**[MS-DOM2CEX]:**

**Microsoft XML Extensions to the Document Object Model (DOM) Level 2 Core Specification**

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**Revision Summary**

| Date | Revision History | Revision Class | Comments |
| --- | --- | --- | --- |
| 3/26/2010 | 1.0 | New | Released new document. |
| 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 | 5.2 | Minor | Clarified the meaning of the technical content. |
| 1/20/2016 | 5.3 | Minor | Clarified the meaning of the technical content. |
| 3/22/2016 | 5.4 | Minor | Clarified the meaning of the technical content. |
| 11/2/2016 | 5.4 | None | No changes to the meaning, language, or formatting of the technical content. |

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# Introduction

This document describes extensions provided by the Microsoft XML Core Services (MSXML) 3.0 for the *Document Object Model (DOM) Level 2 Core Specification Version 1.0*[[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703), W3C Recommendation 13 November, 2000.

Section 2 of this specification is normative. All other sections and examples in this specification are informative.

## Glossary

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

## 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](http://msdn.microsoft.com/en-us/library/dn781092.aspx).

### 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.

[DOM Level 2 - Core] W3C, "Document Object Model (DOM) Level 2 Core Specification Version 1.0", W3C Recommendation 13 November, 2000, [http://www.w3.org/TR/DOM-Level-2-Core/](http://go.microsoft.com/fwlink/?LinkId=182703)

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

### Informative References

[CSS-Level2-2009] Bos, B., Celik, T., Hickson, I., and Wium Lie, H., Eds., "Cascading Style Sheets Level 2 Revision 1 (CSS 2.1) Specification", W3C Candidate Recommendation 08 September 2009, [http://www.w3.org/TR/2009/CR-CSS2-20090908/](http://go.microsoft.com/fwlink/?LinkId=182880)

[DOM Level 2 - HTML] W3C, "Document Object Model (DOM) Level 2 HTML Specification Version 1.0", W3C Recommendation, January 2003, [http://www.w3.org/TR/2003/REC-DOM-Level-2-HTML-20030109/](http://go.microsoft.com/fwlink/?LinkId=182708)

[DOM Level 2 - Style] W3C, "Document Object Model (DOM) Level 2 Style Specification Version 1.0", W3C Recommendation, November 2000, [http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/](http://go.microsoft.com/fwlink/?LinkId=182710)

[ECMA-262-1999] ECMA International, "Standard ECMA-262 ECMAScript Language Specification", 3rd edition (December 1999), [http://www.ecma-international.org/publications/files/ECMA-ST-ARCH/ECMA-262,%203rd%20edition,%20December%201999.pdf](http://go.microsoft.com/fwlink/?LinkId=153655)

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", December 1999, [http://www.w3.org/TR/html4/](http://go.microsoft.com/fwlink/?LinkId=89880)

[MS-CSS21E] Microsoft Corporation, "[Internet Explorer Extensions to Cascading Style Sheets (CSS) 2.1 and DOM Level 2 Style Specifications](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-CSS21E%5D.pdf#Section_410044a186ab4fadad89f8a72e646ad9)".

[MS-DOM2CE] Microsoft Corporation, "[Internet Explorer Extensions to the Document Object Model (DOM) Level 2 Core Specification](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-DOM2CE%5D.pdf#Section_7e7551df5d2f4707b10ca9dcccb66aa7)".

[MS-ES3EX] Microsoft Corporation, "[Microsoft JScript Extensions to the ECMAScript Language Specification Third Edition](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-ES3EX%5D.pdf#Section_a51500aa4fc543e2a79f2beac751f53a)".

[MS-HTML401E] Microsoft Corporation, "[Internet Explorer Extensions to HTML 4.01 and DOM Level 2 HTML Specifications](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-HTML401E%5D.pdf#Section_6e91051f13504dac8429fd5ef3e9193c)".

[MS-XPATH] Microsoft Corporation, "[Microsoft XML XPath Standards Support Document](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-XPATH%5D.pdf#Section_7838bfe8f1184be89e35a98ac4ae04a2)".

[W3C-XSLT] Clark, J., Ed., "XSL Transformations (XSLT) Version 1.0", W3C Recommendation, November 1999, [http://www.w3.org/TR/1999/REC-xslt-19991116](http://go.microsoft.com/fwlink/?LinkId=113915)

[XPATH] Clark, J., and DeRose, S., "XML Path Language (XPath), Version 1.0", W3C Recommendation, November 1999, [http://www.w3.org/TR/xpath/](http://go.microsoft.com/fwlink/?LinkId=90611)

## Extension Overview (Synopsis)

The extensions described in this document were selected for their applicability to [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703).

