| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SOAPElement.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/xml/soap/SOAPConstants.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/soap/SOAPElementFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/soap/SOAPElement.html)    [**NO FRAMES**](http://docs.google.com/SOAPElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#2s8eyo1) |

## **javax.xml.soap**

Interface SOAPElement

**All Superinterfaces:** [Element](http://docs.google.com/org/w3c/dom/Element.html), [Node](http://docs.google.com/org/w3c/dom/Node.html) **All Known Subinterfaces:** [Detail](http://docs.google.com/javax/xml/soap/Detail.html), [DetailEntry](http://docs.google.com/javax/xml/soap/DetailEntry.html), [SOAPBody](http://docs.google.com/javax/xml/soap/SOAPBody.html), [SOAPBodyElement](http://docs.google.com/javax/xml/soap/SOAPBodyElement.html), [SOAPEnvelope](http://docs.google.com/javax/xml/soap/SOAPEnvelope.html), [SOAPFault](http://docs.google.com/javax/xml/soap/SOAPFault.html), [SOAPFaultElement](http://docs.google.com/javax/xml/soap/SOAPFaultElement.html), [SOAPHeader](http://docs.google.com/javax/xml/soap/SOAPHeader.html), [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html)

public interface **SOAPElement**extends [Node](http://docs.google.com/javax/xml/soap/Node.html), [Element](http://docs.google.com/org/w3c/dom/Element.html)

An object representing an element of a SOAP message that is allowed but not specifically prescribed by a SOAP specification. This interface serves as the base interface for those objects that are specifically prescribed by a SOAP specification.

Methods in this interface that are required to return SAAJ specific objects may "silently" replace nodes in the tree as required to successfully return objects of the correct type. See [getChildElements()](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements()) and [javax.xml.soap](http://docs.google.com/package-summary.html#package_description) for details.

| **Field Summary** | |
| --- | --- |

| **Fields inherited from interface org.w3c.dom.**[**Node**](http://docs.google.com/org/w3c/dom/Node.html) |
| --- |
| [ATTRIBUTE\_NODE](http://docs.google.com/org/w3c/dom/Node.html#ATTRIBUTE_NODE), [CDATA\_SECTION\_NODE](http://docs.google.com/org/w3c/dom/Node.html#CDATA_SECTION_NODE), [COMMENT\_NODE](http://docs.google.com/org/w3c/dom/Node.html#COMMENT_NODE), [DOCUMENT\_FRAGMENT\_NODE](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_FRAGMENT_NODE), [DOCUMENT\_NODE](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_NODE), [DOCUMENT\_POSITION\_CONTAINED\_BY](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_CONTAINED_BY), [DOCUMENT\_POSITION\_CONTAINS](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_CONTAINS), [DOCUMENT\_POSITION\_DISCONNECTED](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_DISCONNECTED), [DOCUMENT\_POSITION\_FOLLOWING](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_FOLLOWING), [DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC), [DOCUMENT\_POSITION\_PRECEDING](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_POSITION_PRECEDING), [DOCUMENT\_TYPE\_NODE](http://docs.google.com/org/w3c/dom/Node.html#DOCUMENT_TYPE_NODE), [ELEMENT\_NODE](http://docs.google.com/org/w3c/dom/Node.html#ELEMENT_NODE), [ENTITY\_NODE](http://docs.google.com/org/w3c/dom/Node.html#ENTITY_NODE), [ENTITY\_REFERENCE\_NODE](http://docs.google.com/org/w3c/dom/Node.html#ENTITY_REFERENCE_NODE), [NOTATION\_NODE](http://docs.google.com/org/w3c/dom/Node.html#NOTATION_NODE), [PROCESSING\_INSTRUCTION\_NODE](http://docs.google.com/org/w3c/dom/Node.html#PROCESSING_INSTRUCTION_NODE), [TEXT\_NODE](http://docs.google.com/org/w3c/dom/Node.html#TEXT_NODE) |

