| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CanonicalizationMethod.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/DigestMethod.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/CanonicalizationMethod.html)    [**NO FRAMES**](http://docs.google.com/CanonicalizationMethod.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#2s8eyo1) | CONSTR | [METHOD](#35nkun2) |

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

Interface CanonicalizationMethod

**All Superinterfaces:** [AlgorithmMethod](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html), [Transform](http://docs.google.com/javax/xml/crypto/dsig/Transform.html), [XMLStructure](http://docs.google.com/javax/xml/crypto/XMLStructure.html)

public interface **CanonicalizationMethod**extends [Transform](http://docs.google.com/javax/xml/crypto/dsig/Transform.html)

A representation of the XML CanonicalizationMethod element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). The XML Schema Definition is defined as:

<element name="CanonicalizationMethod" type="ds:CanonicalizationMethodType"/>  
 <complexType name="CanonicalizationMethodType" mixed="true">  
 <sequence>  
 <any namespace="##any" minOccurs="0" maxOccurs="unbounded"/>  
 <!-- (0,unbounded) elements from (1,1) namespace -->  
 </sequence>  
 <attribute name="Algorithm" type="anyURI" use="required"/>  
 </complexType>

A CanonicalizationMethod instance may be created by invoking the [newCanonicalizationMethod](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html#newCanonicalizationMethod(java.lang.String,%20javax.xml.crypto.dsig.spec.C14NMethodParameterSpec)) method of the [XMLSignatureFactory](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html) class.

**Since:** 1.6 **See Also:**[XMLSignatureFactory.newCanonicalizationMethod(String, C14NMethodParameterSpec)](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html#newCanonicalizationMethod(java.lang.String,%20javax.xml.crypto.dsig.spec.C14NMethodParameterSpec))

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**EXCLUSIVE**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html#EXCLUSIVE)            The [Exclusive Canonical XML (without comments)](http://www.w3.org/2001/10/xml-exc-c14n#) canonicalization method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**EXCLUSIVE\_WITH\_COMMENTS**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html#EXCLUSIVE_WITH_COMMENTS)            The  [Exclusive Canonical XML with comments](http://www.w3.org/2001/10/xml-exc-c14n#WithComments) canonicalization method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**INCLUSIVE**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html#INCLUSIVE)            The [Canonical XML (without comments)](http://www.w3.org/TR/2001/REC-xml-c14n-20010315) canonicalization method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**INCLUSIVE\_WITH\_COMMENTS**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html#INCLUSIVE_WITH_COMMENTS)            The  [Canonical XML with comments](http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments) canonicalization method algorithm URI. |

| **Fields inherited from interface javax.xml.crypto.dsig.**[**Transform**](http://docs.google.com/javax/xml/crypto/dsig/Transform.html) |
| --- |
| [BASE64](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#BASE64), [ENVELOPED](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#ENVELOPED), [XPATH](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#XPATH), [XPATH2](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#XPATH2), [XSLT](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#XSLT) |

| **Method Summary** | |
| --- | --- |
| [AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html) | [**getParameterSpec**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html#getParameterSpec())()            Returns the algorithm-specific input parameters associated with this CanonicalizationMethod. |

| **Methods inherited from interface javax.xml.crypto.dsig.**[**Transform**](http://docs.google.com/javax/xml/crypto/dsig/Transform.html) |
| --- |
| [transform](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#transform(javax.xml.crypto.Data,%20javax.xml.crypto.XMLCryptoContext)), [transform](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#transform(javax.xml.crypto.Data,%20javax.xml.crypto.XMLCryptoContext,%20java.io.OutputStream)) |

| **Methods inherited from interface javax.xml.crypto.**[**XMLStructure**](http://docs.google.com/javax/xml/crypto/XMLStructure.html) |
| --- |
| [isFeatureSupported](http://docs.google.com/javax/xml/crypto/XMLStructure.html#isFeatureSupported(java.lang.String)) |

| **Methods inherited from interface javax.xml.crypto.**[**AlgorithmMethod**](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html) |
| --- |
| [getAlgorithm](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html#getAlgorithm()) |

| **Field Detail** |
| --- |

### INCLUSIVE

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

The [Canonical XML (without comments)](http://www.w3.org/TR/2001/REC-xml-c14n-20010315) canonicalization method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.CanonicalizationMethod.INCLUSIVE)

### INCLUSIVE\_WITH\_COMMENTS

static final [String](http://docs.google.com/java/lang/String.html) **INCLUSIVE\_WITH\_COMMENTS**

The  [Canonical XML with comments](http://www.w3.org/TR/2001/REC-xml-c14n-20010315#WithComments) canonicalization method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.CanonicalizationMethod.INCLUSIVE_WITH_COMMENTS)

### EXCLUSIVE

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

The [Exclusive Canonical XML (without comments)](http://www.w3.org/2001/10/xml-exc-c14n#) canonicalization method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.CanonicalizationMethod.EXCLUSIVE)

### EXCLUSIVE\_WITH\_COMMENTS

static final [String](http://docs.google.com/java/lang/String.html) **EXCLUSIVE\_WITH\_COMMENTS**

The  [Exclusive Canonical XML with comments](http://www.w3.org/2001/10/xml-exc-c14n#WithComments) canonicalization method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.CanonicalizationMethod.EXCLUSIVE_WITH_COMMENTS)

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

### getParameterSpec

[AlgorithmParameterSpec](http://docs.google.com/java/security/spec/AlgorithmParameterSpec.html) **getParameterSpec**()

Returns the algorithm-specific input parameters associated with this CanonicalizationMethod.

The returned parameters can be typecast to a [C14NMethodParameterSpec](http://docs.google.com/javax/xml/crypto/dsig/spec/C14NMethodParameterSpec.html) object.

**Specified by:**[getParameterSpec](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html#getParameterSpec()) in interface [AlgorithmMethod](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html)**Specified by:**[getParameterSpec](http://docs.google.com/javax/xml/crypto/dsig/Transform.html#getParameterSpec()) in interface [Transform](http://docs.google.com/javax/xml/crypto/dsig/Transform.html) **Returns:**the algorithm-specific input parameters (may be null if not specified)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/CanonicalizationMethod.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/DigestMethod.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/CanonicalizationMethod.html)    [**NO FRAMES**](http://docs.google.com/CanonicalizationMethod.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#tyjcwt) | DETAIL: [FIELD](#2s8eyo1) | CONSTR | [METHOD](#35nkun2) |

[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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