| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContextSupport.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/beancontext/BeanContextServicesSupport.BCSSServiceProvider.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContextSupport.html)    [**NO FRAMES**](http://docs.google.com/BeanContextSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: [FIELD](#35nkun2) | [CONSTR](#1y810tw) | [METHOD](#qsh70q) |

## **java.beans.beancontext**

Class BeanContextSupport

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.beans.beancontext.BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html)  
 **java.beans.beancontext.BeanContextSupport**

**All Implemented Interfaces:** [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html), [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html), [BeanContextServiceRevokedListener](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedListener.html), [BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html), [DesignMode](http://docs.google.com/java/beans/DesignMode.html), [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html), [VetoableChangeListener](http://docs.google.com/java/beans/VetoableChangeListener.html), [Visibility](http://docs.google.com/java/beans/Visibility.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [Iterable](http://docs.google.com/java/lang/Iterable.html), [Collection](http://docs.google.com/java/util/Collection.html), [EventListener](http://docs.google.com/java/util/EventListener.html) **Direct Known Subclasses:** [BeanContextServicesSupport](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html)

public class **BeanContextSupport**extends [BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html)implements [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html), [Serializable](http://docs.google.com/java/io/Serializable.html), [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html), [VetoableChangeListener](http://docs.google.com/java/beans/VetoableChangeListener.html)

This helper class provides a utility implementation of the java.beans.beancontext.BeanContext interface.

Since this class directly implements the BeanContext interface, the class can, and is intended to be used either by subclassing this implementation, or via ad-hoc delegation of an instance of this class from another.

**Since:** 1.2 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#java.beans.beancontext.BeanContextSupport)

| **Nested Class Summary** | |
| --- | --- |
| protected  class | [**BeanContextSupport.BCSChild**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) |
| protected static class | [**BeanContextSupport.BCSIterator**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSIterator.html)            protected final subclass that encapsulates an iterator but implements a noop remove() method. |

| **Field Summary** | |
| --- | --- |
| protected  [ArrayList](http://docs.google.com/java/util/ArrayList.html) | [**bcmListeners**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcmListeners)            all accesses to the protected ArrayList bcmListeners field shall be synchronized on that object. |
| protected  [HashMap](http://docs.google.com/java/util/HashMap.html) | [**children**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#children)            all accesses to the protected HashMap children field shall be synchronized on that object. |
| protected  boolean | [**designTime**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#designTime)            A boolean indicating whether or not this object is currently in design time mode. |
| protected  [Locale](http://docs.google.com/java/util/Locale.html) | [**locale**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#locale)            The current locale of this BeanContext. |
| protected  boolean | [**okToUseGui**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#okToUseGui)            A boolean indicating if this instance may now render a GUI. |

| **Fields inherited from class java.beans.beancontext.**[**BeanContextChildSupport**](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html) |
| --- |
| [beanContext](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#beanContext), [beanContextChildPeer](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#beanContextChildPeer), [pcSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#pcSupport), [rejectedSetBCOnce](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#rejectedSetBCOnce), [vcSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#vcSupport) |

| **Fields inherited from interface java.beans.beancontext.**[**BeanContext**](http://docs.google.com/java/beans/beancontext/BeanContext.html) |
| --- |
| [globalHierarchyLock](http://docs.google.com/java/beans/beancontext/BeanContext.html#globalHierarchyLock) |

| **Fields inherited from interface java.beans.**[**DesignMode**](http://docs.google.com/java/beans/DesignMode.html) |
| --- |
| [PROPERTYNAME](http://docs.google.com/java/beans/DesignMode.html#PROPERTYNAME) |

| **Constructor Summary** | |
| --- | --- |
| [**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#BeanContextSupport())()            Create an instance that is not a delegate of another object |
| [**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#BeanContextSupport(java.beans.beancontext.BeanContext))([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer)            Create an instance using with a default locale |
| [**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#BeanContextSupport(java.beans.beancontext.BeanContext,%20java.util.Locale))([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer, [Locale](http://docs.google.com/java/util/Locale.html) lcle)            Create an instance using the specified locale |
| [**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#BeanContextSupport(java.beans.beancontext.BeanContext,%20java.util.Locale,%20boolean))([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer, [Locale](http://docs.google.com/java/util/Locale.html) lcle, boolean dtime)            Create an instance using the specified Locale and design mode. |
| [**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#BeanContextSupport(java.beans.beancontext.BeanContext,%20java.util.Locale,%20boolean,%20boolean))([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer, [Locale](http://docs.google.com/java/util/Locale.html) lcle, boolean dTime, boolean visible)            Construct a BeanContextSupport instance |

