[MS-DOM2CE]:

Internet Explorer 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	5.1	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.

Table of Contents

1 Introduction

This document describes extensions provided by Microsoft web browsers for the *Document Object Model (DOM) Level 2 Core Specification Version 1.0* [DOM Level 2 - Core], W3C Recommendation 13 November, 2000.

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

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.

[DOM Level 2 - Core] World Wide Web Consortium, "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/

[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

1.2.2 Informative References

[CSS-Level2-2009] World Wide Web Consortium, "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/

[DOM Level 2 - HTML] World Wide Web Consortium, "Document Object Model (DOM) Level 2 HTML Specification Version 1.0", W3C Recommendation 09 January 2003, http://www.w3.org/TR/2003/REC-DOM-Level-2-HTML-20030109/

[DOM Level 2 - Style] World Wide Web Consortium, "Document Object Model (DOM) Level 2 Style Specification Version 1.0", W3C Recommendation 13 November 2000, http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/

[HTML] World Wide Web Consortium, "HTML 4.01 Specification", W3C Recommendation 24 December 1999, http://www.w3.org/TR/html4/

[MS-CSS21E] Microsoft Corporation, "Internet Explorer Extensions to Cascading Style Sheets (CSS) 2.1 and DOM Level 2 Style Specifications".

[MS-DOM2CEX] Microsoft Corporation, "Microsoft XML Extensions to the Document Object Model (DOM) Level 2 Core Specification".

[MS-DOM2EE] Microsoft Corporation, "Internet Explorer Extensions to the Document Object Model (DOM) Level 2 Events Specification".

[MS-DOM2E] Microsoft Corporation, "Internet Explorer Document Object Model (DOM) Level 2 Events Standards Support Document".

[MS-HTML401E] Microsoft Corporation, "Internet Explorer Extensions to HTML 4.01 and DOM Level 2 HTML Specifications".

1.3   Extension Overview (Synopsis)

The extensions described in this document were selected for their applicability to [DOM Level 2 - Core].

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:

Element

- **Attributes**

    - canHaveChildren

    - canHaveHTML

    - parentElement

    - scopeName

    - sourceIndex

    - tagUrn

- **Methods**

    - applyElement

    - clearAttributes

    - contains

    - insertAdjacentElement

    - mergeAttributes

    - removeNode

    - replaceNode

    - swapNode

- **Collections**

    - all

    - children

Comment

- **Attributes**

    - text

- atomic

Document

- **Methods**

  - clear

  - removeNode

  - replaceNode

  - swapNode

Text

- **Methods**

  - removeNode

  - replaceNode

  - swapNode

1.3.1 Organization of This Documentation

This document is organized as follows:

- **Interfaces**: The extensions are listed according to interface at the highest level.

- **Attributes, Methods, Collections**: The interface members are described at the next levels.

1.4 Relationship to Standards and Other Extensions

The following documents provide information on additional extensions.

- [MS-CSS21E]: Extensions to the [CSS-Level2-2009] and [DOM Level 2 - Style] specifications.

- [MS-HTML401E]: Extensions to the [HTML] and the [DOM Level 2 - HTML] specifications.

- [MS-DOM2CEX]: Extensions to the [HTML] and the [DOM Level 2 - HTML] specifications for Microsoft XML Core Services.

- [MS-DOM2EE]: Extensions to the [MS-DOM2E] specifications.

1.5 Applicability Statement

This document specifies a set of extensions to the [DOM Level 2 - Core] specification. The extensions in this document provide access to some features that are unique to Windows Internet Explorer 7, Windows Internet Explorer 8, Windows Internet Explorer 9, Windows Internet Explorer 10, Internet Explorer 11, Internet Explorer 11 for Windows 10, and Microsoft Edge.

2   Extensions

This section specifies additional attributes and methods to elements from [DOM Level 2 - Core] that are available in Microsoft web browsers.

