

**Overview** **Package** **Class** **Use** **Tree** **Deprecated** **Index** **Help**PREV CLASS [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

ALL are **GETTER** methods ONLY

java.xml.stream.events

30 - Dec - 08

3 methods

## Interface Attribute

### All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.

So, setting value only done via factory methods

### All Known Subinterfaces:

[Namespace](#)

```
public interface Attribute
```

Secondary event cannot read directly from  
XMLEventreader. it has to read from StartElement.  
`getAttributeByName()` / `getAttributes()`

```
extends XMLEvent
```

An interface that contains information about an attribute. Attributes are reported as a set of events accessible from a StartElement. Other applications may report Attributes as first-order events, for example as the results of an XPath expression.

Jungun??!!?

### Since:

1.6

### Version:

1.0

### Author:

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### See Also:

[StartElement](#)

## Field Summary

Fields inherited from interface `javax.xml.stream.XMLStreamConstants`

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#), [END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#), [NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#), [START\\_ELEMENT](#)

## Method Summary

java. lang. String	<a href="#">getDDTType</a> ( ) Gets the type of this attribute, default is the String "CDATA"
<a href="#">QName</a>	<a href="#">getName</a> ( ) Returns the QName for this attribute
java. lang. String	<a href="#">getValue</a> ( ) Gets the normalized value of this attribute
boolean	<a href="#">isSpecified</a> ( ) A flag indicating whether this attribute was actually specified in the start tag of its element, or was defaulted from the schema.

this will be FALSE  
if the Attribute  
Event created on  
memory not from  
file reading

## Methods inherited from interface javax.xml.stream.events.XMLEvent

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#), [getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#), [isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#), [isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#), [writeAsEncodedUnicode](#)

## Method Detail

### getName

[QName](#) **getName** ( )

Returns the QName for this attribute

## getValue

```
java.lang.String getValue()
```

Gets the normalized value of this attribute

---

## getDTDType

```
java.lang.String getDTDType()
```

~~Gets the type of this attribute, default is the String "CDATA"~~

**Returns:**

~~the type as a String, default is "CDATA"~~

---

## isSpecified

```
boolean isSpecified()
```

~~A flag indicating whether this attribute was actually specified in the start-tag of its element, or was defaulted from the schema.~~

**Returns:**

~~returns true if this was specified in the start element~~

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---

[Overview](#)
[Package](#)
[Class](#)
[Use](#)
[Tree](#)
[Deprecated](#)
[Index](#)
[Help](#)
[PREV CLASS](#)
[NEXT CLASS](#)
[FRAMES](#)
[NO FRAMES](#)
[All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

22 - Nov - 08

java.xml.stream.events

nothing

# Interface EndDocument

## All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)

```
public interface EndDocument
```

```
extends XMLEvent
```

A marker interface for the end of the document

### Since:

1.6

### Version:

1.0

### Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## Field Summary

### Fields inherited from interface javax.xml.stream.[XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

Methods inherited from interface javax.xml.stream.events.XMLEvent

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#), [getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#), [isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#), [isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#), [writeAsEncodedUnicode](#)

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#) [FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

[Overview](#)
[Package](#)
[Class](#)
[Use](#)
[Tree](#)
[Deprecated](#)
[Index](#)
[Help](#)

[PREV CLASS](#)
[NEXT CLASS](#)

[FRAMES](#)
[NO FRAMES](#)
[All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

[j30 - Dec - 08](#)
[n.events](#)

# Interface EndElement

2 methods

## All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)

ALL are **GETTER** methods ONLY

public interface **EndElement**

extends [XMLEvent](#)

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.  
So, setting value only done via factory methods

~~An interface for the end element event. An EndElement is reported for each End Tag in the document.~~

## Since:

1.6

## Version:

1.0

## Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## See Also:

[XMLEvent](#)

## Field Summary

Fields inherited from interface `javax.xml.stream.XMLStreamConstants`

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

<a href="#">QName</a>	<a href="#"><b>getName</b></a> ( ) Get the name of this event
java. util. Iterator	<a href="#"><b>getNamespaces</b></a> ( ) Returns an Iterator of namespaces that have gone out of scope.

## Methods inherited from interface javax.xml.stream.events.XMLEvent

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#), [getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#), [isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#), [isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#), [writeAsEncodedUnicode](#)

## Method Detail

### getName

[QName](#) **getName** ( )

Get the name of this event

#### Returns:

the qualified name of this event

### getNamespaces

java.util.Iterator **getNamespaces** ( )

it return iter object. but it dont have any namespace. even it has some namespaces

Returns an Iterator of namespaces that have gone out of scope. Returns an empty iterator if no namespaces have gone out of scope.

#### Returns:

an Iterator over Namespace interfaces, or an empty iterator

```
Iterator iter = endElement.getNamespaces();
while(iter.hasNext()) {
    logger.info("<>" + iter.next());
}
```

---

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---



[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

[SUMMARY: NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

[DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)

21 - Nov - 08

31 - Dec - 08

1 methods

## Interface EventFilter

Before to study this class first finish, XMLEventFactory and its individual Events

```
public interface EventFilter
```

This interface declares a simple filter interface that one can create to filter [XMLEventReaders](#)

### Since:

1.6

### Version:

1.0

### Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## Method Summary

boolean	<a href="#">accept</a> ( <a href="#">XMLEvent</a> event)
---------	--

Tests whether this event is part of this stream.

## Method Detail

### accept

```
boolean accept(XMLEvent event)
```

~~Tests whether this event is part of this stream. This method will return true if this filter accepts this event and false otherwise.~~

**Parameters:**

event — the event to test

**Returns:**

true if this filter accepts this event, false otherwise

---

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

PREV CLASS [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

---

**Overview** **Package** **Class** **Use** **Tree** **Deprecated** **Index** **Help**[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

ALL are **GETTER** methods ONLY

30 - Dec - 08

.events

3 methods

3 are boolean methods

## Interface Characters

### All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.  
So, setting value only done via factory methods

`public interface Characters``extends XMLEvent`

This describes the interface to Characters events. All text events get reported as Characters events.  
Content, CData and whitespace are all reported as Characters events. Ignorable Whitespace, in most  
cases, will be set to false unless an element declaration of element content is present for the current  
element.

Ignorable Whitespace is DTD related

### Since:

1.6

### Version:

1.0

### Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## Field Summary

### Fields inherited from interface `javax.xml.stream.XMLStreamConstants`

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

java. lang. String	<a href="#"><u>getData</u></a> ( ) Get the character data of this event
boolean	<a href="#"><u>isCDATA</u></a> ( ) Returns true if this is a CDATA section.
boolean	<a href="#"><u>isIgnorableWhiteSpace</u></a> ( ) Return true if this is ignorable WhiteSpace.
boolean	<a href="#"><u>isWhiteSpace</u></a> ( ) Returns true if this set of Characters is all whitespace.

*Super*

## Methods inherited from interface javax.xml.stream.events.XMLEvent

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#),  
[getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#),  
[isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#),  
[isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#),  
[writeAsEncodedUnicode](#)

## Method Detail

### getData

java.lang.String **getData**( )

Get the character data of this event

### isWhiteSpace

boolean **isWhiteSpace**( )

Returns true if this set of Characters is all whitespace. Whitespace inside a document is reported as CHARACTERS. This method allows checking of CHARACTERS events to see if they are

**Overview** **Package** **Class** **Use** **Tree** **Deprecated** **Index** **Help**PREV CLASS [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | [CONSTR](#) | [METHOD](#)DETAIL: FIELD | [CONSTR](#) | [METHOD](#)**javax.xml.stream.util****Class EventReaderDelegate**

java.lang.Object

└─ **javax.xml.stream.util.EventReaderDelegate****All Implemented Interfaces:**java.util.Iterator, [XMLEventReader](#)**public class EventReaderDelegate**

extends java.lang.Object

implements [XMLEventReader](#)

This is the base class for deriving an XMLEventReader filter. This class is designed to sit between an XMLEventReader and an application's XMLEventReader. By default each method does nothing but call the corresponding method on the parent interface.

**Since:**

1.6

**Version:**

1.0

**Author:**

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

**See Also:**[XMLEventReader](#), [StreamReaderDelegate](#)**Constructor Summary**

[EventReaderDelegate](#) ( )

Construct an empty filter with no parent.

[EventReaderDelegate](#) ( [XMLEventReader](#) reader )

Construct an filter with the specified parent.

Method Summary

void	<a href="#">close</a> ( ) Frees any resources associated with this Reader.
java.lang. String	<a href="#">getElementText</a> ( ) Reads the content of a text-only element.
<a href="#">XMLEventReader</a>	<a href="#">getParent</a> ( ) Get the parent of this instance.
java.lang. Object	<a href="#">getProperty</a> ( java.lang.String name ) Get the value of a feature/property from the underlying implementation
boolean	<a href="#">hasNext</a> ( ) Check if there are more events.
java.lang. Object	<a href="#">next</a> ( )
<a href="#">XMLEvent</a>	<a href="#">nextEvent</a> ( ) Get the next XMLEvent
<a href="#">XMLEvent</a>	<a href="#">nextTag</a> ( ) Skips any insignificant space events until a START_ELEMENT or END_ELEMENT is reached.
<a href="#">XMLEvent</a>	<a href="#">peek</a> ( ) Check the next XMLEvent without reading it from the stream.
void	<a href="#">remove</a> ( )
void	<a href="#">setParent</a> ( <a href="#">XMLEventReader</a> reader ) Set the parent of this instance.

Methods inherited from class java.lang.Object

```
clone, equals, finalize, getClass, hashCode, notify, notifyAll,
toString, wait, wait, wait
```

## Constructor Detail

### EventReaderDelegate

```
public EventReaderDelegate()
```

Construct an empty filter with no parent.

### EventReaderDelegate

```
public EventReaderDelegate(XMLEventReader reader)
```

Construct an filter with the specified parent.

#### Parameters:

reader - the parent

## Method Detail

### setParent

```
public void setParent(XMLEventReader reader)
```

Set the parent of this instance.

#### Parameters:

reader - the new parent

### getParent

composed of only whitespace characters

## isCDATA

boolean **isCDATA**( )

Returns true if this is a CData section. If this event is CData its event type will be CDATA If javax.xml.stream.isCoalescing is set to true CDATA Sections that are surrounded by non CDATA characters will be reported as a single Characters event. This method will return false in this case.

## isIgnorableWhiteSpace

~~boolean **isIgnorableWhiteSpace**( )~~

~~Return true if this is ignorableWhiteSpace. If this event is ignorableWhiteSpace its event type will be SPACE.~~

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)



```
public XMLEventReader getParent()
```

Get the parent of this instance.

**Returns:**

the parent or null if none is set

---

## nextEvent

```
public XMLEvent nextEvent()  
    throws XMLStreamException
```

Description copied from interface: [XMLEventReader](#)

Get the next XMLEvent

**Specified by:**

[nextEvent](#) in interface [XMLEventReader](#)

**Throws:**

[XMLStreamException](#) - if there is an error with the underlying XML.

**See Also:**

[XMLEvent](#)

---

## next

```
public java.lang.Object next()
```

**Specified by:**

next in interface java.util.Iterator

---

## hasNext

```
public boolean hasNext()
```

**Description copied from interface: [XMLStreamReader](#)**

Check if there are more events. Returns true if there are more events and false otherwise.

**Specified by:**

`hasNext` in interface `java.util.Iterator`

**Specified by:**

[hasNext](#) in interface [XMLStreamReader](#)

**Returns:**

true if the event reader has more events, false otherwise

**peek**

```
public XMLEvent peek()  
    throws XMLStreamException
```

**Description copied from interface: [XMLStreamReader](#)**

Check the next XMLEvent without reading it from the stream. Returns null if the stream is at EOF or has no more XMLEvents. A call to `peek()` will be equal to the next return of `next()`.

**Specified by:**

[peek](#) in interface [XMLStreamReader](#)

**Throws:**

[XMLStreamException](#)

**See Also:**

[XMLEvent](#)

**close**

```
public void close()  
    throws XMLStreamException
```

**Description copied from interface: [XMLStreamReader](#)**

Frees any resources associated with this Reader. This method does not close the underlying input source.

**Specified by:**

[close](#) in interface [XMLEventReader](#)

**Throws:**

[XMLStreamException](#) - if there are errors freeing associated resources

---

**getElementText**

```
public java.lang.String getElementText()  
                        throws XMLStreamException
```

**Description copied from interface: [XMLEventReader](#)**

Reads the content of a text-only element. Precondition: the current event is START\_ELEMENT. Postcondition: The current event is the corresponding END\_ELEMENT.

**Specified by:**

[getElementText](#) in interface [XMLEventReader](#)

**Throws:**

[XMLStreamException](#) - if the current event is not a START\_ELEMENT or if a non text element is encountered

---

**nextTag**

```
public XMLEvent nextTag()  
                throws XMLStreamException
```

**Description copied from interface: [XMLEventReader](#)**

Skips any insignificant space events until a START\_ELEMENT or END\_ELEMENT is reached. If anything other than space characters are encountered, an exception is thrown. This method should be used when processing element-only content because the parser is not able to recognize ignorable whitespace if the DTD is missing or not interpreted.

**Specified by:**

[nextTag](#) in interface [XMLEventReader](#)

**Throws:**

[XMLStreamException](#) - if anything other than space characters are encountered

---

## getProperty

```
public java.lang.Object getProperty(java.lang.String name)
                               throws java.lang.IllegalArgumentException
```

**Description copied from interface:** [XMLEventReader](#)

Get the value of a feature/property from the underlying implementation

### Specified by:

[getProperty](#) in interface [XMLEventReader](#)

### Parameters:

name - The name of the property

### Returns:

The value of the property

### Throws:

`java.lang.IllegalArgumentException` - if the property is not supported

---

## remove

```
public void remove()
```

### Specified by:

`remove` in interface `java.util.Iterator`

---

<a href="#">Overview</a>	<a href="#">Package</a>	<b><a href="#">Class</a></b>	<a href="#">Use</a>	<a href="#">Tree</a>	<a href="#">Deprecated</a>	<a href="#">Index</a>	<a href="#">Help</a>
--------------------------	-------------------------	------------------------------	---------------------	----------------------	----------------------------	-----------------------	----------------------

[PREV CLASS](#)   [NEXT CLASS](#)

[FRAMES](#)   [NO FRAMES](#)   [All Classes](#)

SUMMARY: NESTED | FIELD | [CONSTR](#) | [METHOD](#)

DETAIL: FIELD | [CONSTR](#) | [METHOD](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

ALL are **GETTER** methods ONLY

java.xml.stream.events

30 - Dec - 08

1 method

## Interface Comment

### All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.

So, setting value only done via factory methods

public interface **Comment**

extends [XMLEvent](#)

it extends XMLEvent but **NOT**  
Characters as DOM API

An interface for comment events

### Since:

1.6

### Version:

1.0

### Author:

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toString() method of this class append <!, !>  
symbol but, getText() method return only text

the same behavior for CDATA also

## Field Summary

### Fields inherited from interface [javax.xml.stream.XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

```
java.
lang.
String
```

**[getText](#)**( )

this method, will return ONLY text of this comment WITHOUT &lt;!-- --&gt;

Return the string data of the comment, returns empty string if it does not exist**Methods inherited from interface [javax.xml.stream.events.XMLEvent](#)**

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#),  
[getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#),  
[isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#),  
[isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#),  
[writeAsEncodedUnicode](#)

**Method Detail****getText**

```
java.lang.String getText( )
```

Return the string data of the comment, returns empty string if it does not exist

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)
[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

15 - Nov - 08

5 methods

java 27 - Dec - 08

## Interface Location

we cannot use this object as SAX's Locator getting once and access any time.

here we have to get this location object at EVERY time to know the exact location

```
public interface Location
```

Provides information on the location of an event. All the information provided by a Location is optional. For example an application may only report line numbers.

**Since:**

1.6

**Version:**

1.0

**Author:**

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## Method Summary

getCharacterOffset() and getColumnNumber() method will return same value ... ????

int	<a href="#">getCharacterOffset</a> ( ) Return the byte or character offset <u>into the input source this location</u> is pointing to.
int	<a href="#">getColumnNumber</a> ( ) Return the column number where the current event ends, returns -1 if none is available.
int	<a href="#">getLineNumber</a> ( ) Return the line number where the current event ends, returns -1 if none is available.
java. lang. String	<a href="#">getPublicId</a> ( ) Returns the public ID of the XML
java. lang. String	<a href="#">getSystemId</a> ( ) Returns the system ID of the XML

## Method Detail

### **getLineNumber**

```
int getLineNumber()
```

Return the line number where the current event ends, returns -1 if none is available.

**Returns:**

the current line number

---

### **getColumnNumber**

```
int getColumnNumber()
```

Return the column number where the current event ends, returns -1 if none is available.

**Returns:**

the current column number

---

### **getCharacterOffset**

```
int getCharacterOffset()
```

Return the byte or character offset into the input source this location is pointing to. If the input source is a file or a byte stream then this is the **byte offset** into that stream, but if the input source is a character media then the offset is the **character offset**. Returns -1 if there is no offset available.

**Returns:**

the current offset

---



## getPublicId

```
java.lang.String getPublicId()
```

public id means, web url

Returns the public ID of the XML

**Returns:**

the public ID, or null if not available

---

## getSystemId

```
java.lang.String getSystemId()
```

Returns the system ID of the XML

**Returns:**

the system ID, or null if not available

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

---

## Overview Package **Class** Use Tree Deprecated Index Help

[PREV CLASS](#) [NEXT CLASS](#)

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.  
So, setting value only done via factory methods

[FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FILE

[CONSTR](#) | [METHOD](#)

22 - Nov - 08

j30 - Dec - 08 [xml.events](#)

# Interface Namespace

## All Superinterfaces:

[Attribute](#), [XMLEvent](#), [XMLStreamConstants](#)

ALL are **GETTER** methods ONLY

The StAX parser maintains a namespace stack, which holds information about all XML namespaces defined for the current element and its ancestors. The namespace stack is exposed through the **javax.xml.namespace**. **NamespaceContext** interface, and can be accessed by namespace prefix or URI

```
public interface Namespace
```

3 methods

```
extends Attribute
```

An interface that contains information about a namespace. Namespaces are accessed from a [StartElement](#).

## Since:

1.6

## Version:

1.0

## Author:

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## See Also:

[StartElement](#)

it is cannot read from  
XMLEventReader. it has to get  
from StartElement.  
[getNamespace\(\)](#) /  
[getNamesapceUri\(\)](#)

## Field Summary

### Fields inherited from interface [javax.xml.stream.XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

java. lang. String	<a href="#"><u>getNamespaceURI</u></a> ( ) Gets the uri bound to the prefix of this namespace
java. lang. String	<a href="#"><u>getPrefix</u></a> ( ) Gets the prefix, returns "" if this is a default namespace declaration.
boolean	<a href="#"><u>isDefaultNamespaceDeclaration</u></a> ( ) returns true if this attribute declares the default namespace

### Methods inherited from interface javax.xml.stream.events.[Attribute](#)

[getDTDType](#), [getName](#), [getValue](#), [isSpecified](#)

### Methods inherited from interface javax.xml.stream.events.[XMLEvent](#)

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#),  
[getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#),  
[isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#),  
[isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#),  
[writeAsEncodedUnicode](#)

## Method Detail

### getPrefix

java.lang.String **getPrefix**( )

Gets the prefix, returns "" if this is a default namespace declaration.

### getNamespaceURI

java.lang.String **getNamespaceURI**( )

Gets the uri bound to the prefix of this namespace

---

## isDefaultNamespaceDeclaration

boolean **isDefaultNamespaceDeclaration**( )

returns true if this attribute declares the default namespace

if prefix is  
EMPTY, then  
this method  
return TRUE. i  
tested

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

---

[http://www-labs.det.uvigo.es/documentation/LRO/jaxp/jaxp-1\\_3-html/index.html](http://www-labs.det.uvigo.es/documentation/LRO/jaxp/jaxp-1_3-html/index.html)

Index

for examples for DOM

<http://www.java-tips.org/org.w3c.dom/>

PREV NEXT

FRAMES NO FRAMES All Classes

example for some area

<http://www.cafeconleche.org/books/xmljava/chapters/index.html>

## Java API for XML Processing (JAXP) 1.4

JAXP has SIX Major parts

1. SAX, 2. DOM, 3. TrAX, 4. XPath, 5. Validation, 6. StAX

### Packages

[javax.xml](#)

Defines core XML constants and functionality from the XML specifications.

[javax.xml.](#)

[datatype](#)

XML/Java Type Mappings.

since JAXP 1.3

some SAX example

<http://www.java-tips.org/java-se-tips/org.xml.sax/>

[javax.xml.](#)

[namespace](#)

XML Namespace processing.

next round, please set the factory SYSTEM property in every example

[javax.xml.parsers](#)

Provides classes allowing the processing of XML documents.

