[MS-XMLSTYL]:
Microsoft XML Associating Style Sheets with XML Standards Support Document

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Revision Summary

Date	Revision History	Revision Class	Comments
03/26/2010	1.0	New	Released new document.
05/26/2010	1.2	None	Introduced no new technical or language changes.
09/08/2010	1.3	Major	Significantly changed the technical content.
02/10/2011	2.0	No change	Introduced no new technical or language changes.
02/22/2012	3.0	Major	Significantly changed the technical content.
07/25/2012	3.1	Minor	Clarified the meaning of the technical content.

Table of Contents

1 Introduction

This document describes the level of support provided by the Microsoft XML Core Services (MSXML) and Windows® Internet Explorer® for the *Associating Style Sheets with XML documents, Version 1.0* [W3C-XML-StyleSheets], W3C Recommendation 29 June 1999.

The [W3C-XML-StyleSheets] 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 described in [RFC2119]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1.2 References

References to Microsoft Open Specifications documentation do not include a publishing year because links are to the latest version of the technical documents, which are updated frequently. References to other documents include a publishing year when one is available.

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. Please check the archive site, http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624, as an additional source.

[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

[W3C-XML-StyleSheets] Clark, J., Ed., "Associating Style Sheets with XML documents Version 1.0", W3C Recommendation 29 June 1999, http://www.w3.org/TR/xml-stylesheet/

[XML10] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Third Edition)", February 2004, http://www.w3.org/TR/REC-xml

1.2.2 Informative References

None.

1.3 Microsoft Implementations

The [W3C-XML-StyleSheets] specification is implemented by Microsoft XML Core Services (MSXML) 3.0 (*MSXML3*), Windows® Internet Explorer® 9, and Windows® Internet Explorer® 10.

MSXML3 is used by Windows® Internet Explorer® 7, Windows® Internet Explorer® 8, Internet Explorer 9, and Internet Explorer 10.

Windows® Internet Explorer® implements multiple document modes, which can vary individually in their support of the standard. Internet Explorer 9 and Internet Explorer 10 use MSXML3 for Quirks

Mode, IE7 Mode, and IE8 Mode. For IE9 Mode and IE10 Mode, Internet Explorer provides built-in support for the [W3C-XML-StyleSheets] specification.

Throughout this document, variations and clarifications note whether they apply to MSXML3, IE9 Mode, or IE10 Mode. The document mode appears first followed by the browser version in parentheses. Only those document modes and browser versions for which there is a variation note will be listed. If the document mode is not listed, conformance to the specification can be assumed.

1.4 Standards Support Requirements

To conform to [W3C-XML-StyleSheets], 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 [W3C-XML-StyleSheets] and whether they are considered normative or informative.

Sections	Normative/Informative
1	Normative
Appendices A-B	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 a full list of variations, clarifications, and extension points in the Microsoft implementation of [W3C-XML-StyleSheets].

- Section 2.1 includes only those variations that violate a MUST requirement in the target specification.
- Section 2.2 describes further variations from MAY and SHOULD requirements.
- Section 2.3 identifies variations in error handling.
- Section 2.4 identifies variations that impact security.

2.1 Normative Variations

There are no additional variations to [W3C-XML-StyleSheets].

2.2 Clarifications

The following subsections identify clarifications to recommendations made by [W3C-XML-StyleSheets].

2.2.1 [W3C-XML-StyleSheets] Section 1, The xml-stylesheet processing instruction

C0001:

The specification states:

```
In some cases, style sheets may be linked with an XML document by means external to the
document.
```

MSXML3, IE9 Mode, and IE10 Mode (All Versions)

Style sheets that are linked with an XML document by means external to the document are ignored.

C0002:

The specification states:

```
NOTE: If the xml-stylesheet processing instruction occurs in the external DTD
subset or in a parameter entity, it is possible that it may not be processed
by a non-validating XML processor (see [XML10]).
```

MSXML3, IE9 Mode, and IE10 Mode (All Versions)

The xml-stylesheet processing instruction is not processed when it occurs in an external DTD subset or in a parameter entity.

C0003:

The specification states:

```
In some cases, style sheets may be linked with an XML document by means external
to the document. For example, earlier versions of HTTP [RFC2068]
(section 19.6.2.4) allowed style sheets to be associated with XML documents
by means of the Link header. Any links to style sheets that are specified
externally to the document are considered to occur before the links specified
by the xml-stylesheet processing instructions. This is the same as in
HTML 4.0 (see section 14.6).
```

MSXML3, IE9 Mode, and IE10 Mode (All Versions)

Style sheets that are linked with an XML document by means external to the document are ignored.

2.3 Error Handling

There are no additional considerations for error handling.

2.4 Security

There are no additional security considerations.

3 Change Tracking

This section identifies changes that were made to the [MS-XMLSTYL] protocol document between the February 2012 and July 2012 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- An extensive rewrite, addition, or deletion of major portions of content.
- The removal of a document from the documentation set.
- Changes made for template compliance.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the language and formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical or language changes were introduced. The technical content of the document is identical to the last released version, but minor editorial and formatting changes, as well as updates to the header and footer information, and to the revision summary, may have been made.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.

- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.
- New content added for template compliance.
- Content updated for template compliance.
- Content removed for template compliance.
- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated.**

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact protocol@microsoft.com.

Section	Tracking number (if applicable) and description	Major change (Y or N)	Change type
1 Introduction	Updated the document to remove beta tagging.	N	Content updated.

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