| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContextServicesSupport.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/BeanContextServicesListener.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContextServicesSupport.html)    [**NO FRAMES**](http://docs.google.com/BeanContextServicesSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#17dp8vu) | [METHOD](#3rdcrjn) | DETAIL: [FIELD](#1y810tw) | [CONSTR](#2bn6wsx) | [METHOD](#147n2zr) |

## **java.beans.beancontext**

Class BeanContextServicesSupport

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

**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), [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.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)

public class **BeanContextServicesSupport**extends [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html)implements [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html)

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

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

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

| **Nested Class Summary** | |
| --- | --- |
| protected  class | [**BeanContextServicesSupport.BCSSChild**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSChild.html) |
| protected  class | [**BeanContextServicesSupport.BCSSProxyServiceProvider**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSProxyServiceProvider.html) |
| protected static class | [**BeanContextServicesSupport.BCSSServiceProvider**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSServiceProvider.html)            subclasses may subclass this nested class to add behaviors for each BeanContextServicesProvider. |

| **Nested classes/interfaces inherited from class java.beans.beancontext.**[**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) |
| --- |
| [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html), [BeanContextSupport.BCSIterator](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSIterator.html) |

| **Field Summary** | |
| --- | --- |
| protected  [ArrayList](http://docs.google.com/java/util/ArrayList.html) | [**bcsListeners**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#bcsListeners)            List of BeanContextServicesListener objects. |
| protected  [BeanContextServicesSupport.BCSSProxyServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSProxyServiceProvider.html) | [**proxy**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#proxy)            Delegate for the BeanContextServiceProvider. |
| protected  int | [**serializable**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#serializable)            The number of instances of a serializable BeanContextServceProvider. |
| protected  [HashMap](http://docs.google.com/java/util/HashMap.html) | [**services**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#services)            all accesses to the protected transient HashMap services field should be synchronized on that object |

| **Fields inherited from class java.beans.beancontext.**[**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) |
| --- |
| [bcmListeners](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcmListeners), [children](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#children), [designTime](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#designTime), [locale](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#locale), [okToUseGui](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#okToUseGui) |

