| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/EventSetDescriptor.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/beans/EventHandler.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/ExceptionListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/EventSetDescriptor.html)    [**NO FRAMES**](http://docs.google.com/EventSetDescriptor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#35nkun2) |

## **java.beans**

Class EventSetDescriptor

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.beans.FeatureDescriptor](http://docs.google.com/java/beans/FeatureDescriptor.html)  
 **java.beans.EventSetDescriptor**

public class **EventSetDescriptor**extends [FeatureDescriptor](http://docs.google.com/java/beans/FeatureDescriptor.html)

An EventSetDescriptor describes a group of events that a given Java bean fires.

The given group of events are all delivered as method calls on a single event listener interface, and an event listener object can be registered via a call on a registration method supplied by the event source.

| **Constructor Summary** | |
| --- | --- |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.Class,%20java.lang.String,%20java.lang.Class,%20java.lang.String))([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass, [String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [String](http://docs.google.com/java/lang/String.html) listenerMethodName)            Creates an EventSetDescriptor assuming that you are following the most simple standard design pattern where a named event "fred" is (1) delivered as a call on the single method of interface FredListener, (2) has a single argument of type FredEvent, and (3) where the FredListener may be registered with a call on an addFredListener method of the source component and removed with a call on a removeFredListener method. |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.Class,%20java.lang.String,%20java.lang.Class,%20java.lang.String%5B%5D,%20java.lang.String,%20java.lang.String))([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass, [String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [String](http://docs.google.com/java/lang/String.html)[] listenerMethodNames, [String](http://docs.google.com/java/lang/String.html) addListenerMethodName, [String](http://docs.google.com/java/lang/String.html) removeListenerMethodName)            Creates an EventSetDescriptor from scratch using string names. |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.Class,%20java.lang.String,%20java.lang.Class,%20java.lang.String%5B%5D,%20java.lang.String,%20java.lang.String,%20java.lang.String))([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass, [String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [String](http://docs.google.com/java/lang/String.html)[] listenerMethodNames, [String](http://docs.google.com/java/lang/String.html) addListenerMethodName, [String](http://docs.google.com/java/lang/String.html) removeListenerMethodName, [String](http://docs.google.com/java/lang/String.html) getListenerMethodName)            This constructor creates an EventSetDescriptor from scratch using string names. |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.String,%20java.lang.Class,%20java.lang.reflect.Method%5B%5D,%20java.lang.reflect.Method,%20java.lang.reflect.Method))([String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [Method](http://docs.google.com/java/lang/reflect/Method.html)[] listenerMethods, [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod)            Creates an EventSetDescriptor from scratch using java.lang.reflect.Method and java.lang.Class objects. |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.String,%20java.lang.Class,%20java.lang.reflect.Method%5B%5D,%20java.lang.reflect.Method,%20java.lang.reflect.Method,%20java.lang.reflect.Method))([String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [Method](http://docs.google.com/java/lang/reflect/Method.html)[] listenerMethods, [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) getListenerMethod)            This constructor creates an EventSetDescriptor from scratch using java.lang.reflect.Method and java.lang.Class objects. |
| [**EventSetDescriptor**](http://docs.google.com/java/beans/EventSetDescriptor.html#EventSetDescriptor(java.lang.String,%20java.lang.Class,%20java.beans.MethodDescriptor%5B%5D,%20java.lang.reflect.Method,%20java.lang.reflect.Method))([String](http://docs.google.com/java/lang/String.html) eventSetName, [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType, [MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] listenerMethodDescriptors, [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod, [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod)            Creates an EventSetDescriptor from scratch using java.lang.reflect.MethodDescriptor and java.lang.Class objects. |

| **Method Summary** | |
| --- | --- |
| [Method](http://docs.google.com/java/lang/reflect/Method.html) | [**getAddListenerMethod**](http://docs.google.com/java/beans/EventSetDescriptor.html#getAddListenerMethod())()            Gets the method used to add event listeners. |
| [Method](http://docs.google.com/java/lang/reflect/Method.html) | [**getGetListenerMethod**](http://docs.google.com/java/beans/EventSetDescriptor.html#getGetListenerMethod())()            Gets the method used to access the registered event listeners. |
| [MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] | [**getListenerMethodDescriptors**](http://docs.google.com/java/beans/EventSetDescriptor.html#getListenerMethodDescriptors())()            Gets the MethodDescriptors of the target listener interface. |
| [Method](http://docs.google.com/java/lang/reflect/Method.html)[] | [**getListenerMethods**](http://docs.google.com/java/beans/EventSetDescriptor.html#getListenerMethods())()            Gets the methods of the target listener interface. |
| [Class](http://docs.google.com/java/lang/Class.html)<?> | [**getListenerType**](http://docs.google.com/java/beans/EventSetDescriptor.html#getListenerType())()            Gets the Class object for the target interface. |
| [Method](http://docs.google.com/java/lang/reflect/Method.html) | [**getRemoveListenerMethod**](http://docs.google.com/java/beans/EventSetDescriptor.html#getRemoveListenerMethod())()            Gets the method used to remove event listeners. |
| boolean | [**isInDefaultEventSet**](http://docs.google.com/java/beans/EventSetDescriptor.html#isInDefaultEventSet())()            Reports if an event set is in the "default" set. |
| boolean | [**isUnicast**](http://docs.google.com/java/beans/EventSetDescriptor.html#isUnicast())()            Normally event sources are multicast. |
| void | [**setInDefaultEventSet**](http://docs.google.com/java/beans/EventSetDescriptor.html#setInDefaultEventSet(boolean))(boolean inDefaultEventSet)            Marks an event set as being in the "default" set (or not). |
| void | [**setUnicast**](http://docs.google.com/java/beans/EventSetDescriptor.html#setUnicast(boolean))(boolean unicast)            Mark an event set as unicast (or not). |

