**[MS-XMLH]:**

**Internet Explorer XML 1.0 (Fourth Edition) Standards**

**Support Document**



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**Revision Summary**

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**1 Introduction**

This document describes the level of support provided by Windows® Internet Explorer® 9 and Windows® Internet Explorer® 10 for the *Extensible Markup Language (XML) 1.0 (Fourth* *Edition)* [[XML],](http://go.microsoft.com/fwlink/?LinkId=90598) *W3C* Recommendation 16 August 2006, edited in place 29 September 2006.

The  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) 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. **Glossary**

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used asdescribed in  [[RFC2119](http://go.microsoft.com/fwlink/?LinkId=90317)]. All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

1. **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. **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.co](mailto:dochelp@microsoft.com)m. We will assist you in finding the relevant information. Please check the archive site,  [http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C962](http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624)4, as an additional source.

[NamespacesXML1.1] Bray, T., Hollander, D., Layman, A., and Tobin, R., Eds., "Namespaces in XML 1.1 (Second Edition)", W3C Recommendation 16 August 2006,  [http://www.w3.org/TR/xml](http://go.microsoft.com/fwlink/?LinkId=182744)-names11/

[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.tx](http://go.microsoft.com/fwlink/?LinkId=90317)t

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation, August 2006,  [http://www.w3.org/TR/2006/REC-xml-20060816](http://go.microsoft.com/fwlink/?LinkId=90598)/

1. **Informative References**

None.

1. **Microsoft Implementations**

Windows® Internet Explorer® 9 and Windows® Internet Explorer® 10 implement some portion of the  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) specification.

In addition, each version of ie implements multiple document modes, which can vary individually in their support of the standard. The following table lists the document modes available in each version of Windows® Internet Explorer®:



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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Browser Version** |  |  | **Documents Modes Supported** |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Internet Explorer 9 | |  |  | Quirks mode |  |  |  |
|  |  |  |  | IE7 mode |  |  |  |
|  |  |  |  | IE8 mode |  |  |  |
|  |  |  |  | IE9 mode |  |  |  |
|  | |  |  |  |  |  |  |
| Internet Explorer 10 | |  |  | Quirks mode |  |  |  |
|  |  |  |  | IE7 mode |  |  |  |
|  |  |  |  | IE8 mode |  |  |  |
|  |  |  |  | IE9 mode |  |  |  |
|  |  |  |  | IE10 Mode |  |  |  |
|  |  |  |  |  |  |  |  |

Internet Explorer 9 and Internet Explorer 10 implement the  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) specification as described in this document only in IE9 mode and IE10 Mode.

Throughout this document, 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. **Standards Support Requirements**

To conform to  [[XML](http://go.microsoft.com/fwlink/?LinkId=90598)], 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](http://go.microsoft.com/fwlink/?LinkId=90317)].)

The following table lists the sections of  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598) and whether they are considered normative or informative.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Chapters** |  |  | **Normative/Informative** |  |
|  |  |  |  |  |  |
| 1-2 | |  |  | Normative | |
|  | |  |  |  | |
| Appendices A-E | |  |  | Informative | |
|  |  |  |  |  |  |

1. **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](http://go.microsoft.com/fwlink/?LinkId=90317)].) 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](#page4).



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**2 Standards Support Statements**

This section contains a full list of clarifications in the Microsoft implementation of  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598).

Section  [2.1](#page6) includes only those variations that violate a MUST requirement in the target specification.

Section  [2.2](#page6) describes further variations from MAY and SHOULD requirements.

Section  [2.3](#page19) identifies variations in error handling.

Section  [2.4](#page19) identifies variations that impact security.

1. **Normative Variations**

The following subsections detail the normative variations from MUST requirements in  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598).