| **Method Summary** | |
| --- | --- |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addAttribute**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addAttribute(javax.xml.soap.Name,%20java.lang.String))([Name](http://docs.google.com/javax/xml/soap/Name.html) name, [String](http://docs.google.com/java/lang/String.html) value)            Adds an attribute with the specified name and value to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addAttribute**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addAttribute(javax.xml.namespace.QName,%20java.lang.String))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname, [String](http://docs.google.com/java/lang/String.html) value)            Adds an attribute with the specified name and value to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.soap.Name))([Name](http://docs.google.com/javax/xml/soap/Name.html) name)            Creates a new SOAPElement object initialized with the given Name object and adds the new element to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)            Creates a new SOAPElement object initialized with the given QName object and adds the new element to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.soap.SOAPElement))([SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) element)            Add a SOAPElement as a child of this SOAPElement instance. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String))([String](http://docs.google.com/java/lang/String.html) localName)            Creates a new SOAPElement object initialized with the specified local name and adds the new element to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) localName, [String](http://docs.google.com/java/lang/String.html) prefix)            Creates a new SOAPElement object initialized with the specified local name and prefix and adds the new element to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addChildElement**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String,%20java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) localName, [String](http://docs.google.com/java/lang/String.html) prefix, [String](http://docs.google.com/java/lang/String.html) uri)            Creates a new SOAPElement object initialized with the specified local name, prefix, and URI and adds the new element to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addNamespaceDeclaration**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addNamespaceDeclaration(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) prefix, [String](http://docs.google.com/java/lang/String.html) uri)            Adds a namespace declaration with the specified prefix and URI to this SOAPElement object. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**addTextNode**](http://docs.google.com/javax/xml/soap/SOAPElement.html#addTextNode(java.lang.String))([String](http://docs.google.com/java/lang/String.html) text)            Creates a new Text object initialized with the given String and adds it to this SOAPElement object. |
| [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**createQName**](http://docs.google.com/javax/xml/soap/SOAPElement.html#createQName(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) localName, [String](http://docs.google.com/java/lang/String.html) prefix)            Creates a QName whose namespace URI is the one associated with the parameter, prefix, in the context of this SOAPElement. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getAllAttributes**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributes())()            Returns an Iterator over all of the attribute Name objects in this SOAPElement object. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getAllAttributesAsQNames**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributesAsQNames())()            Returns an Iterator over all of the attributes in this SOAPElement as QName objects. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAttributeValue**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.soap.Name))([Name](http://docs.google.com/javax/xml/soap/Name.html) name)            Returns the value of the attribute with the specified name. |
| [String](http://docs.google.com/java/lang/String.html) | [**getAttributeValue**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)            Returns the value of the attribute with the specified qname. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getChildElements**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements())()            Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getChildElements**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.soap.Name))([Name](http://docs.google.com/javax/xml/soap/Name.html) name)            Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element with the specified name. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getChildElements**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)            Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element with the specified qname. |
| [Name](http://docs.google.com/javax/xml/soap/Name.html) | [**getElementName**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getElementName())()            Returns the name of this SOAPElement object. |
| [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**getElementQName**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getElementQName())()            Returns the qname of this SOAPElement object. |
| [String](http://docs.google.com/java/lang/String.html) | [**getEncodingStyle**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getEncodingStyle())()            Returns the encoding style for this SOAPElement object. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getNamespacePrefixes**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getNamespacePrefixes())()            Returns an Iterator over the namespace prefix Strings declared by this element. |
| [String](http://docs.google.com/java/lang/String.html) | [**getNamespaceURI**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getNamespaceURI(java.lang.String))([String](http://docs.google.com/java/lang/String.html) prefix)            Returns the URI of the namespace that has the given prefix. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getVisibleNamespacePrefixes**](http://docs.google.com/javax/xml/soap/SOAPElement.html#getVisibleNamespacePrefixes())()            Returns an Iterator over the namespace prefix Strings visible to this element. |
| boolean | [**removeAttribute**](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.soap.Name))([Name](http://docs.google.com/javax/xml/soap/Name.html) name)            Removes the attribute with the specified name. |
| boolean | [**removeAttribute**](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)            Removes the attribute with the specified qname. |
| void | [**removeContents**](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeContents())()            Detaches all children of this SOAPElement. |
| boolean | [**removeNamespaceDeclaration**](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeNamespaceDeclaration(java.lang.String))([String](http://docs.google.com/java/lang/String.html) prefix)            Removes the namespace declaration corresponding to the given prefix. |
| [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) | [**setElementQName**](http://docs.google.com/javax/xml/soap/SOAPElement.html#setElementQName(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) newName)            Changes the name of this Element to newName if possible. |
| void | [**setEncodingStyle**](http://docs.google.com/javax/xml/soap/SOAPElement.html#setEncodingStyle(java.lang.String))([String](http://docs.google.com/java/lang/String.html) encodingStyle)            Sets the encoding style for this SOAPElement object to one specified. |

