| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DOMSignContext.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   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMValidateContext.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/dom/DOMSignContext.html)    [**NO FRAMES**](http://docs.google.com/DOMSignContext.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#lnxbz9) |

## **javax.xml.crypto.dsig.dom**

Class DOMSignContext

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [javax.xml.crypto.dom.DOMCryptoContext](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html)  
 **javax.xml.crypto.dsig.dom.DOMSignContext**

**All Implemented Interfaces:** [XMLSignContext](http://docs.google.com/javax/xml/crypto/dsig/XMLSignContext.html), [XMLCryptoContext](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html)

public class **DOMSignContext**extends [DOMCryptoContext](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html)implements [XMLSignContext](http://docs.google.com/javax/xml/crypto/dsig/XMLSignContext.html)

A DOM-specific [XMLSignContext](http://docs.google.com/javax/xml/crypto/dsig/XMLSignContext.html). This class contains additional methods to specify the location in a DOM tree where an [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) object is to be marshalled when generating the signature.

Note that DOMSignContext instances can contain information and state specific to the XML signature structure it is used with. The results are unpredictable if a DOMSignContext is used with different signature structures (for example, you should not use the same DOMSignContext instance to sign two different [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) objects).

**Since:** 1.6

| **Constructor Summary** | |
| --- | --- |
| [**DOMSignContext**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#DOMSignContext(java.security.Key,%20org.w3c.dom.Node))([Key](http://docs.google.com/java/security/Key.html) signingKey, [Node](http://docs.google.com/org/w3c/dom/Node.html) parent)            Creates a DOMSignContext with the specified signing key and parent node. |
| [**DOMSignContext**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#DOMSignContext(java.security.Key,%20org.w3c.dom.Node,%20org.w3c.dom.Node))([Key](http://docs.google.com/java/security/Key.html) signingKey, [Node](http://docs.google.com/org/w3c/dom/Node.html) parent, [Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)            Creates a DOMSignContext with the specified signing key, parent and next sibling nodes. |
| [**DOMSignContext**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#DOMSignContext(javax.xml.crypto.KeySelector,%20org.w3c.dom.Node))([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks, [Node](http://docs.google.com/org/w3c/dom/Node.html) parent)            Creates a DOMSignContext with the specified key selector and parent node. |
| [**DOMSignContext**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#DOMSignContext(javax.xml.crypto.KeySelector,%20org.w3c.dom.Node,%20org.w3c.dom.Node))([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks, [Node](http://docs.google.com/org/w3c/dom/Node.html) parent, [Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)            Creates a DOMSignContext with the specified key selector, parent and next sibling nodes. |

| **Method Summary** | |
| --- | --- |
| [Node](http://docs.google.com/org/w3c/dom/Node.html) | [**getNextSibling**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#getNextSibling())()            Returns the nextSibling node. |
| [Node](http://docs.google.com/org/w3c/dom/Node.html) | [**getParent**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#getParent())()            Returns the parent node. |
| void | [**setNextSibling**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setNextSibling(org.w3c.dom.Node))([Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)            Sets the next sibling node. |
| void | [**setParent**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setParent(org.w3c.dom.Node))([Node](http://docs.google.com/org/w3c/dom/Node.html) parent)            Sets the parent node. |

| **Methods inherited from class javax.xml.crypto.dom.**[**DOMCryptoContext**](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html) |
| --- |
| [get](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#get(java.lang.Object)), [getBaseURI](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getBaseURI()), [getDefaultNamespacePrefix](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getDefaultNamespacePrefix()), [getElementById](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getElementById(java.lang.String)), [getKeySelector](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getKeySelector()), [getNamespacePrefix](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getNamespacePrefix(java.lang.String,%20java.lang.String)), [getProperty](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getProperty(java.lang.String)), [getURIDereferencer](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getURIDereferencer()), [iterator](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#iterator()), [put](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#put(java.lang.Object,%20java.lang.Object)), [putNamespacePrefix](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String)), [setBaseURI](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setBaseURI(java.lang.String)), [setDefaultNamespacePrefix](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setDefaultNamespacePrefix(java.lang.String)), [setIdAttributeNS](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setIdAttributeNS(org.w3c.dom.Element,%20java.lang.String,%20java.lang.String)), [setKeySelector](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setKeySelector(javax.xml.crypto.KeySelector)), [setProperty](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setProperty(java.lang.String,%20java.lang.Object)), [setURIDereferencer](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#setURIDereferencer(javax.xml.crypto.URIDereferencer)) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Methods inherited from interface javax.xml.crypto.**[**XMLCryptoContext**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html) |
| --- |
| [get](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#get(java.lang.Object)), [getBaseURI](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getBaseURI()), [getDefaultNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getDefaultNamespacePrefix()), [getKeySelector](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getKeySelector()), [getNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getNamespacePrefix(java.lang.String,%20java.lang.String)), [getProperty](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getProperty(java.lang.String)), [getURIDereferencer](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getURIDereferencer()), [put](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#put(java.lang.Object,%20java.lang.Object)), [putNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String)), [setBaseURI](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setBaseURI(java.lang.String)), [setDefaultNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setDefaultNamespacePrefix(java.lang.String)), [setKeySelector](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setKeySelector(javax.xml.crypto.KeySelector)), [setProperty](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setProperty(java.lang.String,%20java.lang.Object)), [setURIDereferencer](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setURIDereferencer(javax.xml.crypto.URIDereferencer)) |