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

- Extensions to the Element Interface

- Extensions to the Comment Interface

- Extensions to the Document Interface

- Extensions to the Text Interface

2.1   Extensions to the Element Interface

Extensions have been added to the **Element** interface of the Document Object Model (DOM) Level 2 Core Specification [DOM Level 2 - Core]. The extensions of the **Element** interface are:

Attributes

The **Elements** interface is extended by the following attributes. For details, see Attributes.

- canHaveChildren

- canHaveHTML

- parentElement

- scopeName

- sourceIndex

- tagUrn

Methods

The **Elements** interface is extended by the following methods. For details, see Methods.

- applyElement

- clearAttributes

- contains

- insertAdjacentElement

- mergeAttributes

- removeNode

- replaceNode

- swapNode

Collections

The **Elements** interface is extended by the following collections. For details, see Collections.

- all

▪ children

The following IDL definition documents the **Element** interface:

```
interface Element : Node {
// Extension of DOM Level 2:
  readonly attribute boolean        canHaveChildren;
  readonly attribute boolean        canHaveHTML;
  readonly attribute boolean        parentElement;
  readonly attribute long           sourceIndex;
// Extension of DOM Level 2:
Element            applyElement
void               clearAttributes;
boolean            contains;
Node               insertAdjacentElement
Node               mergeAttributes
boolean            removeNode;
Node               replaceNode (in Node newNode)
                                      raises(DOMException);
Node               swapNode;
};
```

2.1.1 Attributes

The **Elements** interface as specified in the [DOM Level 2 - Core] is extended by the addition of the following attributes:

▪ canHaveChildren

▪ canHaveHTML

▪ parentElement

▪ sourceIndex

2.1.1.1 canHaveChildren

canHaveChildren of type `boolean`, **read-only**

Gets a Boolean value indicating whether the object can contain child objects. Objects do not have to contain children for the **canHaveChildren** attribute to return `true`. The **canHaveChildren** attribute is useful in determining whether objects can be appended as children. The property has no default value.

2.1.1.2 canHaveHTML

canHaveHTML of type `boolean`

Retrieves the Boolean value indicating whether the object can contain rich HTML markup. The property is read-only for all objects except the **defaults** object, which is read-write. The property has no default value.

2.1.1.3 parentElement

parentElement of type `Element,` **read-only**

Retrieves the parent object in the object hierarchy. The highest object returns null as its parent. The property has no default value.

2.1.1.4 scopeName

Quirks Mode, IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)

scopeName of type `String`, **read-only**

Gets the namespace defined for the element. The property has a default value of `HTML`.

2.1.1.5 sourceIndex

sourceIndex of type `long`, **read-only**

Retrieves the ordinal position of the object, in source order, as the object appears in the document's **all** collection. The property has no default value.

2.1.1.6 tagUrn

Quirks Mode, IE7 Mode, IE8 Mode, and IE9 Mode (All Versions)

tagUrn of type `String`

Sets or gets the Uniform Resource Name (URN) specified in the namespace declaration. The property has a default value of `null`.

2.1.2 Methods

The **Element** interface is extended by the addition of the following methods:

- applyElement

- clearAttributes

- contains

- insertAdjacentElement

- mergeAttributes

- removeNode

- replaceNode

- swapNode

2.1.2.1 applyElement

`applyElement`

The **applyElement** method makes the element either a child or parent of another element. The **applyElement** method is accessible at run time. If elements are removed at run time before the closing tag is parsed, areas of the document might not render.

Parameters

oNewElement of type `Element`

An object that becomes the child or parent of the current element.

sWhere of type `String`

Optional. If **outside**, the specified element becomes parent of the current element. The default parameter is **outside**. If **inside**, the specified element becomes a child of the current element, but contains all the child elements of the current element.

Return Value

Element The applied element, **oNewElement**.

JScript Error

E_INVALIDARG: Raised if **oNewElement** is null, **oNewElement** is outside the root node, or if **oNewElement** is not owned by the current document.