| **Method Summary** | |
| --- | --- |
| boolean | [**add**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#add(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) targetChild)            Adds/nests a child within this BeanContext. |
| boolean | [**addAll**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#addAll(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html) c)            add Collection to set of Children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field |
| void | [**addBeanContextMembershipListener**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#addBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener))([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)            Adds a BeanContextMembershipListener |
| boolean | [**avoidingGui**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#avoidingGui())()            Used to determine if the BeanContext child is avoiding using its GUI. |
| protected  [Iterator](http://docs.google.com/java/util/Iterator.html) | [**bcsChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsChildren())()            Returns an iterator of all children of this BeanContext. |
| protected  void | [**bcsPreDeserializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreDeserializationHook(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            called by readObject after defaultReadObject() but prior to deserialization of any children. |
| protected  void | [**bcsPreSerializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreSerializationHook(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            called by writeObject after defaultWriteObject() but prior to serialization of currently serializable children. |
| protected  void | [**childDeserializedHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childDeserializedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild))([Object](http://docs.google.com/java/lang/Object.html) child, [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)            Called by readObject with the newly deserialized child and BCSChild. |
| protected  void | [**childJustAddedHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childJustAddedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild))([Object](http://docs.google.com/java/lang/Object.html) child, [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)            subclasses may override this method to simply extend add() semantics after the child has been added and before the event notification has occurred. |
| protected  void | [**childJustRemovedHook**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childJustRemovedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild))([Object](http://docs.google.com/java/lang/Object.html) child, [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)            subclasses may override this method to simply extend remove() semantics after the child has been removed and before the event notification has occurred. |
| protected static boolean | [**classEquals**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#classEquals(java.lang.Class,%20java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html) first, [Class](http://docs.google.com/java/lang/Class.html) second)            Tests to see if two class objects, or their names are equal. |
| void | [**clear**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#clear())()            clear the children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field |
| boolean | [**contains**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#contains(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Determines whether or not the specified object is currently a child of this BeanContext. |
| boolean | [**containsAll**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#containsAll(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html) c)            Tests to see if all objects in the specified Collection are children of this BeanContext. |
| boolean | [**containsKey**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#containsKey(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) o)            Determines whether or not the specified object is currently a child of this BeanContext. |
| protected  [Object](http://docs.google.com/java/lang/Object.html)[] | [**copyChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#copyChildren())()            Gets a copy of the this BeanContext's children. |
| protected  [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) | [**createBCSChild**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#createBCSChild(java.lang.Object,%20java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) targetChild, [Object](http://docs.google.com/java/lang/Object.html) peer)             Subclasses can override this method to insert their own subclass of Child without having to override add() or the other Collection methods that add children to the set. |
| protected  void | [**deserialize**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#deserialize(java.io.ObjectInputStream,%20java.util.Collection))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois, [Collection](http://docs.google.com/java/util/Collection.html) coll)            used by readObject to deserialize a collection. |
| void | [**dontUseGui**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#dontUseGui())()            notify this instance that it may no longer render a GUI. |
| protected  void | [**fireChildrenAdded**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#fireChildrenAdded(java.beans.beancontext.BeanContextMembershipEvent))([BeanContextMembershipEvent](http://docs.google.com/java/beans/beancontext/BeanContextMembershipEvent.html) bcme)            Fire a BeanContextshipEvent on the BeanContextMembershipListener interface |
| protected  void | [**fireChildrenRemoved**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#fireChildrenRemoved(java.beans.beancontext.BeanContextMembershipEvent))([BeanContextMembershipEvent](http://docs.google.com/java/beans/beancontext/BeanContextMembershipEvent.html) bcme)            Fire a BeanContextshipEvent on the BeanContextMembershipListener interface |
| [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) | [**getBeanContextPeer**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getBeanContextPeer())()            Gets the instance of BeanContext that this object is providing the implementation for. |
| protected static [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) | [**getChildBeanContextChild**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildBeanContextChild(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the BeanContextChild (if any) of the specified child |
| protected static [BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) | [**getChildBeanContextMembershipListener**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildBeanContextMembershipListener(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the BeanContextMembershipListener (if any) of the specified child |
| protected static [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) | [**getChildPropertyChangeListener**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildPropertyChangeListener(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the PropertyChangeListener (if any) of the specified child |
| protected static [Serializable](http://docs.google.com/java/io/Serializable.html) | [**getChildSerializable**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildSerializable(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the Serializable (if any) associated with the specified Child |