The additional Document Object Model interfaces, attributes, methods and collections are organized based on section 1.2, Fundamental Interfaces, of [DOM Level 2 - Core] as follows:

**Document**

* **Attributes**
	+ [documentElement](#Section_07fb5b24d962433392cf1c7878725990)
* **Methods**
	+ [createNode](#Section_761712f6d3534d79b9cfb0c0a4b450cc)
	+ [nodeFromID](#Section_a0536f3e07564c76aa6d03163725c9b3)

**NamedNodeMap**

* **Methods**
	+ [getQualifiedItem](#Section_4d255b741473402981486bfe522083f7)
	+ [nextNode](#Section_6581068aa5fd4bc695d6d3edaea5fad8)
	+ [removeQualifiedItem](#Section_a080ad45215d411c8a523f15fe24a1cc)
	+ [reset](#Section_30931917debe408eba94d4a55f864aab)

**Node**

* **Attributes**
	+ [nodeTypeString](#Section_70eae7bd6a93494287f074bb1c9d86e0)
	+ [text](#Section_31aed3180bca47fdb2005c0639353b27)

**NodeList**

* **Methods**
	+ [nextNode](#Section_8655caed7eb14a78bac8e0ebc76fd7be)
	+ [reset](#Section_8454c4f40f9d4d038f34e239a1ec2770)

### Organization of This Documentation

This document is organized as follows:

* **Interfaces**: The extensions are listed according to interface at the highest level.
* **Attributes, Methods**: The interface members are described at the next levels.

## Relationship to Standards and Other Extensions

The following documents provide information on additional extensions provided by Microsoft XML.

* [[MS-CSS21E]](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-CSS21E%5D.pdf#Section_410044a186ab4fadad89f8a72e646ad9): Extensions to the [[CSS-Level2-2009]](http://go.microsoft.com/fwlink/?LinkId=182880) and [[DOM Level 2 - Style]](http://go.microsoft.com/fwlink/?LinkId=182710) specifications.
* [[MS-HTML401E]](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-HTML401E%5D.pdf#Section_6e91051f13504dac8429fd5ef3e9193c): Extensions to the [[HTML]](http://go.microsoft.com/fwlink/?LinkId=89880) and the [[DOM Level 2 - HTML]](http://go.microsoft.com/fwlink/?LinkId=182708) specifications.
* [[MS-DOM2CE]](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-DOM2CE%5D.pdf#Section_7e7551df5d2f4707b10ca9dcccb66aa7): Extensions to the [HTML] and the [DOM Level 2 - HTML] specifications for Internet Explorer.
* [[MS-ES3EX]](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-ES3EX%5D.pdf#Section_a51500aa4fc543e2a79f2beac751f53a): Extensions to the ECMAScript [[ECMA-262-1999]](http://go.microsoft.com/fwlink/?LinkId=153655) specification.

## Applicability Statement

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]](http://go.microsoft.com/fwlink/?LinkId=113915). Microsoft Edge provides [[XPATH]](http://go.microsoft.com/fwlink/?LinkId=90611) functionality natively; see [[MS-XPATH]](file:///E%3A%5CTarget%5CIE%5CPublished%5CBooks%5CMS-DOM2CEX%5C%5BMS-XPATH%5D.pdf#Section_7838bfe8f1184be89e35a98ac4ae04a2) for more information.

# Extensions

This section specifies additional attributes and methods to elements from [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) that are available in Windows Internet Explorer.

The extensions to [DOM Level 2 - Core] are as follows:

* Extensions to the [Document](#Section_8826e95f46cc48a78244ecfd96b0c226) Interface
* Extensions to the [NamedNodeMap](#Section_407ca3b2862f4d8ebd09c6b6ef29cbfc) Interface
* Extensions to the [Node](#Section_b2063c262e5b4fc3832be8c70ed5c9bb) Interface
* Extensions to the [NodeList](#Section_fbfaa37226c847ac941cc4cb00baa3a1) Interface

## Extensions to the Document Interface

The **Document** (IXMLDOMDocument) interface implements the **Document** interface in [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703). The interface represents the top level of the XML source and includes members for retrieving and creating all other XML objects.

The **Document** interface is extended by the [documentElement](#Section_07fb5b24d962433392cf1c7878725990) attribute. For details, see [Attributes](#Section_0c749627b5b5475e98c33cc6e8a567b0).