| **Methods inherited from interface javax.xml.soap.**[**Node**](http://docs.google.com/javax/xml/soap/Node.html) |
| --- |
| [detachNode](http://docs.google.com/javax/xml/soap/Node.html#detachNode()), [getParentElement](http://docs.google.com/javax/xml/soap/Node.html#getParentElement()), [getValue](http://docs.google.com/javax/xml/soap/Node.html#getValue()), [recycleNode](http://docs.google.com/javax/xml/soap/Node.html#recycleNode()), [setParentElement](http://docs.google.com/javax/xml/soap/Node.html#setParentElement(javax.xml.soap.SOAPElement)), [setValue](http://docs.google.com/javax/xml/soap/Node.html#setValue(java.lang.String)) |

| **Methods inherited from interface org.w3c.dom.**[**Element**](http://docs.google.com/org/w3c/dom/Element.html) |
| --- |
| [getAttribute](http://docs.google.com/org/w3c/dom/Element.html#getAttribute(java.lang.String)), [getAttributeNode](http://docs.google.com/org/w3c/dom/Element.html#getAttributeNode(java.lang.String)), [getAttributeNodeNS](http://docs.google.com/org/w3c/dom/Element.html#getAttributeNodeNS(java.lang.String,%20java.lang.String)), [getAttributeNS](http://docs.google.com/org/w3c/dom/Element.html#getAttributeNS(java.lang.String,%20java.lang.String)), [getElementsByTagName](http://docs.google.com/org/w3c/dom/Element.html#getElementsByTagName(java.lang.String)), [getElementsByTagNameNS](http://docs.google.com/org/w3c/dom/Element.html#getElementsByTagNameNS(java.lang.String,%20java.lang.String)), [getSchemaTypeInfo](http://docs.google.com/org/w3c/dom/Element.html#getSchemaTypeInfo()), [getTagName](http://docs.google.com/org/w3c/dom/Element.html#getTagName()), [hasAttribute](http://docs.google.com/org/w3c/dom/Element.html#hasAttribute(java.lang.String)), [hasAttributeNS](http://docs.google.com/org/w3c/dom/Element.html#hasAttributeNS(java.lang.String,%20java.lang.String)), [removeAttribute](http://docs.google.com/org/w3c/dom/Element.html#removeAttribute(java.lang.String)), [removeAttributeNode](http://docs.google.com/org/w3c/dom/Element.html#removeAttributeNode(org.w3c.dom.Attr)), [removeAttributeNS](http://docs.google.com/org/w3c/dom/Element.html#removeAttributeNS(java.lang.String,%20java.lang.String)), [setAttribute](http://docs.google.com/org/w3c/dom/Element.html#setAttribute(java.lang.String,%20java.lang.String)), [setAttributeNode](http://docs.google.com/org/w3c/dom/Element.html#setAttributeNode(org.w3c.dom.Attr)), [setAttributeNodeNS](http://docs.google.com/org/w3c/dom/Element.html#setAttributeNodeNS(org.w3c.dom.Attr)), [setAttributeNS](http://docs.google.com/org/w3c/dom/Element.html#setAttributeNS(java.lang.String,%20java.lang.String,%20java.lang.String)), [setIdAttribute](http://docs.google.com/org/w3c/dom/Element.html#setIdAttribute(java.lang.String,%20boolean)), [setIdAttributeNode](http://docs.google.com/org/w3c/dom/Element.html#setIdAttributeNode(org.w3c.dom.Attr,%20boolean)), [setIdAttributeNS](http://docs.google.com/org/w3c/dom/Element.html#setIdAttributeNS(java.lang.String,%20java.lang.String,%20boolean)) |