[javax.xml.stream](#)

[javax.xml.stream.](#)

[events](#)

it is Introduced by SUN

1st round - SUN Material

2nd round - Deleted some of page

3rd round - deleted sun material itself  
finished on 22 - Nov - 08

4th round - 24 Nov 2008

[javax.xml.stream.](#)

[util](#)

[javax.xml.](#)

[transform](#)

This package defines the generic APIs for processing transformation instructions, and performing a transformation from source to result. 11

[javax.xml.](#)

[transform.dom](#)

This package implements DOM-specific transformation APIs. 3

[javax.xml.](#)

[transform.sax](#)

This package implements SAX2-specific transformation APIs. 5

[javax.xml.](#)

[transform.stax](#)

Provides for StAX-specific transformation APIs. 2

[javax.xml.](#)

[transform.stream](#)

This package implements stream- and URI- specific transformation APIs. 2

[javax.xml.](#)

[validation](#)

This package provides an API for validation of XML documents.

# Package javax.xml.stream

StAX used Iterator  
Design pattern

## Interface Summary

<a href="#">EventFilter</a>	This interface defines the methods for filtering XML events.	to filter
<a href="#">Location</a>	Provides the location of an XML event.	
<a href="#">StreamFilter</a>	This interface defines the methods for filtering XML streams.	to filter
<a href="#">XMLEventReader</a>	This is the XML event reader interface.	
<a href="#">XMLEventWriter</a>	This is the XML event writer interface.	
<a href="#">XMLReporter</a>	This interface defines the methods for reporting XML processing errors.	
<a href="#">XMLResolver</a>	This interface defines the methods for resolving XML namespaces.	
<a href="#">XMLStreamConstants</a>	This interface defines the constants for XML stream processing.	
<a href="#">XMLStreamReader</a>	The XMLStreamReader interface allows forward, read-only access to XML.	
<a href="#">XMLStreamWriter</a>	The XMLStreamWriter interface specifies how to write XML.	

## Class Summary

<a href="#">XMLEventFactory</a>	This interface defines a utility class for creating instances of XML events.
<a href="#">XMLInputFactory</a>	Defines an abstract implementation of a factory for getting streams.
<a href="#">XMLOutputFactory</a>	Defines an abstract implementation of a factory for getting XML event writers and XML stream writers.

## Exception Summary

<a href="#">XMLStreamException</a>	The base exception for unexpected processing errors.
------------------------------------	--

## Error Summary

<a href="#"><b>FactoryConfigurationError</b></a>	An error class for reporting factory configuration errors.
--	--

[Overview](#) [\*\*Package\*\*](#) [Class](#) [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV PACKAGE](#) [NEXT PACKAGE](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

### Comparing Cursor and Iterator APIs

Before choosing between the cursor and iterator APIs, you should note a few things that you can do with the iterator API that you cannot do with cursor API:

Objects created from the XMLEvent subclasses are immutable, and can be used in arrays, lists, and maps, and can be passed through your applications even after the parser has moved on to subsequent events. You can create subtypes of XMLEvent that are either completely new information items or extensions of existing items but with additional methods.

You can add and remove events from an XML event stream in much simpler ways than with the cursor API. Similarly, keep some general recommendations in mind when making your choice:

If you are programming for a particularly memory-constrained environment, like J2ME, you can make smaller, more efficient code with the cursor API.

If performance is your highest priority--for example, when creating low-level libraries or infrastructure--the cursor API is more efficient.

If you want to create XML processing pipelines, use the iterator API.

If you want to modify the event stream, use the iterator API.

If you want to your application to be able to handle pluggable processing of the event stream, use the iterator API.

In general, if you do not have a strong preference one way or the other, using the iterator API is recommended because it is more flexible and extensible, thereby "future-proofing" your applications.

22 - Nov - 08

9 interfaces

# Package javax.xml.stream.events

## Interface Summary

<a href="#">Attribute</a>	An interface that contains information about an attribute.
<a href="#">Characters</a>	This describes the interface to Characters events.
<a href="#">Comment</a>	An interface for comment events
<a href="#">DTD</a>	<del>This is the top level interface for events dealing with DTDs</del>
<a href="#">EndDocument</a>	A marker interface for the end of the document
<a href="#">EndElement</a>	An interface for the end element event.
<a href="#">EntityDeclaration</a>	<del>An interface for handling Entity Declarations This interface is used to record and report unparsed entity declarations.</del>
<a href="#">EntityReference</a>	<del>An interface for handling Entity events.</del>
<a href="#">Namespace</a>	An interface that contains information about a namespace.
<a href="#">NotationDeclaration</a>	<del>An interface for handling Notation Declarations Receive notification of a notation declaration event.</del>
<a href="#">ProcessingInstruction</a>	<del>An interface that describes the data found in processing instructions</del>
<a href="#">StartDocument</a>	An interface for the start document event
<a href="#">StartElement</a>	The StartElement interface provides access to information about start elements.
<a href="#">XMLEvent</a>	This is the base event interface for handling markup events.



[Overview](#) **Package** [Class](#) [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV PACKAGE](#) [NEXT PACKAGE](#) [FRAMES](#) [NO FRAMES](#) [All Classes](#)

No need to work out. just read.

none of these classes / interface has direct usage with application, i hope i dont want , i just skimmed these

# Package javax.xml.stream.util

## Interface Summary

<a href="#">XMLEventAllocator</a>	This interface defines a class that allows a user to register a way to allocate events given an XMLStreamReader.
<a href="#">XMLEventConsumer</a>	This interface defines an event consumer interface.

## Class Summary

for FILTER related to stream and event reader  
NO NEED TO LEARN

<a href="#">EventReaderDelegate</a>	This is the base class for deriving an <a href="#">XMLEventReader</a> filter.
<a href="#">StreamReaderDelegate</a>	This is the base class for deriving an XMLStreamReader filter. This class is designed to sit between an XMLStreamReader and an application's XMLStreamReader.

that is one stream reader and filtered one more stream reader

[Overview](#) **Package** [Class](#) [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV PACKAGE](#) [NEXT PACKAGE](#) [FRAMES](#) [NO FRAMES](#) [All Classes](#)

[Overview](#)
[Package](#)
[Class](#)
[Use](#)
[Tree](#)
[Deprecated](#)
[Index](#)
[Help](#)
[PREV CLASS](#)
[NEXT CLASS](#)
[FRAMES](#)
[NO FRAMES](#)
[All Classes](#)
SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

ja30 - Dec - 08events

# Interface StartDocument

4 methods

ALL are **GETTER** methods ONLY

## All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)ALL are **GETTER** methods ONLY

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.  
So, setting value only done via factory methods

public interface **StartDocument**extends [XMLEvent](#)~~An interface for the start document event~~

## Since:

1.6

## Version:

1.0

## Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## Field Summary

### Fields inherited from interface javax.xml.stream.[XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

so, this method will be true, only if it is read from XML document

boolean	<u><a href="#">encodingSet</a></u> ( ) Returns true if CharacterEncodingScheme was set in the encoding declaration of the <u>document</u>
java. lang. String	<u><a href="#">getCharacterEncodingScheme</a></u> ( ) <span>from factory</span> Returns the encoding style of the XML data <span>UTF-8/16</span>
java. lang. String	<u><a href="#">getSystemId</a></u> ( ) ✓ Returns the system ID of the XML data
java. lang. String	<u><a href="#">getVersion</a></u> ( ) <span>from factory</span> Returns the version of XML of this XML stream
boolean	<u><a href="#">isStandalone</a></u> ( ) ✓ Returns if this XML is <u>standalone</u> <span>for DTD only</span>
boolean	<u><a href="#">standaloneSet</a></u> ( ) Returns true if the <u>standalone attribute was set</u> in the encoding declaration of the document.

## Methods inherited from interface javax.xml.stream.events.XMLEvent

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#), [getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#), [isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#), [isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#), [writeAsEncodedUnicode](#)

## Method Detail

### getSystemId

java.lang.String **getSystemId** ( )

~~Returns the system ID of the XML data~~

#### Returns:

the system ID, defaults to ""

but not NULL

## **getCharacterEncodingScheme**

```
java.lang.String getCharacterEncodingScheme( )
```

~~Returns the encoding style of the XML data~~

**Returns:**

the character encoding, defaults to "UTF-8"

---

## **encodingSet**

```
boolean encodingSet( )
```

they would have named like  
isEncodingSpecified() instead of  
StartElement.encodingSet()

Returns true if CharacterEncodingScheme was set in the encoding declaration of the document

---

## **isStandalone**

```
boolean isStandalone( )
```

~~Returns if this XML is standalone~~

**Returns:**

~~the standalone state of XML, defaults to "no"~~

---

## **standaloneSet**

```
boolean standaloneSet( )
```

~~Returns true if the standalone attribute was set in the encoding declaration of the document.~~

---

## getVersion

```
java.lang.String getVersion( )
```

Returns the version of XML of this XML stream

**Returns:**

the version of XML, defaults to "1.0"

---

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)
[PREV CLASS](#) [NEXT CLASS](#)
[FRAMES](#) [NO FRAMES](#) [All Classes](#)
SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

22 - Nov - 08

6 methods

30 - Dec - 08

3 - namespace related

2 - attribute related

1 - getter for name of startelement

ALL are **GETTER** methods ONLY

java.xml.stream.events

# Interface StartElement

## All Superinterfaces:

[XMLEvent](#), [XMLStreamConstants](#)public interface **StartElement**extends [XMLEvent](#)usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.

So, setting value only done via factory methods

The StartElement interface provides access to information about start elements. A StartElement is reported for each Start Tag in the document.

## Since:

1.6

## Version:

1.0

## Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

since this is STARTelement and not just  
ELEMENT, StartElement does not associated  
with its text.element text will be separate xml event. so,  
dont expect method to retrieve text of element  
here.

## Field Summary

### Fields inherited from interface [javax.xml.stream.XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#),  
[END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#),  
[NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#),  
[START\\_ELEMENT](#)

## Method Summary

<a href="#">Attribute</a>	<a href="#">getAttributeByName</a> ( <a href="#">QName</a> name)	Returns the attribute referred to by this name
java.util. Iterator	<a href="#">getAttributes</a> ( )	Returns an Iterator of <a href="#">non-namespace declared attributes</a> declared on this START_ELEMENT, returns an empty iterator if there are no attributes.
<a href="#">QName</a>	<a href="#">getName</a> ( )	Get the name of this event
<a href="#">NamespaceContext</a>	<a href="#">getNamespaceContext</a> ( )	Gets a read-only namespace context.
java.util. Iterator	<a href="#">getNamespaces</a> ( )	Returns an Iterator of namespaces declared on this element.
java.lang.String	<a href="#">getNamespaceURI</a> (java.lang.String prefix)	Gets the value that the <a href="#">prefix is bound to in the context of this element</a> .

every start element , can have its own NamespaceContext

## Methods inherited from interface javax.xml.stream.events.[XMLEvent](#)

[asCharacters](#), [asEndElement](#), [asStartElement](#), [getEventType](#), [getLocation](#), [getSchemaType](#), [isAttribute](#), [isCharacters](#), [isEndDocument](#), [isEndElement](#), [isEntityReference](#), [isNamespace](#), [isProcessingInstruction](#), [isStartDocument](#), [isStartElement](#), [writeAsEncodedUnicode](#)

## Method Detail

### getName

[QName](#) [getName](#) ( )

Get the name of this event

#### Returns:

the qualified name of this event

except getName() method, all others are MAY return NULL or EMPTY,

ALL of these are parameter while creating instance for StartElement

---

## getAttributes

```
java.util.Iterator getAttributes()
```

Returns an Iterator of non-namespace declared attributes declared on this START\_ELEMENT, returns an empty iterator if there are no attributes. The iterator must contain only implementations of the javax.xml.stream.Attribute interface. Attributes are fundamentally unordered and may not be ~~reported~~ in any order.

### Returns:

a readonly Iterator over Attribute interfaces, or an empty iterator

---

## getNamespaces

```
java.util.Iterator getNamespaces()
```

Returns an Iterator of namespaces declared on this element. This Iterator does not contain previously declared namespaces unless they appear on the current START\_ELEMENT. Therefore this list may contain redeclared namespaces and duplicate namespace declarations. Use the getNamespaceContext() method to get the current context of namespace declarations.

The iterator must contain only implementations of the javax.xml.stream.Namespace interface.

A Namespace is A Attribute. One can iterate over a list of namespaces as a list of attributes. However this method returns only the list of namespaces declared on this START\_ELEMENT and does not include the attributes declared on this START\_ELEMENT. Returns an empty iterator if there are no namespaces.

### Returns:

a readonly Iterator over Namespace interfaces, or an empty iterator

---

## getAttributeByName

```
Attribute getAttributeByName(QName name)
```



~~Returns the attribute referred to by this name~~

**Parameters:**

~~`name` - the qname of the desired name~~

**Returns:**

~~the attribute corresponding to the name value or null~~

## getNamespaceContext

[NamespaceContext](#) **getNamespaceContext**( )

Gets a read-only namespace context. If no context is available this method will return an empty namespace context. The NamespaceContext contains information about all namespaces in scope for this StartElement.

**Returns:**

the current namespace context

so, NamespaceContext is just  
collection of NameSpace object  
for a particular  
START\_ELEMENT

## getNamespaceURI

`java.lang.String` **getNamespaceURI**( `java.lang.String` prefix)

Gets the value that the prefix is bound to in the context of this element. Returns null if the prefix is not bound in this context

**Parameters:**

`prefix` - the prefix to lookup

**Returns:**

the uri bound to the prefix or null

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)
[PREV CLASS](#) [NEXT CLASS](#)
[FRAMES](#) [NO FRAMES](#) [All Classes](#)
SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

22 - Nov - 08

javax [30 - Dec - 08](#) nts

## Interface XMLEvent

14 methods

7 - HANDY methods to avoid exception scanario (boolean)  
3 - as event methods

### All Superinterfaces:

[XMLStreamConstants](#)

usually domain object will have both setter /  
getter methods. but all of XML event object has  
Getter methods only.  
So, setting value only done via factory methods

### All Known Subinterfaces:

[Attribute](#), [Characters](#), [Comment](#), [DTD](#), [EndDocument](#), [EndElement](#), [EntityDeclaration](#),  
[EntityReference](#), [Namespace](#), [NotationDeclaration](#), [ProcessingInstruction](#), [StartDocument](#),  
[StartElement](#)

These UTILITY method will be useful  
for XMLEventReader to check what is  
the current event

public interface **XMLEvent**extends [XMLStreamConstants](#)

toString() method of each XMLEvent object overridden  
appropriately.  
it is good design, directly write into underlaying stream  
without any special code

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.

Yes great feature

### Since:

1.6

### Version:

1.0

### Author:

Copyright (c) 2001

### See Also:

[XMLEventReader](#)[EndElement](#),[EntityDeclaration](#)

### EVENT VALUE

START\_ELEMENT = 1  
END\_ELEMENT = 2

CHARACTERS = 4 ( CDATA / text )

COMMENT = 5

START\_DOCUMENT = 7  
END\_DOCUMENT = 8

ATTRIBUTE = 10

NAMESPACE = 13

served.

[ProcessingInstruction](#), [StartElement](#),  
[EntityReference](#),  
[on](#)

## Field Summary

### Fields inherited from interface [javax.xml.stream.XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#), [END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#), [NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#), [START\\_ELEMENT](#)

## Method Summary

<a href="#">Characters</a>	<a href="#">asCharacters</a> ( )	so, check <a href="#">isCharacters()</a> method of this class before to call
	Returns this event as Characters, may result in a <a href="#">class cast exception</a> if this event is not Characters.	
<a href="#">EndElement</a>	<a href="#">asEndElement</a> ( )	so, check <a href="#">isEndElement()</a> method of this class before to call
	Returns this event as an end element event, may result in a class cast exception if this event is not a end element.	
<a href="#">StartElement</a>	<a href="#">asStartElement</a> ( )	so, check <a href="#">isStartElement()</a> method of this class before to call
	Returns this event as a start element event, may result in a class cast exception if this event is not a start element.	
int	<a href="#">getEventType</a> ( )	this will be null unless we set in <a href="#">XMLEventFactory</a>
	Returns an integer code for this event.	
<a href="#">Location</a>	<a href="#">getLocation</a> ( )	location object will be usefull with <a href="#">XMLEventReader</a>
	Return the location of this event.	
<a href="#">QName</a>	<a href="#">getSchemaType</a> ( )	
	This method is provided for implementations to provide optional type information about the associated event.	where can i associate an xml schema ? can i do via xml file itsef
boolean	<a href="#">isAttribute</a> ( )	
	A utility function to check if this event is an Attribute.	
boolean	<a href="#">isCharacters</a> ( )	2
	A utility function to check if this event is Characters.	
boolean	<a href="#">isEndDocument</a> ( )	3
	A utility function to check if this event is an EndDocument.	

boolean	<u><a href="#">isEndElement()</a></u> A utility function to check if this event is a EndElement.
boolean	<u><a href="#">isEntityReference()</a></u> <input type="checkbox"/> A utility function to check if this event is an EntityReference.
boolean	<u><a href="#">isNamespace()</a></u> A utility function to check if this event is a Namespace.
boolean	<u><a href="#">isProcessingInstruction()</a></u> A utility function to check if this event is a ProcessingInstruction.
boolean	<u><a href="#">isStartDocument()</a></u> A utility function to check if this event is a StartDocument.
boolean	<u><a href="#">isStartElement()</a></u> A utility function to check if this event is a StartElement.
void	<u><a href="#">writeAsEncodedUnicode(java.io.Writer writer)</a></u> This method will write the XMLEvent as per the XML 1.0 specification as Unicode characters.

this is great  
feature to force  
us to use  
Iterator API :)

super method to  
write xml content  
into unicode ...  
super.

## Method Detail

### getEventType

```
int getEventType()
```

but, this does not  
work. it written  
nothing in output  
stream

Returns an integer code for this event.

#### See Also:

[XMLStreamConstants.START\\_ELEMENT](#), [XMLStreamConstants.END\\_ELEMENT](#), [XMLStreamConstants.CHARACTERS](#), [XMLStreamConstants.ATTRIBUTE](#), [XMLStreamConstants.NAMESPACE](#), [XMLStreamConstants.PROCESSING\\_INSTRUCTION](#), [XMLStreamConstants.COMMENT](#), [XMLStreamConstants.START\\_DOCUMENT](#), [XMLStreamConstants.END\\_DOCUMENT](#), [XMLStreamConstants.DTD](#)

## getLocation

[Location](#) **getLocation()**

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

**See Also:**

[Location](#)

---

## isStartElement

boolean **isStartElement()**

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

**See Also:**

[StartElement](#)

---

## isAttribute

boolean **isAttribute()**

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

**See Also:**

[Attribute](#)

---

## isNamespace

boolean **isNamespace()**

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

**See Also:**

[Namespace](#)

---

## **isEndElement**

boolean **isEndElement()**



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

**See Also:**

[EndElement](#)

---

## **isEntityReference**

~~boolean **isEntityReference()**~~

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

**See Also:**

[EntityReference](#)

---

## **isProcessingInstruction**

~~boolean **isProcessingInstruction()**~~

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

**See Also:**

[ProcessingInstruction](#)

---

## **isCharacters**



boolean **isCharacters**( )

~~A utility function to check if this event is Characters.~~

**See Also:**

[Characters](#)

---

**isStartDocument**

boolean **isStartDocument**( )

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

**See Also:**

[StartDocument](#)

---

**isEndDocument**

boolean **isEndDocument**( )

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

**See Also:**

[EndDocument](#)

---

**asStartElement**

[StartElement](#) **asStartElement**( )

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

---

A

check with  
isStartElement()  
method of this class  
before to use this mtd

## asEndElement

B

check with  
isEndElement() method  
of this class before to  
use this mtd

[EndElement](#) **asEndElement** ( )

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

check with isCharacters  
( ) method of this class  
before to use this mtd

## asCharacters

so, check isCharacters() method of this class before to call

[Characters](#) **asCharacters** ( )

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

## getSchemaType

[QName](#) **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**(java.io.Writer writer)  
throws [XMLStreamException](#)

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 info set expressed.

but, it was not worked for me. i  
tried...at 4th round also

**Parameters:**



`writer` - The writer that will output the data

**Throws:**

`XMLStreamException` - if there is a fatal error writing the event

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

---

javax.xml.stream.util

# Interface XMLEventAllocator

public interface **XMLEventAllocator**

This interface defines a class that allows a user to register a way to allocate events given an XMLStreamReader. An implementation is not required to use the XMLEventFactory implementation but this is recommended. The XMLEventAllocator can be set on an XMLInputFactory using the property "javax.xml.stream allocator"

**Since:**

1.6

**Version:**

1.0

**Author:**

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

**See Also:**

[XMLInputFactory](#), [XMLEventFactory](#)

## Method Summary

<a href="#">XMLEvent</a>	<b><a href="#">allocate</a></b> ( <a href="#">XMLStreamReader</a> reader )  This method allocates an event <u>given the current state of the XMLStreamReader.</u>
void	<b><a href="#">allocate</a></b> ( <a href="#">XMLStreamReader</a> reader , <a href="#">XMLEventConsumer</a> consumer )  This method allocates an <u>event or set of events given the current state of the XMLStreamReader and adds the event or set of events to the consumer that was passed in.</u>

<a href="#">XMLEventAllocator</a>	<a href="#">newInstance</a> ( )
-----------------------------------	---------------------------------

This method creates an instance of the XMLEventAllocator.