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

| **Method Summary** | |
| --- | --- |
| void | [**addBeanContextServicesListener**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#addBeanContextServicesListener(java.beans.beancontext.BeanContextServicesListener))([BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html) bcsl)            add a BeanContextServicesListener |
| boolean | [**addService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#addService(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider))([Class](http://docs.google.com/java/lang/Class.html) serviceClass, [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp)            add a service |
| protected  boolean | [**addService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#addService(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider,%20boolean))([Class](http://docs.google.com/java/lang/Class.html) serviceClass, [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp, boolean fireEvent)            add a service |
| protected  void | [**bcsPreDeserializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#bcsPreDeserializationHook(java.io.ObjectInputStream))([ObjectInputStream](http://docs.google.com/java/io/ObjectInputStream.html) ois)            called from BeanContextSupport readObject before it deserializes the children ... |
| protected  void | [**bcsPreSerializationHook**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#bcsPreSerializationHook(java.io.ObjectOutputStream))([ObjectOutputStream](http://docs.google.com/java/io/ObjectOutputStream.html) oos)            called from BeanContextSupport writeObject before it serializes the children ... |
| protected  void | [**childJustRemovedHook**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.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)            called from superclass child removal operations after a child has been successfully removed. |
| protected  [BeanContextSupport.BCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.BCSChild.html) | [**createBCSChild**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.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  [BeanContextServicesSupport.BCSSServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSServiceProvider.html) | [**createBCSSServiceProvider**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#createBCSSServiceProvider(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider))([Class](http://docs.google.com/java/lang/Class.html) sc, [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp)            subclasses can override this method to create new subclasses of BCSSServiceProvider without having to overrride addService() in order to instantiate. |
| protected  void | [**fireServiceAdded**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#fireServiceAdded(java.beans.beancontext.BeanContextServiceAvailableEvent))([BeanContextServiceAvailableEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceAvailableEvent.html) bcssae)            Fires a BeanContextServiceAvailableEvent indicating that a new service has become available. |
| protected  void | [**fireServiceAdded**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#fireServiceAdded(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html) serviceClass)            Fires a BeanContextServiceEvent notifying of a new service. |
| protected  void | [**fireServiceRevoked**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#fireServiceRevoked(java.beans.beancontext.BeanContextServiceRevokedEvent))([BeanContextServiceRevokedEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedEvent.html) bcsre)            Fires a BeanContextServiceEvent notifying of a service being revoked. |
| protected  void | [**fireServiceRevoked**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#fireServiceRevoked(java.lang.Class,%20boolean))([Class](http://docs.google.com/java/lang/Class.html) serviceClass, boolean revokeNow)            Fires a BeanContextServiceRevokedEvent indicating that a particular service is no longer available. |
| [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) | [**getBeanContextServicesPeer**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#getBeanContextServicesPeer())()            Gets the BeanContextServices associated with this BeanContextServicesSupport. |
| protected static [BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html) | [**getChildBeanContextServicesListener**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#getChildBeanContextServicesListener(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) child)            Gets the BeanContextServicesListener (if any) of the specified child. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getCurrentServiceClasses**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#getCurrentServiceClasses())()            Gets the currently available services for this context. |
| [Iterator](http://docs.google.com/java/util/Iterator.html) | [**getCurrentServiceSelectors**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#getCurrentServiceSelectors(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html) serviceClass)            Gets the list of service dependent service parameters (Service Selectors) for the specified service, by calling getCurrentServiceSelectors() on the underlying BeanContextServiceProvider. |
| [Object](http://docs.google.com/java/lang/Object.html) | [**getService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#getService(java.beans.beancontext.BeanContextChild,%20java.lang.Object,%20java.lang.Class,%20java.lang.Object,%20java.beans.beancontext.BeanContextServiceRevokedListener))([BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) child, [Object](http://docs.google.com/java/lang/Object.html) requestor, [Class](http://docs.google.com/java/lang/Class.html) serviceClass, [Object](http://docs.google.com/java/lang/Object.html) serviceSelector, [BeanContextServiceRevokedListener](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedListener.html) bcsrl)            obtain a service which may be delegated |
| boolean | [**hasService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#hasService(java.lang.Class))([Class](http://docs.google.com/java/lang/Class.html) serviceClass)            has a service, which may be delegated |
| void | [**initialize**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#initialize())()            called by BeanContextSupport superclass during construction and deserialization to initialize subclass transient state. |
| protected  void | [**initializeBeanContextResources**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#initializeBeanContextResources())()            called from setBeanContext to notify a BeanContextChild to allocate resources obtained from the nesting BeanContext. |
| protected  void | [**releaseBeanContextResources**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#releaseBeanContextResources())()            called from setBeanContext to notify a BeanContextChild to release resources obtained from the nesting BeanContext. |
| void | [**releaseService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#releaseService(java.beans.beancontext.BeanContextChild,%20java.lang.Object,%20java.lang.Object))([BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) child, [Object](http://docs.google.com/java/lang/Object.html) requestor, [Object](http://docs.google.com/java/lang/Object.html) service)            release a service |
| void | [**removeBeanContextServicesListener**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#removeBeanContextServicesListener(java.beans.beancontext.BeanContextServicesListener))([BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html) bcsl)            remove a BeanContextServicesListener |
| void | [**revokeService**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#revokeService(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider,%20boolean))([Class](http://docs.google.com/java/lang/Class.html) serviceClass, [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp, boolean revokeCurrentServicesNow)            remove a service |
| void | [**serviceAvailable**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#serviceAvailable(java.beans.beancontext.BeanContextServiceAvailableEvent))([BeanContextServiceAvailableEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceAvailableEvent.html) bcssae)            BeanContextServicesListener callback, propagates event to all currently registered listeners and BeanContextServices children, if this BeanContextService does not already implement this service itself. |
| void | [**serviceRevoked**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.html#serviceRevoked(java.beans.beancontext.BeanContextServiceRevokedEvent))([BeanContextServiceRevokedEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedEvent.html) bcssre)            BeanContextServicesListener callback, propagates event to all currently registered listeners and BeanContextServices children, if this BeanContextService does not already implement this service itself. |