| **Methods inherited from interface org.w3c.dom.**[**Node**](http://docs.google.com/org/w3c/dom/Node.html) |
| --- |
| [appendChild](http://docs.google.com/org/w3c/dom/Node.html#appendChild(org.w3c.dom.Node)), [cloneNode](http://docs.google.com/org/w3c/dom/Node.html#cloneNode(boolean)), [compareDocumentPosition](http://docs.google.com/org/w3c/dom/Node.html#compareDocumentPosition(org.w3c.dom.Node)), [getAttributes](http://docs.google.com/org/w3c/dom/Node.html#getAttributes()), [getBaseURI](http://docs.google.com/org/w3c/dom/Node.html#getBaseURI()), [getChildNodes](http://docs.google.com/org/w3c/dom/Node.html#getChildNodes()), [getFeature](http://docs.google.com/org/w3c/dom/Node.html#getFeature(java.lang.String,%20java.lang.String)), [getFirstChild](http://docs.google.com/org/w3c/dom/Node.html#getFirstChild()), [getLastChild](http://docs.google.com/org/w3c/dom/Node.html#getLastChild()), [getLocalName](http://docs.google.com/org/w3c/dom/Node.html#getLocalName()), [getNamespaceURI](http://docs.google.com/org/w3c/dom/Node.html#getNamespaceURI()), [getNextSibling](http://docs.google.com/org/w3c/dom/Node.html#getNextSibling()), [getNodeName](http://docs.google.com/org/w3c/dom/Node.html#getNodeName()), [getNodeType](http://docs.google.com/org/w3c/dom/Node.html#getNodeType()), [getNodeValue](http://docs.google.com/org/w3c/dom/Node.html#getNodeValue()), [getOwnerDocument](http://docs.google.com/org/w3c/dom/Node.html#getOwnerDocument()), [getParentNode](http://docs.google.com/org/w3c/dom/Node.html#getParentNode()), [getPrefix](http://docs.google.com/org/w3c/dom/Node.html#getPrefix()), [getPreviousSibling](http://docs.google.com/org/w3c/dom/Node.html#getPreviousSibling()), [getTextContent](http://docs.google.com/org/w3c/dom/Node.html#getTextContent()), [getUserData](http://docs.google.com/org/w3c/dom/Node.html#getUserData(java.lang.String)), [hasAttributes](http://docs.google.com/org/w3c/dom/Node.html#hasAttributes()), [hasChildNodes](http://docs.google.com/org/w3c/dom/Node.html#hasChildNodes()), [insertBefore](http://docs.google.com/org/w3c/dom/Node.html#insertBefore(org.w3c.dom.Node,%20org.w3c.dom.Node)), [isDefaultNamespace](http://docs.google.com/org/w3c/dom/Node.html#isDefaultNamespace(java.lang.String)), [isEqualNode](http://docs.google.com/org/w3c/dom/Node.html#isEqualNode(org.w3c.dom.Node)), [isSameNode](http://docs.google.com/org/w3c/dom/Node.html#isSameNode(org.w3c.dom.Node)), [isSupported](http://docs.google.com/org/w3c/dom/Node.html#isSupported(java.lang.String,%20java.lang.String)), [lookupNamespaceURI](http://docs.google.com/org/w3c/dom/Node.html#lookupNamespaceURI(java.lang.String)), [lookupPrefix](http://docs.google.com/org/w3c/dom/Node.html#lookupPrefix(java.lang.String)), [normalize](http://docs.google.com/org/w3c/dom/Node.html#normalize()), [removeChild](http://docs.google.com/org/w3c/dom/Node.html#removeChild(org.w3c.dom.Node)), [replaceChild](http://docs.google.com/org/w3c/dom/Node.html#replaceChild(org.w3c.dom.Node,%20org.w3c.dom.Node)), [setNodeValue](http://docs.google.com/org/w3c/dom/Node.html#setNodeValue(java.lang.String)), [setPrefix](http://docs.google.com/org/w3c/dom/Node.html#setPrefix(java.lang.String)), [setTextContent](http://docs.google.com/org/w3c/dom/Node.html#setTextContent(java.lang.String)), [setUserData](http://docs.google.com/org/w3c/dom/Node.html#setUserData(java.lang.String,%20java.lang.Object,%20org.w3c.dom.UserDataHandler)) |

