**Specification**

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|  |  |
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1. **Overview**

This document describes the requirements for the implementation of the Eco.DOMCoreLevel1 component. (component)

* 1. **Introduction**

Description.

* 1. **Note**
* Keywords
  1. **Links**

This paragraph contains links to information to help you understand this document:

[] – name of the link

Available by: http://address

1. **Eco.DOMCoreLevel1 Component**

The Eco.DOMCoreLevel1 component is

The component has the following description:

1. **IEcoDOMCoreL1Attr Interface**
   1. **IEcoDOMCoreL1Attr IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(9183D328-B66D-46F5-83E5-805E651FAFA1),  ] | | | |
| interface IEcoDOMCoreL1Attr : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***get\_name*** | (); |
|  | |  |  |
| int16\_t | | ***get\_specified*** | (); |
|  | |  |  |
| DOMString\_t | | ***get\_value*** | (); |
|  | |  |  |
| void | | ***set\_value*** | ([in] DOMString\_t value); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_name function**

The function

* + 1. **get\_specified function**

The function

* + 1. **get\_value function**

The function

* + 1. **set\_value function**

The function

1. **IEcoDOMCoreL1Node** **Interface**
   1. **IEcoDOMCoreL1Node IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl" | | | |
| [  object,  uguid(56EFE23E-5A21-4A0D-95AD-92409ABE8231),  ] | | | |
| interface IEcoDOMCoreL1Node : IEcoUnknown { | | | |
|  | | | |
| DOMString\_t | | ***get\_nodeName*** | ([in] const UGUID\* rcid); |
|  | | | |
| DOMString\_t | | ***get\_nodeValue*** | ([in] void); |
|  | |  |  |
| void | | ***set\_nodeValue*** | ([in] DOMString\_t nodeValue); |
|  | |  |  |
| uint16\_t | | ***get\_nodeType*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***get\_parentNode*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1NodeList\* | | ***get\_childNodes*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***get\_firstChild*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***get\_lastChild*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***get\_previousSibling*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***get\_nextSibling*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1NamedNodeMap\* | | ***get\_attributes*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Document\* | | ***get\_ownerDocument*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***insertBefore*** | ([in] struct IEcoDOMCoreL1Node\* newChild,  [in] struct IEcoDOMCoreL1Node\* refChild); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***replaceChild*** | ([in] struct IEcoDOMCoreL1Node\* newChild,  [in] struct IEcoDOMCoreL1Node\* oldChild); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***removeChild*** | ([in] struct IEcoDOMCoreL1Node\* oldChild); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***appendChild*** | ([in] struct IEcoDOMCoreL1Node\* newChild); |
|  | |  |  |
| int16\_t | | ***hasChildNodes*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***cloneNode*** | ([in] int16\_t deep); |
|  | |  |  |
|  | | | |
| } | |  |  |

* + 1. **get\_nodeName function**

The function

* + 1. **get\_nodeValue function**

The function

* + 1. **set\_nodeValue function**

The function

* + 1. **get\_nodeType function**

The function

* + 1. **get\_parentNode function**

The function

* + 1. **get\_childNodes function**

The function

* + 1. **get\_firstChild function**

The function

* + 1. **get\_lastChild function**

The function

* + 1. **get\_previousSibling function**

The function

* + 1. **get\_nextSibling function**

The function

* + 1. **get\_attributes function**

The function

* + 1. **get\_ownerDocument function**

The function

* + 1. **insertBefore function**

The function inserts the node newChild before the existing child node refChild. If refChild is null, insert newChild at the end of the list of children.

* + 1. **replaceChild function**

The function replaces the child node oldChild with newChild in the list of children, and returns the oldChild node. If the newChild is already in the tree, it is first removed.

* + 1. **removeChild function**

The function removes the child node indicated by oldChild from the list of children, and returns it

* + 1. **appendChild function**

The function adds the node newChild to the end of the list of children of this node. If the newChild is already in the tree, it is first removed.

* + 1. **hasChildNodes function**

The function returns **true** if the node has any children, **false** if the node has no children.

* + 1. **cloneNode function**

The function returns a duplicate of this node, i.e., serves as a generic copy constructor for nodes.

1. **IEcoDOMCoreL1NodeList** **Interface**
   1. **IEcoDOMCoreL1NodeList IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(B3E5DDA8-19DA-4AF9-BCAF-8792A8B30044),  ] | | | |
| interface IEcoDOMCoreL1NodeList : IEcoUnknown { | | | |
|  | | | |
| IEcoDOMCoreL1Node\* | | ***item*** | ([in] uint32\_t index); |
|  | | | |
| uint32\_t | | ***get\_length*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **item function**

The function returns the **index** item in the collection

* + 1. **get\_length function**

The function returns number of nodes in the list.

