| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/xml/crypto/dom/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/xml/crypto/dsig/dom/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

## Package javax.xml.crypto.dsig

Classes for generating and validating XML digital signatures.

**See:**

[**Description**](#3znysh7)

| **Interface Summary** | |
| --- | --- |
| [**CanonicalizationMethod**](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.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/). |
| [**DigestMethod**](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.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/). |
| [**Manifest**](http://docs.google.com/javax/xml/crypto/dsig/Manifest.html) | A representation of the XML Manifest element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**Reference**](http://docs.google.com/javax/xml/crypto/dsig/Reference.html) | A representation of the Reference element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**SignatureMethod**](http://docs.google.com/javax/xml/crypto/dsig/SignatureMethod.html) | A representation of the XML SignatureMethod element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**SignatureProperties**](http://docs.google.com/javax/xml/crypto/dsig/SignatureProperties.html) | A representation of the XML SignatureProperties element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**SignatureProperty**](http://docs.google.com/javax/xml/crypto/dsig/SignatureProperty.html) | A representation of the XML SignatureProperty element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**SignedInfo**](http://docs.google.com/javax/xml/crypto/dsig/SignedInfo.html) | An representation of the XML SignedInfo element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**Transform**](http://docs.google.com/javax/xml/crypto/dsig/Transform.html) | A representation of the XML Transform element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**XMLObject**](http://docs.google.com/javax/xml/crypto/dsig/XMLObject.html) | A representation of the XML Object element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**XMLSignature**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) | A representation of the XML Signature element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**XMLSignature.SignatureValue**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.SignatureValue.html) | A representation of the XML SignatureValue element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). |
| [**XMLSignContext**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignContext.html) | Contains context information for generating XML Signatures. |
| [**XMLValidateContext**](http://docs.google.com/javax/xml/crypto/dsig/XMLValidateContext.html) | Contains context information for validating XML Signatures. |

| **Class Summary** | |
| --- | --- |
| [**TransformService**](http://docs.google.com/javax/xml/crypto/dsig/TransformService.html) | A Service Provider Interface for transform and canonicalization algorithms. |
| [**XMLSignatureFactory**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html) | A factory for creating [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) objects from scratch or for unmarshalling an XMLSignature object from a corresponding XML representation. |

| **Exception Summary** | |
| --- | --- |
| [**TransformException**](http://docs.google.com/javax/xml/crypto/dsig/TransformException.html) | Indicates an exceptional condition that occured while executing a transform algorithm. |
| [**XMLSignatureException**](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureException.html) | Indicates an exceptional condition that occured during the XML signature generation or validation process. |

## Package javax.xml.crypto.dsig Description

Classes for generating and validating XML digital signatures. This package includes classes that represent the core elements defined in the W3C XML digital signature specification: [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html), [SignedInfo](http://docs.google.com/javax/xml/crypto/dsig/SignedInfo.html), [CanonicalizationMethod](http://docs.google.com/javax/xml/crypto/dsig/CanonicalizationMethod.html), [SignatureMethod](http://docs.google.com/javax/xml/crypto/dsig/SignatureMethod.html), [Reference](http://docs.google.com/javax/xml/crypto/dsig/Reference.html), [DigestMethod](http://docs.google.com/javax/xml/crypto/dsig/DigestMethod.html), [XMLObject](http://docs.google.com/javax/xml/crypto/dsig/XMLObject.html), [Manifest](http://docs.google.com/javax/xml/crypto/dsig/Manifest.html), [SignatureProperties](http://docs.google.com/javax/xml/crypto/dsig/SignatureProperties.html), and [SignatureProperty](http://docs.google.com/javax/xml/crypto/dsig/SignatureProperty.html). KeyInfo types are defined in the [javax.xml.crypto.dsig.keyinfo](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/package-summary.html) subpackage. [XMLSignatureFactory](http://docs.google.com/javax/xml/crypto/dsig/XMLSignatureFactory.html) is an abstract factory that creates [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) objects from scratch or from a pre-existing XML representation, such as a DOM node. [TransformService](http://docs.google.com/javax/xml/crypto/dsig/TransformService.html) is a service provider interface for creating and plugging in implementations of transform and canonicalization algorithms.

Of primary significance in this package is the [XMLSignature](http://docs.google.com/javax/xml/crypto/dsig/XMLSignature.html) class, which allows you to sign and validate an XML digital signature.

## Package Specification

* [XML-Signature Syntax and Processing: W3C Recommendation](http://www.w3.org/TR/xmldsig-core/)
* [RFC 3275: XML-Signature Syntax and Processing](http://www.ietf.org/rfc/rfc3275.txt)

**Since:** 1.6

| | [**Overview**](http://docs.google.com/overview-summary.html) | **Package** | Class | [**Use**](http://docs.google.com/package-use.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 PACKAGE**](http://docs.google.com/javax/xml/crypto/dom/package-summary.html)   [**NEXT PACKAGE**](http://docs.google.com/javax/xml/crypto/dsig/dom/package-summary.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/package-summary.html)    [**NO FRAMES**](http://docs.google.com/package-summary.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |

[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.

Copyright 2006 Sun Microsystems, Inc. All rights reserved. Use is subject to [license terms](http://docs.google.com/legal/license.html). Also see the [documentation redistribution policy](http://java.sun.com/docs/redist.html).