| **Method Detail** |
| --- |

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([Name](http://docs.google.com/javax/xml/soap/Name.html) name)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new SOAPElement object initialized with the given Name object and adds the new element to this SOAPElement object.

This method may be deprecated in a future release of SAAJ in favor of addChildElement(javax.xml.namespace.QName)

**Parameters:**name - a Name object with the XML name for the new element **Returns:**the new SOAPElement object that was created **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the SOAPElement object**See Also:**[addChildElement(javax.xml.namespace.QName)](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.namespace.QName))

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new SOAPElement object initialized with the given QName object and adds the new element to this SOAPElement object. The *namespace*, *localname* and *prefix* of the new SOAPElement are all taken from the qname argument.

**Parameters:**qname - a QName object with the XML name for the new element **Returns:**the new SOAPElement object that was created **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the SOAPElement object**Since:** SAAJ 1.3 **See Also:**[addChildElement(Name)](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.soap.Name))

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([String](http://docs.google.com/java/lang/String.html) localName)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new SOAPElement object initialized with the specified local name and adds the new element to this SOAPElement object. The new SOAPElement inherits any in-scope default namespace.

**Parameters:**localName - a String giving the local name for the element **Returns:**the new SOAPElement object that was created **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the SOAPElement object

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([String](http://docs.google.com/java/lang/String.html) localName,  
 [String](http://docs.google.com/java/lang/String.html) prefix)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new SOAPElement object initialized with the specified local name and prefix and adds the new element to this SOAPElement object.

**Parameters:**localName - a String giving the local name for the new elementprefix - a String giving the namespace prefix for the new element **Returns:**the new SOAPElement object that was created **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if the prefix is not valid in the context of this SOAPElement or if there is an error in creating the SOAPElement object

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([String](http://docs.google.com/java/lang/String.html) localName,  
 [String](http://docs.google.com/java/lang/String.html) prefix,  
 [String](http://docs.google.com/java/lang/String.html) uri)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new SOAPElement object initialized with the specified local name, prefix, and URI and adds the new element to this SOAPElement object.

**Parameters:**localName - a String giving the local name for the new elementprefix - a String giving the namespace prefix for the new elementuri - a String giving the URI of the namespace to which the new element belongs **Returns:**the new SOAPElement object that was created **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the SOAPElement object

### addChildElement

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addChildElement**([SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) element)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Add a SOAPElement as a child of this SOAPElement instance. The SOAPElement is expected to be created by a SOAPFactory. Callers should not rely on the element instance being added as is into the XML tree. Implementations could end up copying the content of the SOAPElement passed into an instance of a different SOAPElement implementation. For instance if addChildElement() is called on a SOAPHeader, element will be copied into an instance of a SOAPHeaderElement.

The fragment rooted in element is either added as a whole or not at all, if there was an error.

The fragment rooted in element cannot contain elements named "Envelope", "Header" or "Body" and in the SOAP namespace. Any namespace prefixes present in the fragment should be fully resolved using appropriate namespace declarations within the fragment itself.

**Parameters:**element - the SOAPElement to be added as a new child **Returns:**an instance representing the new SOAP element that was actually added to the tree. **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there was an error in adding this element as a child

### removeContents

void **removeContents**()

Detaches all children of this SOAPElement.

