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

## **javax.xml.crypto**

Interface XMLCryptoContext

**All Known Subinterfaces:** [XMLSignContext](http://docs.google.com/javax/xml/crypto/dsig/XMLSignContext.html), [XMLValidateContext](http://docs.google.com/javax/xml/crypto/dsig/XMLValidateContext.html) **All Known Implementing Classes:** [DOMCryptoContext](http://docs.google.com/javax/xml/crypto/dom/DOMCryptoContext.html), [DOMSignContext](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMSignContext.html), [DOMValidateContext](http://docs.google.com/javax/xml/crypto/dsig/dom/DOMValidateContext.html)

public interface **XMLCryptoContext**

Contains common context information for XML cryptographic operations.

This interface contains methods for setting and retrieving properties that affect the processing of XML signatures or XML encrypted structures.

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

**Since:** 1.6

| **Method Summary** | |
| --- | --- |
| [Object](http://docs.google.com/java/lang/Object.html) | [**get**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#get(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) key)            Returns the value to which this context maps the specified key. |
| [String](http://docs.google.com/java/lang/String.html) | [**getBaseURI**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getBaseURI())()            Returns the base URI. |
| [String](http://docs.google.com/java/lang/String.html) | [**getDefaultNamespacePrefix**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getDefaultNamespacePrefix())()            Returns the default namespace prefix. |
| [KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) | [**getKeySelector**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getKeySelector())()            Returns the key selector for finding a key. |
| [String](http://docs.google.com/java/lang/String.html) | [**getNamespacePrefix**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getNamespacePrefix(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) namespaceURI, [String](http://docs.google.com/java/lang/String.html) defaultPrefix)            Returns the namespace prefix that the specified namespace URI is associated with. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getProperty**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getProperty(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Returns the value of the specified property. |
| [URIDereferencer](http://docs.google.com/javax/xml/crypto/URIDereferencer.html) | [**getURIDereferencer**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getURIDereferencer())()            Returns a URIDereferencer that is used to dereference [URIReference](http://docs.google.com/javax/xml/crypto/URIReference.html)s. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**put**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#put(java.lang.Object,%20java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) key, [Object](http://docs.google.com/java/lang/Object.html) value)            Associates the specified value with the specified key in this context. |
| [String](http://docs.google.com/java/lang/String.html) | [**putNamespacePrefix**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) namespaceURI, [String](http://docs.google.com/java/lang/String.html) prefix)            Maps the specified namespace URI to the specified prefix. |
| void | [**setBaseURI**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setBaseURI(java.lang.String))([String](http://docs.google.com/java/lang/String.html) baseURI)            Sets the base URI. |
| void | [**setDefaultNamespacePrefix**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setDefaultNamespacePrefix(java.lang.String))([String](http://docs.google.com/java/lang/String.html) defaultPrefix)            Sets the default namespace prefix. |
| void | [**setKeySelector**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setKeySelector(javax.xml.crypto.KeySelector))([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks)            Sets the key selector for finding a key. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**setProperty**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setProperty(java.lang.String,%20java.lang.Object))([String](http://docs.google.com/java/lang/String.html) name, [Object](http://docs.google.com/java/lang/Object.html) value)            Sets the specified property. |
| void | [**setURIDereferencer**](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setURIDereferencer(javax.xml.crypto.URIDereferencer))([URIDereferencer](http://docs.google.com/javax/xml/crypto/URIDereferencer.html) dereferencer)            Sets a URIDereferencer that is used to dereference [URIReference](http://docs.google.com/javax/xml/crypto/URIReference.html)s. |

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

### getBaseURI

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

Returns the base URI.

**Returns:**the base URI, or null if not specified**See Also:**[setBaseURI(String)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setBaseURI(java.lang.String))

### setBaseURI

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

Sets the base URI.

**Parameters:**baseURI - the base URI, or null to remove current value **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if baseURI is not RFC 2396 compliant**See Also:**[getBaseURI()](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getBaseURI())

### getKeySelector

[KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) **getKeySelector**()

Returns the key selector for finding a key.

**Returns:**the key selector, or null if not specified**See Also:**[setKeySelector(KeySelector)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setKeySelector(javax.xml.crypto.KeySelector))

### setKeySelector

void **setKeySelector**([KeySelector](http://docs.google.com/javax/xml/crypto/KeySelector.html) ks)

Sets the key selector for finding a key.

**Parameters:**ks - the key selector, or null to remove the current setting**See Also:**[getKeySelector()](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getKeySelector())

### getURIDereferencer

[URIDereferencer](http://docs.google.com/javax/xml/crypto/URIDereferencer.html) **getURIDereferencer**()

Returns a URIDereferencer that is used to dereference [URIReference](http://docs.google.com/javax/xml/crypto/URIReference.html)s.