| **Methods inherited from class java.beans.beancontext.**[**BeanContextSupport**](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) |
| --- |
| [add](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#add(java.lang.Object)), [addAll](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#addAll(java.util.Collection)), [addBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#addBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)), [avoidingGui](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#avoidingGui()), [bcsChildren](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsChildren()), [childDeserializedHook](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childDeserializedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild)), [childJustAddedHook](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childJustAddedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild)), [classEquals](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#classEquals(java.lang.Class,%20java.lang.Class)), [clear](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#clear()), [contains](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#contains(java.lang.Object)), [containsAll](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#containsAll(java.util.Collection)), [containsKey](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#containsKey(java.lang.Object)), [copyChildren](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#copyChildren()), [deserialize](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#deserialize(java.io.ObjectInputStream,%20java.util.Collection)), [dontUseGui](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#dontUseGui()), [fireChildrenAdded](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#fireChildrenAdded(java.beans.beancontext.BeanContextMembershipEvent)), [fireChildrenRemoved](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#fireChildrenRemoved(java.beans.beancontext.BeanContextMembershipEvent)), [getBeanContextPeer](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getBeanContextPeer()), [getChildBeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildBeanContextChild(java.lang.Object)), [getChildBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildBeanContextMembershipListener(java.lang.Object)), [getChildPropertyChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildPropertyChangeListener(java.lang.Object)), [getChildSerializable](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildSerializable(java.lang.Object)), [getChildVetoableChangeListener](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildVetoableChangeListener(java.lang.Object)), [getChildVisibility](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getChildVisibility(java.lang.Object)), [getLocale](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getLocale()), [getResource](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild)), [getResourceAsStream](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild)), [instantiateChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#instantiateChild(java.lang.String)), [isDesignTime](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isDesignTime()), [isEmpty](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isEmpty()), [isSerializing](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#isSerializing()), [iterator](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#iterator()), [needsGui](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#needsGui()), [okToUseGui](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#okToUseGui()), [propertyChange](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#propertyChange(java.beans.PropertyChangeEvent)), [readChildren](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#readChildren(java.io.ObjectInputStream)), [remove](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#remove(java.lang.Object)), [remove](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#remove(java.lang.Object,%20boolean)), [removeAll](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#removeAll(java.util.Collection)), [removeBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#removeBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)), [retainAll](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#retainAll(java.util.Collection)), [serialize](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#serialize(java.io.ObjectOutputStream,%20java.util.Collection)), [setDesignTime](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#setDesignTime(boolean)), [setLocale](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#setLocale(java.util.Locale)), [size](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#size()), [toArray](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#toArray()), [toArray](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#toArray(java.lang.Object%5B%5D)), [validatePendingAdd](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingAdd(java.lang.Object)), [validatePendingRemove](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#validatePendingRemove(java.lang.Object)), [vetoableChange](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#vetoableChange(java.beans.PropertyChangeEvent)), [writeChildren](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#writeChildren(java.io.ObjectOutputStream)) |