## Method Detail

### newInstance

[XMLEventAllocator](#) **newInstance** ( )

This method creates an instance of the XMLEventAllocator. This allows the XMLInputFactory to allocate a new instance per reader.

---

### allocate

[XMLEvent](#) **allocate**([XMLStreamReader](#) reader)  
throws [XMLStreamException](#)

This method allocates an event given the current state of the XMLStreamReader. If this XMLEventAllocator does not have a one-to-one mapping between reader states and events this method will return null. This method must not modify the state of the XMLStreamReader.

#### Parameters:

reader - The XMLStreamReader to allocate from

#### Returns:

the event corresponding to the current reader state

#### Throws:

[XMLStreamException](#)

---

### allocate

void **allocate**([XMLStreamReader](#) reader,  
[XMLEventConsumer](#) consumer)  
throws [XMLStreamException](#)

This method allocates an event or set of events given the current state of the `XMLStreamReader` and adds the event or set of events to the consumer that was passed in. This method can be used to expand or contract reader states into event states. This method may modify the state of the `XMLStreamReader`.

**Parameters:**

reader - The `XMLStreamReader` to allocate from

consumer - The `XMLEventConsumer` to add to.

**Throws:**

[XMLStreamException](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

---

[Overview](#) [Package](#) **Class** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

javax.xml.stream.util

# Interface XMLEventConsumer

## All Known Subinterfaces:

[XMLEventWriter](#)

```
public interface XMLEventConsumer
```

This interface defines an event consumer interface. The contract of the of a consumer is to accept the event. This interface can be used to mark an object as able to receive events. Add may be called several times in immediate succession so a consumer must be able to cache events it hasn't processed yet.

## Since:

1.6

## Version:

1.0

## Author:

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

## Method Summary

```
void add(XMLEvent event)
```

This method adds an event to the consumer.

## Method Detail

### add

```
void add(XMLEvent event)  
    throws XMLStreamException
```

This method adds an event to the consumer. Calling this method invalidates the event parameter. The client application should discard all references to this event upon calling add. The behavior of an application that continues to use such references is undefined.

**Parameters:**

event - the event to add, may not be null

**Throws:**

[XMLStreamException](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

[22 - Nov - 08](#) [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

[28 - Dec - 08](#)

in XMLEventFactory no any configuration or set property / feature as other factories

24 methods

3 - ATTRIBUTE related methods  
4 - CHARACTER related methods  
7 - ELEMENT related methods  
5 - DOCUMENT related methods  
2 - NAMESPACE related methods  
3 - WRITER related methods

All of XMLEvent object has over ride its toString() method to add special symbol like <, [! [CDATA, <!--

usually domain object will have both setter / getter methods. but all of XML event object has Getter methods only.  
So, setting value only done via factory methods

javax.xml.stream

## Class XMLEventFactory

java.lang.

↳ javax.

public abstract class XML

extends java.lang.Object

This interface defines a utility class for creating instances of XMLEvents

Since:

1.6

Version:

1.0

Author:

ALL of its methods are just create different Event object with overloaded. no methods for any other purpose as other factories

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### EVENT VALUE

START\_ELEMENT = 1

END\_ELEMENT = 2

CHARACTERS = 4 ( CDATA / text )

COMMENT = 5

START\_DOCUMENT = 7

END\_DOCUMENT = 8

ATTRIBUTE = 10

NAMESPACE = 13

There is NO any parent / child nodes or methods to retrieve / add them as DOM.

in StAX api, the order of event is the matter. no need to think or worry about hierarchy.

any those logic has to implement in our application only

All Factory method are start with "new / create" and appended by class name

newSAXParser()  
newValidator()  
newValidatorHandler()  
newDocumentBuilder()  
newTransformer() and etc....

abstract [Attribute](#) [createAttribute](#) ( [QN](#)

Create a new Attribute

abstract [Attribute](#) [createAttribute](#) (java.lang.String localName, java.lang.

String value)

Create a new Attribute

None of these CREATION method throws any checked exception.. good

abstract <a href="#">Attribute</a> <b>A</b>	<a href="#">createAttribute</a> (java.lang.String prefix, java.lang.String namespaceURI, java.lang.String localName, java.lang.String value) Create a new Attribute
abstract <a href="#">Characters</a> <b>C</b>	<a href="#">createCDATA</a> (java.lang.String content) Create a Characters event with the CDATA flag set to true
abstract <a href="#">Characters</a> <b>C</b>	<a href="#">createCharacters</a> (java.lang.String content) Create a Characters event, this method does not check if the content is all whitespace.
abstract <a href="#">Comment</a> <b>C</b>	<a href="#">createComment</a> (java.lang.String text) Create a comment
abstract <a href="#">DTD</a>	<del><a href="#">createDTD</a>(java.lang.String dtd) Create a document type definition event This string contains the entire document type declaration that matches the doctype decl in the XML 1.0 specification</del>
abstract <a href="#">EndDocument</a> <b>D</b>	<a href="#">createEndDocument</a> () Creates a new instance of an EndDocument event
abstract <a href="#">EndElement</a> <b>E</b>	<a href="#">createEndElement</a> ( <a href="#">QName</a> name, java.util. <a href="#">Iterator</a> namespaces) Create a new EndElement
abstract <a href="#">EndElement</a> <b>E</b>	<a href="#">createEndElement</a> (java.lang.String prefix, java.lang.String namespaceUri, java.lang.String localName) Create a new EndElement
abstract <a href="#">EndElement</a> <b>E</b>	<a href="#">createEndElement</a> (java.lang.String prefix, java.lang.String namespaceUri, java.lang.String localName, java.util.Iterator namespaces) Create a new EndElement
abstract <a href="#">EntityReference</a>	<del><a href="#">createEntityReference</a>(java.lang.String name, <a href="#">EntityDeclaration</a> declaration) Creates a new instance of a EntityReference event</del>
abstract <a href="#">Characters</a>	<del><a href="#">createIgnorableSpace</a>(java.lang.String content) Create an ignorable space</del>
abstract <a href="#">Namespace</a> <b>N</b>	<a href="#">createNamespace</a> (java.lang.String namespaceURI) Create a new default Namespace
abstract <a href="#">Namespace</a> <b>N</b>	<a href="#">createNamespace</a> (java.lang.String prefix, java.lang.String namespaceUri) Create a new Namespace
abstract <a href="#">ProcessingInstruction</a>	<del><a href="#">createProcessingInstruction</a>(java.lang.String target, java.lang.String data) Create a processing instruction</del>
abstract <a href="#">Characters</a> <b>C</b>	<del><a href="#">createSpace</a>(java.lang.String content) Create a Characters event with the isSpace flag set to true</del>

No separate  
class for  
CDATA !!



abstract <a href="#">StartDocument</a>	<a href="#">createStartDocument</a> () Creates a new instance of a <del>StartDocument</del> event
abstract <a href="#">StartDocument</a>	<a href="#">createStartDocument</a> (java.lang.String encoding) Creates a new instance of a <del>StartDocument</del> event
abstract <a href="#">StartDocument</a>	<a href="#">createStartDocument</a> (java.lang.String encoding, java.lang.String version) Creates a new instance of a <del>StartDocument</del> event
abstract <a href="#">StartDocument</a>	<del><a href="#">createStartDocument</a>(java.lang.String encoding, java.lang.String version, boolean standalone)</del> Creates a new instance of a <del>StartDocument</del> event
abstract <a href="#">StartElement</a> 	<a href="#">createStartElement</a> ( <a href="#">QName</a> name, java.util. <u>Iterator</u> attributes, java.util. <u>Iterator</u> namespaces) Create a new StartElement.
abstract <a href="#">StartElement</a> 	<a href="#">createStartElement</a> (java.lang.String prefix, java.lang.String namespaceUri, java.lang.String localName) Create a new StartElement.
abstract <a href="#">StartElement</a> 	<a href="#">createStartElement</a> (java.lang.String prefix, java.lang.String namespaceUri, java.lang.String localName, java.util. <u>Iterator</u> attributes, java.util. <u>Iterator</u> namespaces) Create a new StartElement.
abstract <a href="#">StartElement</a> 	<a href="#">createStartElement</a> (java.lang.String prefix, java.lang.String namespaceUri, java.lang.String localName, java.util. <u>Iterator</u> attributes, java.util. <u>Iterator</u> namespaces, <u>NamespaceContext</u> context) Create a new StartElement.
static <a href="#">XMLEventFactory</a> 	<a href="#">newInstance</a> () Create a new instance of the factory ✓
static <a href="#">XMLEventFactory</a> 	<a href="#">newInstance</a> (java.lang.String factoryId, java.lang. ClassLoader classLoader) Create a new instance of the factory ✓
abstract void 	<a href="#">setLocation</a> ( <a href="#">Location</a> location) This method allows setting of the <u>Location</u> on each event that is created by this factory. ✓

the corresponding method  
not in StreamWriter

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Constructor Detail

## XMLEventFactory

protected **XMLEventFactory**()

### Method Detail

#### newInstance

public static [XMLEventFactory](#) **newInstance**()  
throws [FactoryConfigurationError](#)

Create a new instance of the factory

##### Throws:

[FactoryConfigurationError](#) – if an instance of this factory cannot be loaded

#### newInstance

public static [XMLEventFactory](#) **newInstance**(java.lang.String factoryId,  
java.lang.ClassLoader classLoader)  
throws [FactoryConfigurationError](#)

Create a new instance of the factory

##### Parameters:

[factoryId](#) – Name of the factory to find, same as a property name

[classLoader](#) – classLoader to use

##### Returns:

the factory implementation

##### Throws:

[FactoryConfigurationError](#) – if an instance of this factory cannot be loaded

```
System.setProperty("jaxp.debug", "1");
```

call this to see what is happening while creating factory instances.

#### setLocation

public abstract void **setLocation**([Location](#)

This method allows setting of the Location on each event that is created by this factory. The values are copied by value into the events created by this factory. To reset the location information set the location to null.

How can i create object to this Location Either XMLOutputFactory or XMLEventWriter dont have method to get Location ??

i hope this is a GAP in their design ( it is not design GAP. it comes only if it is read from XML file but not by on memory creation )

i dont know, purpose of this method. why need to set location object ?

ANS :: actually, we creating event object which means we are creating xml content on memory. to set location information will help to each event any debug BEFORE to go hard disk. Even EventWriter has been associated with a file location, it is will associated with event object only when writing to hard disk. if need in between, we have to set Location object

## createAttribute

```
public abstract Attribute createAttribute(java.lang.String prefix,  
                                           java.lang.String namespaceURI,  
                                           java.lang.String localName,  
                                           java.lang.String value)
```

Create a new Attribute

### Parameters:

~~prefix~~ – the prefix of this attribute, may not be null

~~namespaceURI~~ – the attribute value is set to this value, may not be null

~~localName~~ – the local name of the XML name of the attribute, localName cannot be null

~~value~~ – the attribute value to set, may not be null

### Returns:

the Attribute with specified values

---

## createAttribute

```
public abstract Attribute createAttribute(java.lang.String localName,  
                                           java.lang.String value)
```

Create a new Attribute

### Parameters:

~~localName~~ – the local name of the XML name of the attribute, localName cannot be null

~~value~~ – the attribute value to set, may not be null

### Returns:

the Attribute with specified values

---

## createAttribute

```
public abstract Attribute createAttribute(QName name,  
                                           java.lang.String value)
```

Create a new Attribute

### Parameters:

~~name~~ – the qualified name of the attribute, may not be null

~~value~~ – the attribute value to set, may not be null

### Returns:

the Attribute with specified values

## createNamespace

```
public abstract Namespace createNamespace(java.lang.String namespaceURI)
```

Create a new default Namespace

**Parameters:**

~~namespaceURI~~ - the default namespace uri

**Returns:**

the Namespace with the specified value

it will have  
defaultNamespace prefix  
that is empty space

## createNamespace

```
public abstract Namespace createNamespace(java.lang.String prefix,  
                                           java.lang.String namespaceUri)
```

Create a new Namespace

**Parameters:**

~~prefix~~ - the prefix of this namespace, may not be null

~~namespaceUri~~ - the attribute value is set to this value, may not be null

**Returns:**

the Namespace with the specified values

KEEP IN MIND, iterator cannot be re used.  
once used just throw out and create another  
one param !!!!!

## createStartElement

```
public abstract StartElement createStartElement(QName name,  
                                                java.util.Iterator attributes,  
                                                java.util.Iterator namespaces)
```

Create a new StartElement. Namespaces can be added to this StartElement by passing in an Iterator that walks over a set of Namespace interfaces. Attributes can be added to this StartElement by passing an iterator that walks over a set of Attribute interfaces.

iterator of Collection which has one  
or more Attribute event objects

iterator of collection which has one or more  
Namespace event object

**Parameters:**

name - the qualified name of the attribute, may not be null

attributes - an optional unordered set of objects that implement Attribute to add to the new StartElement, may be null

namespaces - an optional unordered set of objects that implement Namespace to add to the new StartElement, may be null

**Returns:**

an instance of the requested StartElement

## createStartElement

Every StartElement will have its own NamespaceContext

```
public abstract StartElement createStartElement( java.lang.String prefix,
                                              java.lang.String namespaceUri,
                                              java.lang.String localName)
```

Create a new StartElement. This defaults the NamespaceContext to an empty NamespaceContext. Querying this event for its namespaces or attributes will result in an empty iterator being returned.

### Parameters:

namespaceUri - the uri of the QName of the new StartElement  
 localName - the local name of the QName of the new StartElement  
 prefix - the prefix of the QName of the new StartElement

mostly, we use this method often, to create start element

### Returns:

an instance of the requested StartElement

## createStartElement

KEEP IN MIND, iterator cannot be re used. once used just throw out and create another one param !!!!!

```
public abstract StartElement createStartElement( java.lang.String prefix,
                                              java.lang.String namespaceUri,
                                              java.lang.String localName,
                                              java.util.Iterator attributes,
                                              java.util.Iterator namespaces)
```

i hope, namespaceUri and namespaces dont have any difference. but both parameter will have simply namespaces

~~Create a new StartElement. Namespaces can be added to this StartElement by passing in an Iterator that walks over a set of Namespace interfaces. Attributes can be added to this StartElement by passing an iterator that walks over a set of Attribute interfaces.~~

### Parameters:

namespaceUri - the uri of the QName of the new StartElement  
 localName - the local name of the QName of the new StartElement  
 prefix - the prefix of the QName of the new StartElement  
 attributes - an unordered set of objects that implement Attribute to add to the new StartElement  
 namespaces - an unordered set of objects that implement Namespace to add to the new StartElement

### Returns:

an instance of the requested StartElement

## createStartElement

```
public abstract StartElement createStartElement( java.lang.String prefix,
```

what is the purpose of namespacecontext ??

it is just container for a EVERY StartElement event ,which will hold of list of Namespace

```
java.lang.String namespaceUri,
java.lang.String localName,
java.util.Iterator attributes,
java.util.Iterator namespaces,
NamespaceContext context)
```

Create a new StartElement. Namespaces can be added to the new StartElement by passing over a set of Namespace interfaces. Attributes can be added to the new StartElement by passing over a set of Attribute interfaces.

How can i create this NamespaceContext object ??

i hope this is 2nd GAP in their design

#### Parameters:

namespaceUri - the uri of the QName of the new StartElement

localName - the local name of the QName of the new StartElement

prefix - the prefix of the QName of the new StartElement

attributes - an unordered set of objects that implement Attribute to add to the new StartElement, may be null

namespaces - an unordered set of objects that implement Namespace to add to the new StartElement, may be null

context - the namespace context of this element

#### Returns:

an instance of the requested StartElement

## createElement

```
public abstract EndElement createElement(QName name,
                                         java.util.Iterator namespaces)
```

Create a new EndElement

2 - parameters

Attribute never be with end element

#### Parameters:

name - the qualified name of the EndElement

namespaces - an optional unordered set of objects that implement Namespace that have gone out of scope, may be null

#### Returns:

an instance of the requested EndElement

## createElement

```
public abstract EndElement createElement(java.lang.String prefix,
                                         java.lang.String namespaceUri,
                                         java.lang.String localName)
```

Create a new EndElement

3 - parameters

**Parameters:**

namespaceUri - the uri of the QName of the new StartElement  
 localName - the local name of the QName of the new StartElement  
 prefix - the prefix of the QName of the new StartElement

**Returns:**

an instance of the requested EndElement

**createEndElement**

```
public abstract EndElement createEndElement(java.lang.String prefix,
                                             java.lang.String namespaceUri,
                                             java.lang.String localName,
                                             java.util.Iterator namespaces)
```

4 - parameters

Create a new EndElement

**Parameters:**

namespaceUri - the uri of the QName of the new StartElement  
 localName - the local name of the QName of the new StartElement  
 prefix - the prefix of the QName of the new StartElement  
 namespaces - an unordered set of objects that implement Namespace that have gone out of scope, may be null

**Returns:**

an instance of the requested EndElement

**createCharacters**

```
public abstract Characters createCharacters(java.lang.String content)
```

Create a Characters event, this method does not check if the content is all whitespace. To create a space event use #createSpace(String)

**Parameters:**

content - the string to create

**Returns:**

a Characters event

**createCDATA**

```
public abstract Characters createCDATA(java.lang.String content)
```

Create a Characters event with the CDATA flag set to true

**Parameters:**

content - the string to create

**Returns:**

a Characters event

Really super style of  
design of Characters  
class with set of flags

---

**createSpace**

```
public abstract Characters createSpace(java.lang.String content)
```

Create a Characters event with the isSpace flag set to true

**Parameters:**

content - the content of the space to create

**Returns:**

a Characters event

---

**createIgnorableSpace**

```
public abstract Characters createIgnorableSpace(java.lang.String content)
```

Create an ignorable space

**Parameters:**

content - the space to create

**Returns:**

a Characters event

for DID

---

**createStartDocument**

```
public abstract StartDocument createStartDocument()
```

Creates a new instance of a StartDocument event

**Returns:**

a StartDocument event

use this method. it is  
enough for real coding

---

**createStartDocument**

```
public abstract StartDocument createStartDocument(java.lang.String encoding,
```



```
java.lang.String version,  
boolean standalone)
```

Creates a new instance of a StartDocument event

**Parameters:**

encoding - the encoding style

version - the XML version

standalone - the status of standalone may be set to "true" or "false"

standalone,  
Doesnot appear  
even if it set to  
TRUE

it is DTD related

value of these can  
be any randomly  
value.

not done any  
validation.

**Returns:**

a StartDocument event

## createStartDocument

```
public abstract StartDocument createStartDocument(java.lang.String encoding,  
                                                    java.lang.String version)
```

Creates a new instance of a StartDocument event

**Parameters:**

encoding - the encoding style

version - the XML version

**Returns:**

a StartDocument event

encoding and version can be any  
arbitrary value. ( i tested )

## createStartDocument

```
public abstract StartDocument createStartDocument(java.lang.String encoding)
```

Creates a new instance of a StartDocument event

**Parameters:**

encoding - the encoding style

**Returns:**

a StartDocument event

this encoding value can be  
anything. ( i tested )

## createEndDocument

```
public abstract EndDocument createEndDocument()
```

Creates a new instance of an EndDocument event

**Returns:**an `EndDocument` event**createEntityReference**

```
public abstract EntityReference createEntityReference(java.lang.String name,
EntityDeclaration declaration)
```

Creates a new instance of a `EntityReference` event**Parameters:**`name` -The name of the reference`declaration` -the declaration for the event**Returns:**an `EntityReference` event**createComment**

```
public abstract Comment createComment(java.lang.String text)
```

Create a comment

**Parameters:**`text` -The text of the comment a `Comment` event**createProcessingInstruction**

```
public abstract ProcessingInstruction createProcessingInstruction(java.lang.
String target,
                                                                    java.lang.
String data)
```

Create a processing instruction

**Parameters:**`target` -The target of the processing instruction`data` -The text of the processing instruction**Returns:**a `ProcessingInstruction` event

**createDTD**

```
public abstract DTD createDTD(java.lang.String dtd)
```

Create a document type definition event. This string contains the entire document type declaration that matches the doctype decl in the XML 1.0 specification.