1. **[XML] Section 4.7, Notation Declarations**

V0001:

The specification states:

XML processors MUST provide applications with the name and external identifier(s) of any notation declared and referred to in an attribute value, attribute definition, or entity declaration. They MAY additionally resolve the external identifier into the system identifier, file name, or other information needed to allow the application to call a processor for data in the notation described. (It is not an error, however, for XML documents to declare and refer to notations for which notation-specific applications are not available on the system where the XML processor or application is running.)

*IE9 Mode and IE10 Mode (All Versions)*

Names and external identifiers of declared notations are not provided to applications.

1. **Clarifications**

The following subsections identify clarifications to recommendations made by  [[XML]](http://go.microsoft.com/fwlink/?LinkId=90598).

1. **[XML] Section 2.3, Common Syntactic Constructs**

C0001:

The specification states:

The Namespaces in XML Recommendation [XML Names] assigns a meaning to names containing colon characters. Therefore, authors should not use the colon in XML names except for namespace purposes, but XML processors must accept the colon as a name character.

*IE9 Mode and IE10 Mode (All Versions)*

Colons are accepted in names only when they are used in accordance with  [[NamespacesXML1.1]](http://go.microsoft.com/fwlink/?LinkId=182744).



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1. **[XML] Section 2.8, Prolog and Document Type Declaration**

C0002:

The specification states:

Validity constraint: Root Element Type

The Name in the document type declaration MUST match the element type of the root element.

*IE9 Mode and IE10 Mode (All Versions)*

The **Name** attribute in the document type declaration can differ from the element type of the root element.

1. **[XML] Section 2.9, Standalone Document Declaration**

C0003:

The specification states:

Validity constraint: Standalone Document Declaration

The standalone document declaration MUST have the value "no" if any external markup declarations contain declarations of:

attributes with default values, if elements to which these attributes apply appear in the document without specifications of values for these attributes, or

entities (other than amp, lt, gt, apos, quot), if references to those entities appear in the document, or

attributes with tokenized types, where the attribute appears in the document with a value such that normalization will produce a different value from that which would be produced in the absence of the declaration, or

element types with element content, if white space occurs directly within any instance of those types.

*IE9 Mode and IE10 Mode (All Versions)*

A standalone document declaration is not required to have a value of no based on the following external markup declarations:

Attributes with default values, if elements to which these attributes apply appear in the document without specifications of values for these attributes.

Entities, other than **amp**, **lt**, **gt**, **apos**, and **quot**, if references to those entities appear in the document.

Attributes with tokenized types, where the attribute appears in the document with a value such that normalization produces a different value from what is produced in the absence of the declaration.

Element types with element content, if white space occurs directly within any instance of those types.



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1. **[XML] Section 2.1, White Space Handling**

C0004:

The specification states:

An XML processor MUST always pass all characters in a document that are not markup through to the application. A validating XML processor MUST also inform the application which of these characters constitute white space appearing

in element content.

*IE9 Mode and IE10 Mode (All Versions)*

Applications are not informed about which characters constitute white space in element content.

C0005:

The specification states:

The value "default" signals that applications' default white-space processing modes are acceptable for this element; the value "preserve" indicates the intent that applications preserve all the white space. This declared intent is considered to apply to all elements within the content of the element where it

is specified, unless overridden with another instance of the xml:space attribute. This specification does not give meaning to any value of xml:space other than "default" and "preserve". It is an error for other values to be specified; the XML processor MAY report the error or MAY recover by ignoring the attribute specification or by reporting the (erroneous) value to the application. Applications may ignore or reject erroneous values.

*IE9 Mode and IE10 Mode (All Versions)*

An error is reported if the **xml:space** attribute is used with a value other than default or preserve.

1. **[XML] Section 3, Logical Structures**

C0006:

The specification states:

Validity constraint: Element Valid

An element is valid if there is a declaration matching elementdecl where the Name matches the element type, and one of the following holds: . . .

*IE9 Mode and IE10 Mode (All Versions)*

Elements are not checked for validity.

1. **[XML] Section 3.1, Start-Tags, End-Tags, and Empty-Element Tags**

C0007:

The specification states:



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Validity constraint: Attribute Value Type

The attribute MUST have been declared; the value MUST be of the type declared for it.

