| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509Data.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/keyinfo/RetrievalMethod.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509IssuerSerial.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/keyinfo/X509Data.html)    [**NO FRAMES**](http://docs.google.com/X509Data.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#2s8eyo1) |

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

Interface X509Data

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

public interface **X509Data**extends [XMLStructure](http://docs.google.com/javax/xml/crypto/XMLStructure.html)

A representation of the XML X509Data element as defined in the  [W3C Recommendation for XML-Signature Syntax and Processing](http://www.w3.org/TR/xmldsig-core/). An X509Data object contains one or more identifers of keys or X.509 certificates (or certificates' identifiers or a revocation list). The XML Schema Definition is defined as:

<element name="X509Data" type="ds:X509DataType"/>  
 <complexType name="X509DataType">   
 <sequence maxOccurs="unbounded">   
 <choice>   
 <element name="X509IssuerSerial" type="ds:X509IssuerSerialType"/>  
 <element name="X509SKI" type="base64Binary"/>  
 <element name="X509SubjectName" type="string"/>   
 <element name="X509Certificate" type="base64Binary"/>  
 <element name="X509CRL" type="base64Binary"/>   
 <any namespace="##other" processContents="lax"/>  
 </choice>   
 </sequence>  
 </complexType>  
  
 <complexType name="X509IssuerSerialType">   
 <sequence>   
 <element name="X509IssuerName" type="string"/>   
 <element name="X509SerialNumber" type="integer"/>   
 </sequence>  
 </complexType>

An X509Data instance may be created by invoking the [newX509Data](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html#newX509Data(java.util.List)) methods of the [KeyInfoFactory](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html) class and passing it a list of one or more [XMLStructure](http://docs.google.com/javax/xml/crypto/XMLStructure.html)s representing X.509 content; for example:

KeyInfoFactory factory = KeyInfoFactory.getInstance("DOM");  
 X509Data x509Data = factory.newX509Data  
 (Collections.singletonList("cn=Alice"));

**Since:** 1.6 **See Also:**[KeyInfoFactory.newX509Data(List)](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/KeyInfoFactory.html#newX509Data(java.util.List))

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**RAW\_X509\_CERTIFICATE\_TYPE**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509Data.html#RAW_X509_CERTIFICATE_TYPE)            URI identifying the binary (ASN.1 DER) X.509 Certificate KeyInfo type: http://www.w3.org/2000/09/xmldsig#rawX509Certificate. |
| static [String](http://docs.google.com/java/lang/String.html) | [**TYPE**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509Data.html#TYPE)            URI identifying the X509Data KeyInfo type: http://www.w3.org/2000/09/xmldsig#X509Data. |

| **Method Summary** | |
| --- | --- |
| [List](http://docs.google.com/java/util/List.html) | [**getContent**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509Data.html#getContent())()            Returns an [unmodifiable list](http://docs.google.com/java/util/Collections.html#unmodifiableList(java.util.List)) of the content in this X509Data. |

| **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)) |

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

### TYPE

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

URI identifying the X509Data KeyInfo type: http://www.w3.org/2000/09/xmldsig#X509Data. This can be specified as the value of the type parameter of the [RetrievalMethod](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/RetrievalMethod.html) class to describe a remote X509Data structure.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.keyinfo.X509Data.TYPE)

### RAW\_X509\_CERTIFICATE\_TYPE

static final [String](http://docs.google.com/java/lang/String.html) **RAW\_X509\_CERTIFICATE\_TYPE**

URI identifying the binary (ASN.1 DER) X.509 Certificate KeyInfo type: http://www.w3.org/2000/09/xmldsig#rawX509Certificate. This can be specified as the value of the type parameter of the [RetrievalMethod](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/RetrievalMethod.html) class to describe a remote X509 Certificate.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.xml.crypto.dsig.keyinfo.X509Data.RAW_X509_CERTIFICATE_TYPE)

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

### getContent

[List](http://docs.google.com/java/util/List.html) **getContent**()

Returns an [unmodifiable list](http://docs.google.com/java/util/Collections.html#unmodifiableList(java.util.List)) of the content in this X509Data. Valid types are [String](http://docs.google.com/java/lang/String.html) (subject names), byte[] (subject key ids), [X509Certificate](http://docs.google.com/java/security/cert/X509Certificate.html), [X509CRL](http://docs.google.com/java/security/cert/X509CRL.html), or [XMLStructure](http://docs.google.com/javax/xml/crypto/XMLStructure.html) ([X509IssuerSerial](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509IssuerSerial.html) objects or elements from an external namespace).

**Returns:**an unmodifiable list of the content in this X509Data (never null or empty)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/X509Data.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/keyinfo/RetrievalMethod.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/keyinfo/X509IssuerSerial.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/keyinfo/X509Data.html)    [**NO FRAMES**](http://docs.google.com/X509Data.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | CONSTR | [METHOD](#2et92p0) | DETAIL: [FIELD](#3dy6vkm) | CONSTR | [METHOD](#2s8eyo1) |

[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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