

[MS-XMLNS]:

Microsoft XML Namespaces Standards Support Document

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Revision Summary

Date	Revision History	Revision Class	Comments
3/17/2010	0.1	New	Released new document.
3/26/2010	1.0	None	Introduced no new technical or language changes.
5/26/2010	1.2	None	Introduced no new technical or language changes.
9/8/2010	1.3	Major	Significantly changed the technical content.
10/13/2010	1.4	Minor	Clarified the meaning of the technical content.
2/10/2011	2.0	None	Introduced no new technical or language changes.
2/22/2012	3.0	Major	Significantly changed the technical content.
7/25/2012	3.1	Minor	Clarified the meaning of the technical content.
6/26/2013	4.0	Major	Significantly changed the technical content.
3/31/2014	4.0	None	No changes to the meaning, language, or formatting of the technical content.
1/22/2015	5.0	Major	Updated for new product version.
7/7/2015	5.1	Minor	Clarified the meaning of the technical content.
11/2/2015	5.1	None	No changes to the meaning, language, or formatting of the technical content.
3/22/2016	5.2	Minor	Clarified the meaning of the technical content.
11/2/2016	5.2	None	No changes to the meaning, language, or formatting of the technical content.
3/14/2017	5.2	None	No changes to the meaning, language, or formatting of the technical content.
10/3/2017	5.2	None	No changes to the meaning, language, or formatting of the technical content.
2/22/2018	5.2	None	No changes to the meaning, language, or formatting of the technical content.
3/23/2018	5.2	None	No changes to the meaning, language, or formatting of the technical content.
8/28/2018	5.2	None	No changes to the meaning, language, or formatting of the technical content.

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1 Introduction

This document describes the level of support provided by the Microsoft XML Core Services (MSXML) 3.0 and 6.0 for the *Namespaces in XML 1.0 (Third Edition)* [XMLNS] W3C Recommendation 8 December 2009.

By way of MSXML, Microsoft web browsers support Namespaces in XML using the *Extensible Markup Language (XML) 1.0 (Fourth Edition)* [XML], W3C Recommendation 16 August 2006, edited in place 29 September 2006.

The [XMLNS] specification may contain guidance for authors of webpages and browser users, in addition to user agents (browser applications). Statements found in this document apply only to normative requirements in the specification targeted to user agents, not those targeted to authors.

1.1 Glossary

MAY, SHOULD, MUST, SHOULD NOT, MUST NOT: These terms (in all caps) are used as defined in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](#).

1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact dochelp@microsoft.com. We will assist you in finding the relevant information.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC2141] Network Working Group, "URN Syntax", RFC 2141 May 1997, <http://www.rfc-editor.org/rfc/rfc2141.txt>

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation 16 August 2006, edited in place 29 September 2006, <http://www.w3.org/TR/2006/REC-xml-20060816/>

1.2.2 Informative References

[MS-XPATCH] Microsoft Corporation, "[Microsoft XML XPath Standards Support Document](#)".

[W3C-XSLT] World Wide Web Consortium, "XSL Transformations (XSLT) Version 1.0", W3C Recommendation 16 November 1999, <http://www.w3.org/TR/1999/REC-xslt-19991116>

[XPATCH] Clark, J. and DeRose, S., "XML Path Language (XPath), Version 1.0", W3C Recommendation, November 1999, <http://www.w3.org/TR/1999/REC-xpath-19991116/>

1.3 Microsoft Implementations

Throughout this document, Microsoft XML Core Services (MSXML) 3.0 is referred to as *MSXML3* and Microsoft XML Core Services (MSXML) 6.0 is referred to as *MSXML6*.

MSXML3 is the only version of MSXML that is implemented in Windows Internet Explorer 7 and Windows Internet Explorer 8. Both MSXML3 and MSXML6 are implemented in Windows Internet Explorer 9, Windows Internet Explorer 10, Internet Explorer 11, and Internet Explorer 11 for Windows 10. MSXML3 is used in IE7 Mode and IE8 Mode, and MSXML6 is used in all other modes. MSXML6 is the only version of MSXML implemented in Microsoft Edge, which uses it only to implement XSLT [\[W3C-XSLT\]](#). Microsoft Edge provides [\[XPath\]](#) functionality natively; see [\[MS-XPATh\]](#) for more information.

1.4 Standards Support Requirements

To conform to [\[XMLNS\]](#), a user agent must implement all required portions of the specification. Any optional portions that have been implemented must also be implemented as described by the specification. Normative language is usually used to define both required and optional portions. (For more information, see [\[RFC2119\]](#).)