**Parameters:**

`dtd` – the text of the document type definition

**Returns:**

a DTD event

---

[Overview](#) [Package](#) **[Class](#)** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | [CONSTR](#) | [METHOD](#)

DETAIL: FIELD | [CONSTR](#) | [METHOD](#)

---

[Overview](#) [Package](#) **[Class](#)** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

[S](#) [NO FRAMES](#) [All Classes](#)

[FIELD](#) | [CONSTR](#) | [METHOD](#)

21 - Nov - 08

31 - Dec - 08

java.xml.stream

# Interface XMLStreamReader

StAX API dont have any special method to call for parsing..... super design ..since client control the thread

7 methods

## All Superinterfaces:

java.util.Iterator

Before to study this class first finish, XMLEventFactory and its individual Events

## All Known Implementing Classes:

[EventReaderDelegate](#)

if Stream / Event reader dont have handy method to check event types , we can only check by comparing current event type with XMLStreamConstants

public interface **XMLStreamReader**

extends java.util.Iterator

This is the top level interface for parsing XML Events. It provides the ability to peek at the next event and returns configuration information through [the property interface](#).

## Since:

1.6

## Version:

1.0

## Author:

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## See Also:

[XMLInputFactory](#), [XMLEventWriter](#)

## Method Summary

void	<a href="#">close</a> ( ) Frees any resources associated with this Reader.
------	---

java. lang. String	<a href="#">getElementText</a> ( ) Reads the content of a <u>text-only</u> element.	which method can use? it dont have hasText() method as cursorAPI
java. lang. Object	<a href="#">getProperty</a> (java.lang.String name) Get the value of a feature/property from the underlying implementation	Avoid to use this method
boolean	<a href="#">hasNext</a> ( ) Check if there are more events.	these 3 method enough
<a href="#">XMLEvent</a>	<a href="#">nextEvent</a> ( ) Get the next XMLEvent	
<a href="#">XMLEvent</a>	<a href="#">nextTag</a> ( ) Skips any insignificant space events until START_ELEMENT or END_ELEMENT is reached.	it is same as cursor API
<a href="#">XMLEvent</a>	<a href="#">peek</a> ( ) Check the <u>next XMLEvent</u> <u>without reading it from the stream</u> .	Avoid to use this method
<b>Methods inherited from <a href="#">XMLReader</a></b>		
next, remove		

try to avoid this method also  
to avoid confusing coding..

## Method Detail

### nextEvent

[XMLEvent](#) **nextEvent** ( )  
throws [XMLStreamException](#)

Get the next XMLEvent

#### Throws:

[XMLStreamException](#) - if there is an error with the underlying XML.

[NoSuchElementException](#) - iteration has no more elements.

#### See Also:

[XMLEvent](#)

## hasNext

boolean **hasNext**()

Check if there are more events. Returns true if there are more events and false otherwise.

### Specified by:

hasNext in interface `java.util.Iterator`

### Returns:

true if the event reader has more events, false otherwise

## peek

[XMLEvent](#) **peek**()  
throws [XMLStreamException](#)

this is without moving cursor  
get the forth coming event.

Check the next `XMLEvent` without reading it from the stream. Returns null if the stream is at EOF or has no more `XMLEvents`. A call to `peek()` will be equal to the next return of `next()`.

### Throws:

[XMLStreamException](#)

### See Also:

[XMLEvent](#)

## getElementText

java.lang.String **getElementText**()  
throws [XMLStreamException](#)

so, it has to called only a element, it has only TEXT but not any child element.

i dont know, what method i have to check to avoid getting `XMLStreamException`

Reads the content of a text-only element. **Precondition:** the current event is `START_ELEMENT`.

**Postcondition:** The current event is the corresponding `END_ELEMENT`.

### Throws:

[XMLStreamException](#) - if the current event is not a `START_ELEMENT` or if a non text element is encountered

---

## nextTag

Please read my comment in [XMLStreamReader.nextTag\(\)](#) method to understand about this method.

[XMLEvent](#) **nextTag**( )  
throws [XMLStreamException](#)

Skips any insignificant space events until a START\_ELEMENT or END\_ELEMENT is reached. If anything other than space characters are encountered, an exception is thrown. This method should be used when processing element-only content because the parser is not able to recognize ignorable whitespace if the DTD is missing or not interpreted.

### Throws:

[XMLStreamException](#) - if anything other than space characters are encountered

---

## getProperty

java.lang.Object **getProperty**(java.lang.String name)  
throws java.lang.IllegalArgumentException

~~Get the value of a feature/property from the underlying implementation~~

### Parameters:

~~name - The name of the property~~

### Returns:

~~The value of the property~~

### Throws:

java.lang.IllegalArgumentException - if the property is not supported

---

## close

void **close**( )  
throws [XMLStreamException](#)

Frees any resources associated with this Reader. This method does not close the underlying input source.

Don't forget

**Throws:**

XMLStreamException - if there are errors freeing associated resources

---

[Overview](#) [Package](#) **Class** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---



**Overview Package Class Use Tree Deprecated Index Help**

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

22-11-08 | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

31 - Dec -08

9 methods

5 - namespace related  
2 - add xml events  
2 - writer related

javax.xml.stream

## Interface XMLEventWriter

All Superinterfaces:

[XMLEventConsumer](#)

Before to study this class first finish, XMLEventFactory and its individual Events

public

extends [XML](#)

This is the of the XML.

if Stream / Event reader dont have handy method to check event types , we can only check by comparing current event type with XMLStreamConstants

we never worry about type of event. since it is writer....

in 5th round, get clear idea about using namespace, prefix methods by getting sample from Net

documents. Instances of this interface are not required to validate the form

Since:

1.6

Version:

1.0

Author:

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See Also:

[XMLEventReader](#), [XMLEvent](#), [Characters](#), [ProcessingInstruction](#), [StartElement](#), [EndElement](#)

inherit from super interface

## Method Summary

add one by one

void [add](#)([XMLEvent](#) event)

Add an event to the output stream Adding a START\_ELEMENT will open a new namespace scope that will be closed when the corresponding END\_ELEMENT is written.

void [add](#)([XMLEventReader](#) reader)

Adds an entire stream to an output stream, calls next() on the inputStream argument until hasNext() returns false This should be treated as a convenience method that will perform the following loop over all the events in an event reader and call add on each event.

parameter event reader only, but not stream reader

add as bulk

void [close](#)( )

Frees any resources associated with this stream

good for simply copy and paste of XML file

void	<a href="#"><b>flush</b></a> ( )	<del>Writes any cached events to the underlying output mechanism</del>
<a href="#">NamespaceContext</a>	<a href="#"><b>getNamespaceContext</b></a> ( )	<del>Returns the current namespace context.</del>
java.lang.String	<a href="#"><b>getPrefix</b></a> ( java.lang.String uri)	<del>Gets the prefix the uri is bound to</del>
void	<a href="#"><b>setDefaultNamespace</b></a> ( java.lang.String uri)	<del>Binds a URI to the default namespace This URI is bound in the scope of the current START_ELEMENT / END_ELEMENT pair.</del>
void	<a href="#"><b>setNamespaceContext</b></a> ( <a href="#">NamespaceContext</a> context)	<del>Sets the current namespace context for prefix and uri bindings.</del>
void	<a href="#"><b>setPrefix</b></a> ( java.lang.String prefix, java.lang.String uri)	<del>Sets the prefix the uri is bound to.</del>

all of these 5 methods are namespace related..

## Method Detail

### flush

void **flush**( )  
throws [XMLStreamException](#)

~~Writes any cached events to the underlying output mechanism~~

**Throws:**  
[XMLStreamException](#)

### close

void **close**( )  
throws [XMLStreamException](#)

~~Frees any resources associated with this stream~~

**Throws:**  
[XMLStreamException](#)

### add

```
void add(XMLEvent event)
    throws XMLStreamException
```

Add an event to the output stream. Adding a START\_ELEMENT will open a new namespace scope that will be closed when the corresponding END\_ELEMENT is written.

Required and optional fields for events added to the writer			
Event Type	Required Fields	Optional Fields	Required Behavior
START_ELEMENT	<div> <div> so, get prefix from QName and look its uri from namespacecontext object. </div> </div> QName name	namespaces , attributes	<p>A START_ELEMENT will be written by writing the <u>name</u>, <u>namespaces</u>, and <u>attributes</u> of the event in XML 1.0 valid syntax for START_ELEMENTS. The name is written by looking up the prefix for the namespace uri. The writer can be configured to respect prefixes of QNames. <u>If the writer is respecting prefixes it must use the prefix set on the QName. The default behavior is to lookup the value for the prefix on the EventWriter's internal namespace context.</u> Each attribute (if any) is written using the behavior specified in the attribute section of this table. Each namespace (if any) is written using the behavior specified in the namespace section of this table.</p>

END_ELEMENT	Qname name	None	<p>A well formed END_ELEMENT tag is written. The name is written by looking up the prefix for the namespace uri. The writer can be configured to respect prefixes of QNames. If the writer is respecting prefixes it must use the prefix set on the QName. The default behavior is to lookup the value for the prefix on the EventWriter's internal namespace context. If the END_ELEMENT name does not match the START_ELEMENT name an XMLStreamException is thrown.</p>
ATTRIBUTE	QName name , String value	QName type	<p>An attribute is written using the same algorithm to find the lexical form as used in START_ELEMENT. The default is to use <u>double quotes to wrap attribute values and to escape any double quotes found in the value</u>. The type value is ignored.</p>
NAMESPACE	String prefix, String namespaceURI, boolean isDefaultNamespaceDeclaration	None	<p>A namespace declaration is written. If the namespace is a default namespace declaration (isDefault is true) then xmlns="\$namespaceURI" is written and the prefix is optional. If isDefault is false, the prefix must be declared and the writer must prepend xmlns to the prefix and write out a standard prefix declaration.</p>

PROCESSING_INSTRUCTION	None	String target, String data	The data does not need to be present and may be null. Target is required and many not be null. The writer will write data section directly after the target, enclosed in appropriate XML 1.0 syntax
COMMENT	None	String comment	If the comment is present (not null) it is written, otherwise an empty comment is written
START_DOCUMENT	None <div style="border: 1px solid red; padding: 5px; display: inline-block;">wow.. it is optional</div>	String encoding , boolean standalone, String version	A START_DOCUMENT event is <u>not required</u> to be written to the stream. If present the attributes are written inside the appropriate XML declaration syntax
END_DOCUMENT	None	None	Nothing is written to the output
DTD	String DocumentTypeDefinition	None	The DocumentTypeDefinition is written to the output

**Specified by:**

[add](#) in interface [XMLEventConsumer](#)

**Parameters:**

event - the event to be added

**Throws:**

[XMLStreamException](#)

**add**

```
void add(XMLEventReader reader)
    throws XMLStreamException
```

Adds an entire stream to an output stream, calls next() on the inputStream argument until hasNext() returns false. This should be treated as a convenience method that will perform the following loop over all the events in an event reader and call add on each event.

**Parameters:**

~~reader~~ – the event stream to add to the output

**Throws:**

[XMLStreamException](#)

---

**getPrefix**

```
java.lang.String getPrefix(java.lang.String uri)
    throws XMLStreamException
```

Gets the prefix the uri is bound to

**Parameters:**

uri - the uri to look up

**Throws:**

[XMLStreamException](#)

---

**setPrefix**

```
void setPrefix(java.lang.String prefix,
    java.lang.String uri)
    throws XMLStreamException
```

prefix is not added to  
output xml. i tested.

get sample in 5th round

Sets the prefix the uri is bound to. This prefix is bound in the scope of the current START\_ELEMENT / END\_ELEMENT pair. If this method is called before a START\_ELEMENT has been written the prefix is bound in the root scope.

**Parameters:**

prefix - the prefix to bind to the uri

uri - the uri to bind to the prefix

**Throws:**

[XMLStreamException](#)

---

**setDefaultNamespace**

```
void setDefaultNamespace(java.lang.String uri)
    throws XMLStreamException
```

Binds a URI to the default namespace This URI is bound in the scope of the current START\_ELEMENT / END\_ELEMENT pair. If this method is called before a START\_ELEMENT has been written the uri is bound in the root scope.

**Parameters:**

uri - the uri to bind to the default namespace

**Throws:**

[XMLStreamException](#)

**setNamespaceContext**

```
void setNamespaceContext(NamespaceContext context)
    throws XMLStreamException
```

Sets the current namespace context for prefix and uri bindings. This context becomes the root namespace context for writing and will replace the current root namespace context. Subsequent calls to `setPrefix` and `setDefaultNamespace` will bind namespaces using the context passed to the method as the root context for resolving namespaces.

**Parameters:**

context - the namespace context to use for this writer

**Throws:**

[XMLStreamException](#)

**getNamespaceContext**

```
NamespaceContext getNamespaceContext()
```

~~Returns the current namespace context.~~

**Returns:**

~~the current namespace context~~

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

[Overview](#) [Package](#) **[Class](#)** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

15 - Nov - 08

26 - Dec - 08

## Class XMLInputFactory

java.lang.Object

└─ javax.xml.stream.XMLInputFactory

25 methods

2 - instance method  
2 - filtered reader  
7 - overloaded EventReader  
6 - overloaded StreamReader  
8 - getter / setter methods

public abstract class

extends java.lang.Object

Defines an abstract implementation

of this specification. Each property varies in the level of support required by each implementation. The level of support required

this is one of best example, where we have to use Abstract class and Interface to achieve OOPS abstraction.

if we need any origin use Abstract class with static methods or Constructor.

if we need 100 % abstraction use java interface

standard properties

At 5th round, be clear idea about

QName, NamespaceContext. Namespace( it is StAXEvent) these are used in StAX api at some great Extend

### Configuration parameters

Property Name	Behavior	Return type	Default Value	Required
javax.xml.stream.isValidating	Turns on/off implementation specific DTD validation	Boolean	False	No
javax.xml.stream.isNamespaceAware	Turns on/off namespace processing for XML 1.0 support	Boolean	True ✓	True (required) / False (optional)
javax.xml.stream.isReplacingEntityRefs	characters		False	Yes
javax.xml.stream.isSupportingExternalEntities	Resolve external parsed entities	Boolean	Unspecified	Yes

There is NO any parent / child nodes or methods to retrieve / add them as DOM. thats why stax has StartElement and EndElement instead of simply Element

in StAX api, the order of event is the matter. no need to think or worry about hierarchy.

any those logic has to implement in our application only

Turn off this one to improve performance of processor



set to FALSE

javax.xml.stream.supportDTD	Use this property to request processors that do not support DTDs	Boolean	True	Yes
javax.xml.stream.reporter	sets/gets the impl of the XMLReporter	javax.xml.stream.XMLReporter	Null	Yes
javax.xml.stream.resolver	sets/gets the impl of the XMLResolver interface	javax.xml.stream.XMLResolver	Null	Yes
javax.xml.stream allocator	sets/gets the impl of the XMLEventAllocator interface	javax.xml.stream.util.XMLEventAllocator	Null	Yes

**Since:**

1.6

**Version:**

1.0

**Author:**

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**See Also:**

[XMLOutputFactory](#), [XMLEventReader](#), [XMLStreamReader](#), [EventFilter](#), [XMLReporter](#), [XMLResolver](#), [XMLEventAllocator](#)

## Field Summary

static java.lang.String	<a href="#"><u>ALLOCATOR</u></a> The property used to set/get the implementation of the allocator
static java.lang.String	<a href="#"><u>IS_COALESCING</u></a> The property that requires the parser to coalesce adjacent character data sections
static java.lang.String	<a href="#"><u>IS_NAMESPACE_AWARE</u></a> The property used to turn on/off namespace support, this is to support XML 1.0 documents, only the true setting must be supported
static java.lang.String	<a href="#"><u>IS_REPLACING_ENTITY_REFERENCES</u></a> Requires the parser to replace internal entity references with their replacement text and report them as characters
static java.lang.String	<a href="#"><u>IS_SUPPORTING_EXTERNAL_ENTITIES</u></a> The property that requires the parser to resolve external parsed entities
static java.lang.String	<a href="#"><u>IS_VALIDATING</u></a> The property used to turn on/off implementation specific validation

static java. lang.String	<a href="#">REPORTER</a> The property us	All Factory method are start with "new / create" and appended by class name  newSAXParesr() newValidator() newValidatorHandler() newDocumentBuilder() newTransformer() and etc....	ace
static java. lang.String	<a href="#">RESOLVER</a> The property us		
static java. lang.String	<a href="#">SUPPORT_DTD</a> The property th		

## Constructor Summary

protected	<a href="#">XMLInputFactory</a> ( )	source for stream reader can be either one among THREE 1. Source (trax ) 2. InputStream 3. Reader
-----------	-------------------------------------	---

## Method Summary

abstract <a href="#">XMLEventReader</a>	<a href="#">createFilteredReader</a> ( <a href="#">XMLEventReader</a> reader, <a href="#">EventFilter</a> filter) Create a filtered event reader that wraps the filter around the event reader
abstract <a href="#">XMLStreamReader</a>	<a href="#">createFilteredReader</a> ( <a href="#">XMLStreamReader</a> reader, <a href="#">StreamFilter</a> filter) Create a filtered reader that wraps the filter around the reader
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> (java.io.InputStream stream) Create a new XMLEventReader from a java.io.InputStream
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> (java.io.InputStream stream, java. lang.String encoding) Create a new XMLEventReader from a java.io.InputStream
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> (java.io.Reader reader) Create a new XMLEventReader from a reader
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> ( <a href="#">Source</a> source) Create a new XMLEventReader from a JAXP source.
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> (java.lang.String systemId, java.io. <a href="#">InputStream</a> stream) Create a new XMLEventReader from a java.io.InputStream
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> (java.lang.String systemId, java.io. <a href="#">Reader</a> reader) Create a new XMLEventReader from a reader
abstract <a href="#">XMLEventReader</a>	<a href="#">createXMLEventReader</a> ( <a href="#">XMLStreamReader</a> reader) Create a new XMLEventReader from an <a href="#">XMLStreamReader</a> .
abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> (java.io.InputStream stream) Create a new XMLStreamReader from a java.io.InputStream

abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> (java.io.InputStream stream, java.lang.String encoding) Create a new XMLStreamReader from a java.io.InputStream	3 method with inputStream
abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> (java.io.Reader reader) Create a new XMLStreamReader from a reader	
abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> ( <a href="#">Source</a> source) Create a new XMLStreamReader from a JAXP source.	
abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> (java.lang.String systemId, java.io.InputStream stream) Create a new XMLStreamReader from a java.io.InputStream	2 method with Reader
abstract <a href="#">XMLStreamReader</a>	<a href="#">createXMLStreamReader</a> (java.lang.String systemId, java.io.Reader reader) Create a new XMLStreamReader from a java.io.InputStream	
abstract <a href="#">XMLEventAllocator</a>	<a href="#">getEventAllocator</a> () Gets the allocator used by streams created with this factory	
abstract java.lang.Object	<a href="#">getProperty</a> (java.lang.String name) Get the value of a feature/property from the underlying implementation	
abstract <a href="#">XMLReporter</a>	<a href="#">getXMLReporter</a> () The reporter that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.	
abstract <a href="#">XMLResolver</a>	<a href="#">getXMLResolver</a> () The resolver that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.	
abstract boolean	<a href="#">isPropertySupported</a> (java.lang.String name) Query the set of properties that this factory supports.	
static <a href="#">XMLInputFactory</a>	<a href="#">newInstance</a> () Create a new instance of the factory.	
static <a href="#">XMLInputFactory</a>	<a href="#">newInstance</a> (java.lang.String factoryId, java.lang.ClassLoader classLoader) Create a new instance of the factory	
abstract void	<a href="#">setEventAllocator</a> ( <a href="#">XMLEventAllocator</a> allocator) Set a user defined event allocator for events	
abstract void	<a href="#">setProperty</a> (java.lang.String name, java.lang.Object value) Allows the user to set specific feature/property on the underlying implementation.	
abstract void	<a href="#">setXMLReporter</a> ( <a href="#">XMLReporter</a> reporter) The reporter that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.	

use this method as best practice

2 method with Reader

abstract void	<del><a href="#">setXMLResolver(XMLResolver resolver)</a></del>
---------------	---

~~The resolver that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.~~

## Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### IS\_NAMESPACE\_AWARE

public static final java.lang.String **IS\_NAMESPACE\_AWARE**

~~The property used to turn on/off namespace support, this is to support XML 1.0 documents, only the true setting must be supported~~

~~See Also:~~

~~[Constant Field Values](#)~~

### IS\_VALIDATING

public static final java.lang.String **IS\_VALIDATING**

~~The property used to turn on/off implementation specific validation~~

~~See Also:~~

~~[Constant Field Values](#)~~

### IS\_COALESCING

public static final java.lang.String **IS\_COALESCING**

~~The property that requires the parser to coalesce adjacent character data sections~~

~~See Also:~~

~~[Constant Field Values](#)~~

these variable will have just KEY



## **IS\_REPLACING\_ENTITY\_REFERENCES**

```
public static final java.lang.String IS_REPLACING_ENTITY_REFERENCES
```

Requires the parser to replace internal entity references with their replacement text and report them as characters

**See Also:**

[Constant Field Values](#)

---

## **IS\_SUPPORTING\_EXTERNAL\_ENTITIES**

```
public static final java.lang.String IS_SUPPORTING_EXTERNAL_ENTITIES
```

The property that requires the parser to resolve external parsed entities

**See Also:**

[Constant Field Values](#)

---

## **SUPPORT\_DTD**

```
public static final java.lang.String SUPPORT_DTD
```

The property that requires the parser to support DTDs

**See Also:**

[Constant Field Values](#)

---

## **REPORTER**

```
public static final java.lang.String REPORTER
```

The property used to set/get the implementation of the XMLReporter interface

**See Also:**

[Constant Field Values](#)

---

## **RESOLVER**

```
public static final java.lang.String RESOLVER
```

The property used to set/get the implementation of the XMLResolver

**See Also:**

[Constant Field Values](#)

## ALLOCATOR

```
public static final java.lang.String ALLOCATOR
```

The property used to set/get the implementation of the allocator

**See Also:**

[Constant Field Values](#)

## Constructor Detail

### XMLInputFactory

```
protected XMLInputFactory()
```

this is one of best example, where we have to use Abstract class and Interface to achieve OOPS abstraction.

if we need any origin use Abstract class with static methods or Constructor.

if we need 100 % abstraction use java interface

## Method Detail

### newInstance

```
public static XMLInputFactory newInstance()  
throws FactoryConfigurationError
```

for, ERROR, no need to put any try-catch AS for checked exception

Create a new instance of the factory. This static method creates a new factory instance. This method uses the following ordered lookup procedure to determine the XMLInputFactory implementation class to load: Use the javax.xml.stream.XMLInputFactory system property. Use the properties file "lib/stax.properties" in the JRE directory. This configuration file is in standard java.util.Properties format and contains the fully qualified name of the implementation class with the key being the system property defined above. Use the Services API (as detailed in the JAR specification), if available, to determine the classname. The Services API will look for a classname in the file META-INF/services/javax.xml.stream.XMLInputFactory in jars available to the runtime. Platform default XMLInputFactory instance. Once an application has obtained a reference to a XMLInputFactory it can use the factory to configure and obtain stream instances.