2.1.2.2 clearAttributes

```
clearAttributes
```

The **clearAttributes** method removes attributes and values from the object. It clears persistent HTML attributes only; the **ID** attribute, styles, and script-only properties are not affected.

Parameters

None.

Return Value

None.

No Jscript Error

2.1.2.3 contains

```
contains
```

The **contains** method checks whether the specified element is contained within the object.

Parameters

```
oElement
```

Element object that specifies the element to check.

Return Value

Boolean. Returns one of the following possible values:

   `True` - The element is contained within the object.

   `False` - The element is not contained within the object.

JScript Error

The error **'null' is null or not an object** is raised if **elements** defined in the script are not present.

2.1.2.4 insertAdjacentElement

```
insertAdjacentElement
```

The **insertAdjacentElement** method inserts an element at the specified location. Text cannot be inserted while a document is loading; the onload event must be completed before attempting to call the **insertAdjacentElement** method.

Parameters

sWhere

A String that specifies where to insert the HTML element, using one of the following values:

beforeBegin - Inserts **oElement** immediately before the object.

afterBegin - Inserts **oElement** after the start of the object, but before all other content in the object.

beforeEnd - Inserts **oElement** immediately before the end of the object, but after all other content in the object.

afterEnd - Inserts **oElement** immediately after the end of the object.

oElement

Object that specifies the element to be inserted adjacent to the object that invoked the **insertAdjacentElement** method.

Return Value

Returns an element object.

No JScript Error

2.1.2.5 mergeAttributes

mergeAttributes

The **mergeAttributes** method copies all read/write HTML attributes, events, and styles from one element to another specified element.

Parameters

oSource

Pointer to an **Object** that specifies the attributes copied to the object that invokes the attributes of the **mergeAttributes** method.

bPreserve

Optional. Pointer to a Boolean value that specifies one of the following values:

True - Default. The **id** and **name** attributes of the element to which attributes are being merged is preserved.

False - The **id** and **name** attributes of the element to which attributes are being merged are not preserved.

Return Value

No return value.

2.1.2.6 removeNode

`removeNode`

The **removeNode** method removes the specified object from the document hierarchy. The **removeNode** method is accessible at run time. If elements are removed at run time, before the closing tag is parsed, areas of the document might not render.

Parameters

`bRemoveChildren`

Optional. A Boolean parameter that specifies one of the following values:

`False` - Default. The **childNodes** collection of the object is not removed.

`True` - The **childNodes** collection of the object is removed.

Return Value

Returns a reference to the removed object.

2.1.2.7 replaceNode

`replaceNode`

The **replaceNode** method replaces the object with another element. When a node is replaced, all values that are associated with the replaced object are removed. The **replaceNode** method is accessible at run time. If elements are removed at run time before the closing tag is parsed, areas of the document might not render.

Parameters

`oNewNode`

An object that specifies the new element to replace the object.

Return Value

Returns a reference to the removed object.

2.1.2.8 swapNode

`swapNode`

The **swapNode** method exchanges the location of two objects in the document hierarchy. This method is accessible at run time. If elements are removed at run time, before the closing tag is parsed, areas of the document might not render.

Parameters

`oNode`

Element that specifies the existing element.

Return Values

Returns a reference to the object that invoked the method.

2.1.3 Collections

The following collections are extensions to the **Elements** interface as specified in the [DOM Level 2 - Core]:

- all

- children

2.1.3.1 all

```
all
```

Returns a reference to the collection of elements contained by the object.

Note. The **all** extension is not supported (does not exist) in IE11 Mode.

The **all** collection includes one element object for each valid HTML tag. If a valid tag has a matching end tag, both tags are represented by the same element object.

The collection returned by the document's **all** collection always includes a reference to the **html**, **head**, and **title** objects regardless of whether the tags are present in the document. If the BODY tag is not present, but other HTML tags are, a **body** object is added to the **all** collection.