| **Methods inherited from class java.beans.**[**FeatureDescriptor**](http://docs.google.com/java/beans/FeatureDescriptor.html) |
| --- |
| [attributeNames](http://docs.google.com/java/beans/FeatureDescriptor.html#attributeNames()), [getDisplayName](http://docs.google.com/java/beans/FeatureDescriptor.html#getDisplayName()), [getName](http://docs.google.com/java/beans/FeatureDescriptor.html#getName()), [getShortDescription](http://docs.google.com/java/beans/FeatureDescriptor.html#getShortDescription()), [getValue](http://docs.google.com/java/beans/FeatureDescriptor.html#getValue(java.lang.String)), [isExpert](http://docs.google.com/java/beans/FeatureDescriptor.html#isExpert()), [isHidden](http://docs.google.com/java/beans/FeatureDescriptor.html#isHidden()), [isPreferred](http://docs.google.com/java/beans/FeatureDescriptor.html#isPreferred()), [setDisplayName](http://docs.google.com/java/beans/FeatureDescriptor.html#setDisplayName(java.lang.String)), [setExpert](http://docs.google.com/java/beans/FeatureDescriptor.html#setExpert(boolean)), [setHidden](http://docs.google.com/java/beans/FeatureDescriptor.html#setHidden(boolean)), [setName](http://docs.google.com/java/beans/FeatureDescriptor.html#setName(java.lang.String)), [setPreferred](http://docs.google.com/java/beans/FeatureDescriptor.html#setPreferred(boolean)), [setShortDescription](http://docs.google.com/java/beans/FeatureDescriptor.html#setShortDescription(java.lang.String)), [setValue](http://docs.google.com/java/beans/FeatureDescriptor.html#setValue(java.lang.String,%20java.lang.Object)) |

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

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

### EventSetDescriptor

public **EventSetDescriptor**([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass,  
 [String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [String](http://docs.google.com/java/lang/String.html) listenerMethodName)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Creates an EventSetDescriptor assuming that you are following the most simple standard design pattern where a named event "fred" is (1) delivered as a call on the single method of interface FredListener, (2) has a single argument of type FredEvent, and (3) where the FredListener may be registered with a call on an addFredListener method of the source component and removed with a call on a removeFredListener method.

**Parameters:**sourceClass - The class firing the event.eventSetName - The programmatic name of the event. E.g. "fred". Note that this should normally start with a lower-case character.listenerType - The target interface that events will get delivered to.listenerMethodName - The method that will get called when the event gets delivered to its target listener interface. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

### EventSetDescriptor

public **EventSetDescriptor**([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass,  
 [String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [String](http://docs.google.com/java/lang/String.html)[] listenerMethodNames,  
 [String](http://docs.google.com/java/lang/String.html) addListenerMethodName,  
 [String](http://docs.google.com/java/lang/String.html) removeListenerMethodName)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Creates an EventSetDescriptor from scratch using string names.

**Parameters:**sourceClass - The class firing the event.eventSetName - The programmatic name of the event set. Note that this should normally start with a lower-case character.listenerType - The Class of the target interface that events will get delivered to.listenerMethodNames - The names of the methods that will get called when the event gets delivered to its target listener interface.addListenerMethodName - The name of the method on the event source that can be used to register an event listener object.removeListenerMethodName - The name of the method on the event source that can be used to de-register an event listener object. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

### EventSetDescriptor

public **EventSetDescriptor**([Class](http://docs.google.com/java/lang/Class.html)<?> sourceClass,  
 [String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [String](http://docs.google.com/java/lang/String.html)[] listenerMethodNames,  
 [String](http://docs.google.com/java/lang/String.html) addListenerMethodName,  
 [String](http://docs.google.com/java/lang/String.html) removeListenerMethodName,  
 [String](http://docs.google.com/java/lang/String.html) getListenerMethodName)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

This constructor creates an EventSetDescriptor from scratch using string names.