**Throws:**

[FactoryConfigurationError](#) - if an instance of this factory cannot be loaded

---

## newInstance

```
public static XMLInputFactory newInstance(java.lang.String factoryId,
                                             java.lang.ClassLoader classLoader)
    throws FactoryConfigurationError
```

Create a new instance of the factory

**Parameters:**

~~factoryId~~ - Name of the factory to find, same as a property name

~~classLoader~~ - classLoader to use

**Returns:**

the factory implementation

**Throws:**

[FactoryConfigurationError](#) - if an instance of this factory cannot be loaded

---

## createXMLStreamReader

```
public abstract XMLStreamReader createXMLStreamReader(java.io.Reader reader)
    throws XMLStreamException
```

Create a new XMLStreamReader from a reader

**Parameters:**

~~reader~~ - the XML data to read from

**Throws:**

[XMLStreamException](#)

---

## createXMLStreamReader

this is not InputSource used in SAX.  
it comes from TrAX

```
public abstract XMLStreamReader createXMLStreamReader(Source source)
    throws XMLStreamException
```

Create a new XMLStreamReader from a JAXP source. This method is optional.

**Parameters:**

~~source~~ - the source to read from

**Throws:**

java.lang.UnsupportedOperationException - if this method is not supported by this

XMLInputFactory  
[XMLStreamException](#)

---

## createXMLStreamReader

```
public abstract XMLStreamReader createXMLStreamReader(java.io.InputStream stream)
                                throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

### Parameters:

~~stream~~ - the InputStream to read from

### Throws:

[XMLStreamException](#)

---

## createXMLStreamReader

```
public abstract XMLStreamReader createXMLStreamReader(java.io.InputStream stream,
                                                    java.lang.String encoding)
                                throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

### Parameters:

~~stream~~ - the InputStream to read from

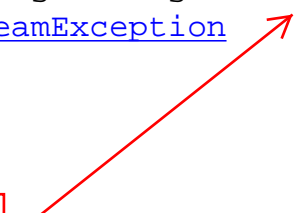
~~encoding~~ - the character encoding of the stream

### Throws:

[XMLStreamException](#)

this encoding  
cannot any  
arbitrary value like  
"" / "UTF - 9".

it can be UTF-8. i  
tested




---

## createXMLStreamReader

```
public abstract XMLStreamReader createXMLStreamReader(java.lang.String systemId,
                                                    java.io.InputStream stream)
                                throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

### Parameters:

systemId - the system ID of the stream



stream - the InputStream to read from

**Throws:**

[XMLStreamException](#)

## createXMLStreamReader

```
public abstract XMLStreamReader createXMLStreamReader(java.lang.String systemId,
                                                    java.io.Reader reader)
                                                    throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

**Parameters:**

systemId - the system ID of the stream

reader - the InputStream to read from

**Throws:**

[XMLStreamException](#)

printing mistake

duplicate

## createXMLEventReader

```
public abstract XMLEventReader createXMLEventReader(java.io.Reader reader)
                                                    throws XMLStreamException
```

Create a new XMLEventReader from a reader

**Parameters:**

reader - the XML data to read from

**Throws:**

[XMLStreamException](#)

## createXMLEventReader

```
public abstract XMLEventReader createXMLEventReader(java.lang.String systemId,
                                                    java.io.Reader reader)
                                                    throws XMLStreamException
```

Create a new XMLEventReader from a reader

**Parameters:**

~~systemId - the system ID of the input~~~~reader - the XML data to read from~~**Throws:**[XMLStreamException](#)**createXMLEventReader**

```
public abstract XMLEventReader createXMLEventReader(XMLStreamReader reader)
                                     throws XMLStreamException
```

Create a new XMLEventReader from an XMLStreamReader. After being used to construct the XMLEventReader instance returned from this method the XMLStreamReader must not be used.

**Parameters:**

reader - the XMLStreamReader to read from (may not be modified)

**Returns:**

a new XMLEventReader

**Throws:**[XMLStreamException](#)**createXMLEventReader**

```
public abstract XMLEventReader createXMLEventReader(Source source)
                                     throws XMLStreamException
```

~~Create a new XMLEventReader from a JAXP source. Support of this method is optional.~~

**Parameters:**

~~source - the source to read from~~

**Throws:**

java.lang.UnsupportedOperationException - if this method is not supported by this  
XMLInputFactory  
[XMLStreamException](#)

**createXMLEventReader**

```
public abstract XMLEventReader createXMLEventReader(java.io.InputStream stream)
                                     throws XMLStreamException
```

Create a new XMLEventReader from a java.io.InputStream

**Parameters:**

stream - the InputStream to read from

**Throws:**

[XMLStreamException](#)

**createXMLStreamReader**

```
public abstract XMLStreamReader createXMLStreamReader(java.io.InputStream stream,
                                                    java.lang.String encoding)
    throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

**Parameters:**

~~stream~~ - the InputStream to read from

~~encoding~~ - the character encoding of the stream

**Throws:**

[XMLStreamException](#)

First String parameter is  
SystemID

Second String parameter is  
Encoding

**createXMLStreamReader**

```
public abstract XMLStreamReader createXMLStreamReader(java.lang.String systemId,
                                                    java.io.InputStream stream)
    throws XMLStreamException
```

Create a new XMLStreamReader from a java.io.InputStream

**Parameters:**

~~systemId~~ - the system ID of the stream

~~stream~~ - the InputStream to read from

**Throws:**

[XMLStreamException](#)

**createFilteredReader**

```
public abstract XMLStreamReader createFilteredReader(XMLStreamReader reader,
                                                    StreamFilter filter)
    throws XMLStreamException
```

Create a filtered reader that wraps the filter around the reader

**Parameters:**

reader – the reader to filter

filter – the filter to apply to the reader

**Throws:**

[XMLStreamException](#)

## createFilteredReader

```
public abstract XMLEventReader createFilteredReader(XMLEventReader reader,
                                                    EventFilter filter)
    throws XMLStreamException
```

Create a filtered event reader that wraps the filter around the event reader

**Parameters:**

reader – the event reader to wrap

filter – the filter to apply to the event reader

**Throws:**

[XMLStreamException](#)

## getXMLResolver

DTD related

```
public abstract XMLResolver getXMLResolver()
```

The resolver that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.

## setXMLResolver

```
public abstract void setXMLResolver(XMLResolver resolver)
```

DTD related

The resolver that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.

**Parameters:**

resolver – the resolver to use to resolve references

## getXMLReporter

```
public abstract XMLReporter getXMLReporter()
```

The reporter that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.

---

## setXMLReporter

```
public abstract void setXMLReporter(XMLReporter reporter)
```

The reporter that will be set on any XMLStreamReader or XMLEventReader created by this factory instance.

### Parameters:

`reporter` - the resolver to use to report non fatal errors

---

## setProperty

```
public abstract void setProperty(java.lang.String name,
                                java.lang.Object value)
                                throws java.lang.IllegalArgumentException
```

no separate method for FEATURE

Allows the user to set specific feature/property on the underlying implementation. The underlying implementation is not required to support every setting of every property in the specification and may use `IllegalArgumentException` to signal that an unsupported property may not be set with the specified value.

### Parameters:

`name` - ~~The name of the property (may not be null)~~

`value` - ~~The value of the property~~

### Throws:

~~`java.lang.IllegalArgumentException` - if the property is not supported~~

---

## getProperty

```
public abstract java.lang.Object getProperty(java.lang.String name)
                                throws java.lang.IllegalArgumentException
```

~~Get the value of a feature/property from the underlying implementation~~

### Parameters:

`name` - ~~The name of the property (may not be null)~~

**Returns:**

The value of the property

**Throws:**

`java.lang.IllegalArgumentException` if the property is not supported

**isPropertySupported**

```
public abstract boolean isPropertySupported(java.lang.String name)
```

Query the set of properties that this factory supports.

**Parameters:**

`name` – The name of the property (may not be null)

**Returns:**

true if the property is supported and false otherwise

**setEventAllocator**

```
public abstract void setEventAllocator(XMLEventAllocator allocator)
```

Set a user defined event allocator for events

**Parameters:**

`allocator` – the user defined allocator

**getEventAllocator**

```
public abstract XMLEventAllocator getEventAllocator()
```

Gets the allocator used by streams created with this factory

[Overview](#) [Package](#) **[Class](#)** [Use Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

## Overview Package Class Use Tree Deprecated Index Help

[PREV CLASS](#) [NEXT CLASS](#)

destination can be either

[FRAMES](#) [NO FRAMES](#) [All Classes](#)
SUMMARY: NESTED | [FIELD](#) | [CONST](#)DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

15 - Nov - 08

1. Writer
2. OutputStream
3. Result ( TrAX )

javax.xml.stream

27 - Dec - 08

### XMLOutputFactory

java.lang.Object

└─ **javax.xml.stream.XMLOutputFactory**

13 methods

- 4 - methods for StreamWriter
- 4 - methods for EventWriter
- 3 - methods for property
- 2 - methods for instance creation

public abstract class **XMLOutputFactory**

extends java.lang.Object

the whole documentaion of this class talks about only namespace repairing

Defines an abstract implementation of a factory for getting `XMLEventWriters` and `XMLStreamWriters`. The following table defines the standard properties of this specification. Each property varies in the level of support required by each implementation. The level of support required is described in the 'Required' column.

Configuration parameters				
Property Name	Behavior	Return type	Default Value	Required
javax.xml.stream.isRepairingNamespaces	defaults prefixes on the output side	Boolean	False	Yes

The following paragraphs describe the namespace and prefix repair algorithm:

The property can be set using the `isRepairingNamespaces` property.

The next one page of this class talks about only Prefix and Namesapce and its property isRepairingNamespaces

javax.xml.stream

This property specifies

whether the default value is false.

If a writer is `isRepairingNamespaces` it will create a namespace declaration on the current `StartElement` for any attribute that does not currently have a namespace declaration in scope. If the `StartElement` has a uri but no prefix specified a prefix will be assigned, if the prefix has not been declared in a parent of the current `StartElement` it will be declared on the current `StartElement`. If the defaultNamespace is bound and in scope and the default namespace matches the URI of the attribute or `StartElement QName` no prefix will be assigned.

If an element or attribute name has a prefix, but is not bound to any namespace URI, then the prefix will be removed during serialization.

If element and/or attribute names in the same start or empty-element tag are bound to different namespace URIs and are using the same prefix then the element or the first occurring attribute retains the original prefix and the following

ok as usual usual

attributes have their prefixes replaced with a new prefix that is bound to the namespace URIs of those attributes.

If an element or attribute name uses a prefix that is bound to a different URI than that inherited from the namespace context of the parent of that element and there is no namespace declaration in the context of the current element then such a namespace declaration is added. ✓

If an element or attribute name is bound to a prefix and there is a namespace declaration that binds that prefix to a different URI then that namespace declaration is either removed if the correct mapping is inherited from the parent context of that element, or changed to the namespace URI of the element or attribute using that prefix.

**Since:**

1.6

**Version:**

1.0

**Author:**

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

**See Also:**

[XMLInputFactory](#), [XMLEventWriter](#), [XMLStreamWriter](#)

## Field Summary

static java. lang.String	<a href="#">IS_REPAIRING_NAMESPACES</a> Property used to set prefix default
-----------------------------	--

All Factory method are start with "new / create" and appended by class name

newSAXParser()  
newValidator()  
newValidatorHandler()  
newDocumentBuilder()  
newTransformer() and etc....

## Constructor Summary

protected	<a href="#">XMLOutputFactory</a> ( )
-----------	--------------------------------------

## Method Summary

	abstract <a href="#">XMLEventWriter</a>	<a href="#">createXMLEventWriter</a> (java.io.OutputStream stream) Create a new XMLEventWriter that writes to a stream
4	abstract <a href="#">XMLEventWriter</a>	<a href="#">createXMLEventWriter</a> (java.io.OutputStream stream, java.lang.String encoding) Create a new XMLEventWriter that writes to a stream
	abstract <a href="#">XMLEventWriter</a>	<a href="#">createXMLEventWriter</a> (Result result) Create a new XMLEventWriter that writes to a JAXP result.
	abstract <a href="#">XMLEventWriter</a>	<a href="#">createXMLEventWriter</a> (java.io.Writer stream) Create a new XMLEventWriter that writes to a writer
	abstract <a href="#">XMLStreamWriter</a>	<a href="#">createXMLStreamWriter</a> (java.io.OutputStream stream) Create a new XMLStreamWriter that writes to a stream



4	abstract <a href="#">XMLStreamWriter</a>	<a href="#">createXMLStreamWriter</a> (java.io.OutputStream stream, java.lang.String encoding) Create a new XMLStreamWriter that writes to a stream
	abstract <a href="#">XMLStreamWriter</a>	<a href="#">createXMLStreamWriter</a> ( <a href="#">Result</a> result) Create a new XMLStreamWriter that writes to a JAXP result.
	abstract <a href="#">XMLStreamWriter</a>	<a href="#">createXMLStreamWriter</a> (java.io.Writer stream) Create a new XMLStreamWriter that writes to a writer
	abstract java.lang. Object	<a href="#">getProperty</a> (java.lang.String name) Get a feature/property on the underlying implementation
	abstract boolean	<a href="#">isPropertySupported</a> (java.lang.String name) Query the set of properties that this factory supports.
	static <a href="#">XMLOutputFactory</a>	<a href="#">newInstance</a> () Create a new instance of the factory.
	static <a href="#">XMLInputFactory</a>	<a href="#">newInstance</a> (java.lang.String factoryId, ClassLoader classLoader) Create a new instance of the factory.
	abstract void	<a href="#">setProperty</a> (java.lang.String name, java.lang.Object value) Allows the user to set specific features/properties on the underlying implementation.

it is bug. it has to return XMLOutputFactory Only

### Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

## Field Detail

### IS\_REPAIRING\_NAMESPACES

```
public static final java.lang.String IS_REPAIRING_NAMESPACES
```

Property used to set prefix defaulting on the output side

See Also:

[Constant Field Values](#)

## Constructor Detail

### XMLOutputFactory

protected **XMLOutputFactory**()

## Method Detail

### newInstance

public static [XMLOutputFactory](#) **newInstance**()  
throws [FactoryConfigurationError](#)

Create a new instance of the factory.

**Throws:**

[FactoryConfigurationError](#) - if an instance of this factory cannot be loaded

### newInstance

public static [XMLInputFactory](#) **newInstance**(java.lang.String factoryId,  
java.lang.ClassLoader classLoader)  
throws [FactoryConfigurationError](#)

Create a new instance of the factory.

**Parameters:**

[factoryId](#) - Name of the factory to find, same as a property name

[classLoader](#) - classLoader to use

**Returns:**

the factory implementation

**Throws:**

[FactoryConfigurationError](#) - if an instance of this factory cannot be loaded

very big bug..

it is not printing  
mistake.  
methods itself like  
that in  
XMLOutputFactory.

### createXMLStreamWriter

public abstract [XMLStreamWriter](#) **createXMLStreamWriter**(java.io.Writer stream)  
throws [XMLStreamException](#)

Create a new XMLStreamWriter that writes to a writer

**Parameters:**

[stream](#) - the writer to write to

**Throws:**

[XMLStreamException](#)

---

**createXMLStreamWriter**

public abstract [XMLStreamWriter](#) **createXMLStreamWriter**(java.io.OutputStream stream)  
throws [XMLStreamException](#)

Create a new XML

i count not able to write this intance . i dont know why ?( commented line )

```
xmlStreamWriter = xmlOutputFactory.createXMLStreamWriter(fileWriter);
//logger.info("stream writer for file Writer "+xmlStreamWriter);
```

**Parameters:**

~~stream~~

ANS: the given implementation has not override toString() method. i  
faced the same problem in 5th round study too. ( 27 - DEC - 08 )

**Throws:**

[XMLStreamException](#)

---

**createXMLStreamWriter**

public abstract [XMLStreamWriter](#) **createXMLStreamWriter**(java.io.OutputStream stream,  
java.lang.String encoding)  
throws [XMLStreamException](#)

Create a new XMLStreamWriter that writes to a stream

**Parameters:**

~~stream~~ - the stream to write to

~~encoding~~ - the encoding to use

**Throws:**

[XMLStreamException](#)

this encoding cannot be  
EMPTY.  
also, it cannot other than  
UTF-8 or UTF-16

---

**createXMLStreamWriter**

public abstract [XMLStreamWriter](#) **createXMLStreamWriter**([Result](#) result)  
throws [XMLStreamException](#)

Create a new XMLStreamWriter that writes to a JAXP result. This method is optional.

**Parameters:**

result - the result to write to

**Throws:**

java.lang.UnsupportedOperationException - if this method is not supported by this  
XMLOutputFactory

current implementation has this  
feature

[XMLStreamException](#)

toString() has done in  
XMLEventWriter but not in  
XMLStreamWriter

**createXMLEventWriter**

```
public abstract XMLEventWriter createXMLEventWriter(Result result)
                                         throws XMLStreamException
```

Create a new XMLEventWriter that writes to a JAXP result This method is optional.

**Parameters:**

`result` - the result to write to

**Throws:**

`java.lang.UnsupportedOperationException` - if this method is not supported by this  
XMLOutputFactory  
[XMLStreamException](#)

**createXMLEventWriter**

```
public abstract XMLEventWriter createXMLEventWriter(java.io.OutputStream stream)
                                         throws XMLStreamException
```

~~Create a new XMLEventWriter that writes to a stream~~

**Parameters:**

~~`stream` - the stream to write to~~

**Throws:**

[XMLStreamException](#)

**createXMLEventWriter**