If the document contains invalid or unknown tags, the collection includes one element object for each. Unlike valid end tags, unknown end tags are represented by their own element objects. The order of the element objects is the HTML source order. Although the collection indicates the order of tags, it does not indicate hierarchy.

The **name** property only applies to some elements such as **form** elements. If the `vIndex` is set to a string matching the value of a **name** property in an element that the **name** property does not apply, then that element is not added to the collection.

Syntax

[collAll =] object.**all**

[oObject =] object.**all**(vIndex [, iSubIndex])

Possible Values

collAll   Array of elements contained by the object.

oObject   Reference to an individual item in the array of elements contained by the object.

vIndex   Required. Integer or string that specifies the element or collection to retrieve. If this parameter is an integer, the method returns the element in the collection at the specified position, where the first element has value 0, the second has 1, and so on. If this parameter is a string and there is more than one element with the **name** or **id** property equal to the string, the method returns a collection of matching elements.

iSubIndex   Optional. Position of an element to retrieve. This parameter is used when `vIndex` is a string. The method uses the string to construct a collection of all elements that have a **name** or **id** property equal to the string, and then retrieves from this collection the element at the position specified by `iSubIndex`.

Members Table

The following table lists the members exposed by the **all** object.

Attributes

Attribute	Description
length	Sets or retrieves the number of objects in a collection.

Methods

Method	Description
item	Retrieves an object from various collections, including the **all** collection.
namedItem	Retrieves an object or a collection from a specified collection.
tags	Retrieves a collection of objects that have the specified HTML tag name.
urns	Retrieves a collection of all objects to which a specified behavior is attached.

2.1.3.2 children

children

Retrieves a collection of DHTML Objects that are direct descendants of the object.

Similar to the objects contained in the **all** collection, the objects contained in the **children** collection are undefined if the child elements are overlapping tags.

The **children** collection can contain HTML elements.

Syntax

[collAll =] object.**children**

[oObject =] object.**children**(vIndex [, iSubIndex])

Possible Values

collAll Array of elements contained by the object.

oObject Reference to an individual item in the array of elements contained by the object.

vIndex Required. Integer or string that specifies the element or collection to retrieve. If this parameter is an integer, the method returns the element in the collection at the specified position, where the first element has value 0, the second has 1, and so on. If this parameter is a string and there is more than one element with the **name** or **id** property equal to the string, the method returns a collection of matching elements.

iSubIndex Optional. Position of an element to retrieve. This parameter is used when **vIndex** is a string. The method uses the string to construct a collection of all elements that have a **name** or **id** property equal to the string, and then retrieves from this collection the element at the position specified by **iSubIndex**.

Members Table

The following table lists the members exposed by the **children** object.

Attributes

Attribute	Description
constructor	Returns a reference to the constructor of an object.
length	Sets or retrieves the number of objects in a collection.

Methods

Method	Description
item	Retrieves an object from various collections, including the **all** collection.
tags	Retrieves a collection of objects that have the specified HTML tag name.
urns	Retrieves a collection of all objects to which a specified behavior is attached.

2.2   Extensions to the Comment Interface

The following attributes of the **Comment** Interface are prototype extensions to the Comment interface of the Document Object Model (DOM) Level 2 Core Specification [DOM Level 2 - Core].

Attributes

The **Comment** interface is extended by the text and atomic attributes. For details, see Attributes.

The following IDL Definition documents the **Comment** interface:

```
interface Comment : CharacterData {
// Extension of DOM Level 2:
  attribute  text;
  readonly attribute  atomic;
};
```

2.2.1   Attributes

The **Comment** interface as specified in the [DOM Level 2 - Core] is extended by the addition of the text attribute.

2.2.1.1   text

text of type DOMString

The **text** attribute retrieves or sets the text of the object as a string.

2.2.1.2   atomic

atomic

The **atomic** attribute is functional but has been deprecated. The use of **atomic** indicates whether **comment** is a standalone tag or is used in a tag pair.

Parameters

None

Return Values

Returns one of the following possible values:

- `1` – if the comment is self-closing `<!-- -->` style.