This method is useful for rolling back the construction of partially completed SOAPHeaders and SOAPBodys in preparation for sending a fault when an error condition is detected. It is also useful for recycling portions of a document within a SOAP message.

**Since:** SAAJ 1.2

### addTextNode

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addTextNode**([String](http://docs.google.com/java/lang/String.html) text)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new Text object initialized with the given String and adds it to this SOAPElement object.

**Parameters:**text - a String object with the textual content to be added **Returns:**the SOAPElement object into which the new Text object was inserted **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the new Text object or if it is not legal to attach it as a child to this SOAPElement

### addAttribute

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addAttribute**([Name](http://docs.google.com/javax/xml/soap/Name.html) name,  
 [String](http://docs.google.com/java/lang/String.html) value)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Adds an attribute with the specified name and value to this SOAPElement object.

**Parameters:**name - a Name object with the name of the attributevalue - a String giving the value of the attribute **Returns:**the SOAPElement object into which the attribute was inserted **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the Attribute, or it is invalid to set an attribute with Name name on this SOAPElement.**See Also:**[addAttribute(javax.xml.namespace.QName, String)](http://docs.google.com/javax/xml/soap/SOAPElement.html#addAttribute(javax.xml.namespace.QName,%20java.lang.String))

### addAttribute

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addAttribute**([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname,  
 [String](http://docs.google.com/java/lang/String.html) value)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Adds an attribute with the specified name and value to this SOAPElement object.

**Parameters:**qname - a QName object with the name of the attributevalue - a String giving the value of the attribute **Returns:**the SOAPElement object into which the attribute was inserted **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the Attribute, or it is invalid to set an attribute with QName qname on this SOAPElement.**Since:** SAAJ 1.3 **See Also:**[addAttribute(Name, String)](http://docs.google.com/javax/xml/soap/SOAPElement.html#addAttribute(javax.xml.soap.Name,%20java.lang.String))

### addNamespaceDeclaration

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **addNamespaceDeclaration**([String](http://docs.google.com/java/lang/String.html) prefix,  
 [String](http://docs.google.com/java/lang/String.html) uri)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Adds a namespace declaration with the specified prefix and URI to this SOAPElement object.

**Parameters:**prefix - a String giving the prefix of the namespaceuri - a String giving the uri of the namespace **Returns:**the SOAPElement object into which this namespace declaration was inserted. **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if there is an error in creating the namespace

### getAttributeValue

[String](http://docs.google.com/java/lang/String.html) **getAttributeValue**([Name](http://docs.google.com/javax/xml/soap/Name.html) name)

Returns the value of the attribute with the specified name.

**Parameters:**name - a Name object with the name of the attribute **Returns:**a String giving the value of the specified attribute, Null if there is no such attribute**See Also:**[getAttributeValue(javax.xml.namespace.QName)](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.namespace.QName))

### getAttributeValue

[String](http://docs.google.com/java/lang/String.html) **getAttributeValue**([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)

Returns the value of the attribute with the specified qname.

**Parameters:**qname - a QName object with the qname of the attribute **Returns:**a String giving the value of the specified attribute, Null if there is no such attribute**Since:** SAAJ 1.3 **See Also:**[getAttributeValue(Name)](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.soap.Name))

### getAllAttributes

[Iterator](http://docs.google.com/java/util/Iterator.html) **getAllAttributes**()

Returns an Iterator over all of the attribute Name objects in this SOAPElement object. The iterator can be used to get the attribute names, which can then be passed to the method getAttributeValue to retrieve the value of each attribute.

**Returns:**an iterator over the names of the attributes**See Also:**[getAllAttributesAsQNames()](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributesAsQNames())

### getAllAttributesAsQNames

[Iterator](http://docs.google.com/java/util/Iterator.html) **getAllAttributesAsQNames**()

Returns an Iterator over all of the attributes in this SOAPElement as QName objects. The iterator can be used to get the attribute QName, which can then be passed to the method getAttributeValue to retrieve the value of each attribute.