| protected static [VetoableChangeListener](http://docs.google.com/java/beans/VetoableChangeListener.html) | [**getChildVetoableChangeListener**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildVetoableChangeListener(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the VetoableChangeListener (if any) of the specified child |
| protected static [Visibility](http://docs.google.com/java/beans/Visibility.html) | [**getChildVisibility**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildVisibility(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the Component (if any) associated with the specified child. |
| [Locale](http://docs.google.com/java/util/Locale.html) | [**getLocale**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getLocale())()            Gets the locale for this BeanContext. |
| [URL](http://docs.google.com/java/net/URL.html) | [**getResource**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild))([String](http://docs.google.com/java/lang/String.html) name, [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)            Analagous to java.lang.ClassLoader.getResource(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader. |
| [InputStream](http://docs.google.com/java/io/InputStream.html) | [**getResourceAsStream**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild))([String](http://docs.google.com/java/lang/String.html) name, [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)            Analagous to java.lang.ClassLoader.getResourceAsStream(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader. |
| protected  void | [**initialize**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#initialize())()            protected method called from constructor and readObject to initialize transient state of BeanContextSupport instance. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**instantiateChild**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#instantiateChild(java.lang.String))([String](http://docs.google.com/java/lang/String.html) beanName)             The instantiateChild method is a convenience hook in BeanContext to simplify the task of instantiating a Bean, nested, into a BeanContext. |
| boolean | [**isDesignTime**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isDesignTime())()            Reports whether or not this object is in currently in design time mode. |
| boolean | [**isEmpty**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isEmpty())()            Reports whether or not this BeanContext is empty. |
| boolean | [**isSerializing**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isSerializing())()            Is this BeanContext in the process of being serialized? |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**iterator**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#iterator())()            Gets all JavaBean or BeanContext instances currently nested in this BeanContext. |
| boolean | [**needsGui**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#needsGui())()             This method is typically called from the environment in order to determine if the implementor "needs" a GUI. |
| void | [**okToUseGui**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#okToUseGui())()            Notify this instance that it may now render a GUI |
| void | [**propertyChange**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#propertyChange(java.beans.PropertyChangeEvent))([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) pce)            subclasses may envelope to monitor child property changes. |
| void | [**readChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#readChildren(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            When an instance of this class is used as a delegate for the implementation of the BeanContext protocols (and its subprotocols) there exists a 'chicken and egg' problem during deserialization |
| boolean | [**remove**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#remove(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) targetChild)            Removes a child from this BeanContext. |
| protected  boolean | [**remove**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#remove(java.lang.Object,%20boolean))([Object](http://docs.google.com/java/lang/Object.html) targetChild, boolean callChildSetBC)            internal remove used when removal caused by unexpected setBeanContext or by remove() invocation. |
| boolean | [**removeAll**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#removeAll(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html) c)            remove all specified children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field |
| void | [**removeBeanContextMembershipListener**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#removeBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener))([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)            Removes a BeanContextMembershipListener |
| boolean | [**retainAll**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#retainAll(java.util.Collection))([Collection](http://docs.google.com/java/util/Collection.html) c)            retain only specified children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field |
| protected  void | [**serialize**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#serialize(java.io.ObjectOutputStream,%20java.util.Collection))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos, [Collection](http://docs.google.com/java/util/Collection.html) coll)            Used by writeObject to serialize a Collection. |
| void | [**setDesignTime**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#setDesignTime(boolean))(boolean dTime)            Sets the new design time value for this BeanContext. |
| void | [**setLocale**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#setLocale(java.util.Locale))([Locale](http://docs.google.com/java/util/Locale.html) newLocale)            Sets the locale of this BeanContext. |
| int | [**size**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#size())()            Gets the number of children currently nested in this BeanContext. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | [**toArray**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#toArray())()            Gets all JavaBean or BeanContext instances currently nested in this BeanContext. |
| [Object](http://docs.google.com/java/lang/Object.html)[] | [**toArray**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#toArray(java.lang.Object%5B%5D))([Object](http://docs.google.com/java/lang/Object.html)[] arry)            Gets an array containing all children of this BeanContext that match the types contained in arry. |
| protected  boolean | [**validatePendingAdd**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingAdd(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) targetChild)             Subclasses of this class may override, or envelope, this method to add validation behavior for the BeanContext to examine child objects immediately prior to their being added to the BeanContext. |
| protected  boolean | [**validatePendingRemove**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingRemove(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) targetChild)             Subclasses of this class may override, or envelope, this method to add validation behavior for the BeanContext to examine child objects immediately prior to their being removed from the BeanContext. |
| void | [**vetoableChange**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#vetoableChange(java.beans.PropertyChangeEvent))([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) pce)            subclasses may envelope to monitor veto child property changes. |
| void | [**writeChildren**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#writeChildren(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            Used to serialize all children of this BeanContext. |