*IE9 Mode and IE10 Mode (All Versions)*

Attribute value types are not checked for validity.

C0008:

The specification states:

[Definition: An empty-element tag takes a special form:] Tags for Empty Elements[44]

EmptyElemTag ::= '<' Name (S Attribute)\* S? '/>'[WFC: Unique Att Spec] Empty-element tags may be used for any element which has no content, whether or not it is declared using the keyword EMPTY.

For interoperability, the empty-element tag SHOULD be used, and SHOULD only be used, for elements which are declared EMPTY.

*IE9 Mode and IE10 Mode (All Versions)*

Empty element tags can be used for any element that has no content, including elements that are not declared by using the **EMPTY** keyword.

1. **[XML] Section 3.2, Element Type Declarations**

C0009:

The specification states:

The element structure of an XML document may, for validation purposes, be constrained using element type and attribute-list declarations. An element type declaration constrains the element's content.

Element type declarations often constrain which element types can appear as children of the element. At user option, an XML processor MAY issue a warning when a declaration mentions an element type for which no declaration is provided, but this is not an error.

*IE9 Mode and IE10 Mode (All Versions)*

The element structure of an XML document is not constrained for validation purposes.

C0010:

The specification states:

Validity constraint: Unique Element Type Declaration

An element type MUST NOT be declared more than once.

*IE9 Mode and IE10 Mode (All Versions)*

Elements can be declared more than once.



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1. **[XML] Section 3.2.1, Element Content**

C0011:

The specification states:

Definition: An element type has element content when elements of that type MUST contain only child elements (no character data), optionally separated by white space (characters matching the nonterminal S).] [Definition: In this case, the constraint includes a content model, a simple grammar governing the allowed types of the child elements and the order in which they are allowed to appear.] The grammar is built on content particles (cps), which consist of names, choice lists of content particles, or sequence lists of content particles:

Element-content Models . . .

*IE9 Mode and IE10 Mode (All Versions)*

Element content is not checked against the Element-content Models grammar.

C0012:

The specification states:

Validity constraint: Proper Group/PE Nesting

Parameter-entity replacement text MUST be properly nested with parenthesized groups. That is to say, if either of the opening or closing parentheses in a choice, seq, or Mixed construct is contained in the replacement text for a parameter entity, both MUST be contained in the same replacement text.

For interoperability, if a parameter-entity reference appears in a choice, seq, or Mixed construct, its replacement text SHOULD contain at least one non-blank character, and neither the first nor last non-blank character of the replacement text SHOULD be a connector (| or ,).

*IE9 Mode and IE10 Mode (All Versions)*

Parameter-entity replacement text does not have to be properly nested in parenthesized groups.

1. **[XML] Section 3.2.2, Mixed Content**

C0013:

The specification states:

Validity constraint: No Duplicate Types

The same name MUST NOT appear more than once in a single mixed-content declaration.

*IE9 Mode and IE10 Mode (All Versions)*

More than one instance of an element type may appear in a single mixed-content declaration.



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1. **[XML] Section 3.3, Attribute-List Declarations**

C0014:

The specification states:

Definition: Attribute-list declarations specify the name, data type, and default value (if any) of each attribute associated with a given element type:]

Attribute-list Declaration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [52] | AttlistDecl | ::= '<!ATTLIST' | S | Name AttDef\* S? '>' |
| [53] | AttDef ::= | S Name S AttType | S | DefaultDecl |

The Name in the AttlistDecl rule is the type of an element. At user option, an XML processor MAY issue a warning if attributes are declared for an element type not itself declared, but this is not an error. The Name in the AttDef rule is the name of the attribute.

*IE9 Mode and IE10 Mode (All Versions)*

No warning is issued when an attribute is declared for an element type that has not been declared.