**Returns:**the URIDereferencer, or null if not specified**See Also:**[setURIDereferencer(URIDereferencer)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setURIDereferencer(javax.xml.crypto.URIDereferencer))

### setURIDereferencer

void **setURIDereferencer**([URIDereferencer](http://docs.google.com/javax/xml/crypto/URIDereferencer.html) dereferencer)

Sets a URIDereferencer that is used to dereference [URIReference](http://docs.google.com/javax/xml/crypto/URIReference.html)s. The specified URIDereferencer is used in place of an implementation's default URIDereferencer.

**Parameters:**dereferencer - the URIDereferencer, or null to remove any current setting**See Also:**[getURIDereferencer()](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getURIDereferencer())

### getNamespacePrefix

[String](http://docs.google.com/java/lang/String.html) **getNamespacePrefix**([String](http://docs.google.com/java/lang/String.html) namespaceURI,  
 [String](http://docs.google.com/java/lang/String.html) defaultPrefix)

Returns the namespace prefix that the specified namespace URI is associated with. Returns the specified default prefix if the specified namespace URI has not been bound to a prefix. To bind a namespace URI to a prefix, call the [putNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String)) method.

**Parameters:**namespaceURI - a namespace URIdefaultPrefix - the prefix to be returned in the event that the the specified namespace URI has not been bound to a prefix. **Returns:**the prefix that is associated with the specified namespace URI, or defaultPrefix if the URI is not registered. If the namespace URI is registered but has no prefix, an empty string ("") is returned. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if namespaceURI is null**See Also:**[putNamespacePrefix(String, String)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String))

### putNamespacePrefix

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

Maps the specified namespace URI to the specified prefix. If there is already a prefix associated with the specified namespace URI, the old prefix is replaced by the specified prefix.

**Parameters:**namespaceURI - a namespace URIprefix - a namespace prefix (or null to remove any existing mapping). Specifying the empty string ("") binds no prefix to the namespace URI. **Returns:**the previous prefix associated with the specified namespace URI, or null if there was none **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if namespaceURI is null**See Also:**[getNamespacePrefix(String, String)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getNamespacePrefix(java.lang.String,%20java.lang.String))

### getDefaultNamespacePrefix

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

Returns the default namespace prefix. The default namespace prefix is the prefix for all namespace URIs not explicitly set by the [putNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String)) method.

**Returns:**the default namespace prefix, or null if none has been set.**See Also:**[setDefaultNamespacePrefix(String)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setDefaultNamespacePrefix(java.lang.String))

### setDefaultNamespacePrefix

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

Sets the default namespace prefix. This sets the namespace prefix for all namespace URIs not explicitly set by the [putNamespacePrefix](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#putNamespacePrefix(java.lang.String,%20java.lang.String)) method.

**Parameters:**defaultPrefix - the default namespace prefix, or null to remove the current setting. Specify the empty string ("") to bind no prefix.**See Also:**[getDefaultNamespacePrefix()](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getDefaultNamespacePrefix())

### setProperty

[Object](http://docs.google.com/java/lang/Object.html) **setProperty**([String](http://docs.google.com/java/lang/String.html) name,  
 [Object](http://docs.google.com/java/lang/Object.html) value)

Sets the specified property.

**Parameters:**name - the name of the propertyvalue - the value of the property to be set **Returns:**the previous value of the specified property, or null if it did not have a value **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null**See Also:**[getProperty(String)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#getProperty(java.lang.String))

### getProperty

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

Returns the value of the specified property.

**Parameters:**name - the name of the property **Returns:**the current value of the specified property, or null if it does not have a value **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if name is null**See Also:**[setProperty(String, Object)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#setProperty(java.lang.String,%20java.lang.Object))

### get

[Object](http://docs.google.com/java/lang/Object.html) **get**([Object](http://docs.google.com/java/lang/Object.html) key)

Returns the value to which this context maps the specified key.

More formally, if this context contains a mapping from a key k to a value v such that (key==null ? k==null : key.equals(k)), then this method returns v; otherwise it returns null. (There can be at most one such mapping.)

This method is useful for retrieving arbitrary information that is specific to the cryptographic operation that this context is used for.

**Parameters:**key - the key whose associated value is to be returned **Returns:**the value to which this context maps the specified key, or null if there is no mapping for the key**See Also:**[put(Object, Object)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#put(java.lang.Object,%20java.lang.Object))

### put

[Object](http://docs.google.com/java/lang/Object.html) **put**([Object](http://docs.google.com/java/lang/Object.html) key,  
 [Object](http://docs.google.com/java/lang/Object.html) value)

Associates the specified value with the specified key in this context. If the context previously contained a mapping for this key, the old value is replaced by the specified value.

This method is useful for storing arbitrary information that is specific to the cryptographic operation that this context is used for.

**Parameters:**key - key with which the specified value is to be associated withvalue - value to be associated with the specified key **Returns:**the previous value associated with the key, or null if there was no mapping for the key **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if some aspect of this key or value prevents it from being stored in this context**See Also:**[get(Object)](http://docs.google.com/javax/xml/crypto/XMLCryptoContext.html#get(java.lang.Object))

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

[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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