been updated in DocBook 5.0.1 to use an <s:title> element instead.

For example, the original syntax for this pattern:

```xml
<s:pattern name="Cardinality of segments and titles">
  <s:rule context="db:seglistitem">
    <s:assert test="count(db:seg) = count(../db:segtitle)">
The number of seg elements must be the same as the number of segtitle elements in the parent segmentedlist</s:assert>
  </s:rule>
</s:pattern>
```

was replaced with (changes highlighted in boldface):

```xml
<s:pattern>
  <s:title>Cardinality of segments and titles</s:title>
  <s:rule context="db:seglistitem">
    <s:assert test="count(db:seg) = count(../db:segtitle)">
The number of seg elements must be the same as the number of segtitle elements in the parent segmentedlist</s:assert>
  </s:rule>
</s:pattern>
```

Note that the only change is to replace the @name attribute with an <s:title> element with the same content. This change was applied to Schematron patterns in DocBook 5.0 with the following names:

```xml
<s:pattern name="Glossary 'firstterm' type constraint"/>
<s:pattern name="Footnote reference type constraint"/>
<s:pattern name="Glossary 'glossterm' type constraint"/>
<s:pattern name="Synopsis fragment type constraint"/>
<s:pattern name="Glossary 'see' type constraint"/>
<s:pattern name="Glossary 'seealso' type constraint"/>
<s:pattern name="Glossary term definition constraint"/>
<s:pattern name="Cardinality of segments and titles"/>
```
2.2 New Schematron namespace

The Schematron namespace was declared in two places in the DocBook, the <grammar> element and one <s:ns> element.

2.2.1 Namespace change in <grammar> element

The DocBook 5.0 RNG schema's <grammar> element was changed from:

```xml
<grammar xmlns:s="http://www.ascc.net/xml/schematron" ... 
```

to:

```xml
<grammar xmlns:s="http://purl.oclc.org/dsdl/schematron" ... 
```

2.2.2 Namespace change in <s:ns> element

The DocBook 5.0 RNG schema contains several rules in the Schematron namespace that declare namespaces used by the Schematron rules. One of those declarations was for the Schematron namespace itself. It was changed from:

```xml
<s:ns prefix="s" uri="http://www.ascc.net/xml/schematron"/>
```

to:

```xml
<s:ns prefix="s" uri="http://purl.oclc.org/dsdl/schematron"/>
```
3 Conformance

Since neither @name nor <s:title> in Schematron assertions is necessary for validating DocBook document instances, this change will not require any changes to the conformance rules for existing DocBook documents. So the Conformance section of the DocBook 5.0 [Docbook-5.0] standard is unchanged.
Appendix A. Acknowledgments

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

Participants:
   Robert Stayton, Sagehill Enterprises, Individual
   Jirka Kosek, Individual
# Appendix B. Revision History

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