C0015:

The specification states:

When more than one AttlistDecl is provided for a given element type, the contents of all those provided are merged. When more than one definition is provided for the same attribute of a given element type, the first declaration is binding and later declarations are ignored. For interoperability, writers of DTDs may choose to provide at most one attribute-list declaration for a given element type, at most one attribute definition for a given attribute name in an attribute-list declaration, and at least one attribute definition in each attribute-list declaration. For interoperability, an XML processor MAY at user option issue a warning when more than one attribute-list declaration is provided for a given element type, or more than one attribute definition is provided for a given attribute, but this is not an error.

*IE9 Mode and IE10 Mode (All Versions)*

No warning is issued when more than one attribute-list declaration is provided for an element type or more than one attribute definition is provided for a given attribute.

1. **[XML] Section 3.3.1, Attribute Types**

C0016:

The specification states:

Validity constraint: ID

Values of type ID MUST match the Name production. A name MUST NOT appear more than once in an XML document as a value of this type; i.e., ID values MUST uniquely identify the elements which bear them.

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An **ID** value is not required to uniquely identify the element that is associated with it. C0017:

The specification states:

Validity constraint: One ID per Element Type

An element type MUST NOT have more than one ID attribute specified.

*IE9 Mode and IE10 Mode (All Versions)*

An element type may have more than one **ID** attribute specified.

C0018:

The specification states:

Validity constraint: ID Attribute Default

An ID attribute MUST have a declared default of #IMPLIED or #REQUIRED.

*IE9 Mode and IE10 Mode (All Versions)*

An **ID** attribute is not required to have a declared default of #IMPLIED or #REQUIRED. C0019:

The specification states:

Validity constraint: IDREF

Values of type IDREF MUST match the Name production, and values of type IDREFS MUST match Names; each Name MUST match the value of an ID attribute on some element in the XML document; i.e. IDREF values MUST match the value of some ID attribute.

*IE9 Mode and IE10 Mode (All Versions)*

An **IDREF** entity attribute is not required to match the value of an **ID** attribute on an element in the XML document.

C0020:

The specification states:

Validity constraint: Entity Name

Values of type ENTITY MUST match the Name production, values of type ENTITIES MUST match Names; each Name MUST match the name of an unparsed entity declared in the DTD.

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Entity attribute types and the **ENTITIES** set of entities are not checked for validity. Entity attribute types are not required to match the name of an unparsed entity that is declared in the DTD.

C0021:

The specification states:

Validity constraint: Name Token

Values of type NMTOKEN MUST match the Nmtoken production; values of type NMTOKENS MUST match Nmtokens.

*IE9 Mode and IE10 Mode (All Versions)*

Name token attribute types and the **NMTOKENS** set of name tokens are not checked for validity.

C0022:

The specification states:

Validity constraint: Notation Attributes

Values of this type MUST match one of the notation names included in the declaration; all notation names in the declaration MUST be declared.

*IE9 Mode and IE10 Mode (All Versions)*

A **notation** attribute is not required to match a notation that is specified in the notation declarations, and all of the notations that are declared in the notation declarations are not required to be declared.

C0023:

The specification states:

Validity constraint: One Notation Per Element Type

An element type MUST NOT have more than one NOTATION attribute specified.

*IE9 Mode and IE10 Mode (All Versions)*

An element type may have more than one **NOTATION** attribute.

C0024:

The specification states:

Validity constraint: No Notation on Empty Element

For compatibility, an attribute of type NOTATION MUST NOT be declared on an element declared EMPTY.

*IE9 Mode and IE10 Mode (All Versions)*



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A **NOTATION** attribute may be declared on an element that is declared by using the **EMPTY** keyword.

C0025:

The specification states:

Validity constraint: No Duplicate Tokens

The notation names in a single NotationType attribute declaration, as well as the NmTokens in a single Enumeration attribute declaration, MUST all be distinct.

*IE9 Mode and IE10 Mode (All Versions)*

Both **NotationalType** attribute types and **Enumeration** attribute types may contain identical elements.