The **Document** interface is extended by the following methods. For details, see [Methods](#Section_125a527c90b545a583e04bd62a0ab2ef).

* [createNode](#Section_761712f6d3534d79b9cfb0c0a4b450cc)
* [nodeFromID](#Section_a0536f3e07564c76aa6d03163725c9b3)

**IDL Definition**

1. interface Document : Node {
2. // Introduced in DOM Level 2:
3. Element documentElement
4. // Introduced in DOM Level 2:
5. Node createNode
6. Node nodeFromId
7. };

### Attributes

The **Document** interface as specified in the [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) is extended by the [documentElement](#Section_07fb5b24d962433392cf1c7878725990) attribute.

#### documentElement

**documentElement** of type DOMString

Contains the root element of the document.

The **documentElement** attribute is read/write. It returns an IXMLDOMElement that represents the single element that represents the root of the XML document tree. It returns Null if no root exists.

When setting the **documentElement** attribute, the specified element node is inserted into the child list of the document after any document type node. To precisely place the node within the children of the document, call the **insertBefore** method of the IXMLDOMNode.

The **parentNode** attribute is reset to the document node as a result of this operation.

### Methods

The **Document** interface as specified in the [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) is extended by the addition of the following methods:

* [createNode](#Section_761712f6d3534d79b9cfb0c0a4b450cc)
* [nodeFromID](#Section_a0536f3e07564c76aa6d03163725c9b3)

#### createNode

The **createNode** method creates a node using the supplied type, name, and namespace.

**Parameters**

Type

A variant. A value that uniquely identifies the node type. This can be specified using either the integer value or the string value. For the complete list of values, see the [XML DOM Enumerated Constants](http://msdn.microsoft.com/en-us/library/ms766473%28VS.85%29.aspx) or the description for the name parameter.

name

A string containing the value for the new node's **nodeName** property. The relationship between the name and Type parameters is summarized in the Remarks section of this topic.

namespaceURI

A string defining the namespace URI. If specified, the node is created in the context of the namespaceURI parameter with the prefix specified on the node name. If the name parameter does not have a prefix, this is treated as the default namespace.

**Return Values**

Returns the newly created node.

#### nodeFromID

The **nodeFromID** method returns the node that matches the ID attribute.

**Parameters**

sID

The string containing the value of the ID to match.

**Return Values**

Returns the node that matches the supplied ID. If no nodes match, returns null.

## Extensions to the NamedNodeMap Interface

The **NamedNodeMap** (IXMLDOMNamedNodeMap) interface implements the **NamedNodeMap** interface in [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703). The interface adds support for namespaces and iteration through the collection of attribute nodes.

The **NamedNodeMap** interface is extended by the following methods. For details, see [Methods](#Section_ebc046cbf4ff4fad8d3a950a7d0b23bd).

* [getQualifiedItem](#Section_4d255b741473402981486bfe522083f7)
* [nextNode](#Section_6581068aa5fd4bc695d6d3edaea5fad8)
* [removeQualifiedItem](#Section_a080ad45215d411c8a523f15fe24a1cc)
* [reset](#Section_30931917debe408eba94d4a55f864aab)

**IDL Definition**

1. interface NamedNodeMap {
2. // Introduced in DOM Level 2:
3. Node getQualifiedItem (in DOMString namespaceURI);
4. Node nextNode
5. Node removeQualifiedItem (in DOMString namespaceURI);
6. Node reset
7. };

### Methods

The **NamedNodeMap** interface as specified in the [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) is extended by the addition of the following methods:

* [getQualifiedItem](#Section_4d255b741473402981486bfe522083f7)
* [nextNode](#Section_6581068aa5fd4bc695d6d3edaea5fad8)
* [removeQualifiedItem](#Section_a080ad45215d411c8a523f15fe24a1cc)
* [reset](#Section_30931917debe408eba94d4a55f864aab)

#### getQualifiedItem

The **getQualifiedItem** method returns the attribute with the specified namespace and attribute name.

**Parameters**

baseName

The string specifying the base name of the attribute, without namespace qualification.

namespaceURI

The string specifying the namespace prefix that qualifies the attribute name.

**Return Value**

The **getQualifiedItem** method returns the attribute node specified by the baseName and namespaceURI parameters. Returns Null if the attribute is not in the collection or if the item is not an attribute.

#### nextNode

The **nextNode** method returns the next node in the collection.

**Parameters**

None.

