| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XPathType.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/spec/XPathFilterParameterSpec.html)   [**NEXT CLASS**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) | [**FRAMES**](http://docs.google.com/index.html?javax/xml/crypto/dsig/spec/XPathType.html)    [**NO FRAMES**](http://docs.google.com/XPathType.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | FIELD | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#17dp8vu) |

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

Class XPathType

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.xml.crypto.dsig.spec.XPathType**

public class **XPathType**extends [Object](http://docs.google.com/java/lang/Object.html)

The XML Schema Definition of the XPath element as defined in the  [W3C Recommendation for XML-Signature XPath Filter 2.0](http://www.w3.org/TR/xmldsig-filter2):

<schema xmlns="http://www.w3.org/2001/XMLSchema"  
 xmlns:xf="http://www.w3.org/2002/06/xmldsig-filter2"  
 targetNamespace="http://www.w3.org/2002/06/xmldsig-filter2"  
 version="0.1" elementFormDefault="qualified">  
  
 <element name="XPath"  
 type="xf:XPathType"/>  
  
 <complexType name="XPathType">  
 <simpleContent>  
 <extension base="string">  
 <attribute name="Filter">  
 <simpleType>  
 <restriction base="string">  
 <enumeration value="intersect"/>  
 <enumeration value="subtract"/>  
 <enumeration value="union"/>  
 </restriction>  
 </simpleType>  
 </attribute>  
 </extension>  
 </simpleContent>  
 </complexType>

**Since:** 1.6 **See Also:**[XPathFilter2ParameterSpec](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathFilter2ParameterSpec.html)

| **Nested Class Summary** | |
| --- | --- |
| static class | [**XPathType.Filter**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html)            Represents the filter set operation. |

| **Constructor Summary** | |
| --- | --- |
| [**XPathType**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.html#XPathType(java.lang.String,%20javax.xml.crypto.dsig.spec.XPathType.Filter))([String](http://docs.google.com/java/lang/String.html) expression, [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) filter)            Creates an XPathType instance with the specified XPath expression and filter. |
| [**XPathType**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.html#XPathType(java.lang.String,%20javax.xml.crypto.dsig.spec.XPathType.Filter,%20java.util.Map))([String](http://docs.google.com/java/lang/String.html) expression, [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) filter, [Map](http://docs.google.com/java/util/Map.html) namespaceMap)            Creates an XPathType instance with the specified XPath expression, filter, and namespace map. |

| **Method Summary** | |
| --- | --- |
| [String](http://docs.google.com/java/lang/String.html) | [**getExpression**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.html#getExpression())()            Returns the XPath expression to be evaluated. |
| [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) | [**getFilter**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.html#getFilter())()            Returns the filter operation. |
| [Map](http://docs.google.com/java/util/Map.html) | [**getNamespaceMap**](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.html#getNamespaceMap())()            Returns a map of namespace prefixes. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### XPathType

public **XPathType**([String](http://docs.google.com/java/lang/String.html) expression,  
 [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) filter)

Creates an XPathType instance with the specified XPath expression and filter.

**Parameters:**expression - the XPath expression to be evaluatedfilter - the filter operation ([XPathType.Filter.INTERSECT](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#INTERSECT), [XPathType.Filter.SUBTRACT](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#SUBTRACT), or [XPathType.Filter.UNION](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#UNION)) **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if expression or filter is null

### XPathType

public **XPathType**([String](http://docs.google.com/java/lang/String.html) expression,  
 [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) filter,  
 [Map](http://docs.google.com/java/util/Map.html) namespaceMap)

Creates an XPathType instance with the specified XPath expression, filter, and namespace map. The map is copied to protect against subsequent modification.

**Parameters:**expression - the XPath expression to be evaluatedfilter - the filter operation ([XPathType.Filter.INTERSECT](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#INTERSECT), [XPathType.Filter.SUBTRACT](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#SUBTRACT), or [XPathType.Filter.UNION](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html#UNION))namespaceMap - the map of namespace prefixes. Each key is a namespace prefix String that maps to a corresponding namespace URI String. **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html) - if expression, filter or namespaceMap are null [ClassCastException](http://docs.google.com/java/lang/ClassCastException.html) - if any of the map's keys or entries are not of type String

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

### getExpression

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

Returns the XPath expression to be evaluated.

**Returns:**the XPath expression to be evaluated

### getFilter

public [XPathType.Filter](http://docs.google.com/javax/xml/crypto/dsig/spec/XPathType.Filter.html) **getFilter**()

Returns the filter operation.

**Returns:**the filter operation

### getNamespaceMap

public [Map](http://docs.google.com/java/util/Map.html) **getNamespaceMap**()

Returns a map of namespace prefixes. Each key is a namespace prefix String that maps to a corresponding namespace URI String.

This implementation returns an [unmodifiable map](http://docs.google.com/java/util/Collections.html#unmodifiableMap(java.util.Map)).

**Returns:**a Map of namespace prefixes to namespace URIs (may be empty, but never null)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XPathType.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*** |
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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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