**Returns:**an iterator over the QNames of the attributes**Since:** SAAJ 1.3 **See Also:**[getAllAttributes()](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributes())

### getNamespaceURI

[String](http://docs.google.com/java/lang/String.html) **getNamespaceURI**([String](http://docs.google.com/java/lang/String.html) prefix)

Returns the URI of the namespace that has the given prefix.

**Parameters:**prefix - a String giving the prefix of the namespace for which to search **Returns:**a String with the uri of the namespace that has the given prefix

### getNamespacePrefixes

[Iterator](http://docs.google.com/java/util/Iterator.html) **getNamespacePrefixes**()

Returns an Iterator over the namespace prefix Strings declared by this element. The prefixes returned by this iterator can be passed to the method getNamespaceURI to retrieve the URI of each namespace.

**Returns:**an iterator over the namespace prefixes in this SOAPElement object

### getVisibleNamespacePrefixes

[Iterator](http://docs.google.com/java/util/Iterator.html) **getVisibleNamespacePrefixes**()

Returns an Iterator over the namespace prefix Strings visible to this element. The prefixes returned by this iterator can be passed to the method getNamespaceURI to retrieve the URI of each namespace.

**Returns:**an iterator over the namespace prefixes are within scope of this SOAPElement object**Since:** SAAJ 1.2

### createQName

[QName](http://docs.google.com/javax/xml/namespace/QName.html) **createQName**([String](http://docs.google.com/java/lang/String.html) localName,  
 [String](http://docs.google.com/java/lang/String.html) prefix)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a QName whose namespace URI is the one associated with the parameter, prefix, in the context of this SOAPElement. The remaining elements of the new QName are taken directly from the parameters, localName and prefix.

**Parameters:**localName - a String containing the local part of the name.prefix - a String containing the prefix for the name. **Returns:**a QName with the specified localName and prefix, and with a namespace that is associated with the prefix in the context of this SOAPElement. This namespace will be the same as the one that would be returned by [getNamespaceURI(String)](http://docs.google.com/javax/xml/soap/SOAPElement.html#getNamespaceURI(java.lang.String)) if it were given prefix as it's parameter. **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if the QName cannot be created.**Since:** SAAJ 1.3

### getElementName

[Name](http://docs.google.com/javax/xml/soap/Name.html) **getElementName**()

Returns the name of this SOAPElement object.

**Returns:**a Name object with the name of this SOAPElement object

### getElementQName

[QName](http://docs.google.com/javax/xml/namespace/QName.html) **getElementQName**()

Returns the qname of this SOAPElement object.

**Returns:**a QName object with the qname of this SOAPElement object**Since:** SAAJ 1.3 **See Also:**[getElementName()](http://docs.google.com/javax/xml/soap/SOAPElement.html#getElementName())

### setElementQName

[SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html) **setElementQName**([QName](http://docs.google.com/javax/xml/namespace/QName.html) newName)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Changes the name of this Element to newName if possible. SOAP Defined elements such as SOAPEnvelope, SOAPHeader, SOAPBody etc. cannot have their names changed using this method. Any attempt to do so will result in a SOAPException being thrown.

Callers should not rely on the element instance being renamed as is. Implementations could end up copying the content of the SOAPElement to a renamed instance.

**Parameters:**newName - the new name for the Element. **Returns:**The renamed Node **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if changing the name of this Element is not allowed.**Since:** SAAJ 1.3

### removeAttribute

boolean **removeAttribute**([Name](http://docs.google.com/javax/xml/soap/Name.html) name)

Removes the attribute with the specified name.

**Parameters:**name - the Name object with the name of the attribute to be removed **Returns:**true if the attribute was removed successfully; false if it was not**See Also:**[removeAttribute(javax.xml.namespace.QName)](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.namespace.QName))

### removeAttribute

boolean **removeAttribute**([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)

Removes the attribute with the specified qname.

**Parameters:**qname - the QName object with the qname of the attribute to be removed **Returns:**true if the attribute was removed successfully; false if it was not**Since:** SAAJ 1.3 **See Also:**[removeAttribute(Name)](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.soap.Name))

### removeNamespaceDeclaration

boolean **removeNamespaceDeclaration**([String](http://docs.google.com/java/lang/String.html) prefix)

Removes the namespace declaration corresponding to the given prefix.

