| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SOAPHeader.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/SOAPFaultElement.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/soap/SOAPHeader.html)    [**NO FRAMES**](http://docs.google.com/SOAPHeader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#17dp8vu) |

## **javax.xml.soap**

Interface SOAPHeader

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

public interface **SOAPHeader**extends [SOAPElement](http://docs.google.com/javax/xml/soap/SOAPElement.html)

A representation of the SOAP header element. A SOAP header element consists of XML data that affects the way the application-specific content is processed by the message provider. For example, transaction semantics, authentication information, and so on, can be specified as the content of a SOAPHeader object.

A SOAPEnvelope object contains an empty SOAPHeader object by default. If the SOAPHeader object, which is optional, is not needed, it can be retrieved and deleted with the following line of code. The variable *se* is a SOAPEnvelope object.

se.getHeader().detachNode();

A SOAPHeader object is created with the SOAPEnvelope method addHeader. This method, which creates a new header and adds it to the envelope, may be called only after the existing header has been removed.

se.getHeader().detachNode();  
 SOAPHeader sh = se.addHeader();

A SOAPHeader object can have only SOAPHeaderElement objects as its immediate children. The method addHeaderElement creates a new HeaderElement object and adds it to the SOAPHeader object. In the following line of code, the argument to the method addHeaderElement is a Name object that is the name for the new HeaderElement object.

SOAPHeaderElement shElement = sh.addHeaderElement(name);

**See Also:**[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html)

| **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** | |
| --- | --- |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addHeaderElement(javax.xml.soap.Name))([Name](http://docs.google.com/javax/xml/soap/Name.html) name)            Creates a new SOAPHeaderElement object initialized with the specified name and adds it to this SOAPHeader object. |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addHeaderElement(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) qname)            Creates a new SOAPHeaderElement object initialized with the specified qname and adds it to this SOAPHeader object. |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addNotUnderstoodHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addNotUnderstoodHeaderElement(javax.xml.namespace.QName))([QName](http://docs.google.com/javax/xml/namespace/QName.html) name)            Creates a new NotUnderstood SOAPHeaderElement object initialized with the specified name and adds it to this SOAPHeader object. |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addUpgradeHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addUpgradeHeaderElement(java.util.Iterator))([Iterator](http://docs.google.com/java/util/Iterator.html) supportedSOAPURIs)            Creates a new Upgrade SOAPHeaderElement object initialized with the specified List of supported SOAP URIs and adds it to this SOAPHeader object. |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addUpgradeHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addUpgradeHeaderElement(java.lang.String))([String](http://docs.google.com/java/lang/String.html) supportedSoapUri)            Creates a new Upgrade SOAPHeaderElement object initialized with the specified supported SOAP URI and adds it to this SOAPHeader object. |
| [SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**addUpgradeHeaderElement**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addUpgradeHeaderElement(java.lang.String%5B%5D))([String](http://docs.google.com/java/lang/String.html)[] supportedSoapUris)            Creates a new Upgrade SOAPHeaderElement object initialized with the specified array of supported SOAP URIs and adds it to this SOAPHeader object. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**examineAllHeaderElements**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineAllHeaderElements())()            Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**examineHeaderElements**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineHeaderElements(java.lang.String))([String](http://docs.google.com/java/lang/String.html) actor)            Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor*. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**examineMustUnderstandHeaderElements**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineMustUnderstandHeaderElements(java.lang.String))([String](http://docs.google.com/java/lang/String.html) actor)            Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor* and that have a MustUnderstand attribute whose value is equivalent to true. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**extractAllHeaderElements**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#extractAllHeaderElements())()            Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object and detaches them from this SOAPHeader object. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**extractHeaderElements**](http://docs.google.com/javax/xml/soap/SOAPHeader.html#extractHeaderElements(java.lang.String))([String](http://docs.google.com/java/lang/String.html) actor)            Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor* and detaches them from this SOAPHeader object. |