1. **IEcoDOMCoreL1CDATASection** **Interface**
   1. **IEcoDOMCoreL1CDATASection IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(C10EA3C0-D86D-45C3-A72B-C49B801CBA5D),  ] | | | |
| interface IEcoDOMCoreL1CDATASection : IEcoDOMCoreL1Text { | | | |
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|  | |  |  |
| } | |  |  |

* + 1. **function**

The function

1. **IEcoDOMCoreL1CharacterData** **Interface**
   1. **IEcoDOMCoreL1CharacterData IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(92EE1708-0312-4D68-8DD3-0D07E5E6B53B),  ] | | | |
| interface IEcoDOMCoreL1CharacterData : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***get\_data*** | (); |
|  | | | |
| uint32\_t | | ***get\_length*** | (); |
|  | |  |  |
| DOMString\_t | | ***substringData*** | (uint32\_t offset, uint32\_t coun); |
|  | |  |  |
| void | | ***appendData*** | (DOMString\_t arg); |
|  | |  |  |
| void | | ***insertData*** | (uint32\_t offset,  DOMString\_t arg); |
|  | |  |  |
| void | | ***deleteData*** | (uint32\_t offset,  uint32\_t count); |
|  | |  |  |
| void | | ***replaceData*** | (uint32\_t offset,  uint32\_t count,  DOMString\_t arg); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_data function**

The function

* + 1. **get\_length function**

The function

* + 1. **substringData function**

The function extracts a range of data from the node.

* + 1. **appendData function**

The function append the string to the end of the character data of the node.

* + 1. **insertData function**

The function insert a string at the specified character offset.

* + 1. **deleteData function**

The function remove a range of characters from the node.

* + 1. **replaceData function**

The function replace the characters starting at the specified character offset with the specified string.

1. **IEcoDOMCoreL1Comment** **Interface**
   1. **IEcoDOMCoreL1Comment IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(51176E19-2053-474C-BBF4-D466535152E4),  ] | | | |
| interface IEcoDOMCoreL1Comment : IEcoDOMCoreL1CharacterData { | | | |
|  | | | |
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|  | |  |  |
| } | |  |  |

* + 1. **function**

The function

1. **IEcoDOMCoreL1Document** **Interface**
   1. **IEcoDOMCoreL1Document IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl"  import "IEcoDOMCoreL1DocumentType.idl"  import "IEcoDOMCoreL1DOMImplementation.idl"  import "IEcoDOMCoreL1Element.idl"  import "IEcoDOMCoreL1DocumentFragment.idl"  import "IEcoDOMCoreL1Text.idl"  import "IEcoDOMCoreL1Comment.idl"  import "IEcoDOMCoreL1CDATASection.idl"  import "IEcoDOMCoreL1ProcessingInstruction.idl"  import "IEcoDOMCoreL1Attr.idl"  import "IEcoDOMCoreL1EntityReference.idl"  import "IEcoDOMCoreL1NodeList.idl" | | | |
| [  object,  uguid(B42C12DE-DD64-4A53-9A18-ECC0175C6434),  ] | | | |
| interface IEcoDOMCoreL1Document : IEcoDOMCoreL1Node { | | | |
|  | | | |
| struct IEcoDOMCoreL1DocumentType\* | | ***get\_doctype*** | (); |
|  | | | |
| struct IEcoDOMCoreL1DOMImplementation\* | | ***get\_implementation*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Element\* | | ***get\_documentElement*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Element\* | | ***createElement*** | (DOMString\_t tagName); |
|  | |  |  |
| struct IEcoDOMCoreL1DocumentFragment\* | | ***createDocumentFragment*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1Text\* | | ***createTextNode*** | (DOMString\_t data); |
|  | |  |  |
| struct IEcoDOMCoreL1Comment\* | | ***createComment*** | (DOMString\_t data); |
|  | |  |  |
| struct IEcoDOMCoreL1CDATASection\* | | ***createCDATASection*** | (DOMString\_t data); |
|  | |  |  |
| struct IEcoDOMCoreL1ProcessingInstruction\* | | ***createProcessingInstruction*** | (DOMString\_t target,  DOMString\_t data); |
|  | |  |  |
| struct IEcoDOMCoreL1Attr\* | | ***createAttribute*** | (DOMString\_t name); |
|  | |  |  |
| struct IEcoDOMCoreL1EntityReference\* | | ***createEntityReference*** | (DOMString\_t name); |
|  | |  |  |
| struct IEcoDOMCoreL1NodeList\* | | ***getElementsByTagName*** | (DOMString\_t tagname); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_doctype function**

The function return document Type Declaration associated with this document.

* + 1. **get\_implementation function**

The function

* + 1. **get\_documentElement function**

The function

* + 1. **createElement function**

The function creates an element of the type specified.