C0026:

The specification states:

Validity constraint: Enumeration

Values of this type MUST match one of the Nmtoken tokens in the declaration. For interoperability, the same Nmtoken SHOULD NOT occur more than once in the enumerated attribute types of a single element type.

*IE9 Mode and IE10 Mode (All Versions)*

Enumeration values are not required to be declared. The same token may occur more than once in an enumerated attribute type.

1. **[XML] Section 3.3.2, Attribute Defaults**

C0027:

The specification states:

In an attribute declaration, #REQUIRED means that the attribute MUST always be provided, #IMPLIED that no default value is provided.

*IE9 Mode and IE10 Mode (All Versions)*

Attributes are not checked to determine if they are required or if they have default values.

C0028:

The specification states:

Definition: If the declaration is neither #REQUIRED nor #IMPLIED, then the AttValue value contains the declared default value; the #FIXED keyword states that the attribute MUST always have the default value. When an XML processor encounters an element without a specification for an attribute for which it has read a default value declaration, it MUST report the attribute with the declared



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default value to the application

*IE9 Mode and IE10 Mode (All Versions)*

For an element that is not specified and that includes an attribute that has a declared default value, the attribute is not reported to the application.

C0029:

The specification states:

Validity constraint: Required Attribute

If the default declaration is the keyword #REQUIRED, then the attribute MUST be specified for all elements of the type in the attribute-list declaration.

*IE9 Mode and IE10 Mode (All Versions)*

An attribute is not required to be specified for all element types in the attribute-list declaration.

C0030:

The specification states:

Validity constraint: Attribute Default Value Syntactically Correct

The declared default value MUST meet the syntactic constraints of the declared attribute type. That is, the default value of an attribute: . . .

Note that only the syntactic constraints of the type are required here; other constraints (e.g. that the value be the name of a declared unparsed entity, for an attribute of type ENTITY) will be reported by a validating parser only if an element without a specification for this attribute actually occurs.

*IE9 Mode and IE10 Mode (All Versions)*

The default value for an attribute is not checked against the syntactic constraints of the attribute type.

C0031:

The specification states:

Validity constraint: Fixed Attribute Default

If an attribute has a default value declared with the #FIXED keyword, instances of that attribute MUST match the default value.

*IE9 Mode and IE10 Mode (All Versions)*

The value of an attribute is not checked against a fixed default value of the attribute type.



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1. **[XML] Section 3.4, Conditional Sections**

C0032:

The specification states:

Validity constraint: Proper Conditional Section/PE Nesting

If any of the "<![", "[", or "]]>" of a conditional section is contained in the replacement text for a parameter-entity reference, all of them MUST be contained in the same replacement text.

*IE9 Mode and IE10 Mode (All Versions)*

All the syntactic elements that are referred to in a conditional section (**<![**, **[**, and **]]>**) are not checked to be present in the same replacement text.

1. **[XML] Section 4.1, Character and Entity References**

C0033:

The specification states:

Validity constraint: Entity Declared

In a document with an external subset or parameter entity references with "standalone='no'", the Name given in the entity reference MUST match that in an entity declaration. For interoperability, valid documents SHOULD declare the entities amp, lt, gt, apos, quot, in the form specified in 4.6 Predefined Entities. The declaration of a parameter entity MUST precede any reference to it. Similarly, the declaration of a general entity MUST precede any attribute-list declaration containing a default value with a direct or indirect reference to that general entity.

*IE9 Mode and IE10 Mode (All Versions)*

An entity reference is not required to match an entity in the entity declaration.

1. **[XML] Section 4.2, Entity Declarations**

C0034:

The specification states:

The Name identifies the entity in an entity reference or, in the case of an unparsed entity, in the value of an ENTITY or ENTITIES attribute. If the same entity is declared more than once, the first declaration encountered is binding; at user option, an XML processor MAY issue a warning if entities are declared multiple times.

*IE9 Mode and IE10 Mode (All Versions)*

No warning is issued if entities are declared multiple times.



