A Draft Proposal to define an Extensible Runtime Containment and Services Protocol for JavaBeans (FINAL Version 0.99A)

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The *size()* method returns the current number of children nested.

The *isEmpty*() method returns true iff the *BeanContext* has no children.

<u>Note that</u>that

```
        public Iterator getCurrentServiceSelectors(Class sc);

        addBeanContextServicesListener(
              BeanContextServicesListener bcsl
        );

        removeBeanContextServicesListener(
              BeanContextServicesListener bcsl
        );
}
```

The *BeanContextServiceProvider* interface is defined as follows:

```
public interface BeanContextServiceProvider {
      Object getService(BeanContext bc,
                        Object        requestor,
                        Class         serviceCls,
                        Object        serviceSelector);

      void releaseService(BeanContext bc,
                          Object        requestor,
                          Object        service);

      Iterator getCurrentServiceSelectors(BeanContext bc,
                                          Class serviceCls);
}
```

The *BeanContextServiceRevokedListener* is defined as follows:

```
public interface BeanContextServiceRevokedListener
        extends java.util.EventListener {
      void serviceRevoked(
            BeanContextServiceRevokedEvent bcsre
      );
}
```

The *BeanContextServicesListener* is defined as follows:

```
public interface BeanContextServicesListener
        extends BeanContextServiceRevokedListener {
      void serviceAvailable(
            BeanContextServiceAvailableEvent bcsae
      );
```

}

The *BeanContextServiceAvailableEvent* is defined as follows:

```
public class BeanContextServiceAvailableEvent
```

vider that provided the service has determined that current service references are immedi-

Note that classes that implement this interface, also act as an Event Source for (sub)interface(s) of *java.beans.PropertyChangeListener*, and are required to update their state

Setting and getting the value of the *Locale* on the