- `0` – if the comment uses the deprecated `<comment>` tag.

2.3   Extensions to the Document Interface

The following methods are extensions to the **Document** interface of the Document Object Model (DOM) Level 2 Core Specification [DOM Level 2 - Core]:

- clear

- removeNode

- replaceNode

- swapNode

The following IDL definition documents the **Document** interface:

```
interface Element : Node {
// Extension of DOM Level 2:
boolean             clear;
boolean             removeNode;
Node                replaceNode (in Node newNode)
                              raises(DOMException);
Node                swapNode;
};
```

2.3.1   Methods

The following properties are extensions to the **Document** interface as specified in the [DOM Level 2 - Core]:

- clear

- removeNode

- replaceNode

- swapNode

2.3.1.1   clear

`clear`

The **clear** method removes all key/value pairs from the DOM Storage area. Session storage is cleared immediately. Local storage key/value pairs are removed from memory, and disk storage quota is updated.

Return Value

None

JScript Error

None

2.3.1.2 removeNode

removeNode

The **removeNode** method removes the object from the document hierarchy.

Parameters

bRemoveChildren

Optional. A Boolean parameter that specifies one of the following values:

False - Default. **childNodes** collection of the object is not removed.

True – **childNodes** collection of the object is removed.

Return Value

Returns a reference to the removed object.

2.3.1.3 replaceNode

replaceNode

The **replaceNode** method replaces the object with another element. When a node is replaced, all values that are associated with the replaced object are removed. The **replaceNode** method is accessible at run time. If elements are removed at run time before the closing tag is parsed, areas of the document might not render.

Parameters

oNewNode

An element that specifies the new element to replace the object.

Return Value

Returns a reference to the removed object.

2.3.1.4 swapNode

swapNode

The **swapNode** method exchanges the location of two objects in the document hierarchy. This method is accessible at run time. If elements are removed at run time, before the closing tag is parsed, areas of the document might not render.

Parameters

oNode

Element that specifies the existing element.

Return Values

Returns a reference to the object that invoked the method.

2.4   Extensions to the Text Interface

The following methods are extensions to the **Text** interface of the Document Object Model (DOM) Level 2 Core Specification [DOM Level 2 - Core]:

- removeNode

- replaceNode

- swapNode

The following IDL definition documents the **Document** interface:

```
interface Element : Node {
// Extension of DOM Level 2:
boolean              removeNode;
Node                 replaceNode (in Node newNode)
                                    raises(DOMException);
Node                 swapNode;

};
```

2.4.1   Methods

The following properties are extensions to the **Text** interface as specified in the [DOM Level 2 - Core]:

- removeNode

- replaceNode

- swapNode

2.4.1.1   removeNode

removeNode

The **removeNode** removes the object from the document hierarchy.

Parameters

bRemoveChildren

Optional. A Boolean parameter that specifies one of the following values:

False - Default. **childNodes** collection of the object is not removed.

True - **childNodes** collection of the object is removed.

Return Value

Returns a reference to the removed object.

2.4.1.2   replaceNode

replaceNode

The **replaceNode** method replaces the object with another element.

Parameters

oNewNode

An element that specifies the new element to replace the object.

Return Value

Returns a reference to the removed object.

2.4.1.3 swapNode

swapNode

The **swapNode** method exchanges the location of two objects in the document hierarchy. This method is accessible at run time. If elements are removed at run time, before the closing tag is parsed, areas of the document might not render.

Parameters

oNode

Element that specifies the existing element.

Return Values

Returns a reference to the object that invoked the method.

3 Security Considerations

No security considerations.

4   Appendix A: Product Behavior

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

- Windows Internet Explorer 7

- Windows Internet Explorer 8

- Windows Internet Explorer 9

- Windows Internet Explorer 10

- Internet Explorer 11

- Internet Explorer 11 for Windows 10

- Microsoft Edge

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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.

5   Change Tracking

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

6   Index