| **Methods inherited from class java.beans.beancontext.**[**BeanContextChildSupport**](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html) |
| --- |
| [addPropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [addVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#addVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [firePropertyChange](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#firePropertyChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [fireVetoableChange](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#fireVetoableChange(java.lang.String,%20java.lang.Object,%20java.lang.Object)), [getBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#getBeanContext()), [getBeanContextChildPeer](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#getBeanContextChildPeer()), [initializeBeanContextResources](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#initializeBeanContextResources()), [isDelegated](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#isDelegated()), [releaseBeanContextResources](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#releaseBeanContextResources()), [removePropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#removePropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [removeVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#removeVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [serviceAvailable](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#serviceAvailable(java.beans.beancontext.BeanContextServiceAvailableEvent)), [serviceRevoked](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#serviceRevoked(java.beans.beancontext.BeanContextServiceRevokedEvent)), [setBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#setBeanContext(java.beans.beancontext.BeanContext)), [validatePendingSetBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#validatePendingSetBeanContext(java.beans.beancontext.BeanContext)) |

| **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)) |

| **Methods inherited from interface java.beans.beancontext.**[**BeanContextChild**](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) |
| --- |
| [addPropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#addPropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [addVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#addVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [getBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#getBeanContext()), [removePropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#removePropertyChangeListener(java.lang.String,%20java.beans.PropertyChangeListener)), [removeVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#removeVetoableChangeListener(java.lang.String,%20java.beans.VetoableChangeListener)), [setBeanContext](http://docs.google.com/java/beans/beancontext/BeanContextChild.html#setBeanContext(java.beans.beancontext.BeanContext)) |

| **Methods inherited from interface java.util.**[**Collection**](http://docs.google.com/java/util/Collection.html) |
| --- |
| [equals](http://docs.google.com/java/util/Collection.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/Collection.html#hashCode()) |

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

### children

protected transient [HashMap](http://docs.google.com/java/util/HashMap.html) **children**

all accesses to the protected HashMap children field shall be synchronized on that object.

### bcmListeners

protected transient [ArrayList](http://docs.google.com/java/util/ArrayList.html) **bcmListeners**

all accesses to the protected ArrayList bcmListeners field shall be synchronized on that object.

### locale

protected [Locale](http://docs.google.com/java/util/Locale.html) **locale**

The current locale of this BeanContext.

### okToUseGui

protected boolean **okToUseGui**

A boolean indicating if this instance may now render a GUI.

### designTime

protected boolean **designTime**

A boolean indicating whether or not this object is currently in design time mode.

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

### BeanContextSupport

public **BeanContextSupport**([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer,  
 [Locale](http://docs.google.com/java/util/Locale.html) lcle,  
 boolean dTime,  
 boolean visible)

Construct a BeanContextSupport instance

**Parameters:**peer - The peer BeanContext we are supplying an implementation for, or null if this object is its own peerlcle - The current Locale for this BeanContext. If lcle is null, the default locale is assigned to the BeanContext instance.dTime - The initial state, true if in design mode, false if runtime.visible - The initial visibility.**See Also:**[Locale.getDefault()](http://docs.google.com/java/util/Locale.html#getDefault()), [Locale.setDefault(java.util.Locale)](http://docs.google.com/java/util/Locale.html#setDefault(java.util.Locale))

### BeanContextSupport

public **BeanContextSupport**([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer,  
 [Locale](http://docs.google.com/java/util/Locale.html) lcle,  
 boolean dtime)

Create an instance using the specified Locale and design mode.

**Parameters:**peer - The peer BeanContext we are supplying an implementation for, or null if this object is its own peerlcle - The current Locale for this BeanContext. If lcle is null, the default locale is assigned to the BeanContext instance.dtime - The initial state, true if in design mode, false if runtime.**See Also:**[Locale.getDefault()](http://docs.google.com/java/util/Locale.html#getDefault()), [Locale.setDefault(java.util.Locale)](http://docs.google.com/java/util/Locale.html#setDefault(java.util.Locale))

### BeanContextSupport

public **BeanContextSupport**([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer,  
 [Locale](http://docs.google.com/java/util/Locale.html) lcle)

Create an instance using the specified locale

**Parameters:**peer - The peer BeanContext we are supplying an implementation for, or null if this object is its own peerlcle - The current Locale for this BeanContext. If lcle is null, the default locale is assigned to the BeanContext instance.**See Also:**[Locale.getDefault()](http://docs.google.com/java/util/Locale.html#getDefault()), [Locale.setDefault(java.util.Locale)](http://docs.google.com/java/util/Locale.html#setDefault(java.util.Locale))

### BeanContextSupport

public **BeanContextSupport**([BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) peer)

Create an instance using with a default locale

**Parameters:**peer - The peer BeanContext we are supplying an implementation for, or null if this object is its own peer

### BeanContextSupport

public **BeanContextSupport**()

Create an instance that is not a delegate of another object

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

### getBeanContextPeer

public [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **getBeanContextPeer**()

Gets the instance of BeanContext that this object is providing the implementation for.

**Returns:**the BeanContext instance

### instantiateChild

public [Object](http://docs.google.com/java/lang/Object.html) **instantiateChild**([String](http://docs.google.com/java/lang/String.html) beanName)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

The instantiateChild method is a convenience hook in BeanContext to simplify the task of instantiating a Bean, nested, into a BeanContext.

The semantics of the beanName parameter are defined by java.beans.Beans.instantate.