**Return Value**

The **nextNode** method returns an IXMLDOMNode, which refers to the next node in the collection. Returns Null if there is no next node.

#### removeQualifiedItem

The **removeQualifiedItem** method removes the attribute with the specified namespace and attribute name.

**Parameters**

baseName

The string specifying the base name of the attribute, without namespace qualification.

namespaceURI

The string specifying the namespace prefix that qualifies the attribute name.

**Return Value**

The **removeQualifiedItem** method returns the attribute node removed, or Null if no node was removed.

#### reset

The **reset** method resets the iterator.

**Parameters**

None.

**Return Value**

None.

**No JScript Error**

## Extensions to the Node Interface

The **Node** (IXMLDOMNode) interface implements the **Node** interface in [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703). The interface represents the primary datatype for the entire Document Object Model.

The **Node** interface is extended by the following attributes. For details, see [Attributes](#Section_ab3dd94c5dfa474d8625b7445f0a81a9).

* [nodeTypeString](#Section_70eae7bd6a93494287f074bb1c9d86e0)
* [text](#Section_31aed3180bca47fdb2005c0639353b27)

**IDL Definition**

1. interface Node {
2. // Introduced in DOM Level 2:
3. readonly attribute Node nodeTypeString;
4. read-write attribute Node text;
5. };

### Attributes

The **Node** interface as specified in the [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) is extended by the addition of the following attributes:

* [nodeTypeString](#Section_70eae7bd6a93494287f074bb1c9d86e0)
* [text](#Section_31aed3180bca47fdb2005c0639353b27)

#### nodeTypeString

**nodeTypeString** of typeDOMString, **read-only**

Returns the node type in string form.

The **nodeTypeString** attribute is read-only. It contains the string version of the node type. To return the enumeration value, use the **nodeType** attribute.

#### text

**text** of type DOMString

Represents the text content of the node or the concatenated text representing the node and its descendants.

The **text** attribute is read/write. When concatenated, the text represents the contents of text or CDATA nodes. All concatenated text nodes are normalized according to **xml:space** attributes and the value of the preserveWhiteSpace switch. Concatenated CDATA text is not normalized. (Child nodes that contain NODE\_COMMENT and NODE\_PROCESSING\_INSTRUCTION nodes are not concatenated.) The **text** attribute trims the whitespace on the edges of the result, and "normalizes" \r\n => \n, but otherwise just concatenates text.

Retrieves and sets the string representing the text contents of this node or the concatenated text representing this node and its descendants.

For more precise control over text manipulation in an XML document, use the lower-level **nodeValue** property, which returns the raw text associated with a NODE\_TEXT node.

## Extensions to the NodeList Interface

The **NodeList** (IXMLDOMNodeList) interface implements the **NodeList** interface in [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703). This supports iteration through the live collection, in addition to indexed access.

The **NodeList** interface is extended by the following attributes. For details see [Methods](#Section_2865c55c39374b828136d9a8e0244d17).

* [nextNode](#Section_8655caed7eb14a78bac8e0ebc76fd7be)
* [reset](#Section_8454c4f40f9d4d038f34e239a1ec2770)

**IDL Definition**

1. interface NodeList {
2. Node nextNode;
3. Node reset;
4. };

### Methods

The **NodeList** interface as specified in the [[DOM Level 2 - Core]](http://go.microsoft.com/fwlink/?LinkId=182703) is extended by the addition of the following methods:

* [nextNode](#Section_8655caed7eb14a78bac8e0ebc76fd7be)
* [reset](#Section_8454c4f40f9d4d038f34e239a1ec2770)

#### nextNode

The **nextNode** method returns the next node in the collection.

**Parameters**

None

**Return Value**

An IXMLDOMNode refers to the next node in the collection. Returns Null if there is no next node.

#### reset

Resets the iterator.

The **reset** method reinitializes the iterator to point before the first node in the IXMLDOMNodeList so that the next call to nextNode returns the first item in the list.

**Parameters**

None.

**Return Value**

None.

**No JScript Error**

# Security Considerations

There are no additional security considerations.

# Appendix A: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs.

* Windows Internet Explorer 7
* Windows Internet Explorer 8
* Windows Internet Explorer 9
* Windows Internet Explorer 10
* Internet Explorer 11
* Microsoft Edge

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms "SHOULD" or "SHOULD NOT" implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term "MAY" implies that the product does not follow the prescription.

# 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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 [nodeTypeString](#section_70eae7bd6a93494287f074bb1c9d86e0) 11

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