```
public abstract XMLEventWriter createXMLEventWriter(java.io.OutputStream stream,
                                                         java.lang.String encoding)
                                         throws XMLStreamException
```

~~Create a new XMLEventWriter that writes to a stream~~

**Parameters:**

~~`stream` - the stream to write to~~

~~`encoding` - the encoding to use~~

**Throws:**

[XMLStreamException](#)

---

**createXMLEventWriter**

```
public abstract XMLEventWriter createXMLEventWriter(java.io.Writer stream)
                                     throws XMLStreamException
```

~~Create a new XMLEventWriter that writes to a writer~~

**Parameters:**

~~`stream` - the stream to write to~~

**Throws:**

[XMLStreamException](#)

---

**setProperty**

```
public abstract void setProperty(java.lang.String name,
                                   java.lang.Object value)
                                   throws java.lang.IllegalArgumentException
```

~~Allows the user to set specific features/properties on the underlying implementation.~~

**Parameters:**

~~`name` - The name of the property~~

~~`value` - The value of the property~~

**Throws:**

`java.lang.IllegalArgumentException` - if the property is not supported

---

**getProperty**

```
public abstract java.lang.Object getProperty(java.lang.String name)
                                     throws java.lang.IllegalArgumentException
```

~~Get a feature/property on the underlying implementation~~

**Parameters:**

~~`name` - The name of the property~~

**Returns:**

~~The value of the property~~

**Throws:**

`java.lang.IllegalArgumentException` - if the property is not supported

---

## isPropertySupported

```
public abstract boolean isPropertySupported(java.lang.String name)
```

Query the set of properties that this factory supports.

### Parameters:

name - The name of the property (may not be null)

### Returns:

true if the property is supported and false otherwise

this method would return true. But it does not mean, factory instance has enabled that property

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---

**Overview** **Package** **Class** **Use** **Tree** **Deprecated** **Index** **Help**[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

27 - Dec - 08

javax.xml.stream

**Interface XMLReporter**

Even this can be used for Non-Fatal error like schema validation, we cannot use since Stax dont support Schema validation

So, it is only for DTD.

1 method

public interface **XMLReporter**

This interface is used to report non-fatal errors. Only warnings should be echoed through this interface.

**Since:**

1.6

warning mean, it is related to DTD, i think

**Version:**

1.0

**Author:**

Copyright (c) 2003 by

There is NO any parent / child nodes or methods to retrieve / add them as DOM.

in StAX api, the order of event is the matter. no need to think or worry about hierarchy.

any those logic has to implement in our application only

**Method Summary**

void [report](#)(java.lang.String message, java.lang.String errorType, java.lang.Object relatedInformation, [Location](#) location)

Report the desired message in an application specific format.

**Method Detail****report**

```
void report(java.lang.String message,
            java.lang.String errorType,
            java.lang.Object relatedInformation,
            Location location)
```

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)[PREV CLASS](#) [NEXT CLASS](#)[FRAMES](#) [NO FRAMES](#) [All Classes](#)SUMMARY: NESTED | [FIELD](#) | CONSTR | METHODDETAIL: [FIELD](#) | CONSTR | METHOD

javax.xml.stream

## Interface XMLStreamConstants

### All Known Subinterfaces:

[Attribute](#), [Characters](#), [Comment](#), [DTD](#), [EndDocument](#), [EndElement](#), [EntityDeclaration](#), [EntityReference](#), [Namespace](#), [NotationDeclaration](#), [ProcessingInstruction](#), [StartDocument](#), [StartElement](#), [XMLEvent](#), [XMLStreamReader](#)

### All Known Implementing Classes:

[StreamReaderDelegate](#)

```
public interface XMLStreamConstants
```

This interface declares the constants used in this API. Numbers in the range 0 to 256 are reserved for the specification, user defined events must use event codes outside that range.

### Since:

1.6

## Field Summary

static int	<a href="#">ATTRIBUTE</a> Indicates an event is an attribute
static int	<a href="#">CDATA</a> Indicates an event is a CDATA section
static int	<a href="#">CHARACTERS</a> Indicates an event is characters



static int	<a href="#"><u>COMMENT</u></a> Indicates an event is a comment
static int	<a href="#"><u>DTD</u></a> Indicates an event is a DTD
static int	<a href="#"><u>END_DOCUMENT</u></a> Indicates an event is an end document
static int	<a href="#"><u>END_ELEMENT</u></a> Indicates an event is an end element
static int	<a href="#"><u>ENTITY_DECLARATION</u></a> Indicates a Entity Declaration
static int	<a href="#"><u>ENTITY_REFERENCE</u></a> Indicates an event is an entity reference
static int	<a href="#"><u>NAMESPACE</u></a> Indicates the event is a namespace declaration
static int	<a href="#"><u>NOTATION_DECLARATION</u></a> Indicates a Notation
static int	<a href="#"><u>PROCESSING_INSTRUCTION</u></a> Indicates an event is a processing instruction
static int	<a href="#"><u>SPACE</u></a> The characters are white space (see [XML], 2.10 "White Space Handling").
static int	<a href="#"><u>START_DOCUMENT</u></a> Indicates an event is a start document
static int	<a href="#"><u>START_ELEMENT</u></a> Indicates an event is a start element

## Field Detail

### START\_ELEMENT

static final int **START\_ELEMENT**

Indicates an event is a start element

**See Also:**

[StartElement](#), [Constant Field Values](#)

---

## END\_ELEMENT

```
static final int END_ELEMENT
```

Indicates an event is an end element

**See Also:**

[EndElement](#), [Constant Field Values](#)

---

## PROCESSING\_INSTRUCTION

```
static final int PROCESSING_INSTRUCTION
```

Indicates an event is a processing instruction

**See Also:**

[ProcessingInstruction](#), [Constant Field Values](#)

---

## CHARACTERS

```
static final int CHARACTERS
```

Indicates an event is characters

**See Also:**

[Characters](#), [Constant Field Values](#)

---

## COMMENT

`static final int COMMENT`

Indicates an event is a comment

**See Also:**

[Comment](#), [Constant Field Values](#)

---

## SPACE

`static final int SPACE`

The characters are white space (see [XML], 2.10 "White Space Handling"). Events are only reported as SPACE if they are ignorable white space. Otherwise they are reported as CHARACTERS.

**See Also:**

[Characters](#), [Constant Field Values](#)

---

## START\_DOCUMENT

`static final int START_DOCUMENT`

Indicates an event is a start document

**See Also:**

[StartDocument](#), [Constant Field Values](#)

---

## END\_DOCUMENT

`static final int END_DOCUMENT`

Indicates an event is an end document

**See Also:**

[EndDocument](#), [Constant Field Values](#)

---

## ENTITY\_REFERENCE

static final int **ENTITY\_REFERENCE**

Indicates an event is an entity reference

**See Also:**

[EntityReference](#), [Constant Field Values](#)

---

## ATTRIBUTE

static final int **ATTRIBUTE**

Indicates an event is an attribute

**See Also:**

[Attribute](#), [Constant Field Values](#)

---

## DTD

static final int **DTD**

Indicates an event is a DTD

**See Also:**

[DTD](#), [Constant Field Values](#)

---

## CDATA

`static final int CDATA`

Indicates an event is a CDATA section

**See Also:**

[Characters](#), [Constant Field Values](#)

---

## NAMESPACE

`static final int NAMESPACE`

Indicates the event is a namespace declaration

**See Also:**

[Namespace](#), [Constant Field Values](#)

---

## NOTATION\_DECLARATION

`static final int NOTATION_DECLARATION`

Indicates a Notation

**See Also:**

[NotationDeclaration](#), [Constant Field Values](#)

---

## ENTITY\_DECLARATION

`static final int ENTITY_DECLARATION`

Indicates a Entity Declaration

**See Also:**

[NotationDeclaration](#), [Constant Field Values](#)

---

**[Overview](#)** **[Package](#)** **[Class](#)** **[Use](#)** **[Tree](#)** **[Deprecated](#)** **[Index](#)** **[Help](#)**

**[PREV CLASS](#)** **[NEXT CLASS](#)**

**[FRAMES](#)** **[NO FRAMES](#)** **[All Classes](#)**

SUMMARY: NESTED | [FIELD](#) | CONSTR | METHOD

DETAIL: [FIELD](#) | CONSTR | METHOD

---

we can classify these methods into

**Overview Package Class Use**

[PREV CLASS](#) [NEXT CLASS](#)

SUMMARY: NESTED | FIELD | CONSTR | METHOD

21 - Nov - 08

27 - Dec - 08

javax.xml.stream

## Interface XMLStreamReader

All if Stream / Event reader dont have handy method to check event types , we can only check by comparing current event type with XMLStreamConstants

All known implementing classes:

[StreamReaderDelegate](#)

Every StartElement will have its own NamespaceContext

46 - methods

- 6 - document related methods
- 7 - Element related methods
- 9 - attribute related methods (getter)
- 7 - Character ( comment / CDATA / text ) mtds
- 6 - namespace related methods (getter)
- 7 - reader related methods

ALL Attribute related methods are start with "attribute" word.

StAX API dont have any special method to call for parsing..... super design .. because Clint only has control of thread

public interface XMLStreamReader

extends [XMLStreamConstants](#)

All Characters event related methods will have "Text" word in method

The XMLStreamReader interface allows forward, read-only access to XML. It is an efficient way to read XML data.

The XMLStreamReader is designed to iterate over XML using next() and hasNext() such as getEventType(), getNamespaceURI(), getLocalName() and getText();

The next() method causes the reader to read the next parse event. The next() method returns the event type just read.

The event type can be determined using [getEventType\(\)](#).

### EVENT VALUE

START\_ELEMENT = 1  
END\_ELEMENT = 2

CHARACTERS = 4 ( CDATA / text )

COMMENT = 5

START\_DOCUMENT = 7  
END\_DOCUMENT = 8

ATTRIBUTE = 10

NAMESPACE = 13

Parsing event processing query op

USE Switch - case to evaluate each type of events.

use one case to each eventtype

For XML their associated following current event xml stream getPro are defin

```
// use to evaluate Attribute event related methods
private void attributeMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Element event related methods
private void elementMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Character ( Comment, CDATA, Text ) event related methods
private void characterMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Document event related methods
private void documentMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate GENERAL related methods
private void generalMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate nameSpace event related methods
private void nameSpaceMethods(XMLStreamReader xmlStreamReader) { }
```

The following throw a [java.lang.IllegalStateException](#).

### Valid methods for each state

Event Type	Valid Methods
All States	getProperty(), hasNext(), require(), close(), getNamespaceURI(), isStartElement(), isEndElement(), isCharacters(), isWhiteSpace(), getNamespaceContext(), getEventType(), getLocation(), hasText(), hasName()
START_ELEMENT	next(), getName(), getLocalName(), hasName(), getPrefix(), getAttributeXXX(), isAttributeSpecified(), getNamespaceXXX(), getElementText(), nextTag()
ATTRIBUTE	next(), nextTag(), getAttributeXXX(), isAttributeSpecified(),
NAMESPACE	next(), nextTag(), getNamespaceXXX()
END_ELEMENT	next(), getName(), getLocalName(), hasName(), getPrefix(), getNamespaceXXX(), nextTag()
CHARACTERS	next(), getTextXXX(), nextTag()
CDATA	next(), getTextXXX(), nextTag()
COMMENT	next(), getTextXXX(), nextTag()
SPACE	next(), getTextXXX(), nextTag()
START_DOCUMENT	next(), getEncoding(), getVersion(), isStandalone(), standaloneSet(), getCharacterEncodingScheme(), nextTag()
END_DOCUMENT	close()
PROCESSING_INSTRUCTION	next(), getPITarget(), getPIData(), nextTag()

USE Switch - case to evaluate each type of events.

use one case to each eventtype

```
// use to evaluate Attribute event related methods
private void attributeMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Element event related methods
private void elementMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Character( Comment, CDATA, Text ) event related methods
private void characterMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate Document event related methods
private void documentMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate GENERAL related methods
private void generalMethods(XMLStreamReader xmlStreamReader) { }
// use to evaluate nameSpace event related methods
private void nameSpaceMethods(XMLStreamReader xmlStreamReader) { }
```

## Field Summary

Fields inherited from interface [javax.xml.stream.XMLStreamConstants](#)

[ATTRIBUTE](#), [CDATA](#), [CHARACTERS](#), [COMMENT](#), [DTD](#), [END\\_DOCUMENT](#), [END\\_ELEMENT](#), [ENTITY\\_DECLARATION](#), [ENTITY\\_REFERENCE](#), [NAMESPACE](#), [NOTATION\\_DECLARATION](#), [PROCESSING\\_INSTRUCTION](#), [SPACE](#), [START\\_DOCUMENT](#), [START\\_ELEMENT](#)



## Method Summary

<b>R</b> void	<b><u>close</u></b> ( ) Frees any resources associated with this Reader.	
<b>A</b> int	<b><u>getAttributeCount</u></b> ( ) Returns the count of attributes on this START_ELEMENT, this method is only valid on a START_ELEMENT or ATTRIBUTE.	
java.lang.String <b>A</b>	<b><u>getAttributeLocalName</u></b> (int index) Returns the localName of the attribute at the provided index	ALL of these Attribute related methods are INDEX based only
<b>A</b> <u>QName</u>	<b><u>getAttributeName</u></b> (int index) Returns the qname of the attribute at the provided index	
java.lang.String <b>A</b>	<b><u>getAttributeNamespace</u></b> (int index) Returns the namespace of the attribute at the provided index	
java.lang.String <b>A</b>	<b><u>getAttributePrefix</u></b> (int index) Returns the prefix of this attribute at the provided index	
java.lang.String <b>A</b>	<b><u>getAttributeType</u></b> (int index) Returns the XML type of the attribute at the provided index	
java.lang.String <b>A</b>	<b><u>getAttributeValue</u></b> (int index) Returns the value of the attribute at the index	
java.lang.String <b>VA</b>	<b><u>getAttributeValue</u></b> (java.lang.String namespaceURI, java.lang.String localName) Returns the normalized attribute value of the attribute with the given namespaceURI and localName. If the namespaceURI is null the namespace is not checked for equality.	SUN would have named like <b><u>isCharacterEncodingSchemeSpecified</u></b> ()
java.lang.String <b>D</b>	<b><u>getCharacterEncodingScheme</u></b> ( ) Returns the character encoding declared on the <u>xml declaration</u> . Returns null if none was declared.	
java.lang.String <b>E</b>	<b><u>getElementText</u></b> ( ) Reads the content of a text-only element, an exception is thrown if this is not a text-only element.	so, Mixed content cannot be accessed
java.lang.String <b>D</b>	<b><u>getEncoding</u></b> ( ) Return input encoding if known.	so, dont try to get text of element EXCEPT CHARACTER event. correctaaaaa !!!
<b>R</b> int	<b><u>getEventType</u></b> ( ) Returns an integer code that indicates the type of the event the cursor is pointing to.	
java.lang.String <b>R</b>	<b><u>getLocalName</u></b> ( ) Returns the (local) name of the <u>current event</u> .	
<u>Location</u> <b>R</b>	<b><u>getLocation</u></b> ( ) Return the current location of the processor.	
<b>E</b> <u>QName</u>	<b><u>getName</u></b> ( ) Returns a QName for the current START_ELEMENT or END_ELEMENT event	

<a href="#">NamespaceContext</a> E	<a href="#">getNamespaceContext</a> ( ) Returns a read-only namespace context.	NameSpaceContext and QName are different object not from StAX API
int E	<a href="#">getNamespaceCount</a> ( ) Returns the count of namespaces declared on this START_ELEMENT or END_ELEMENT, this method is only valid on a START_ELEMENT, END_ELEMENT or NAMESPACE.	
java.lang.String E	<a href="#">getNamespacePrefix</a> (int index) Returns the prefix for the namespace declared <u>at the index</u> .	
java.lang.String E	<a href="#">getNamespaceURI</a> ( ) If the current event is a START_ELEMENT or END_ELEMENT this method returns the URI of the prefix or the default namespace.	
java.lang.String E	<a href="#">getNamespaceURI</a> (int index) Returns the uri for the namespace declared at the index.	
java.lang.String E	<a href="#">getNamespaceURI</a> (java.lang.String prefix) Return the uri for the given prefix.	
java.lang.String	<a href="#">getPIData</a> ( ) Get the data section of a processing instruction	
java.lang.String	<a href="#">getPITarget</a> ( ) Get the target of a processing instruction	
java.lang.String E	<a href="#">getPrefix</a> ( ) Returns the prefix of the current event or null if the event does not have a prefix	
java.lang.Object R	<a href="#">getProperty</a> (java.lang.String name) Get the value of a feature/property from the underlying implementation	
java.lang.String C	<a href="#">getText</a> ( ) Returns the current value of the parse event as a string, this returns the string value of a CHARACTERS event, returns the value of a COMMENT, the replacement value for an ENTITY_REFERENCE, the string value of a CDATA section, the string value for a SPACE event, or the String value of the internal subset of the DTD.	
char[] C	<a href="#">getTextCharacters</a> ( ) Returns an array which contains the characters from this event.	
int C	<a href="#">getTextCharacters</a> (int sourceStart, char[] target, int targetStart, int length) Gets the the text associated with a CHARACTERS, SPACE or CDATA event.	
int C	<a href="#">getTextLength</a> ( ) Returns the length of the sequence of characters for this <u>Text event</u> within the text character array.	
int C	<a href="#">getTextStart</a> ( ) Returns the offset into the text character array where the first character (of this <u>text event</u> ) is stored.	
java.lang.String D	<a href="#">getVersion</a> ( ) Get the xml version declared on the xml declaration Returns null if none was declared	

boolean	<u>hasName</u> ( )	returns true if the current event has a name (is a START_ELEMENT or END_ELEMENT) returns false otherwise
boolean	<u>hasNext</u> ( )	Returns true if <del>the current event has a name</del> <span>So, check with hasText() method before TRY to get text of Element (calling getElementText()) for safe from exception</span>
boolean	<u>hasText</u> ( )	Return true if the <u>current event has text</u> , false otherwise The following events have text: CHARACTERS, <del>DTD</del> , ENTITY_REFERENCE, COMMENT, SPACE
boolean	<u>isAttributeSpecified</u> (int index)	Returns a boolean which indicates if this attribute was created by default
boolean	<u>isCharacters</u> ( )	Returns true if the cursor <span>These 4 methods are HANDY methods</span>
boolean	<u>isEndElement</u> ( )	Returns true if the cursor <span>1. isStartElement() 2. isEndElement() 3. isCharacters() 4. isWhiteSpace()</span>
boolean	<u>isStandalone</u> ( )	Get the standalone declar <span>XMLEvent object also has 7 handy methods like this</span>
boolean	<u>isStartElement</u> ( )	Returns true if the cursor <span>otherwise we have to code like this comparing with constant and current type of cursor</span>
boolean	<u>isWhiteSpace</u> ( )	Returns true if the cursor points to a character data event that consists of all whitespace <span>if (XMLStreamConstants.START_DOCUMENT == xmlStreamReader.getEventType()) { }</span>
int	<u>next</u> ( )	Get next parsing event - a processor may return all contiguous character data in a single chunk, or it may split it into several chunks.
int	<u>nextTag</u> ( )	Skips any white space (isWhiteSpace() returns true) until a START_ELEMENT is found. <span>it is same as cursor API</span>
void	<u>require</u> (int type, java.lang.String namespaceURI, java.lang.String localName)	Test if the current event is of the given type and if the namespace and name match the current namespace and name of the current event.
boolean	<u>standaloneSet</u> ( )	Checks if standalone was set in the document <span>we cannot extends. since it is interface. Wrapping is the only way when we want to extend the functionality if a class is out of SCOPE ( third party JAXP jar ).</span>

## Method Detail

### getProperty

look XMLInputFactory javadoc for more properties.