| **Constructor Detail** |
| --- |

### DOMSignContext

public **DOMSignContext**([Key](http://docs.google.com/java/security/Key.html) signingKey,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) parent)

Creates a DOMSignContext with the specified signing key and parent node. The signing key is stored in a [singleton KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html#singletonKeySelector(java.security.Key)) that is returned by the [getKeySelector](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getKeySelector()) method. The marshalled XMLSignature will be added as the last child element of the specified parent node unless a next sibling node is specified by invoking the [setNextSibling](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setNextSibling(org.w3c.dom.Node)) method.

**Parameters:**signingKey - the signing keyparent - the parent node **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if signingKey or parent is null

### DOMSignContext

public **DOMSignContext**([Key](http://docs.google.com/java/security/Key.html) signingKey,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) parent,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)

Creates a DOMSignContext with the specified signing key, parent and next sibling nodes. The signing key is stored in a [singleton KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html#singletonKeySelector(java.security.Key)) that is returned by the [getKeySelector](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html#getKeySelector()) method. The marshalled XMLSignature will be inserted as a child element of the specified parent node and immediately before the specified next sibling node.

**Parameters:**signingKey - the signing keyparent - the parent nodenextSibling - the next sibling node **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if signingKey, parent or nextSibling is null

### DOMSignContext

public **DOMSignContext**([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) parent)

Creates a DOMSignContext with the specified key selector and parent node. The marshalled XMLSignature will be added as the last child element of the specified parent node unless a next sibling node is specified by invoking the [setNextSibling](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setNextSibling(org.w3c.dom.Node)) method.

**Parameters:**ks - the key selectorparent - the parent node **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if ks or parent is null

### DOMSignContext

public **DOMSignContext**([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) parent,  
 [Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)

Creates a DOMSignContext with the specified key selector, parent and next sibling nodes. The marshalled XMLSignature will be inserted as a child element of the specified parent node and immediately before the specified next sibling node.

**Parameters:**ks - the key selectorparent - the parent nodenextSibling - the next sibling node **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if ks, parent or nextSibling is null

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

### setParent

public void **setParent**([Node](http://docs.google.com/org/w3c/dom/Node.html) parent)

Sets the parent node.

**Parameters:**parent - the parent node. The marshalled XMLSignature will be added as a child element of this node. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if parent is null**See Also:**[getParent()](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#getParent())

### setNextSibling

public void **setNextSibling**([Node](http://docs.google.com/org/w3c/dom/Node.html) nextSibling)

Sets the next sibling node.

**Parameters:**nextSibling - the next sibling node. The marshalled XMLSignature will be inserted immediately before this node. Specify null to remove the current setting.**See Also:**[getNextSibling()](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#getNextSibling())

### getParent

public [Node](http://docs.google.com/org/w3c/dom/Node.html) **getParent**()

Returns the parent node.

**Returns:**the parent node (never null)**See Also:**[setParent(Node)](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setParent(org.w3c.dom.Node))

### getNextSibling

public [Node](http://docs.google.com/org/w3c/dom/Node.html) **getNextSibling**()

Returns the nextSibling node.

**Returns:**the nextSibling node, or null if not specified.**See Also:**[setNextSibling(Node)](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html#setNextSibling(org.w3c.dom.Node))

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DOMSignContext.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   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMValidateContext.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/dom/DOMSignContext.html)    [**NO FRAMES**](http://docs.google.com/DOMSignContext.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#4d34og8) | [METHOD](#lnxbz9) |

[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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