| **Methods inherited from interface javax.xml.soap.**[**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)), [addAttribute](http://docs.google.com/javax/xml/soap/SOAPElement.html#addAttribute(javax.xml.namespace.QName,%20java.lang.String)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.soap.Name)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.namespace.QName)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(javax.xml.soap.SOAPElement)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String,%20java.lang.String)), [addChildElement](http://docs.google.com/javax/xml/soap/SOAPElement.html#addChildElement(java.lang.String,%20java.lang.String,%20java.lang.String)), [addNamespaceDeclaration](http://docs.google.com/javax/xml/soap/SOAPElement.html#addNamespaceDeclaration(java.lang.String,%20java.lang.String)), [addTextNode](http://docs.google.com/javax/xml/soap/SOAPElement.html#addTextNode(java.lang.String)), [createQName](http://docs.google.com/javax/xml/soap/SOAPElement.html#createQName(java.lang.String,%20java.lang.String)), [getAllAttributes](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributes()), [getAllAttributesAsQNames](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAllAttributesAsQNames()), [getAttributeValue](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.soap.Name)), [getAttributeValue](http://docs.google.com/javax/xml/soap/SOAPElement.html#getAttributeValue(javax.xml.namespace.QName)), [getChildElements](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements()), [getChildElements](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.soap.Name)), [getChildElements](http://docs.google.com/javax/xml/soap/SOAPElement.html#getChildElements(javax.xml.namespace.QName)), [getElementName](http://docs.google.com/javax/xml/soap/SOAPElement.html#getElementName()), [getElementQName](http://docs.google.com/javax/xml/soap/SOAPElement.html#getElementQName()), [getEncodingStyle](http://docs.google.com/javax/xml/soap/SOAPElement.html#getEncodingStyle()), [getNamespacePrefixes](http://docs.google.com/javax/xml/soap/SOAPElement.html#getNamespacePrefixes()), [getNamespaceURI](http://docs.google.com/javax/xml/soap/SOAPElement.html#getNamespaceURI(java.lang.String)), [getVisibleNamespacePrefixes](http://docs.google.com/javax/xml/soap/SOAPElement.html#getVisibleNamespacePrefixes()), [removeAttribute](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.soap.Name)), [removeAttribute](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeAttribute(javax.xml.namespace.QName)), [removeContents](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeContents()), [removeNamespaceDeclaration](http://docs.google.com/javax/xml/soap/SOAPElement.html#removeNamespaceDeclaration(java.lang.String)), [setElementQName](http://docs.google.com/javax/xml/soap/SOAPElement.html#setElementQName(javax.xml.namespace.QName)), [setEncodingStyle](http://docs.google.com/javax/xml/soap/SOAPElement.html#setEncodingStyle(java.lang.String)) |

| **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** |
| --- |

### addHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addHeaderElement**([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 SOAPHeaderElement object initialized with the specified name and adds it to this SOAPHeader object.

**Parameters:**name - a Name object with the name of the new SOAPHeaderElement object **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs**See Also:**[addHeaderElement(javax.xml.namespace.QName)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addHeaderElement(javax.xml.namespace.QName))

### addHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addHeaderElement**([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 SOAPHeaderElement object initialized with the specified qname and adds it to this SOAPHeader object.

**Parameters:**qname - a QName object with the qname of the new SOAPHeaderElement object **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs**Since:** SAAJ 1.3 **See Also:**[addHeaderElement(Name)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#addHeaderElement(javax.xml.soap.Name))

### examineMustUnderstandHeaderElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **examineMustUnderstandHeaderElements**([String](http://docs.google.com/java/lang/String.html) actor)

Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor* and that have a MustUnderstand attribute whose value is equivalent to true.

In SOAP 1.2 the *env:actor* attribute is replaced by the *env:role* attribute, but with essentially the same semantics.

**Parameters:**actor - a String giving the URI of the actor / role for which to search **Returns:**an Iterator object over all the SOAPHeaderElement objects that contain the specified actor / role and are marked as MustUnderstand**Since:** SAAJ 1.2 **See Also:**[examineHeaderElements(java.lang.String)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineHeaderElements(java.lang.String)), [extractHeaderElements(java.lang.String)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#extractHeaderElements(java.lang.String)), [SOAPConstants.URI\_SOAP\_ACTOR\_NEXT](http://docs.google.com/javax/xml/soap/SOAPConstants.html#URI_SOAP_ACTOR_NEXT)

### examineHeaderElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **examineHeaderElements**([String](http://docs.google.com/java/lang/String.html) actor)

Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor*. An *actor* is a global attribute that indicates the intermediate parties that should process a message before it reaches its ultimate receiver. An actor receives the message and processes it before sending it on to the next actor. The default actor is the ultimate intended recipient for the message, so if no actor attribute is included in a SOAPHeader object, it is sent to the ultimate receiver along with the message body.

In SOAP 1.2 the *env:actor* attribute is replaced by the *env:role* attribute, but with essentially the same semantics.