* + 1. **createDocumentFragment function**

The function creates an empty DocumentFragment object.

* + 1. **createTextNode function**

The function creates a Text node given the specified string.

* + 1. **createComment function**

The function creates a Comment node given the specified string.

* + 1. **createCDATASection function**

The function creates a CDATASection node whose value is the specified string.

* + 1. **createProcessingInstruction function**

The function creates a ProcessingInstruction node given the specified name and data strings.

* + 1. **createAttribute function**

The function creates an Attr of the given name.

* + 1. **createEntityReference function**

The function creates an EntityReference object.

* + 1. **getElementsByTagName function**

The function returns a NodeList of all the Elements with a given tag name in the order in which they would be encountered in a preorder traversal of the Document tree.

1. **IEcoDOMCoreL1DocumentFragment** **Interface**
   1. **IEcoDOMCoreL1DocumentFragment IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(38898D1D-22E1-477D-898A-E482976BDB49),  ] | | | |
| interface IEcoDOMCoreL1DocumentFragment : IEcoDOMCoreL1Node { | | | |
|  | | | |
|  | |  |  |
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|  | |  |  |
|  | |  |  |
|  | |  |  |
| } | |  |  |

* + 1. **function**

The function

1. **IEcoDOMCoreL1DocumentType** **Interface**
   1. **IEcoDOMCoreL1DocumentType IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(E532E69A-CD1E-4841-A0B0-010F5D7A5DE9),  ] | | | |
| interface IEcoDOMCoreL1DocumentType : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***name*** | (); |
|  | | | |
| struct IEcoDOMCoreL1NamedNodeMap\* | | ***entities*** | (); |
|  | |  |  |
| struct IEcoDOMCoreL1NamedNodeMap\* | | ***notations*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **name function**

The function

* + 1. **entities function**

The function

* + 1. **notations function**

The function

1. **IEcoDOMCoreL1DOMImplementation** **Interface**
   1. **IEcoDOMCoreL1DOMImplementation IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(9D8E7345-B780-4D40-8A10-175B10EBAF8B),  ] | | | |
| interface IEcoDOMCoreL1DOMImplementation : IEcoUnknown { | | | |
|  | | | |
| int16\_t | | ***hasFeature*** | (DOMString\_t feature,  DOMString\_t version); |
|  | | | |
| } | |  |  |

* + 1. **hasFeature function**

The function test if the DOM implementation implements a specific feature.

1. **IEcoDOMCoreL1Element** **Interface**
   1. **IEcoDOMCoreL1Element IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl"  import "IEcoDOMCoreL1Attr.idl" | | | |
| [  object,  uguid(D74FD4AE-5CA9-4B7F-AD45-45CCCC8A2ADD),  ] | | | |
| interface IEcoDOMCoreL1Element : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***get\_tagName*** | (); |
|  | | | |
| DOMString\_t | | ***getAttribute*** | (); |
|  | |  |  |
| void | | ***setAttribute*** | (DOMString\_t name); |
|  | |  |  |
| void | | ***removeAttribute*** | (DOMString\_t name,  DOMString\_t value); |
|  | |  |  |
| struct IEcoDOMCoreL1Attr\* | | ***getAttributeNode*** | (DOMString\_t name); |
|  | |  |  |
| struct IEcoDOMCoreL1Attr\* | | ***setAttributeNode*** | (IEcoDOMCoreL1Attr newAttr); |
|  | |  |  |
| struct IEcoDOMCoreL1Attr\* | | ***removeAttributeNode*** | (IEcoDOMCoreL1Attr oldAttr); |
|  | |  |  |
| struct IEcoDOMCoreL1NodeList\* | | ***getElementsByTagName*** | (DOMString\_t name); |
|  | |  |  |
| void | | ***normalize*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_tagName function**

The function

* + 1. **getAttribute function**

The function retrieves an attribute value by name.

* + 1. **setAttribute function**

The function adds a new attribute.

* + 1. **removeAttribute function**

The function removes an attribute by name.

* + 1. **getAttributeNode function**

The function retrieves an Attr node by name.

* + 1. **setAttributeNode function**

The function adds a new attribute. If an attribute with that name is already present in the element, it is replaced by the new one.

* + 1. **removeAttributeNode function**

The function removes the specified attribute

* + 1. **getElementsByTagName function**

The function returns a NodeList of all descendant elements with a given tag name, in the order in which they would be encountered in a preorder traversal of the Element tree.

* + 1. **normalize function**

The function puts all Text nodes in the full depth of the sub-tree underneath this Element into a "normal" form where only markup separates Text nodes, i.e., there are no adjacent Text nodes.