**Parameters:**prefix - a String giving the prefix for which to search **Returns:**true if the namespace declaration was removed successfully; false if it was not

### getChildElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **getChildElements**()

Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element. This includes javax.xml.soap.Text objects as well as SOAPElement objects.

Calling this method may cause child Element, SOAPElement and org.w3c.dom.Text nodes to be replaced by SOAPElement, SOAPHeaderElement, SOAPBodyElement or javax.xml.soap.Text nodes as appropriate for the type of this parent node. As a result the calling application must treat any existing references to these child nodes that have been obtained through DOM APIs as invalid and either discard them or refresh them with the values returned by this Iterator. This behavior can be avoided by calling the equivalent DOM APIs. See [javax.xml.soap](http://docs.google.com/package-summary.html#package_description) for more details.

**Returns:**an iterator with the content of this SOAPElement object

### getChildElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **getChildElements**([Name](http://docs.google.com/javax/xml/soap/Name.html) name)

Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element with the specified name. All of these children will be SOAPElement nodes.

Calling this method may cause child Element, SOAPElement and org.w3c.dom.Text nodes to be replaced by SOAPElement, SOAPHeaderElement, SOAPBodyElement or javax.xml.soap.Text nodes as appropriate for the type of this parent node. As a result the calling application must treat any existing references to these child nodes that have been obtained through DOM APIs as invalid and either discard them or refresh them with the values returned by this Iterator. This behavior can be avoided by calling the equivalent DOM APIs. See [javax.xml.soap](http://docs.google.com/package-summary.html#package_description) for more details.

**Parameters:**name - a Name object with the name of the child elements to be returned **Returns:**an Iterator object over all the elements in this SOAPElement object with the specified name**See Also:**[getChildElements(javax.xml.namespace.QName)](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.namespace.QName))

### getChildElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **getChildElements**([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)

Returns an Iterator over all the immediate child [Node](http://docs.google.com/javax/xml/soap/Node.html)s of this element with the specified qname. All of these children will be SOAPElement nodes.

Calling this method may cause child Element, SOAPElement and org.w3c.dom.Text nodes to be replaced by SOAPElement, SOAPHeaderElement, SOAPBodyElement or javax.xml.soap.Text nodes as appropriate for the type of this parent node. As a result the calling application must treat any existing references to these child nodes that have been obtained through DOM APIs as invalid and either discard them or refresh them with the values returned by this Iterator. This behavior can be avoided by calling the equivalent DOM APIs. See [javax.xml.soap](http://docs.google.com/package-summary.html#package_description) for more details.

**Parameters:**qname - a QName object with the qname of the child elements to be returned **Returns:**an Iterator object over all the elements in this SOAPElement object with the specified qname**Since:** SAAJ 1.3 **See Also:**[getChildElements(Name)](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.soap.Name))

### setEncodingStyle

void **setEncodingStyle**([String](http://docs.google.com/java/lang/String.html) encodingStyle)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Sets the encoding style for this SOAPElement object to one specified.

**Parameters:**encodingStyle - a String giving the encoding style **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if there was a problem in the encoding style being set. [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if setting the encodingStyle is invalid for this SOAPElement.**See Also:**[getEncodingStyle()](http://docs.google.com/javax/xml/soap/SOAPElement.html#getEncodingStyle())

### getEncodingStyle

[String](http://docs.google.com/java/lang/String.html) **getEncodingStyle**()

Returns the encoding style for this SOAPElement object.

**Returns:**a String giving the encoding style**See Also:**[setEncodingStyle(java.lang.String)](http://docs.google.com/javax/xml/soap/SOAPElement.html#setEncodingStyle(java.lang.String))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SOAPElement.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/xml/soap/SOAPConstants.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/soap/SOAPElementFactory.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/soap/SOAPElement.html)    [**NO FRAMES**](http://docs.google.com/SOAPElement.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#2s8eyo1) |

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For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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