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1. **[XML] Section 4.2.2, External Entities**

C0035:

The specification states:

External Entity Declaration

[75] ExternalID ::= 'SYSTEM' S SystemLiteral

| 'PUBLIC' S PubidLiteral S SystemLiteral

[76] NDataDecl ::= S 'NDATA' S Name [VC: Notation Declared]

If the NDataDecl is present, this is a general unparsed entity; otherwise it is a parsed entity.

Validity constraint: Notation Declared

The Name MUST match the declared name of a notation.

*IE9 Mode and IE10 Mode (All Versions)*

An external entity notation is not required to match a declared notation.

C0036:

The specification states:

An XML processor attempting to retrieve the entity's content may use any combination of the public and system identifiers as well as additional information outside the scope of this specification to try to generate an alternative URI reference. If the processor is unable to do so, it MUST use the URI reference specified in the system literal. Before a match is attempted,

all strings of white space in the public identifier MUST be normalized to single space characters (#x20), and leading and trailing white space MUST be removed.

*IE9 Mode and IE10 Mode (All Versions)*

External entities are not resolved.

If one of the following public identifiers is used, the entities that are defined by XHTML are resolved:

//W3C//DTD XHTML 1.0 Transitional//EN

//W3C//DTD XHTML 1.1//EN

//W3C//DTD XHTML 1.0 Strict//EN

//W3C//DTD XHTML 1.0 Frameset//EN

//W3C//DTD XHTML Basic 1.0//EN

//W3C//DTD XHTML 1.1 plus MathML 2.0//EN

//W3C//DTD XHTML 1.1 plus MathML 2.0 plus SVG 1.1//EN

//W3C//DTD MathML 2.0//EN

//WAPFORUM//DTD XHTML Mobile 1.0//EN



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1. **[XML] Section 4.7, Notation Declarations**

C0037:

The specification states:

Validity constraint: Unique Notation Name

A given Name MUST NOT be declared in more than one notation declaration.

*IE9 Mode and IE10 Mode (All Versions)*

A notation is not checked if it is unique.

1. **[XML] Section 5.1, Validating and Non-Validating Processors**

C0038:

The specification states:

Conforming XML processors fall into two classes: validating and non-validating.

Validating and non-validating processors alike MUST report violations of this specification's well-formedness constraints in the content of the document entity and any other parsed entities that they read.

*IE9 Mode and IE10 Mode (All Versions)*

A non-validating XML parser is used.

C0039:

The specification states:

[Definition: Validating processors MUST, at user option, report violations of the constraints expressed by the declarations in the DTD, and failures to fulfill the validity constraints given in this specification.] To accomplish this, validating XML processors MUST read and process the entire DTD and all external parsed entities referenced in the document.

*IE9 Mode and IE10 Mode (All Versions)*

A non-validating XML parser is used.

1. **[XML] Section 5.2, Using XML Processors**

C0040:

The specification states:

The behavior of a validating XML processor is highly predictable; it must read every piece of a document and report all well-formedness and validity violations. Less is required of a non-validating processor; it need not read any part of the



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document other than the document entity. ...

*IE9 Mode and IE10 Mode (All Versions)*

A non-validating XML parser is used.

1. **Error Handling**

There are no additional considerations for error handling.

1. **Security**

There are no additional security considerations.



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**3 Change Tracking**

This section identifies changes that were made to the [MS-XMLH] 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.



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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, andmethods) as well as interfaces.

**Protocol revision** refers to changes made to a protocol that affect the bits that are sent overthe wire.

The changes made to this document are listed in the following table. For more information, please contact  [protocol@microsoft.com](mailto:protocol@microsoft.com).



|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Major** |  |
|  | **Tracking number (if applicable)** | **change** |  |
| **Section** | **and description** | **(Y or N)** | **Change type** |

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Updated the document to remove beta tagging. | N | Content updated. |
| Introduction |  |  |  |



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