| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XMLEvent.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/stream/events/StartElement.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/stream/events/XMLEvent.html)    [**NO FRAMES**](http://docs.google.com/XMLEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#3dy6vkm) |

## **javax.xml.stream.events**

Interface XMLEvent

**All Superinterfaces:** [XMLStreamConstants](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html) **All Known Subinterfaces:** [Attribute](http://docs.google.com/javax/xml/stream/events/Attribute.html), [Characters](http://docs.google.com/javax/xml/stream/events/Characters.html), [Comment](http://docs.google.com/javax/xml/stream/events/Comment.html), [DTD](http://docs.google.com/javax/xml/stream/events/DTD.html), [EndDocument](http://docs.google.com/javax/xml/stream/events/EndDocument.html), [EndElement](http://docs.google.com/javax/xml/stream/events/EndElement.html), [EntityDeclaration](http://docs.google.com/javax/xml/stream/events/EntityDeclaration.html), [EntityReference](http://docs.google.com/javax/xml/stream/events/EntityReference.html), [Namespace](http://docs.google.com/javax/xml/stream/events/Namespace.html), [NotationDeclaration](http://docs.google.com/javax/xml/stream/events/NotationDeclaration.html), [ProcessingInstruction](http://docs.google.com/javax/xml/stream/events/ProcessingInstruction.html), [StartDocument](http://docs.google.com/javax/xml/stream/events/StartDocument.html), [StartElement](http://docs.google.com/javax/xml/stream/events/StartElement.html)

public interface **XMLEvent**extends [XMLStreamConstants](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html)

This is the base event interface for handling markup events. Events are value objects that are used to communicate the XML 1.0 InfoSet to the Application. Events may be cached and referenced after the parse has completed.

**Since:** 1.6 **See Also:**[XMLEventReader](http://docs.google.com/javax/xml/stream/XMLEventReader.html), [Characters](http://docs.google.com/javax/xml/stream/events/Characters.html), [ProcessingInstruction](http://docs.google.com/javax/xml/stream/events/ProcessingInstruction.html), [StartElement](http://docs.google.com/javax/xml/stream/events/StartElement.html), [EndElement](http://docs.google.com/javax/xml/stream/events/EndElement.html), [StartDocument](http://docs.google.com/javax/xml/stream/events/StartDocument.html), [EndDocument](http://docs.google.com/javax/xml/stream/events/EndDocument.html), [EntityReference](http://docs.google.com/javax/xml/stream/events/EntityReference.html), [EntityDeclaration](http://docs.google.com/javax/xml/stream/events/EntityDeclaration.html), [NotationDeclaration](http://docs.google.com/javax/xml/stream/events/NotationDeclaration.html)

| **Field Summary** | |
| --- | --- |

| **Fields inherited from interface javax.xml.stream.**[**XMLStreamConstants**](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html) |
| --- |
| [ATTRIBUTE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#ATTRIBUTE), [CDATA](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#CDATA), [CHARACTERS](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#CHARACTERS), [COMMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#COMMENT), [DTD](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#DTD), [END\_DOCUMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#END_DOCUMENT), [END\_ELEMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#END_ELEMENT), [ENTITY\_DECLARATION](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#ENTITY_DECLARATION), [ENTITY\_REFERENCE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#ENTITY_REFERENCE), [NAMESPACE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#NAMESPACE), [NOTATION\_DECLARATION](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#NOTATION_DECLARATION), [PROCESSING\_INSTRUCTION](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#PROCESSING_INSTRUCTION), [SPACE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#SPACE), [START\_DOCUMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#START_DOCUMENT), [START\_ELEMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#START_ELEMENT) |

| **Method Summary** | |
| --- | --- |
| [Characters](http://docs.google.com/javax/xml/stream/events/Characters.html) | [**asCharacters**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#asCharacters())()            Returns this event as Characters, may result in a class cast exception if this event is not Characters. |
| [EndElement](http://docs.google.com/javax/xml/stream/events/EndElement.html) | [**asEndElement**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#asEndElement())()            Returns this event as an end element event, may result in a class cast exception if this event is not a end element. |
| [StartElement](http://docs.google.com/javax/xml/stream/events/StartElement.html) | [**asStartElement**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#asStartElement())()            Returns this event as a start element event, may result in a class cast exception if this event is not a start element. |
| int | [**getEventType**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#getEventType())()            Returns an integer code for this event. |
| [Location](http://docs.google.com/javax/xml/stream/Location.html) | [**getLocation**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#getLocation())()            Return the location of this event. |
| [QName](http://docs.google.com/javax/xml/namespace/QName.html) | [**getSchemaType**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#getSchemaType())()            This method is provided for implementations to provide optional type information about the associated event. |
| boolean | [**isAttribute**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isAttribute())()            A utility function to check if this event is an Attribute. |
| boolean | [**isCharacters**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isCharacters())()            A utility function to check if this event is Characters. |
| boolean | [**isEndDocument**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isEndDocument())()            A utility function to check if this event is an EndDocument. |
| boolean | [**isEndElement**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isEndElement())()            A utility function to check if this event is a EndElement. |
| boolean | [**isEntityReference**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isEntityReference())()            A utility function to check if this event is an EntityReference. |
| boolean | [**isNamespace**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isNamespace())()            A utility function to check if this event is a Namespace. |
| boolean | [**isProcessingInstruction**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isProcessingInstruction())()            A utility function to check if this event is a ProcessingInstruction. |
| boolean | [**isStartDocument**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isStartDocument())()            A utility function to check if this event is a StartDocument. |
| boolean | [**isStartElement**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#isStartElement())()            A utility function to check if this event is a StartElement. |
| void | [**writeAsEncodedUnicode**](http://docs.google.com/javax/xml/stream/events/XMLEvent.html#writeAsEncodedUnicode(java.io.Writer))([Writer](http://docs.google.com/java/io/Writer.html) writer)            This method will write the XMLEvent as per the XML 1.0 specification as Unicode characters. |

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

### getEventType

int **getEventType**()

Returns an integer code for this event.

