# OASIS

# The DocBook SVG Document Type

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Editor:
Norman Walsh, Sun Microsystems, Inc. `<Norman.Walsh@Sun.COM>`

Abstract:
DocBook SVG Document Type is a modular superset of DocBook XML V4.3. It is a DocBook extension to allow Scalable Vector Graphics (SVG) in DocBook images. SVG is an XML document type designed for describing two-dimensional graphics (vector graphic shapes, images, and text).

Status:
This is a working draft constructed by the editor. It is not an official committee work product and may not reflect the consensus opinion of the committee.

Please send comments on this specification to the `<docbook@lists.oasis-open.org>` list. To subscribe, send an email message to `<docbook-request@lists.oasis-open.org>` with the word "`subscribe`" as the body of the message.

# Table of Contents

## Appendixes

# 1. Introduction

DocBook is general purpose document type particularly well suited to books and papers about computer hardware and software (though it is by no means limited to these applications).

Scalable Vector Graphics [SVG 1.1] is an XML document type designed for describing two-dimensional graphics (vector graphic shapes, images, and text).

This module integrates SVG into DocBook, allowing elements from the SVG namespace to be used in `imageobjects`.

The DocBook Technical Committee maintains the DocBook SVG schema. DocBook SVG is officially available as an [XML] Document Type Definition (DTD).

The Version 1.1 release is based on [DocBook V4.3] and [SVG 1.1].

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 interface. This is also the preferred mechanism for submitting new requests. Old RFEs, from a previous legacy tracking system, are archived for reference.

# 2. Terminology

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

# 3. The DocBook SVG Document Type V1.1CR1

The DocBook SVG Document Type is a superset of [DocBook V4.3]. It is distributed from the DocBook site at OASIS. It is also available from the mirror on http://docbook.org/.

This module integrates SVG into DocBook by incorporating the SVG V1.1 DTD using a namespace prefix and extending the content model of DocBook's `imageobject` element to allow those elements to occur.

## 3.1. Usage

To use this module, specify the public and system identifiers of this module in your document type declaration. For example, to use this module to write a book, use the following document type declaration:

```
<!DOCTYPE book PUBLIC "-//OASIS//DTD DocBook SVG Module V1.1CR1//EN"
                      "http://www.oasis-open.org/docbook/xml/svg/1.1CR1/dbsvg.dtd">
```

Naturally, you can include an internal subset if you wish.

This module declares `svg:` as the namespace prefix for SVG. If you wish to change that prefix, you may declare an alternative by changing the declaration of the parameter entity `%SVG.prefix;`.

For example, to write an article using this module and to specify that the namespace prefix for SVG elements should be `s:`, you could use the following document type declaration:

```
<!DOCTYPE article PUBLIC "-//OASIS//DTD DocBook SVG Module V1.1CR1//EN"
                         "http://www.oasis-open.org/docbook/xml/svg/1.1CR1/dbsvg.dtd" [
```

```
<!ENTITY % SVG.prefix "s">
]>
```

To incorporate this module into a higher-level customization layer, use the public and system identifiers of this module in your customization layer. For example:

```
<!ENTITY %docbooksvg PUBLIC "-//OASIS//DTD DocBook SVG Module V1.1CR1//EN"
                            "http://www.oasis-open.org/docbook/xml/svg/1.1CR1/dbsvg.dtd">
%docbooksvg;
```

## 3.2. Limitations

This module is DTD-based. DTDs and [Namespaces] do not work together with perfect harmony. In particular, although you can change the namespace prefix used for SVG diagrams on a per-document basis, you cannot change it on a per-diagram basis. You simply cannot use `svg:` as the prefix on one diagram and `s:` as the prefix in another diagram within the same document. Such a document may be well-formed, and many XML tools may process it correctly, but it cannot be validated against this module's DTD.

The SVG module overrides the declaration of the `imageobject` element. In order to write a customization layer that also changes the declaration of `imageobject`, that customization layer must disable `%docbook.svg.imageobject.element;` before including the SVG module.

# 4. Changes in DocBook SVG V1.1CR1

This release updates DocBook SVG to be a customization of DocBook XML V4.3.

There are no substantive changes to the SVG-specific markup.

# 5. Release Notes

None.

# OASIS DocBook Technical Committee (Non-Normative)

The following individuals were members of the committee during the formulation of this Working Draft:

- Steve Cogorno
- Adam Di Carlo
- Paul Grosso
- Dick Hamilton
- Nancy Harrison
- Scott Hudson
- Mark Johnson
- Jirka Kosek
- Larry Rowland
- Michael Smith
- Robert Stayton, Secretary
- Norman Walsh, Chair, Editor

# Notices

# Intellectual Property Rights

For information on wether any patents have been disclosed that may be essential to implementing this specification, and any offers of patent licensing terms, please refer to the Intellectual Property Rights section of the DocBook web page (http://www.oasis-open.org/docbook/)

# Revision History

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|---|---|
| 1.1CR1 | 27 Jul 2004 |
| 1.0-CR1 | 12 Sep 2002 |
| Beta Release 2 | 21 May 2002 |

# References

## Normative

[XML] Tim Bray, Jean Paoli, C. M. Sperberg-McQueen, *et. al.*, editors. *Extensible Markup Language (XML) 1.0 (Third Edition)*. World Wide Web Consortium, 04 Feb 2004.

[Namespaces] Tim Bray, Dave Hollander, and Andrew Layman, editors. *Namespaces in XML*. World Wide Web Consortium, 1999.

[RFC 2119] IETF (Internet Engineering Task Force). *RFC 2119: Key words for use in RFCs to Indicate Requirement Levels*. S. Bradner. 1997.

[DocBook V4.3] Norman Walsh, editor. *The DocBook Document Type: Version 4.3*. OASIS, 2004.

[SVG 1.1] Jon Ferraiolo,     (FUJISAWA Jun), and Dean Jackson, editors. *Scalable Vector Graphics (SVG) Version 1.1 Specification*. World Wide Web Consortium, 14 Jan 2003.