| **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()), [isDelegated](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#isDelegated()), [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)), [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.**[**BeanContext**](http://docs.google.com/java/beans/beancontext/BeanContext.html) |
| --- |
| [addBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContext.html#addBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)), [getResource](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResource(java.lang.String,%20java.beans.beancontext.BeanContextChild)), [getResourceAsStream](http://docs.google.com/java/beans/beancontext/BeanContext.html#getResourceAsStream(java.lang.String,%20java.beans.beancontext.BeanContextChild)), [instantiateChild](http://docs.google.com/java/beans/beancontext/BeanContext.html#instantiateChild(java.lang.String)), [removeBeanContextMembershipListener](http://docs.google.com/java/beans/beancontext/BeanContext.html#removeBeanContextMembershipListener(java.beans.beancontext.BeanContextMembershipListener)) |

| **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) |
| --- |
| [add](http://docs.google.com/java/util/Collection.html#add(E)), [addAll](http://docs.google.com/java/util/Collection.html#addAll(java.util.Collection)), [clear](http://docs.google.com/java/util/Collection.html#clear()), [contains](http://docs.google.com/java/util/Collection.html#contains(java.lang.Object)), [containsAll](http://docs.google.com/java/util/Collection.html#containsAll(java.util.Collection)), [equals](http://docs.google.com/java/util/Collection.html#equals(java.lang.Object)), [hashCode](http://docs.google.com/java/util/Collection.html#hashCode()), [isEmpty](http://docs.google.com/java/util/Collection.html#isEmpty()), [iterator](http://docs.google.com/java/util/Collection.html#iterator()), [remove](http://docs.google.com/java/util/Collection.html#remove(java.lang.Object)), [removeAll](http://docs.google.com/java/util/Collection.html#removeAll(java.util.Collection)), [retainAll](http://docs.google.com/java/util/Collection.html#retainAll(java.util.Collection)), [size](http://docs.google.com/java/util/Collection.html#size()), [toArray](http://docs.google.com/java/util/Collection.html#toArray()), [toArray](http://docs.google.com/java/util/Collection.html#toArray(T%5B%5D)) |

| **Methods inherited from interface java.beans.**[**DesignMode**](http://docs.google.com/java/beans/DesignMode.html) |
| --- |
| [isDesignTime](http://docs.google.com/java/beans/DesignMode.html#isDesignTime()), [setDesignTime](http://docs.google.com/java/beans/DesignMode.html#setDesignTime(boolean)) |

| **Methods inherited from interface java.beans.**[**Visibility**](http://docs.google.com/java/beans/Visibility.html) |
| --- |
| [avoidingGui](http://docs.google.com/java/beans/Visibility.html#avoidingGui()), [dontUseGui](http://docs.google.com/java/beans/Visibility.html#dontUseGui()), [needsGui](http://docs.google.com/java/beans/Visibility.html#needsGui()), [okToUseGui](http://docs.google.com/java/beans/Visibility.html#okToUseGui()) |

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

### services

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

all accesses to the protected transient HashMap services field should be synchronized on that object

### serializable

protected transient int **serializable**

The number of instances of a serializable BeanContextServceProvider.

### proxy

protected transient [BeanContextServicesSupport.BCSSProxyServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSProxyServiceProvider.html) **proxy**

Delegate for the BeanContextServiceProvider.

### bcsListeners

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

List of BeanContextServicesListener objects.

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

### BeanContextServicesSupport

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

Construct a BeanContextServicesSupport instance

**Parameters:**peer - The peer BeanContext we are supplying an implementation for, if null the this object is its own peerlcle - The current Locale for this BeanContext.dtime - The initial state, true if in design mode, false if runtime.visible - The initial visibility.

### BeanContextServicesSupport

public **BeanContextServicesSupport**([BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.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, if null the this object is its own peerlcle - The current Locale for this BeanContext.dtime - The initial state, true if in design mode, false if runtime.

### BeanContextServicesSupport

public **BeanContextServicesSupport**([BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.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, if null the this object is its own peerlcle - The current Locale for this BeanContext.