**Specified by:**[instantiateChild](http://docs.google.com/java/beans/beancontext/BeanContext.html#instantiateChild(java.lang.String)) in interface [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **Parameters:**beanName - the name of the Bean to instantiate within this BeanContext **Returns:**the new object **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if there is an I/O error when the bean is being deserialized [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html) - if the class identified by the beanName parameter is not found

### size

public int **size**()

Gets the number of children currently nested in this BeanContext.

**Specified by:**[size](http://docs.google.com/java/util/Collection.html#size()) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Returns:**number of children

### isEmpty

public boolean **isEmpty**()

Reports whether or not this BeanContext is empty. A BeanContext is considered empty when it contains zero nested children.

**Specified by:**[isEmpty](http://docs.google.com/java/util/Collection.html#isEmpty()) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Returns:**if there are not children

### contains

public boolean **contains**([Object](http://docs.google.com/java/lang/Object.html) o)

Determines whether or not the specified object is currently a child of this BeanContext.

**Specified by:**[contains](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**o - the Object in question **Returns:**if this object is a child

### containsKey

public boolean **containsKey**([Object](http://docs.google.com/java/lang/Object.html) o)

Determines whether or not the specified object is currently a child of this BeanContext.

**Parameters:**o - the Object in question **Returns:**if this object is a child

### iterator

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

Gets all JavaBean or BeanContext instances currently nested in this BeanContext.

**Specified by:**[iterator](http://docs.google.com/java/lang/Iterable.html#iterator()) in interface [Iterable](http://docs.google.com/java/lang/Iterable.html)**Specified by:**[iterator](http://docs.google.com/java/util/Collection.html#iterator()) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Returns:**an Iterator of the nested children

### toArray

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

Gets all JavaBean or BeanContext instances currently nested in this BeanContext.

**Specified by:**[toArray](http://docs.google.com/java/util/Collection.html#toArray()) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Returns:**an array containing all of the elements in this collection

### toArray

public [Object](http://docs.google.com/java/lang/Object.html)[] **toArray**([Object](http://docs.google.com/java/lang/Object.html)[] arry)

Gets an array containing all children of this BeanContext that match the types contained in arry.

**Specified by:**[toArray](http://docs.google.com/java/util/Collection.html#toArray(T%5B%5D)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**arry - The array of object types that are of interest. **Returns:**an array of children

### createBCSChild

protected [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) **createBCSChild**([Object](http://docs.google.com/java/lang/Object.html) targetChild,  
 [Object](http://docs.google.com/java/lang/Object.html) peer)

Subclasses can override this method to insert their own subclass of Child without having to override add() or the other Collection methods that add children to the set.

**Parameters:**targetChild - the child to create the Child on behalf ofpeer - the peer if the tragetChild and the peer are related by an implementation of BeanContextProxy

### add

public boolean **add**([Object](http://docs.google.com/java/lang/Object.html) targetChild)

Adds/nests a child within this BeanContext.

Invoked as a side effect of java.beans.Beans.instantiate(). If the child object is not valid for adding then this method throws an IllegalStateException.

**Specified by:**[add](http://docs.google.com/java/util/Collection.html#add(E)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**targetChild - The child objects to nest within this BeanContext **Returns:**true if the child was added successfully.**See Also:**[validatePendingAdd(java.lang.Object)](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingAdd(java.lang.Object))

### remove

public boolean **remove**([Object](http://docs.google.com/java/lang/Object.html) targetChild)

Removes a child from this BeanContext. If the child object is not for adding then this method throws an IllegalStateException.

**Specified by:**[remove](http://docs.google.com/java/util/Collection.html#remove(java.lang.Object)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**targetChild - The child objects to remove **Returns:**true if an element was removed as a result of this call**See Also:**[validatePendingRemove(java.lang.Object)](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingRemove(java.lang.Object))

### remove

protected boolean **remove**([Object](http://docs.google.com/java/lang/Object.html) targetChild,  
 boolean callChildSetBC)

internal remove used when removal caused by unexpected setBeanContext or by remove() invocation.

**Parameters:**targetChild - the JavaBean, BeanContext, or Object to be removedcallChildSetBC - used to indicate that the child should be notified that it is no longer nested in this BeanContext.

### containsAll

public boolean **containsAll**([Collection](http://docs.google.com/java/util/Collection.html) c)

Tests to see if all objects in the specified Collection are children of this BeanContext.