1. **IEcoDOMCoreL1Entity** **Interface**
   1. **IEcoDOMCoreL1Entity IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(A214F9E7-C2B6-43BF-B84F-D756DE37A45D),  ] | | | |
| interface IEcoDOMCoreL1Entity : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***publicId*** | (); |
|  | | | |
| DOMString\_t | | ***systemId*** | (); |
|  | |  |  |
| DOMString\_t | | ***notationName*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **publicId function**

The function

* + 1. **systemId function**

The function

* + 1. **notationName function**

The function

1. **IEcoDOMCoreL1EntityReference** **Interface**
   1. **IEcoDOMCoreL1EntityReference IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(3925B3FE-08B3-4C24-9592-D08BA5FFE138),  ] | | | |
| interface IEcoDOMCoreL1EntityReference : IEcoDOMCoreL1Node { | | | |
|  | | | |
|  | |  |  |
|  | | | |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
|  | |  |  |
| } | |  |  |

* + 1. **function**

The function

1. **IEcoDOMCoreL1NamedNodeMap** **Interface**
   1. **IEcoDOMCoreL1NamedNodeMap IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(AA5444FF-3463-4ABF-B266-E6AE0FAD962F),  ] | | | |
| interface IEcoDOMCoreL1NamedNodeMap : IEcoUnknown { | | | |
|  | | | |
| struct IEcoDOMCoreL1Node\* | | ***getNamedItem*** | (DOMString\_t name); |
|  | | | |
| struct IEcoDOMCoreL1Node\* | | ***setNamedItem*** | (IEcoDOMCoreL1Node\* arg); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***removeNamedItem*** | (DOMString\_t name); |
|  | |  |  |
| struct IEcoDOMCoreL1Node\* | | ***item*** | (uint32\_t index); |
|  | |  |  |
| uint32\_t | | ***length*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **getNamedItem function**

The function retrieves a node specified by name.

* + 1. **setNamedItem function**

The function adds a node using its arg attribute.

* + 1. **removeNamedItem function**

The function removes a node specified by name.

* + 1. **item function**

The function returns the index item in the map.

* + 1. **length function**

The function

1. **IEcoDOMCoreL1Notation** **Interface**
   1. **IEcoDOMCoreL1Notation IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(F3269BF6-680D-40CB-AA7D-C4FFB0D90C8C),  ] | | | |
| interface IEcoDOMCoreL1Notation : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***publicId*** | (); |
|  | | | |
| DOMString\_t | | ***systemId*** | (); |
|  | |  |  |
| } | |  |  |

* + 1. **publicId function**

The function

* + 1. **systemId function**

The function

1. **IEcoDOMCoreL1ProcessingInstruction** **Interface**
   1. **IEcoDOMCoreL1ProcessingInstruction IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(A16FA184-EDB1-4FC9-9C92-5EE2E37FD5C9),  ] | | | |
| interface IEcoDOMCoreL1ProcessingInstruction : IEcoDOMCoreL1Node { | | | |
|  | | | |
| DOMString\_t | | ***get\_target*** | (); |
|  | | | |
| DOMString\_t | | ***get\_data*** | (); |
|  | |  |  |
| void | | ***set\_data*** | ([in] DOMString\_t data); |
|  | |  |  |
| } | |  |  |

* + 1. **get\_target function**

The function

* + 1. **get\_data function**

The function

* + 1. **set\_data function**

The function

1. **IEcoDOMCoreL1Text** **Interface**
   1. **IEcoDOMCoreL1Text IDL**

|  |
| --- |
| **ECO IDL** |
| import "IEcoBase1.idl"  import "IEcoDOMCoreL1Node.idl" | | | |
| [  object,  uguid(61AD612A-C1CC-4430-AD5D-0BE2EE643BFE),  ] | | | |
| interface IEcoDOMCoreL1Text : IEcoDOMCoreL1CharacterData { | | | |
|  | | | |
| struct IEcoDOMCoreL1Text\* | | ***splitText*** | (uint32\_t offset); |
|  | | | |
| } | |  |  |

* + 1. **splitText function**

The function breaks this Text node into two Text nodes at the specified offset, keeping both in the tree as siblings.

1. **Error codes**

The following table contains the error codes.

|  |  |  |
| --- | --- | --- |
| **Error code** | **Value** | **Description** |
| ERR\_ECO\_SUCCESES | 0x0000 | Operation successful. |
| ERR\_ECO\_UNEXPECTED | 0xFFFF | Unexpected condition. |
| ERR\_ECO\_POINTER | 0xFFEE | NULL was passed incorrectly for a pointer value. |
| ERR\_ECO\_NOINTERFACE | 0xFFED | No such interface supported. |
| ERR\_ECO\_COMPONENT\_NOTFOUND | 0xFFE9 | The component was not found. |
|  |  |  |
|  |  |  |

# **Appendix A: Training programs**