```
java.lang.Object getProperty(java.lang.String name)
    throws java.lang.IllegalArgumentException
```

Get the i can use any arbitrary name as property name. ( i tested ). no exception

**Parameters:**

`name` - The name of the property, may not be null

**Returns:**

The value of the property

**Throws:**

`java.lang.IllegalArgumentException` - if name is null

**next**

```
int next()
    throws XMLStreamException
```

Get next parsing event - a processor may return all contiguous character data in a single chunk, or it may split it into several chunks. If the property `javax.xml.stream.isCoalescing` is set to true element content must be coalesced and only one CHARACTERS event must be returned for contiguous element content or CDATA Sections. By default entity references must be expanded and reported transparently to the application. An exception will be thrown if an entity reference cannot be expanded. If element content is empty (i.e. content is "") then no CHARACTERS event will be reported.

SUPERS

Given the following XML:

```
<foo><!--description-->content text<![CDATA[<greeting>Hello</greeting>]]>other content</foo>
```

The behavior of calling next() when being on foo will be:

- 1- the comment (COMMENT)
- 2- then the characters section (CHARACTERS)
- 3- then the CDATA section (another CHARACTERS)
- 4- then the next characters section (another CHARACTERS)
- 5- then the END\_ELEMENT

**NOTE:** empty element (such as `<tag/>`) will be reported with two separate events: START\_ELEMENT, END\_ELEMENT - This preserves parsing equivalency of empty element to `<tag></tag>`. This method will throw an `IllegalStateException` if it is called after `hasNext()` returns false.

**Returns:**

the integer code corresponding to the current parse event

**Throws:**

`NoSuchElementException` - if this is called when `hasNext()` returns false

[XMLStreamException](#) - if there is an error processing the underlying XML source

**See Also:**

[XMLEvent](#)

**require**

```
void require(int type,
    java.lang.String namespaceURI,
    java.lang.String localName)
```

this method return nothing.  
simply throw exception if not matched any  
of three parameter. i tested.

throws [XMLStreamException](#)

Test if the current event is of the given type and if the namespace and name match the current namespace and name of the current event. If the namespaceURI is null it is not checked for equality, if the localName is null it is not checked for equality.

#### Parameters:

type - the event type

namespaceURI - the uri of the event, may be null

localName - the localName of the event, may be null

#### Throws:

[XMLStreamException](#) - if the required values are not matched.

so no need this method to use

## getElementText

java.lang.String **getElementText**()  
throws [XMLStreamException](#)

if it is start element of Nested elements, it will throws exception

Reads the content of a text-only element, an exception is thrown if this is not a text-only element. Regardless of value of `javax.xml.stream.isCoalescing` this method always returns coalesced content.

Precondition: the current event is `START_ELEMENT`.

Postcondition: the current event is the corresponding `END_ELEMENT`.

The method does the following (implementations are free to optimize but must do equivalent processing):

it can be called only at start element and that element has only TEXT,

So call **hasText()** method before to call this method

```

if (getEventType() != XMLStreamConstants.START_ELEMENT) {
    throw new XMLStreamException("parser must be on START_ELEMENT to read next text", getLocation());
}
int eventType = next();
StringBuffer content = new StringBuffer();
while (eventType != XMLStreamConstants.END_ELEMENT) {
    if (eventType == XMLStreamConstants.CHARACTERS
        || eventType == XMLStreamConstants.CDATA
        || eventType == XMLStreamConstants.SPACE
        || eventType == XMLStreamConstants.ENTITY_REFERENCE) {
        buf.append(getText());
    } else if (eventType == XMLStreamConstants.PROCESSING_INSTRUCTION
        || eventType == XMLStreamConstants.COMMENT) {
        // skipping
    } else if (eventType == XMLStreamConstants.END_DOCUMENT) {
        throw new XMLStreamException(
            "unexpected end of document when reading element text content", this);
    } else if (eventType == XMLStreamConstants.START_ELEMENT) {
        throw new XMLStreamException(
            "element text content may not contain START_ELEMENT", getLocation());
    } else {
        throw new XMLStreamException(
            "Unexpected event type " + eventType, getLocation());
    }
}

```

```

eventType = next();
}
return buf.toString();

```

**Throws:**

[XMLStreamException](#) - if the current event is not a START\_ELEMENT or if a non text element is encountered

**nextTag**

```

int nextTag()
    throws XMLStreamException

```

Skips any white space (isWhiteSpace() returns true), COMMENT, or PROCESSING\_INSTRUCTION, until a START\_ELEMENT or END\_ELEMENT is reached. If other than white space characters, COMMENT, PROCESSING\_INSTRUCTION, START\_ELEMENT, END\_ELEMENT are encountered, an exception is thrown. This method should be used when processing element-only content separated by white space.

Precondition: none

nextTag() method useful if and only if want to move to

1. next sibling's start tag / end tag of its parent **while cursor pointing end tag**
2. next child's start tag **while cursor pointing start tag**

```

<root>(cursor here)[ now cursor move to start of child (<sub>) tag ]
    <sub>text</sub>(cursor here)[ now cursor move to start of sibling <sub> tag ]
    <sub>test</sub>(cursor here)[ now cursor move to end of parent (</root>) tag ]
</root>

```

if we call the nextTag() method while cursor pointing other than these eventType on XMLStreamReader it will throw exception only

\*\*\*\*\* so, Try to avoid as much as possible using this method \*\*\*\*\*

```

}
return eventType;

```

**Returns:**

the event type of the element read (START\_ELEMENT or END\_ELEMENT)

**Throws:**

[XMLStreamException](#) - if the current event is not white space, PROCESSING\_INSTRUCTION, START\_ELEMENT or END\_ELEMENT  
[NoSuchElementException](#) - if this is called when hasNext() returns false

## hasNext

boolean **hasNext**()  
throws [XMLStreamException](#)

Returns true if there are more parsing events and false if there are no more events. This method will return false if the current state of the XMLStreamReader is END\_DOCUMENT

**Returns:**

~~true if there are more events, false otherwise~~

**Throws:**

~~[XMLStreamException](#) - if there is a fatal error detecting the next state~~

## close

void **close**()  
throws [XMLStreamException](#)

Frees any resources **associated** with this Reader. This method **does not close the underlying input source**.

**Throws:**

[XMLStreamException](#) - if there are errors freeing associated resources

## getNamespaceURI

← this 'prefix' parameterized method can be called at any type event

java.lang.String **getNamespaceURI**(java.lang.String prefix)

Return the uri for the given prefix. The uri returned depends on the current state of the processor.

**NOTE:** The 'xml' prefix is bound as defined in [Namespaces in XML](#) specification to "http://www.w3.org/XML/1998/namespace".

**NOTE:** The 'xmlns' prefix must be resolved to following namespace <http://www.w3.org/2000/xmlns/>

**Parameters:**

this method can EVEN be called after XMLStreamReader closed ( i tested )

prefix - The prefix to lookup, may not be null

```
logger.info("uri of prefix xml :: "+xmlStreamReader.getNamespaceURI("xml"));
logger.info("uri of prefix xmlns :: "+xmlStreamReader.getNamespaceURI("xmlns"));
```

java.lang.IllegalArgumentException - if the prefix is null

## isStartElement

boolean **isStartElement()**

Returns true

**Returns:**

true

this is handy method rather than checking like this

```
if(XMLStreamConstants.START_ELEMENT == xmlStreamReader.getEventType()) {
```

**isEndElement**

boolean **isEndElement()**

Returns

**Returns:**

true

this is handy method rather than checking like this

```
if(XMLStreamConstants.END_ELEMENT == xmlStreamReader.getEventType()) {
```

**isCharacters**

boolean **isCharacters()**

Returns true

**Returns:**

true

this is handy method rather than checking like this

```
if(XMLStreamConstants.CHARACTERS == xmlStreamReader.getEventType()) {
```

use this code to avoid remove all whitespace while writing out to file / network

```
if(xmlStreamReader.hasText()) {
    if( ! xmlStreamReader.isWhiteSpace()) {
        logger.info(xmlStreamReader.getText());
    }
}
```

**isWhiteSpace**

boolean **isWhiteSpace()**

Returns true if the cursor points to a character data event that consists of all whitespace

**Returns:**

true if the cursor points to all whitespace, false otherwise

**getAttributeValue**

since, ATTRIBUTE is secondary event, access any attribute related method only after got STATE\_ELEMENT event

java for safety, check attribute count before to access any value

```
if(xmlStreamReader.getAttributeCount() > 0) {
    logger.info("Attribute value :: "+xmlStreamReader.getAttributeValue(null, "name")); }
```

Returns the normalized attribute value of the attribute with the namespace and localName If the namespaceURI is null



the namespace is not checked

### Parameters:

namespaceURI - the namespace URI

localName - the local name

### Returns:

returns the value of the attribute, returns null if not found

### Throws:

java.lang.IllegalStateException - if this is not a START\_ELEMENT or ATTRIBUTE

i tried, to use this method at Attribute Event. but, still i got this  
IllegalStateException. i dont know why ?

But works in START\_ELEMENT event.

Since, Attribute is secondary event. So we have to access attribute when  
cursor event type is START\_ELEMENT

## getAttributeCount

```
int getAttributeCount ( )
```

Returns the count of attributes on the current event. This count excludes namespace definitions. Attribute indices are zero-based.

### Returns:

returns the number of attributes

### Throws:

java.lang.IllegalStateException - if this is not a START\_ELEMENT or ATTRIBUTE

i tried, to use this method at Attribute Event. but, still i got this  
IllegalStateException. i dont know why ?

but works in StartElement event.

Since it is secondary event, **the same behavior apply to  
Iterator API Too**

## getAttributeName

```
QName getAttributeName(int index)
```

Returns the QName of the attribute at the provided index

### Parameters:

this method return non-null if the  
attribute name is prefixed and  
namespace

### Returns:

the QName of the attribute

### Throws:

java.lang.IllegalStateException - if this is not a START\_ELEMENT or ATTRIBUTE

access attribute related methods  
only at START\_ELEMENT. it works  
fine.

Don't try with ATTRIBUTE event,  
since it is secondary event

## getAttributeNamespace

```
java.lang.String getAttributeNamespace(int index)
```

Returns the namespace of the attribute at the provided index

### Parameters:

index - the position of the attribute

**Returns:**

the namespace URI (can be null) *yes*

**Throws:**

`java.lang.IllegalStateException` - if this is not a `START_ELEMENT` or `ATTRIBUTE`

---

**getAttributeLocalName**

`java.lang.String` **getAttributeLocalName**(int index)

Returns the localName of the attribute at the provided index

**Parameters:**

index - the position of the attribute

**Returns:**

the localName of the attribute

**Throws:**

`java.lang.IllegalStateException` - if this is not a `START_ELEMENT` or `ATTRIBUTE`

---

**getAttributePrefix**

`java.lang.String` **getAttributePrefix**(int index)

Returns the prefix of this attribute at the provided index

**Parameters:**

index - the position of the attribute

**Returns:**

the prefix of the attribute

**Throws:**

`java.lang.IllegalStateException` - if this is not a `START_ELEMENT` or `ATTRIBUTE`

---

it return empty if not  
attribute is not associated  
with any prefix

**getAttributeType**

`java.lang.String` **getAttributeType**(int index)

Returns the XML type of the attribute at the provided index

**Parameters:**

index - the position of the attribute

**Returns:**

the XML type of the attribute

**Throws:**

`java.lang.IllegalStateException` - if this is not a `START_ELEMENT` or `ATTRIBUTE`

---

it return type as "CDATA" .

i dont know on what basis it  
return this value as type

---

## getAttributeValue

```
java.lang.String getAttributeValue(int index)
```

~~Returns the value of the attribute at the index~~

**Parameters:**

~~index – the position of the attribute~~

**Returns:**

~~the attribute value~~

**Throws:**

~~java.lang.IllegalStateException – if this is not a START\_ELEMENT or ATTRIBUTE~~

---

since, ATTRIBUTE is secondary event, access any attribute related method only after got STATE\_ELEMENT event

---

## isAttributeSpecified

```
boolean isAttributeSpecified(int index)
```

~~Returns a boolean which indicates if this attribute was created by default~~

**Parameters:**

~~index – the position of the attribute~~

**Returns:**

~~true if this is a default attribute~~

**Throws:**

~~java.lang.IllegalStateException - if this is not a START\_ELEMENT or ATTRIBUTE~~

---

---

## getNamespaceCount

```
int getNamespaceCount( )
```

Returns the count of namespaces declared on this START\_ELEMENT or END\_ELEMENT, this method is only valid on a START\_ELEMENT, END\_ELEMENT or NAMESPACE. On an END\_ELEMENT the count is of the namespaces that are about to go out of scope. This is the equivalent of the information reported by SAX callback for an end element event.

**Returns:**

returns the number of namespace declarations on this specific element

**Throws:**

java.lang.IllegalStateException - if this is not a START\_ELEMENT, END\_ELEMENT or NAMESPACE

---

it retrun only count of CURRENT element, but not previously visited elements

## getNamespacePrefix

java.lang.String **getNamespacePrefix**(int index)

Returns the prefix for the namespace declared at the index. Returns null if this is the default namespace declaration

### Parameters:

index – the position of the namespace declaration

### Returns:

returns the namespace prefix

### Throws:

java.lang.IllegalStateException - if this is not a START\_ELEMENT, END\_ELEMENT or NAMESPACE

check namespacecount > 0 before to access.

```
if(xmlStreamReader.getNamespaceCount() > 0){  
    logger.info(" namesapce prefix "+xmlStreamReader.getNamespacePrefix(0));  
    logger.info(" namesapce prefix "+xmlStreamReader.getNamespacePrefix(1));  
}
```

## getNamespaceURI

java.lang.String **getNamespaceURI**(int index)

Returns the uri for the namespace declared at the index.

### Parameters:

index – the position of the namespace declaration

### Returns:

returns the namespace uri

### Throws:

java.lang.IllegalStateException - if this is not a START\_ELEMENT, END\_ELEMENT or NAMESPACE

for this, no need any total count check

## getNamespaceContext

[NamespaceContext](#) **getNamespaceContext**()

Returns a read only namespace context for the current position. The context is transient and only valid until a call to next() changes the state of the reader.

### Returns:

return a namespace context

only one instance of this object shared the whole life of parsing of SINGLE Document. ( i tested for different element it use the same INSTANCE )

## getEventType

int **getEventType**()

Returns an integer code that indicates the type of the event the cursor is pointing to.

---

## getText

```
java.lang.String getText()
```

Returns the current value of the parse event as a string, this returns the string value of a **CHARACTERS event**, returns the value of a COMMENT, the replacement value for an ENTITY\_REFERENCE, the string value of a CDATA section, the string value for a SPACE event, or the String value of the internal subset of the DTD. If an ENTITY\_REFERENCE has been resolved, any character data will be reported as CHARACTERS events.

**Returns:**

the current text or null

**Throws:**

`java.lang.IllegalStateException` - if this state is not a valid text state.

---

## getTextCharacters

```
char[] getTextCharacters()
```

it can be called only on  
TEXT/CDATA/ COMMENT  
event.

Returns an array which contains the characters from this event. This array should be treated as read-only and transient. I.e. the array will contain the text characters until the XMLStreamReader moves on to the next event. Attempts to hold onto the character array beyond that time or modify the contents of the array are breaches of the contract for this interface.

**Returns:**

the current text or an empty array

**Throws:**

`java.lang.IllegalStateException` - if this state is not a valid text state.

---

## getTextCharacters

```
int getTextCharacters(int sourceStart,  
                      char[] target,  
                      int targetStart,  
                      int length)  
    throws XMLStreamException
```

it can be called only on  
TEXT/CDATA/ COMMENT  
event.

Gets the the text associated with a **CHARACTERS, SPACE or CDATA event**. Text starting a "sourceStart" is copied into "target" starting at "targetStart". Up to "length" characters are copied. The number of characters actually copied is returned. The "sourceStart" argument must be greater or equal to 0 and less than or equal to the number of characters associated with the event. Usually, one requests text starting at a "sourceStart" of 0. If the number of characters actually copied is less than the "length", then there is no more text. Otherwise, subsequent calls need to be made until all text has been retrieved. For example: `int length = 1024; char[] myBuffer = new char[ length ]; for ( int sourceStart = 0 ; ; sourceStart += length ) { int nCopied = stream.`

`getTextCharacters( sourceStart, myBuffer, 0, length ); if (nCopied < length) break; }` `XMLStreamException` may be thrown if there are any XML errors in the underlying source. The "targetStart" argument must be greater than or equal to 0 and less than the length of "target", Length must be greater than 0 and "targetStart + length" must be less than or equal to length of "target".

**Parameters:**

`sourceStart` - the index of the first character in the source array to copy  
`target` - the destination array  
`targetStart` - the start offset in the target array  
`length` - the number of characters to copy

**Returns:**

the number of characters actually copied

**Throws:**

[XMLStreamException](#) - if the underlying XML source is not well-formed  
`java.lang.IndexOutOfBoundsException` - if `targetStart < 0` or `>` than the length of target  
`java.lang.IndexOutOfBoundsException` - if `length < 0` or `targetStart + length >` length of target  
`java.lang.UnsupportedOperationException` - if this method is not supported  
`java.lang.NullPointerException` - is if target is null

**getTextStart**

```
int getTextStart()
```

it can be called only on  
TEXT/CDATA/ COMMENT  
event.

Returns the offset into the text character array where the first character (of this text event) is stored.

**Throws:**

`java.lang.IllegalStateException` - if this state is not a valid text state.

**getTextLength**

```
int getTextLength()
```

it can be called only on  
TEXT/CDATA/ COMMENT  
event.

Returns the length of the sequence of characters for this Text event within the text character array.

**Throws:**

`java.lang.IllegalStateException` - if this state is not a valid text state.

**getEncoding**

```
java.lang.String getEncoding()
```

Return input encoding if known or null if unknown.

**Returns:**

the encoding of this instance or null

**hasText**

check with this method before try to  
get text content of a ELEMENT

boolean **hasText**()

Return true if the current event has text, false otherwise The following events have text: CHARACTERS, DTD-, ENTITY\_REFERENCE, COMMENT, SPACE

**getLocation**

they have overridden toString  
method of Location. it is good

[Location](#) **getLocation**()

Return the current location of the processor. If the Location is unknown the processor should return an implementation of Location that returns -1 for the location and null for the publicId and systemId. The location information is only valid until next() is called.

**getName**

[QName](#) **getName**()

Returns a QName for the current START\_ELEMENT or END\_ELEMENT event

**Returns:**

the QName for the current START\_ELEMENT or END\_ELEMENT event

**Throws:**

java.lang.IllegalStateException - if this is not a START\_ELEMENT or END\_ELEMENT

**getLocalName**

java.lang.String **getLocalName**()

Returns the (local) name of the current event. For START\_ELEMENT or END\_ELEMENT returns the (local) name of the current element. For ENTITY\_REFERENCE it returns entity name. The current event must be START\_ELEMENT or END\_ELEMENT, or ENTITY\_REFERENCE

**Returns:**

the localName

**Throws:**

java.lang.IllegalStateException - if this not a START\_ELEMENT, END\_ELEMENT or

## ENTITY\_REFERENCE

**hasName**

```
boolean hasName()
```

use this method before try to get name of Element. mostly we use this to print in screen

returns true if the current event has a name (is a START\_ELEMENT or END\_ELEMENT) returns false otherwise

**getNamespaceURI**

```
java.lang.String getNamespaceURI()
```

if there is no prefix in element name even it has namespace declration it will return null only

If the current event is a START\_ELEMENT or END\_ELEMENT this method returns the URI of the prefix or the default namespace. Returns null if the event does not have a prefix.

**Returns:**

the URI bound to this elements prefix, the default namespace, or null

**getPrefix**

```
java.lang.String getPrefix()
```

start / end element

Returns the prefix of the current event or null if the event does not have a prefix

**Returns:**

the prefix or null

**getVersion**

```
java.lang.String getVersion()
```

~~Get the xml version declared on the xml declaration Returns null if none was declared~~

**Returns:**

the XML version or null

**isStandalone**