**Specified by:**[containsAll](http://docs.google.com/java/util/Collection.html#containsAll(java.util.Collection)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**c - the specified Collection **Returns:**true if all objects in the collection are children of this BeanContext, false if not.**See Also:**[Collection.contains(Object)](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object))

### addAll

public boolean **addAll**([Collection](http://docs.google.com/java/util/Collection.html) c)

add Collection to set of Children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field

**Specified by:**[addAll](http://docs.google.com/java/util/Collection.html#addAll(java.util.Collection)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**c - collection containing elements to be added to this collection **Returns:**true if this collection changed as a result of the call **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html)**See Also:**[Collection.add(Object)](http://docs.google.com/java/util/Collection.html#add(E))

### removeAll

public boolean **removeAll**([Collection](http://docs.google.com/java/util/Collection.html) c)

remove all specified children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field

**Specified by:**[removeAll](http://docs.google.com/java/util/Collection.html#removeAll(java.util.Collection)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**c - collection containing elements to be removed from this collection **Returns:**true if this collection changed as a result of the call **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html)**See Also:**[Collection.remove(Object)](http://docs.google.com/java/util/Collection.html#remove(java.lang.Object)), [Collection.contains(Object)](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object))

### retainAll

public boolean **retainAll**([Collection](http://docs.google.com/java/util/Collection.html) c)

retain only specified children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field

**Specified by:**[retainAll](http://docs.google.com/java/util/Collection.html#retainAll(java.util.Collection)) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Parameters:**c - collection containing elements to be retained in this collection **Returns:**true if this collection changed as a result of the call **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html)**See Also:**[Collection.remove(Object)](http://docs.google.com/java/util/Collection.html#remove(java.lang.Object)), [Collection.contains(Object)](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object))

### clear

public void **clear**()

clear the children (Unsupported) implementations must synchronized on the hierarchy lock and "children" protected field

**Specified by:**[clear](http://docs.google.com/java/util/Collection.html#clear()) in interface [Collection](http://docs.google.com/java/util/Collection.html) **Throws:** [UnsupportedOperationException](http://docs.google.com/java/lang/UnsupportedOperationException.html)

### addBeanContextMembershipListener

public void **addBeanContextMembershipListener**([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)

Adds a BeanContextMembershipListener

**Specified by:**[addBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContext.html#addBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)) in interface [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **Parameters:**bcml - the BeanContextMembershipListener to add **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html)

### removeBeanContextMembershipListener

public void **removeBeanContextMembershipListener**([BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) bcml)

Removes a BeanContextMembershipListener

**Specified by:**[removeBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContext.html#removeBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)) in interface [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **Parameters:**bcml - the BeanContextMembershipListener to remove **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html)

### getResourceAsStream

public [InputStream](http://docs.google.com/java/io/InputStream.html) **getResourceAsStream**([String](http://docs.google.com/java/lang/String.html) name,  
 [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)

**Description copied from interface:** [**BeanContext**](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild)) Analagous to java.lang.ClassLoader.getResourceAsStream(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader.

**Specified by:**[getResourceAsStream](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild)) in interface [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **Parameters:**name - the name of the resource requested.bcc - the child object making the request. **Returns:**the requested resource as an InputStream **Throws:** [NullPointerException](http://docs.google.com/java/lang/NullPointerException.html)

### getResource

public [URL](http://docs.google.com/java/net/URL.html) **getResource**([String](http://docs.google.com/java/lang/String.html) name,  
 [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) bcc)

**Description copied from interface:** [**BeanContext**](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild)) Analagous to java.lang.ClassLoader.getResource(), this method allows a BeanContext implementation to interpose behavior between the child Component and underlying ClassLoader.

**Specified by:**[getResource](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild)) in interface [BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html) **Parameters:**name - the name of the resource requested.bcc - the child object making the request. **Returns:**the requested resource as an InputStream

### setDesignTime

public void **setDesignTime**(boolean dTime)

Sets the new design time value for this BeanContext.

**Specified by:**[setDesignTime](http://docs.google.com/java/beans/DesignMode.html#setDesignTime(boolean)) in interface [DesignMode](http://docs.google.com/java/beans/DesignMode.html) **Parameters:**dTime - the new designTime value**See Also:**[BeanContext](http://docs.google.com/java/beans/beancontext/BeanContext.html), [BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html), [PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html)

### isDesignTime

public boolean **isDesignTime**()

Reports whether or not this object is in currently in design time mode.

**Specified by:**[isDesignTime](http://docs.google.com/java/beans/DesignMode.html#isDesignTime()) in interface [DesignMode](http://docs.google.com/java/beans/DesignMode.html) **Returns:**true if in design time mode, false if not

### setLocale

public void **setLocale**([Locale](http://docs.google.com/java/util/Locale.html) newLocale)  
 throws [PropertyVetoException](http://docs.google.com/java/beans/PropertyVetoException.html)

Sets the locale of this BeanContext.

**Parameters:**newLocale - the new locale. This method call will have no effect if newLocale is null. **Throws:** [PropertyVetoException](http://docs.google.com/java/beans/PropertyVetoException.html) - if the new value is rejected

### getLocale

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

Gets the locale for this BeanContext.

**Returns:**the current Locale of the BeanContext

### needsGui

public boolean **needsGui**()

This method is typically called from the environment in order to determine if the implementor "needs" a GUI.