### BeanContextServicesSupport

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

Create an instance with a peer

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

### BeanContextServicesSupport

public **BeanContextServicesSupport**()

Create an instance that is not a delegate of another object

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

### initialize

public void **initialize**()

called by BeanContextSupport superclass during construction and deserialization to initialize subclass transient state. subclasses may envelope this method, but should not override it or call it directly.

**Overrides:**[initialize](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#initialize()) in class [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html)

### getBeanContextServicesPeer

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

Gets the BeanContextServices associated with this BeanContextServicesSupport.

**Returns:**the instance of BeanContext this object is providing the implementation for.

### 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.

**Overrides:**[createBCSChild](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#createBCSChild(java.lang.Object,%20java.lang.Object)) in class [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) **Parameters:**targetChild - the child to create the Child on behalf ofpeer - the peer if the targetChild and peer are related by BeanContextProxy

### createBCSSServiceProvider

protected [BeanContextServicesSupport.BCSSServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSServiceProvider.html) **createBCSSServiceProvider**([Class](http://docs.google.com/java/lang/Class.html) sc,  
 [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp)

subclasses can override this method to create new subclasses of BCSSServiceProvider without having to overrride addService() in order to instantiate.

### addBeanContextServicesListener

public void **addBeanContextServicesListener**([BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html) bcsl)

add a BeanContextServicesListener

**Specified by:**[addBeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#addBeanContextServicesListener(java.beans.beancontext.BeanContextServicesListener)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**bcsl - the BeanContextServicesListener to add

### removeBeanContextServicesListener

public void **removeBeanContextServicesListener**([BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html) bcsl)

remove a BeanContextServicesListener

**Specified by:**[removeBeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#removeBeanContextServicesListener(java.beans.beancontext.BeanContextServicesListener)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**bcsl - the BeanContextServicesListener to remove from this context

### addService

public boolean **addService**([Class](http://docs.google.com/java/lang/Class.html) serviceClass,  
 [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp)

add a service

**Specified by:**[addService](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#addService(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**serviceClass - the service to addbcsp - the BeanContextServiceProvider associated with the service

### addService

protected boolean **addService**([Class](http://docs.google.com/java/lang/Class.html) serviceClass,  
 [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp,  
 boolean fireEvent)

add a service

### revokeService

public void **revokeService**([Class](http://docs.google.com/java/lang/Class.html) serviceClass,  
 [BeanContextServiceProvider](http://docs.google.com/java/beans/beancontext/BeanContextServiceProvider.html) bcsp,  
 boolean revokeCurrentServicesNow)

remove a service

**Specified by:**[revokeService](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#revokeService(java.lang.Class,%20java.beans.beancontext.BeanContextServiceProvider,%20boolean)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**serviceClass - the service to revoke from this BeanContextServicesbcsp - the BeanContextServiceProvider associated with this particular service that is being revokedrevokeCurrentServicesNow - a value of true indicates an exceptional circumstance where the BeanContextServiceProvider or BeanContextServices wishes to immediately terminate service to all currently outstanding references to the specified service.

### hasService

public boolean **hasService**([Class](http://docs.google.com/java/lang/Class.html) serviceClass)

has a service, which may be delegated

**Specified by:**[hasService](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#hasService(java.lang.Class)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**serviceClass - the service in question **Returns:**true if the service is available

### getService

public [Object](http://docs.google.com/java/lang/Object.html) **getService**([BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) child,  
 [Object](http://docs.google.com/java/lang/Object.html) requestor,  
 [Class](http://docs.google.com/java/lang/Class.html) serviceClass,  
 [Object](http://docs.google.com/java/lang/Object.html) serviceSelector,  
 [BeanContextServiceRevokedListener](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedListener.html) bcsrl)  
 throws [TooManyListenersException](http://docs.google.com/java/util/TooManyListenersException.html)

obtain a service which may be delegated

**Specified by:**[getService](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#getService(java.beans.beancontext.BeanContextChild,%20java.lang.Object,%20java.lang.Class,%20java.lang.Object,%20java.beans.beancontext.BeanContextServiceRevokedListener)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**child - the BeanContextChild associated with this requestrequestor - the object requesting the serviceserviceClass - class of the requested serviceserviceSelector - the service dependent parameterbcsrl - the BeanContextServiceRevokedListener to notify if the service should later become revoked **Returns:**a reference to this context's named Service as requested or null **Throws:** [TooManyListenersException](http://docs.google.com/java/util/TooManyListenersException.html)