**See Also:**[XMLStreamConstants.START\_ELEMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#START_ELEMENT), [XMLStreamConstants.END\_ELEMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#END_ELEMENT), [XMLStreamConstants.CHARACTERS](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#CHARACTERS), [XMLStreamConstants.ATTRIBUTE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#ATTRIBUTE), [XMLStreamConstants.NAMESPACE](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#NAMESPACE), [XMLStreamConstants.PROCESSING\_INSTRUCTION](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#PROCESSING_INSTRUCTION), [XMLStreamConstants.COMMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#COMMENT), [XMLStreamConstants.START\_DOCUMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#START_DOCUMENT), [XMLStreamConstants.END\_DOCUMENT](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#END_DOCUMENT), [XMLStreamConstants.DTD](http://docs.google.com/javax/xml/stream/XMLStreamConstants.html#DTD)

### getLocation

[Location](http://docs.google.com/javax/xml/stream/Location.html) **getLocation**()

Return the location of this event. The Location returned from this method is non-volatile and will retain its information.

**See Also:**[Location](http://docs.google.com/javax/xml/stream/Location.html)

### isStartElement

boolean **isStartElement**()

A utility function to check if this event is a StartElement.

**See Also:**[StartElement](http://docs.google.com/javax/xml/stream/events/StartElement.html)

### isAttribute

boolean **isAttribute**()

A utility function to check if this event is an Attribute.

**See Also:**[Attribute](http://docs.google.com/javax/xml/stream/events/Attribute.html)

### isNamespace

boolean **isNamespace**()

A utility function to check if this event is a Namespace.

**See Also:**[Namespace](http://docs.google.com/javax/xml/stream/events/Namespace.html)

### isEndElement

boolean **isEndElement**()

A utility function to check if this event is a EndElement.

**See Also:**[EndElement](http://docs.google.com/javax/xml/stream/events/EndElement.html)

### isEntityReference

boolean **isEntityReference**()

A utility function to check if this event is an EntityReference.

**See Also:**[EntityReference](http://docs.google.com/javax/xml/stream/events/EntityReference.html)

### isProcessingInstruction

boolean **isProcessingInstruction**()

A utility function to check if this event is a ProcessingInstruction.

**See Also:**[ProcessingInstruction](http://docs.google.com/javax/xml/stream/events/ProcessingInstruction.html)

### isCharacters

boolean **isCharacters**()

A utility function to check if this event is Characters.

**See Also:**[Characters](http://docs.google.com/javax/xml/stream/events/Characters.html)

### isStartDocument

boolean **isStartDocument**()

A utility function to check if this event is a StartDocument.

**See Also:**[StartDocument](http://docs.google.com/javax/xml/stream/events/StartDocument.html)

### isEndDocument

boolean **isEndDocument**()

A utility function to check if this event is an EndDocument.

**See Also:**[EndDocument](http://docs.google.com/javax/xml/stream/events/EndDocument.html)

### asStartElement

[StartElement](http://docs.google.com/javax/xml/stream/events/StartElement.html) **asStartElement**()

Returns this event as a start element event, may result in a class cast exception if this event is not a start element.

### asEndElement

[EndElement](http://docs.google.com/javax/xml/stream/events/EndElement.html) **asEndElement**()

Returns this event as an end element event, may result in a class cast exception if this event is not a end element.

### asCharacters

[Characters](http://docs.google.com/javax/xml/stream/events/Characters.html) **asCharacters**()

Returns this event as Characters, may result in a class cast exception if this event is not Characters.

### getSchemaType

[QName](http://docs.google.com/javax/xml/namespace/QName.html) **getSchemaType**()

This method is provided for implementations to provide optional type information about the associated event. It is optional and will return null if no information is available.

### writeAsEncodedUnicode

void **writeAsEncodedUnicode**([Writer](http://docs.google.com/java/io/Writer.html) writer)  
 throws [XMLStreamException](http://docs.google.com/javax/xml/stream/XMLStreamException.html)

This method will write the XMLEvent as per the XML 1.0 specification as Unicode characters. No indentation or whitespace should be outputted. Any user defined event type SHALL have this method called when being written to on an output stream. Built in Event types MUST implement this method, but implementations MAY choose not call these methods for optimizations reasons when writing out built in Events to an output stream. The output generated MUST be equivalent in terms of the infoset expressed.

**Parameters:**writer - The writer that will output the data **Throws:** XMLStreamException - if there is a fatal error writing the event

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/XMLEvent.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/stream/events/StartElement.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/xml/stream/events/XMLEvent.html)    [**NO FRAMES**](http://docs.google.com/XMLEvent.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#tyjcwt) | DETAIL: FIELD | CONSTR | [METHOD](#3dy6vkm) |

[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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