The algorithm used herein tests the BeanContextPeer, and its current children to determine if they are either Containers, Components, or if they implement Visibility and return needsGui() == true.

**Specified by:**[needsGui](http://docs.google.com/java/beans/Visibility.html#needsGui()) in interface [Visibility](http://docs.google.com/java/beans/Visibility.html) **Returns:**true if the implementor needs a GUI

### dontUseGui

public void **dontUseGui**()

notify this instance that it may no longer render a GUI.

**Specified by:**[dontUseGui](http://docs.google.com/java/beans/Visibility.html#dontUseGui()) in interface [Visibility](http://docs.google.com/java/beans/Visibility.html)

### okToUseGui

public void **okToUseGui**()

Notify this instance that it may now render a GUI

**Specified by:**[okToUseGui](http://docs.google.com/java/beans/Visibility.html#okToUseGui()) in interface [Visibility](http://docs.google.com/java/beans/Visibility.html)

### avoidingGui

public boolean **avoidingGui**()

Used to determine if the BeanContext child is avoiding using its GUI.

**Specified by:**[avoidingGui](http://docs.google.com/java/beans/Visibility.html#avoidingGui()) in interface [Visibility](http://docs.google.com/java/beans/Visibility.html) **Returns:**is this instance avoiding using its GUI?**See Also:**[Visibility](http://docs.google.com/java/beans/Visibility.html)

### isSerializing

public boolean **isSerializing**()

Is this BeanContext in the process of being serialized?

**Returns:**if this BeanContext is currently being serialized

### bcsChildren

protected [Iterator](http://docs.google.com/java/util/Iterator.html) **bcsChildren**()

Returns an iterator of all children of this BeanContext.

**Returns:**an iterator for all the current BCSChild values

### bcsPreSerializationHook

protected void **bcsPreSerializationHook**([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

called by writeObject after defaultWriteObject() but prior to serialization of currently serializable children. This method may be overridden by subclasses to perform custom serialization of their state prior to this superclass serializing the children. This method should not however be used by subclasses to replace their own implementation (if any) of writeObject().

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html)

### bcsPreDeserializationHook

protected void **bcsPreDeserializationHook**([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

called by readObject after defaultReadObject() but prior to deserialization of any children. This method may be overridden by subclasses to perform custom deserialization of their state prior to this superclass deserializing the children. This method should not however be used by subclasses to replace their own implementation (if any) of readObject().

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

### childDeserializedHook

protected void **childDeserializedHook**([Object](http://docs.google.com/java/lang/Object.html) child,  
 [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)

Called by readObject with the newly deserialized child and BCSChild.

**Parameters:**child - the newly deserialized childbcsc - the newly deserialized BCSChild

### serialize

protected final void **serialize**([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos,  
 [Collection](http://docs.google.com/java/util/Collection.html) coll)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Used by writeObject to serialize a Collection.

**Parameters:**oos - the ObjectOutputStream to use during serializationcoll - the Collection to serialize **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if serialization failed

### deserialize

protected final void **deserialize**([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois,  
 [Collection](http://docs.google.com/java/util/Collection.html) coll)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

used by readObject to deserialize a collection.

**Parameters:**ois - the ObjectInputStream to usecoll - the Collection **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

### writeChildren

public final void **writeChildren**([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Used to serialize all children of this BeanContext.

**Parameters:**oos - the ObjectOutputStream to use during serialization **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - if serialization failed

### readChildren

public final void **readChildren**([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)  
 throws [IOException](http://docs.google.com/java/io/IOException.html),  
 [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

When an instance of this class is used as a delegate for the implementation of the BeanContext protocols (and its subprotocols) there exists a 'chicken and egg' problem during deserialization

**Throws:** [IOException](http://docs.google.com/java/io/IOException.html) [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

### vetoableChange

public void **vetoableChange**([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) pce)  
 throws [PropertyVetoException](http://docs.google.com/java/beans/PropertyVetoException.html)

subclasses may envelope to monitor veto child property changes.

**Specified by:**[vetoableChange](http://docs.google.com/java/beans/VetoableChangeListener.html#vetoableChange(java.beans.PropertyChangeEvent)) in interface [VetoableChangeListener](http://docs.google.com/java/beans/VetoableChangeListener.html) **Parameters:**pce - a PropertyChangeEvent object describing the event source and the property that has changed. **Throws:** [PropertyVetoException](http://docs.google.com/java/beans/PropertyVetoException.html) - if the recipient wishes the property change to be rolled back.

### propertyChange

public void **propertyChange**([PropertyChangeEvent](http://docs.google.com/java/beans/PropertyChangeEvent.html) pce)

subclasses may envelope to monitor child property changes.

**Specified by:**[propertyChange](http://docs.google.com/java/beans/PropertyChangeListener.html#propertyChange(java.beans.PropertyChangeEvent)) in interface [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) **Parameters:**pce - A PropertyChangeEvent object describing the event source and the property that has changed.