The following table lists the sections of [\[XMLNS\]](#) and whether they are considered normative or informative.

Sections	Normative/Informative
1	Informative
2-8	Normative
Appendices A-F	Informative

1.5 Notation

The following notations are used in this document to differentiate between notes of clarification, variation from the specification, and extension points.

Notation	Explanation
C####	Identifies a clarification of ambiguity in the target specification. This includes imprecise statements, omitted information, discrepancies, and errata. This does not include data formatting clarifications.
V####	Identifies an intended point of variability in the target specification such as the use of MAY, SHOULD, or RECOMMENDED. (See [RFC2119] .) This does not include extensibility points.
E####	Identifies extensibility points (such as optional implementation-specific data) in the target specification, which can impair interoperability.

For document mode and browser version notation, see section [1.3](#).

2 Standards Support Statements

This section contains all variations and clarifications for the Microsoft implementation of [\[XMLNS\]](#).

- Section [2.1](#) describes normative variations from the MUST requirements of the specification.
- Section [2.2](#) describes clarifications of the MAY and SHOULD requirements.
- Section [2.3](#) considers error handling aspects of the implementation.
- Section [2.4](#) considers security aspects of the implementation.

2.1 Normative Variations

The following subsections describe normative variations from the MUST requirements of [\[XMLNS\]](#).

2.1.1 [NamespacesXML1.1] Section 3, Declaring Namespaces

C0004:

The specification states:

```
The prefix xmlns is used only to declare namespace bindings and is by definition bound to the namespace name http://www.w3.org/2000/xmlns/. It MUST NOT be declared. Other prefixes MUST NOT be bound to this namespace name, and it MUST NOT be declared as the default namespace. Element names MUST NOT have the prefix xmlns.
```

MSXML3 and MSXML6

Other prefixes can be bound to the **namespace** name `http://www.w3.org/2000/xmlns/`.

C0005:

The specification states:

```
All other prefixes beginning with the three-letter sequence x, m, l, in any case combination, are reserved. This means that:

- users SHOULD NOT use them except as defined by later specifications
- processors MUST NOT treat them as fatal errors.

```

MSXML3

The namespace prefix is not allowed to start with the reserved string `"xml"`, in any case combination.

MSXML6

Namespace* is allowed with the reserved string `"xml"`.

2.2 Clarifications

The following subsections describe clarifications of the MAY and SHOULD requirements of [\[XMLNS\]](#).

2.2.1 [NamespacesXML1.1] Section 3, Declaring Namespaces

C0001:

The specification states:

Definition: A namespace (or more precisely, a namespace binding) is declared using a family of reserved attributes. Such an attribute's name must either be `xmlns` or begin `xmlns:`. These attributes, like any other XML attributes, may be provided directly or by default.

MSXML3 and MSXML6

The namespace attributes can only be provided directly and not by default.

C0002:

The specification states:

The attribute's normalized value MUST be either a URI reference – the namespace name identifying the namespace – or an empty string. The namespace name, to serve its intended purpose, SHOULD have the characteristics of uniqueness and persistence. It is not a goal that it be directly usable for retrieval of a schema (if any exists). Uniform Resource Names [\[RFC2141\]](#) is an example of a syntax that is designed with these goals in mind. However, it should be noted that ordinary URLs can be managed in such a way as to achieve these same goals.

MSXML3 and MSXML6

The normalized value of the **namespace** declaration can only be set as the value of default namespace `xmlns` but not any other specific namespace such as `xmlns:xxx`.

C0003:

The specification states:

The prefix `xml` is by definition bound to the namespace name `http://www.w3.org/XML/1998/namespace`. It MAY, but need not, be declared, and MUST NOT be bound to any other namespace name. Other prefixes MUST NOT be bound to this namespace name, and it MUST NOT be declared as the default namespace.

MSXML3 and MSXML6

The following clarifications apply:

- The prefix **xml** cannot be declared even if the **namespace** name to bind to is declared.
- Other prefixes can be bound to the **namespace** name, and it can be declared as the default **namespace**.

2.2.2 [NamespacesXML1.1] Section 6.3, Uniqueness of Attributes

V0001:

The specification states:

In XML documents conforming to this specification, no tag may contain two attributes which:

1. have identical names, or
2. have qualified names with the same local part and with prefixes which have been bound to namespace names that are identical.

This constraint is equivalent to requiring that no element have two attributes with the same expanded name.

MSXML3 and MSXML6

Two attributes with the same local part and with different prefixes are treated as different, even if the two different prefixes are bound to the same namespace name.

2.3 Error Handling

There are no additional error handling considerations.

2.4 Security

There are no additional security considerations.

3 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

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