### releaseService

public void **releaseService**([BeanContextChild](http://docs.google.com/java/beans/beancontext/BeanContextChild.html) child,  
 [Object](http://docs.google.com/java/lang/Object.html) requestor,  
 [Object](http://docs.google.com/java/lang/Object.html) service)

release a service

**Specified by:**[releaseService](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#releaseService(java.beans.beancontext.BeanContextChild,%20java.lang.Object,%20java.lang.Object)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**child - the BeanContextChildrequestor - the requestorservice - the service

### getCurrentServiceClasses

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

**Description copied from interface:** [**BeanContextServices**](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#getCurrentServiceClasses()) Gets the currently available services for this context.

**Specified by:**[getCurrentServiceClasses](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#getCurrentServiceClasses()) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Returns:**an iterator for all the currently registered service classes.

### getCurrentServiceSelectors

public [Iterator](http://docs.google.com/java/util/Iterator.html) **getCurrentServiceSelectors**([Class](http://docs.google.com/java/lang/Class.html) serviceClass)

**Description copied from interface:** [**BeanContextServices**](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#getCurrentServiceSelectors(java.lang.Class)) Gets the list of service dependent service parameters (Service Selectors) for the specified service, by calling getCurrentServiceSelectors() on the underlying BeanContextServiceProvider.

**Specified by:**[getCurrentServiceSelectors](http://docs.google.com/java/beans/beancontext/BeanContextServices.html#getCurrentServiceSelectors(java.lang.Class)) in interface [BeanContextServices](http://docs.google.com/java/beans/beancontext/BeanContextServices.html) **Parameters:**serviceClass - the specified service **Returns:**an iterator for all the currently available service selectors (if any) available for the specified service.

### serviceAvailable

public void **serviceAvailable**([BeanContextServiceAvailableEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceAvailableEvent.html) bcssae)

BeanContextServicesListener callback, propagates event to all currently registered listeners and BeanContextServices children, if this BeanContextService does not already implement this service itself. subclasses may override or envelope this method to implement their own propagation semantics.

**Specified by:**[serviceAvailable](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html#serviceAvailable(java.beans.beancontext.BeanContextServiceAvailableEvent)) in interface [BeanContextServicesListener](http://docs.google.com/java/beans/beancontext/BeanContextServicesListener.html)**Overrides:**[serviceAvailable](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#serviceAvailable(java.beans.beancontext.BeanContextServiceAvailableEvent)) in class [BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html) **Parameters:**bcssae - The BeanContextServiceAvailableEvent fired as a result of a service becoming available

### serviceRevoked

public void **serviceRevoked**([BeanContextServiceRevokedEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedEvent.html) bcssre)

BeanContextServicesListener callback, propagates event to all currently registered listeners and BeanContextServices children, if this BeanContextService does not already implement this service itself. subclasses may override or envelope this method to implement their own propagation semantics.

**Specified by:**[serviceRevoked](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedListener.html#serviceRevoked(java.beans.beancontext.BeanContextServiceRevokedEvent)) in interface [BeanContextServiceRevokedListener](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedListener.html)**Overrides:**[serviceRevoked](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#serviceRevoked(java.beans.beancontext.BeanContextServiceRevokedEvent)) in class [BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html) **Parameters:**bcssre - The BeanContextServiceRevokedEvent fired as a result of a service being revoked

### getChildBeanContextServicesListener

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

Gets the BeanContextServicesListener (if any) of the specified child.