### validatePendingAdd

protected boolean **validatePendingAdd**([Object](http://docs.google.com/java/lang/Object.html) targetChild)

Subclasses of this class may override, or envelope, this method to add validation behavior for the BeanContext to examine child objects immediately prior to their being added to the BeanContext.

**Returns:**true iff the child may be added to this BeanContext, otherwise false.

### validatePendingRemove

protected boolean **validatePendingRemove**([Object](http://docs.google.com/java/lang/Object.html) targetChild)

Subclasses of this class may override, or envelope, this method to add validation behavior for the BeanContext to examine child objects immediately prior to their being removed from the BeanContext.

**Returns:**true iff the child may be removed from this BeanContext, otherwise false.

### childJustAddedHook

protected void **childJustAddedHook**([Object](http://docs.google.com/java/lang/Object.html) child,  
 [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)

subclasses may override this method to simply extend add() semantics after the child has been added and before the event notification has occurred. The method is called with the child synchronized.

### childJustRemovedHook

protected void **childJustRemovedHook**([Object](http://docs.google.com/java/lang/Object.html) child,  
 [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) bcsc)

subclasses may override this method to simply extend remove() semantics after the child has been removed and before the event notification has occurred. The method is called with the child synchronized.

### getChildVisibility

protected static final [Visibility](http://docs.google.com/java/beans/Visibility.html) **getChildVisibility**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the Component (if any) associated with the specified child.

**Parameters:**child - the specified child **Returns:**the Component (if any) associated with the specified child.

### getChildSerializable

protected static final [Serializable](http://docs.google.com/java/io/Serializable.html) **getChildSerializable**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the Serializable (if any) associated with the specified Child

**Parameters:**child - the specified child **Returns:**the Serializable (if any) associated with the specified Child

### getChildPropertyChangeListener

protected static final [PropertyChangeListener](http://docs.google.com/java/beans/PropertyChangeListener.html) **getChildPropertyChangeListener**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the PropertyChangeListener (if any) of the specified child

**Parameters:**child - the specified child **Returns:**the PropertyChangeListener (if any) of the specified child

### getChildVetoableChangeListener

protected static final [VetoableChangeListener](http://docs.google.com/java/beans/VetoableChangeListener.html) **getChildVetoableChangeListener**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the VetoableChangeListener (if any) of the specified child

**Parameters:**child - the specified child **Returns:**the VetoableChangeListener (if any) of the specified child

### getChildBeanContextMembershipListener

protected static final [BeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextMembershipListener.html) **getChildBeanContextMembershipListener**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the BeanContextMembershipListener (if any) of the specified child

**Parameters:**child - the specified child **Returns:**the BeanContextMembershipListener (if any) of the specified child

### getChildBeanContextChild

protected static final [BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) **getChildBeanContextChild**([Object](http://docs.google.com/java/lang/Object.html) child)

Gets the BeanContextChild (if any) of the specified child

**Parameters:**child - the specified child **Returns:**the BeanContextChild (if any) of the specified child **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if child implements both BeanContextChild and BeanContextProxy

### fireChildrenAdded

protected final void **fireChildrenAdded**([BeanContextMembershipEvent](http://docs.google.com/java/beans/beancontext/BeanContextMembershipEvent.html) bcme)

Fire a BeanContextshipEvent on the BeanContextMembershipListener interface

### fireChildrenRemoved

protected final void **fireChildrenRemoved**([BeanContextMembershipEvent](http://docs.google.com/java/beans/beancontext/BeanContextMembershipEvent.html) bcme)

Fire a BeanContextshipEvent on the BeanContextMembershipListener interface

### initialize

protected void **initialize**()

protected method called from constructor and readObject to initialize transient state of BeanContextSupport instance. This class uses this method to instantiate inner class listeners used to monitor PropertyChange and VetoableChange events on children. subclasses may envelope this method to add their own initialization behavior

### copyChildren

protected final [Object](http://docs.google.com/java/lang/Object.html)[] **copyChildren**()

Gets a copy of the this BeanContext's children.

**Returns:**a copy of the current nested children

### classEquals

protected static final boolean **classEquals**([Class](http://docs.google.com/java/lang/Class.html) first,  
 [Class](http://docs.google.com/java/lang/Class.html) second)

Tests to see if two class objects, or their names are equal.

**Parameters:**first - the first objectsecond - the second object **Returns:**true if equal, false if not

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContextSupport.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/beancontext/BeanContextServicesSupport.BCSSServiceProvider.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContextSupport.html)    [**NO FRAMES**](http://docs.google.com/BeanContextSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#4d34og8) | [METHOD](#2s8eyo1) | DETAIL: [FIELD](#35nkun2) | [CONSTR](#1y810tw) | [METHOD](#qsh70q) |

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

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

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