**Parameters:**actor - a String giving the URI of the actor / role for which to search **Returns:**an Iterator object over all the SOAPHeaderElement objects that contain the specified actor / role**See Also:**[extractHeaderElements(java.lang.String)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#extractHeaderElements(java.lang.String)), [SOAPConstants.URI\_SOAP\_ACTOR\_NEXT](http://docs.google.com/javax/xml/soap/SOAPConstants.html#URI_SOAP_ACTOR_NEXT)

### extractHeaderElements

[Iterator](http://docs.google.com/java/util/Iterator.html) **extractHeaderElements**([String](http://docs.google.com/java/lang/String.html) actor)

Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object that have the specified *actor* and detaches them from this SOAPHeader object.

This method allows an actor to process the parts of the SOAPHeader object that apply to it and to remove them before passing the message on to the next actor.

In SOAP 1.2 the *env:actor* attribute is replaced by the *env:role* attribute, but with essentially the same semantics.

**Parameters:**actor - a String giving the URI of the actor / role for which to search **Returns:**an Iterator object over all the SOAPHeaderElement objects that contain the specified actor / role**See Also:**[examineHeaderElements(java.lang.String)](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineHeaderElements(java.lang.String)), [SOAPConstants.URI\_SOAP\_ACTOR\_NEXT](http://docs.google.com/javax/xml/soap/SOAPConstants.html#URI_SOAP_ACTOR_NEXT)

### addNotUnderstoodHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addNotUnderstoodHeaderElement**([QName](http://docs.google.com/javax/xml/namespace/QName.html) name)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new NotUnderstood SOAPHeaderElement object initialized with the specified name and adds it to this SOAPHeader object. This operation is supported only by SOAP 1.2.

**Parameters:**name - a QName object with the name of the SOAPHeaderElement object that was not understood. **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs. [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html) - if this is a SOAP 1.1 Header.**Since:** SAAJ 1.3

### addUpgradeHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addUpgradeHeaderElement**([Iterator](http://docs.google.com/java/util/Iterator.html) supportedSOAPURIs)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new Upgrade SOAPHeaderElement object initialized with the specified List of supported SOAP URIs and adds it to this SOAPHeader object. This operation is supported on both SOAP 1.1 and SOAP 1.2 header.

**Parameters:**supportedSOAPURIs - an Iterator object with the URIs of SOAP versions supported. **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs.**Since:** SAAJ 1.3

### addUpgradeHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addUpgradeHeaderElement**([String](http://docs.google.com/java/lang/String.html)[] supportedSoapUris)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new Upgrade SOAPHeaderElement object initialized with the specified array of supported SOAP URIs and adds it to this SOAPHeader object. This operation is supported on both SOAP 1.1 and SOAP 1.2 header.

**Parameters:**supportedSoapUris - an array of the URIs of SOAP versions supported. **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs.**Since:** SAAJ 1.3

### addUpgradeHeaderElement

[SOAPHeaderElement](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) **addUpgradeHeaderElement**([String](http://docs.google.com/java/lang/String.html) supportedSoapUri)  
 throws [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html)

Creates a new Upgrade SOAPHeaderElement object initialized with the specified supported SOAP URI and adds it to this SOAPHeader object. This operation is supported on both SOAP 1.1 and SOAP 1.2 header.

**Parameters:**supportedSoapUri - the URI of SOAP the version that is supported. **Returns:**the new SOAPHeaderElement object that was inserted into this SOAPHeader object **Throws:** [SOAPException](http://docs.google.com/javax/xml/soap/SOAPException.html) - if a SOAP error occurs.**Since:** SAAJ 1.3

### examineAllHeaderElements

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

Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object.

**Returns:**an Iterator object over all the SOAPHeaderElement objects contained by this SOAPHeader**Since:** SAAJ 1.2 **See Also:**[extractAllHeaderElements()](http://docs.google.com/javax/xml/soap/SOAPHeader.html#extractAllHeaderElements())

### extractAllHeaderElements

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

Returns an Iterator over all the SOAPHeaderElement objects in this SOAPHeader object and detaches them from this SOAPHeader object.

**Returns:**an Iterator object over all the SOAPHeaderElement objects contained by this SOAPHeader**Since:** SAAJ 1.2 **See Also:**[examineAllHeaderElements()](http://docs.google.com/javax/xml/soap/SOAPHeader.html#examineAllHeaderElements())

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/SOAPHeader.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/SOAPFaultElement.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/soap/SOAPHeaderElement.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/soap/SOAPHeader.html)    [**NO FRAMES**](http://docs.google.com/SOAPHeader.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#17dp8vu) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

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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