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

### 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)

called from superclass child removal operations after a child has been successfully removed. called with child synchronized. This subclass uses this hook to immediately revoke any services being used by this child if it is a BeanContextChild. subclasses may envelope this method in order to implement their own child removal side-effects.

**Overrides:**[childJustRemovedHook](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#childJustRemovedHook(java.lang.Object,%20java.beans.beancontext.BeanContextSupport.BCSChild)) in class [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html)

### releaseBeanContextResources

protected void **releaseBeanContextResources**()

called from setBeanContext to notify a BeanContextChild to release resources obtained from the nesting BeanContext. This method revokes any services obtained from its parent. subclasses may envelope this method to implement their own semantics.

**Overrides:**[releaseBeanContextResources](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#releaseBeanContextResources()) in class [BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html)

### initializeBeanContextResources

protected void **initializeBeanContextResources**()

called from setBeanContext to notify a BeanContextChild to allocate resources obtained from the nesting BeanContext. subclasses may envelope this method to implement their own semantics.

**Overrides:**[initializeBeanContextResources](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html#initializeBeanContextResources()) in class [BeanContextChildSupport](http://docs.google.com/java/beans/beancontext/BeanContextChildSupport.html)

### fireServiceAdded

protected final void **fireServiceAdded**([Class](http://docs.google.com/java/lang/Class.html) serviceClass)

Fires a BeanContextServiceEvent notifying of a new service.

### fireServiceAdded

protected final void **fireServiceAdded**([BeanContextServiceAvailableEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceAvailableEvent.html) bcssae)

Fires a BeanContextServiceAvailableEvent indicating that a new service has become available.

**Parameters:**bcssae - the BeanContextServiceAvailableEvent

### fireServiceRevoked

protected final void **fireServiceRevoked**([BeanContextServiceRevokedEvent](http://docs.google.com/java/beans/beancontext/BeanContextServiceRevokedEvent.html) bcsre)

Fires a BeanContextServiceEvent notifying of a service being revoked.

**Parameters:**bcsre - the BeanContextServiceRevokedEvent

### fireServiceRevoked

protected final void **fireServiceRevoked**([Class](http://docs.google.com/java/lang/Class.html) serviceClass,  
 boolean revokeNow)

Fires a BeanContextServiceRevokedEvent indicating that a particular service is no longer available.

### 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 from BeanContextSupport writeObject before it serializes the children ... This class will serialize any Serializable BeanContextServiceProviders herein. subclasses may envelope this method to insert their own serialization processing that has to occur prior to serialization of the children

**Overrides:**[bcsPreSerializationHook](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreSerializationHook(java.io.ObjectOutputStream)) in class [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) **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 from BeanContextSupport readObject before it deserializes the children ... This class will deserialize any Serializable BeanContextServiceProviders serialized earlier thus making them available to the children when they deserialized. subclasses may envelope this method to insert their own serialization processing that has to occur prior to serialization of the children

**Overrides:**[bcsPreDeserializationHook](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html#bcsPreDeserializationHook(java.io.ObjectInputStream)) in class [BeanContextSupport](http://docs.google.com/java/beans/beancontext/BeanContextSupport.html) **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) [ClassNotFoundException](http://docs.google.com/java/lang/ClassNotFoundException.html)

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/BeanContextServicesSupport.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/BeanContextServicesListener.html)   [**NEXT CLASS**](http://docs.google.com/java/beans/beancontext/BeanContextServicesSupport.BCSSChild.html) | [**FRAMES**](http://docs.google.com/index.html?java/beans/beancontext/BeanContextServicesSupport.html)    [**NO FRAMES**](http://docs.google.com/BeanContextServicesSupport.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#tyjcwt) | [CONSTR](#17dp8vu) | [METHOD](#3rdcrjn) | DETAIL: [FIELD](#1y810tw) | [CONSTR](#2bn6wsx) | [METHOD](#147n2zr) |

[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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