| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/DigestMethod.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/dsig/CanonicalizationMethod.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/Manifest.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/DigestMethod.html)    [**NO FRAMES**](http://docs.google.com/DigestMethod.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#1t3h5sf) | CONSTR | [METHOD](#26in1rg) |

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

Interface DigestMethod

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

public interface **DigestMethod**extends [XMLStructure](http://docs.google.com/javax/xml/crypto/XMLStructure.html), [AlgorithmMethod](http://docs.google.com/javax/xml/crypto/AlgorithmMethod.html)

A representation of the XML DigestMethod 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="DigestMethod" type="ds:DigestMethodType"/>  
 <complexType name="DigestMethodType" 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 DigestMethod instance may be created by invoking the [newDigestMethod](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html#newDigestMethod(java.lang.String,%20javax.xml.crypto.dsig.spec.DigestMethodParameterSpec)) method of the [XMLSignatureFactory](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html) class.

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

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**RIPEMD160**](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.html#RIPEMD160)            The  [RIPEMD-160](http://www.w3.org/2001/04/xmlenc#ripemd160) digest method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**SHA1**](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.html#SHA1)            The  [SHA1](http://www.w3.org/2000/09/xmldsig#sha1) digest method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**SHA256**](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.html#SHA256)            The  [SHA256](http://www.w3.org/2001/04/xmlenc#sha256) digest method algorithm URI. |
| static [String](http://docs.google.com/java/lang/String.html) | [**SHA512**](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.html#SHA512)            The  [SHA512](http://www.w3.org/2001/04/xmlenc#sha512) digest method algorithm URI. |

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

| **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** |
| --- |

### SHA1

static final [String](http://docs.google.com/java/lang/String.html) **SHA1**

The  [SHA1](http://www.w3.org/2000/09/xmldsig#sha1) digest method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.DigestMethod.SHA1)

### SHA256

static final [String](http://docs.google.com/java/lang/String.html) **SHA256**

The  [SHA256](http://www.w3.org/2001/04/xmlenc#sha256) digest method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.DigestMethod.SHA256)

### SHA512

static final [String](http://docs.google.com/java/lang/String.html) **SHA512**

The  [SHA512](http://www.w3.org/2001/04/xmlenc#sha512) digest method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.DigestMethod.SHA512)

### RIPEMD160

static final [String](http://docs.google.com/java/lang/String.html) **RIPEMD160**

The  [RIPEMD-160](http://www.w3.org/2001/04/xmlenc#ripemd160) digest method algorithm URI.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.DigestMethod.RIPEMD160)

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

### getParameterSpec

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

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

The returned parameters can be typecast to a [DigestMethodParameterSpec](http://docs.google.com/javax/xml/crypto/dsig/spec/DigestMethodParameterSpec.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) **Returns:**the algorithm-specific 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/DigestMethod.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/dsig/CanonicalizationMethod.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/Manifest.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/DigestMethod.html)    [**NO FRAMES**](http://docs.google.com/DigestMethod.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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[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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