**Parameters:**sourceClass - The class firing the event.eventSetName - The programmatic name of the event set. Note that this should normally start with a lower-case character.listenerType - The Class of the target interface that events will get delivered to.listenerMethodNames - The names of the methods that will get called when the event gets delivered to its target listener interface.addListenerMethodName - The name of the method on the event source that can be used to register an event listener object.removeListenerMethodName - The name of the method on the event source that can be used to de-register an event listener object.getListenerMethodName - The method on the event source that can be used to access the array of event listener objects. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.**Since:** 1.4

### EventSetDescriptor

public **EventSetDescriptor**([String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html)[] listenerMethods,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Creates an EventSetDescriptor from scratch using java.lang.reflect.Method and java.lang.Class objects.

**Parameters:**eventSetName - The programmatic name of the event set.listenerType - The Class for the listener interface.listenerMethods - An array of Method objects describing each of the event handling methods in the target listener.addListenerMethod - The method on the event source that can be used to register an event listener object.removeListenerMethod - The method on the event source that can be used to de-register an event listener object. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

### EventSetDescriptor

public **EventSetDescriptor**([String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html)[] listenerMethods,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) getListenerMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

This constructor creates an EventSetDescriptor from scratch using java.lang.reflect.Method and java.lang.Class objects.

**Parameters:**eventSetName - The programmatic name of the event set.listenerType - The Class for the listener interface.listenerMethods - An array of Method objects describing each of the event handling methods in the target listener.addListenerMethod - The method on the event source that can be used to register an event listener object.removeListenerMethod - The method on the event source that can be used to de-register an event listener object.getListenerMethod - The method on the event source that can be used to access the array of event listener objects. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.**Since:** 1.4

### EventSetDescriptor

public **EventSetDescriptor**([String](http://docs.google.com/java/lang/String.html) eventSetName,  
 [Class](http://docs.google.com/java/lang/Class.html)<?> listenerType,  
 [MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] listenerMethodDescriptors,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) addListenerMethod,  
 [Method](http://docs.google.com/java/lang/reflect/Method.html) removeListenerMethod)  
 throws [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html)

Creates an EventSetDescriptor from scratch using java.lang.reflect.MethodDescriptor and java.lang.Class objects.

**Parameters:**eventSetName - The programmatic name of the event set.listenerType - The Class for the listener interface.listenerMethodDescriptors - An array of MethodDescriptor objects describing each of the event handling methods in the target listener.addListenerMethod - The method on the event source that can be used to register an event listener object.removeListenerMethod - The method on the event source that can be used to de-register an event listener object. **Throws:** [IntrospectionException](http://docs.google.com/java/beans/IntrospectionException.html) - if an exception occurs during introspection.

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

### getListenerType

public [Class](http://docs.google.com/java/lang/Class.html)<?> **getListenerType**()

Gets the Class object for the target interface.

**Returns:**The Class object for the target interface that will get invoked when the event is fired.

### getListenerMethods

public [Method](http://docs.google.com/java/lang/reflect/Method.html)[] **getListenerMethods**()

Gets the methods of the target listener interface.

**Returns:**An array of Method objects for the target methods within the target listener interface that will get called when events are fired.

### getListenerMethodDescriptors

public [MethodDescriptor](http://docs.google.com/java/beans/MethodDescriptor.html)[] **getListenerMethodDescriptors**()

Gets the MethodDescriptors of the target listener interface.

**Returns:**An array of MethodDescriptor objects for the target methods within the target listener interface that will get called when events are fired.

### getAddListenerMethod

public [Method](http://docs.google.com/java/lang/reflect/Method.html) **getAddListenerMethod**()

Gets the method used to add event listeners.

**Returns:**The method used to register a listener at the event source.

### getRemoveListenerMethod

public [Method](http://docs.google.com/java/lang/reflect/Method.html) **getRemoveListenerMethod**()

Gets the method used to remove event listeners.

**Returns:**The method used to remove a listener at the event source.

### getGetListenerMethod

public [Method](http://docs.google.com/java/lang/reflect/Method.html) **getGetListenerMethod**()

Gets the method used to access the registered event listeners.

**Returns:**The method used to access the array of listeners at the event source or null if it doesn't exist.**Since:** 1.4

### setUnicast

public void **setUnicast**(boolean unicast)

Mark an event set as unicast (or not).

**Parameters:**unicast - True if the event set is unicast.

### isUnicast

public boolean **isUnicast**()

Normally event sources are multicast. However there are some exceptions that are strictly unicast.

**Returns:**true if the event set is unicast. Defaults to false.

### setInDefaultEventSet

public void **setInDefaultEventSet**(boolean inDefaultEventSet)

Marks an event set as being in the "default" set (or not). By default this is true.

**Parameters:**inDefaultEventSet - true if the event set is in the "default" set, false if not

### isInDefaultEventSet

public boolean **isInDefaultEventSet**()

Reports if an event set is in the "default" set.

**Returns:**true if the event set is in the "default" set. Defaults to true.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/EventSetDescriptor.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/java/beans/EventHandler.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/ExceptionListener.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/EventSetDescriptor.html)    [**NO FRAMES**](http://docs.google.com/EventSetDescriptor.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#35nkun2) |

[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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