```
boolean isStandalone()
```

this standalone is related to DTD



~~Get the standalone declaration from the xml declaration~~

**Returns:**

~~true if this is standalone, or false otherwise~~

---

## standaloneSet

~~boolean standaloneSet()~~

~~Checks if standalone was set in the document~~

**Returns:**

~~true if standalone was set in the document, or false otherwise~~

---

## getCharacterEncodingScheme

~~java.lang.String getCharacterEncodingScheme()~~

~~Returns the character encoding declared on the xml declaration~~

**Returns:**

~~the encoding declared in the document or null~~

why this method.  
already encoding method is there

simply it return null.

it is for, whether encoding is specified  
on XML document. method name  
has to be changed

---

## getPITarget

~~java.lang.String getPITarget()~~

~~Get the target of a processing instruction~~

**Returns:**

~~the target or null~~

DTD

## getPIData

~~java.lang.String getPIData()~~

~~Get the data section of a processing instruction~~

**Returns:**

~~the data or null~~

DTD

---

**[Overview](#)** **[Package](#)** **[Class](#)** **[Use](#)** **[Tree](#)** **[Deprecated](#)** **[Index](#)** **[Help](#)**

**[PREV CLASS](#)** **[NEXT CLASS](#)**

**[FRAMES](#)** **[NO FRAMES](#)** **[All Classes](#)**

SUMMARY: [NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#)

DETAIL: [FIELD](#) | [CONSTR](#) | [METHOD](#)

---

## Overview Package Class U

PREV CLASS NEXT CLASS

21 - Nov - 08 | CONSTR | METH

28 - Dec - 08

javax.xml.stream

## Interface XMLStreamWriter

we can classify these methods into

1. Element related
2. Attribute related
3. Character related ( Text / CDATA / Comment )
4. Namespace related
5. Document related
6. streamWriter related

28 methods

- 7 - methods for ELEMENT
- 3 - methods for ATTRIBUTE
- 4 - methods for CHARACTER
- 7 - methods for NAMESPACE
- 4 - methods for DOCUMENT
- 3 - Writer related methods

public Every StartElement will have its own  
NamespaceContext

toString() has not been overridden. so  
cannot use instance with SOP or logger

The XMLStreamWriter interface specifies how to write XML. The XMLStreamWriter does not perform well formedness checking on its input. However the writeCharacters method is required to escape & , < and > For attribute values the writeAttribute method will escape the above characters plus " to ensure that all character content and attribute values are well formed. Each NAMESPACE and ATTRIBUTE must be individually written.

XML Namespaces, javax.xml.stream.isRepairingNamespaces and write method behaviour				
Method	isRepairingNamespaces == true		isRepairingNamespaces == false	
	namespaceURI bound	namespaceURI unbound	namespaceURI bound	namespaceURI unbound
writeAttribute (namespaceURI, localName, value)	prefix:localName="value" [1]	xmlns:{generated} ="namespaceURI" {generated}: localName="value"	prefix: localName="value" [1]	XMLStreamException
writeAttribute (prefix, namespaceURI, localName, value)	bound to same prefix: prefix:localName="value" [1]  bound to different prefix: xmlns:{generated} ="namespaceURI" {generated}: localName="value"	xmlns:prefix="namespaceURI" prefix:localName="value" [3]	bound to same prefix: prefix: localName="value" [1][2]  bound to different prefix: XMLStreamException [2]	xmlns: prefix="namespaceURI" prefix: localName="value" [2][5]
writeStartElement (namespaceURI, localName)  writeEmptyElement (namespaceURI, localName)	<prefix:localName> [1]	<{generated}:localName xmlns: {generated} ="namespaceURI">	<prefix:localName> [1]	XMLStreamException
writeStartElement (prefix, localName, namespaceURI)  writeEmptyElement (prefix, localName, namespaceURI)	bound to same prefix: <prefix:localName> [1]  bound to different prefix: <{generated}:localName xmlns: {generated} ="namespaceURI">	<prefix:localName xmlns: prefix="namespaceURI"> [4]	bound to same prefix: <prefix:localName> [1]  bound to different prefix: XMLStreamException	<prefix:localName>

Notes:

- [1] if namespaceURI == default Namespace URI, then no prefix is written
- [2] if prefix == "" || null && namespaceURI == "", then no prefix or Namespace declaration is generated or written
- [3] if prefix == "" || null, then a prefix is randomly generated ✓
- [4] if prefix == "" || null, then it is treated as the default Namespace and no prefix is generated or written, an xmlns declaration is generated and written if the namespaceURI is unbound
- [5] if prefix == "" || null, then it is treated as an invalid attempt to define the default Namespace and an XMLStreamException is thrown

**Since:**

1.6

**Version:**

1.0

**Author:**

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

**See Also:**[XMLOutputFactory](#), [XMLStreamReader](#)**Method Summary**

void	<b>close</b> ()	Close this writer and free any resources associated with the writer.
void	<b>flush</b> ()	Write any cached data to the underlying output mechanism.
<a href="#">NamespaceContext</a>	<b>getNamespaceContext</b> ()	Returns the current namespace context.
java.lang.String	<b>getPrefix</b> (java.lang.String uri)	Gets the prefix the uri is bound to
java.lang.Object	<b>getProperty</b> (java.lang.String name)	Get the value of a feature/property from the underlying implementation
void	<b>setDefaultNamespace</b> (java.lang.String uri)	Binds a URI to the default namespace This URI is bound in the scope of <u>the current</u> START_ELEMENT / END_ELEMENT pair.
void	<b>setNamespaceContext</b> ( <a href="#">NamespaceContext</a> context)	Sets the current namespace context for prefix and uri bindings.
void	<b>setPrefix</b> (java.lang.String prefix, java.lang.String uri)	Sets the prefix the uri is bound to.
void	<b>writeAttribute</b> (java.lang.String localName, java.lang.String value)	Writes an attribute to the output stream <b>without</b> a prefix.
void	<b>writeAttribute</b> (java.lang.String namespaceURI, java.lang.String localName, java.lang.String value)	Writes an attribute to the output stream
void	<b>writeAttribute</b> (java.lang.String prefix, java.lang.String namespaceURI, java.lang.String localName, java.lang.String value)	Writes an attribute to the output stream
void	<b>writeCData</b> (java.lang.String data)	Writes a CData section
void	<b>writeCharacters</b> (char[] text, int start, int len)	Write text to the output
void	<b>writeCharacters</b> (java.lang.String text)	Write text to the output
void	<b>writeComment</b> (java.lang.String data)	Writes an xml comment with the data enclosed
void	<b>writeDefaultNamespace</b> (java.lang.String namespaceURI)	Writes the default namespace to the stream

the prefix for this one will be EMPTY

	void <a href="#">writeDTD</a> (java.lang.String dtd) Write a DTD section.	
E	void <a href="#">writeEmptyElement</a> (java.lang.String localName) Writes an empty element tag to the output	
E	void <a href="#">writeEmptyElement</a> (java.lang.String namespaceURI, java.lang.String localName) Writes an empty element tag to the output	
E	void <a href="#">writeEmptyElement</a> (java.lang.String prefix, java.lang.String localName, java.lang.String namespaceURI) Writes an empty element tag to the output	
D	void <a href="#">writeEndDocument</a> () Closes any start tags and writes corresponding end tags.	
E	void <a href="#">writeEndElement</a> () Writes an end tag to the output relying on the internal state of the writer to determine the prefix and local name of the event.	
	void <a href="#">writeEntityRef</a> (java.lang.String name) Writes an entity reference	
N	void <a href="#">writeNamespace</a> (java.lang.String prefix, java.lang.String namespaceURI) Writes a namespace to the output stream <u>If the prefix argument to this method is the empty string, "xmlns", or null this method will delegate to writeDefaultNamespace</u>	
	void <a href="#">writeProcessingInstruction</a> (java.lang.String target) Writes a processing instruction	
	void <a href="#">writeProcessingInstruction</a> (java.lang.String target, java.lang.String data) Writes a processing instruction	
D	void <a href="#">writeStartDocument</a> () Write the XML Declaration.	<div>there is no way to add standalone ??????</div> <div>leave it param. it is DTD related...</div>
D	void <a href="#">writeStartDocument</a> (java.lang.String version) Write the XML Declaration.	
D	void <a href="#">writeStartDocument</a> (java.lang.String encoding, java.lang.String standalone) Write the XML Declaration.	
E	void <a href="#">writeStartElement</a> (java.lang.String localName) Writes a start tag to the output.	
E	void <a href="#">writeStartElement</a> (java.lang.String namespaceURI, java.lang.String localName) Writes a start tag to the output	
E	void <a href="#">writeStartElement</a> (java.lang.String prefix, java.lang.String localName, java.lang.String namespaceURI) Writes a start tag to the output	

## Method Detail

### writeStartElement

void **writeStartElement**(java.lang.String localName)  
throws [XMLStreamException](#)

Writes a start tag to the output. All writeStartElement methods open a new scope in the internal namespace context. Writing the corresponding EndElement causes the scope to be closed.

#### Parameters:

localName - local name of the tag, may not be null

**Throws:**

[XMLStreamException](#)

## writeStartElement

```
void writeStartElement(java.lang.String namespaceURI,
    java.lang.String localName)
    throws XMLStreamException
```

Writes a start tag to the output

**Parameters:**

namespaceURI - the namespaceURI of the prefix to use, may not be null

localName - local name of the tag, may not be null

**Throws:**

[XMLStreamException](#) - if the namespace URI has not been bound to a prefix and javax.xml.

stream.isRepairingNamespaces has not been set to true

to use this method, on factory  
isRepairingNamespaces property MUST be set to  
TRUE. otherwise exception will be thrown

if we set true, the  
prefix automatically  
generated, if the  
prefix is not found

## writeStartElement

```
void writeStartElement(java.lang.String prefix,
    java.lang.String localName,
    java.lang.String namespaceURI)
    throws XMLStreamException
```

Writes a start tag to the output

**Parameters:**

localName - local name of the tag, may not be null

prefix - the prefix of the tag, may not be null

namespaceURI - the uri to bind the prefix to, may not be null

**Throws:**

[XMLStreamException](#)

we can write xml file without WELL-  
FORMED.

Ex: two tag can be in document  
without having their root tag

By default, StreamWriter NEVER check  
well-formness of xml

calling writeEndElement() on  
StreamWriter for every  
startElement() is not mandatory.  
( i tested)

## writeEmptyElement

```
void writeEmptyElement(java.lang.String namespaceURI,
    java.lang.String localName)
    throws XMLStreamException
```

Writes an empty element tag to the output

**Parameters:**

namespaceURI - the uri to bind the tag to, may not be null

localName - local name of the tag, may not be null

**Throws:**

[XMLStreamException](#) - if the namespace URI has not been bound to a prefix and javax.xml.

stream.isRepairingNamespaces has not been set to true

## writeEmptyElement

```
void writeEmptyElement(java.lang.String prefix,
                       java.lang.String localName,
                       java.lang.String namespaceURI)
    throws XMLStreamException
```

Writes an empty element tag to the output

### Parameters:

prefix –the prefix of the tag, may not be null

localName –local name of the tag, may not be null

namespaceURI –the uri to bind the tag to, may not be null

### Throws:

[XMLStreamException](#)

---

## writeEmptyElement

```
void writeEmptyElement(java.lang.String localName)
    throws XMLStreamException
```

Writes an empty element tag to the output

### Parameters:

localName –local name of the tag, may not be null

### Throws:

[XMLStreamException](#)

---

## writeEndElement

```
void writeEndElement()
    throws XMLStreamException
```

Writes an end tag to the output relying on the internal state of the writer to determine the prefix and local name of the event.

### Throws:

[XMLStreamException](#)

---

## writeEndDocument

```
void writeEndDocument()
    throws XMLStreamException
```

Closes any start tags and writes corresponding end tags.

### Throws:

[XMLStreamException](#)

---

it is not mandatory to call this method, since StAX not check well formness of xml  
i tested  
StartDocument is also not mandatory

## close

```
void close()
    throws XMLStreamException
```

Close this writer and free any resources associated with the writer. This must not close the underlying output stream.

**Throws:**

[XMLStreamException](#)

if we want to add any think can add after this xml file . yes i tested

## flush

```
void flush()
    throws XMLStreamException
```

Write any cached data to the underlying output mechanism.

**Throws:**

[XMLStreamException](#)

if any one of close() or flush() method does not called, xml will not send to underlying output stream

## writeAttribute

```
void writeAttribute(java.lang.String localName,
    java.lang.String value)
    throws XMLStreamException
```

Writes an attribute to the output stream without a prefix.

**Parameters:**

localName - the local name of the attribute  
value - the value of the attribute

**Throws:**

java.lang.IllegalStateException - if the current state does not allow Attribute writing  
[XMLStreamException](#)

to add attribute to empty tag, just call next "writeAttribute" method. since there is not special endElement call for empty tag

these method, dont throw exception only if Most Recent event is StartElement / emptyElement

## writeAttribute

```
void writeAttribute(java.lang.String prefix,
    java.lang.String namespaceURI,
    java.lang.String localName,
    java.lang.String value)
    throws XMLStreamException
```

Writes an attribute to the output stream

**Parameters:**

prefix - the prefix for this attribute  
namespaceURI - the uri of the prefix for this attribute  
localName - the local name of the attribute  
value - the value of the attribute

**Throws:**



`java.lang.IllegalStateException` - if the current state does not allow Attribute writing  
[XMLStreamException](#) - if the namespace URI has not been bound to a prefix and `javax.xml`.  
`stream.isRepairingNamespaces` has not been set to true

---

## writeAttribute

```
void writeAttribute(java.lang.String namespaceURI,
                   java.lang.String localName,
                   java.lang.String value)
    throws XMLStreamException
```

Writes an attribute to the output stream

### Parameters:

`namespaceURI` - the uri of the prefix for this attribute  
`localName` - the local name of the attribute  
`value` - the value of the attribute

### Throws:

`java.lang.IllegalStateException` - if the current state does not allow Attribute writing  
[XMLStreamException](#) - if the namespace URI has not been bound to a prefix and `javax.xml`.  
`stream.isRepairingNamespaces` has not been set to true

---

## writeNamespace

```
void writeNamespace(java.lang.String prefix,
                   java.lang.String namespaceURI)
    throws XMLStreamException
```

must be called after START Element only

Writes a namespace to the output stream If the prefix argument to this method is the empty string, "xmlns", or null this method will delegate to `writeDefaultNamespace`

### Parameters:

`prefix` - the prefix to bind this namespace to  
`namespaceURI` - the uri to bind the prefix to

### Throws:

`java.lang.IllegalStateException` - if the current state does not allow Namespace writing  
[XMLStreamException](#)

---

## writeDefaultNamespace

```
void writeDefaultNamespace(java.lang.String namespaceURI)
    throws XMLStreamException
```

Writes the default namespace to the stream

### Parameters:

`namespaceURI` - the uri to bind the default namespace to

### Throws:

`java.lang.IllegalStateException` - if the current state does not allow Namespace writing  
[XMLStreamException](#)

it WONT assign any prefix to this namespace uri.

even TWO namespace can have default namespace ( i.e ) white space ( i tested ) in same tag

---

## writeComment

```
void writeComment(java.lang.String data)  
    throws XMLStreamException
```

Writes an xml comment with the data enclosed

### Parameters:

`data` –the data contained in the comment, may be null

### Throws:

[XMLStreamException](#)

---

## writeProcessingInstruction

```
void writeProcessingInstruction(java.lang.String target)  
    throws XMLStreamException
```

Writes a processing instruction

### Parameters:

`target` –the target of the processing instruction, may not be null

### Throws:

[XMLStreamException](#)

---

## writeProcessingInstruction

```
void writeProcessingInstruction(java.lang.String target,  
    java.lang.String data)  
    throws XMLStreamException
```

Writes a processing instruction

### Parameters:

`target` –the target of the processing instruction, may not be null

`data` –the data contained in the processing instruction, may not be null

### Throws:

[XMLStreamException](#)

---

## writeCDATA

```
void writeCDATA(java.lang.String data)  
    throws XMLStreamException
```

Writes a CDATA section

### Parameters:

`data` –the data contained in the CDATA Section, may not be null

### Throws:

[XMLStreamException](#)

---

## writeDTD

```
void writeDTD(java.lang.String dtd)
    throws XMLStreamException
```

Write a DTD section. This string represents the entire doctype decl production from the XML 1.0 specification.

**Parameters:**

`dtd` - the DTD to be written

**Throws:**

[XMLStreamException](#)

---

## writeEntityRef

```
void writeEntityRef(java.lang.String name)
    throws XMLStreamException
```

Writes an entity reference

**Parameters:**

`name` - the name of the entity

**Throws:**

[XMLStreamException](#)

---

## writeStartDocument

```
void writeStartDocument()
    throws XMLStreamException
```

Write the XML Declaration. Defaults the XML version to 1.0, and the encoding to utf-8

**Throws:**

[XMLStreamException](#)

---

it is not mandatory to call this method, since StAX not check well formness of xml  
i tested

## writeStartDocument

```
void writeStartDocument(java.lang.String version)
    throws XMLStreamException
```

Write the XML Declaration. Defaults the XML version to 1.0

**Parameters:**

`version` - version of the xml document

**Throws:**

[XMLStreamException](#)

---

i can give any arbitrary version like 5.0 ( i tested )

## writeStartDocument

i could not run.  
i am getting exceptiton.  
fix atleast at 5th round (27 - Dec - 08 )

```
void writeStartDocument(java.lang.String encoding,
                        java.lang.String version)
                        throws XMLStreamException
```

Write the XML Declaration. Note that the encoding parameter does not set the actual encoding of the underlying output. That must be set when the instance of the XMLStreamWriter is created using the XMLOutputFactory

**Parameters:**

encoding - encoding of the xml declaration  
version - version of the xml document

**Throws:**

[XMLStreamException](#) - If given encoding does not match encoding of the underlying stream

## writeCharacters

```
void writeCharacters(java.lang.String text)
                    throws XMLStreamException
```

Write text to the output

**Parameters:**

text - the value to write

**Throws:**

[XMLStreamException](#)

## writeCharacters

```
void writeCharacters(char[] text,
                    int start,
                    int len)
                    throws XMLStreamException
```

Write text to the output

**Parameters:**

text - the value to write  
start - the starting position in the array  
len - the number of characters to write

**Throws:**

[XMLStreamException](#)

## getPrefix

```
java.lang.String getPrefix(java.lang.String uri)
                    throws XMLStreamException
```

Gets the prefix the uri is bound to

**Returns:**

the prefix or null

**Throws:**[XMLStreamException](#)

---

**setPrefix**

```
void setPrefix(java.lang.String prefix,
               java.lang.String uri)
               throws XMLStreamException
```

Sets the prefix the uri is bound to. This prefix is bound in the scope of the current START\_ELEMENT / END\_ELEMENT pair. If this method is called before a START\_ELEMENT has been written the prefix is bound in the root scope.

**Parameters:**

prefix - the prefix to bind to the uri, may not be null

uri - the uri to bind to the prefix, may be null

**Throws:**[XMLStreamException](#)

---

**setDefaultNamespace**

```
void setDefaultNamespace(java.lang.String uri)
                          throws XMLStreamException
```

Binds a URI to the default namespace This URI is bound in the scope of the current START\_ELEMENT / END\_ELEMENT pair. If this method is called before a START\_ELEMENT has been written the uri is bound in the root scope.

**Parameters:**

uri - the uri to bind to the default namespace, may be null

**Throws:**[XMLStreamException](#)

what is difference bwn  
writeDefaultNamespace() and  
setDefaultNamespace() ???

---

**setNamespaceContext**

```
void setNamespaceContext(NamespaceContext context)
                          throws XMLStreamException
```

Sets the current namespace context for prefix and uri bindings. This context becomes the root namespace context for writing and will replace the current root namespace context. Subsequent calls to setPrefix and setDefaultNamespace will bind namespaces using the context passed to the method as the root context for resolving namespaces. This method may only be called once at the start of the document. It does not cause the namespaces to be declared. If a namespace URI to prefix mapping is found in the namespace context it is treated as declared and the prefix may be used by the StreamWriter.

**Parameters:**

context - the namespace context to use for this writer, may not be null

**Throws:**[XMLStreamException](#)

i dont think, i will have work with this  
namespace context object ..

---

**getNamespaceContext**

[NamespaceContext](#) **getNamespaceContext** ( )

Returns the current namespace context.



**Returns:**  
the current NamespaceContext

---

## getProperty

```
java.lang.Object getProperty(java.lang.String name)  
                throws java.lang.IllegalArgumentException
```

Get the value of a feature/property from the underlying implementation



**Parameters:**  
name - The name of the property, may not be null

**Returns:**  
The value of the property

**Throws:**  
java.lang.IllegalArgumentException - if the property is not supported  
java.lang.NullPointerException - if the name is null

---

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[PREV CLASS](#) [NEXT CLASS](#)

[FRAMES](#) [NO FRAMES](#) [All Classes](#)

SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)

DETAIL: FIELD | CONSTR | [METHOD](#)

[Overview](#) [Package](#) **[Class](#)** [Use](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)
[PREV CLASS](#) [NEXT CLASS](#)
[FRAMES](#) [NO FRAMES](#) [All Classes](#)
SUMMARY: NESTED | FIELD | CONSTR | [METHOD](#)DETAIL: FIELD | CONSTR | [METHOD](#)

21 - Nov - 08

27 - Dec - 08

1 method

java.xml.stream

# Interface StreamFilter

```
public interface StreamFilter
```

This interface declares a simple filter interface that one can create to filter XMLStreamReaders

**Since:**

1.6

**Version:**

1.0

**Author:**

Copyright (c) 2003 by BEA Systems. All Rights Reserved.

so, filter not for writers

## Method Summary

boolean	<a href="#">accept</a> ( <a href="#">XMLStreamReader</a> reader)
---------	--

Tests whether the current state is part of this stream.

## Method Detail

This is super filter when compare with LS / node Filter.

yes. by this single method we can filter any TYPE of node, not just single type of node by whatToShow

### accept

```
boolean accept(XMLStreamReader reader)
```

Tests whether the current state is part of this stream. This method will return true if this filter accepts this event and false otherwise. The method should not change the state of the reader when accepting a state.