

# EJB Control Tutorial

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## 1. Tutorial Overview

The EJB Control is an extensible control, and you do not use it directly. To create an EJB control for an EJB, you would create a control extending the EJB Control. An extended EJB control can only represent one EJB, so you must create one for each EJB.

## 2. Extending the EJB control

1. Create a Java interface extending the appropriate EJB Control interface. If the EJB is a session bean, you must extend `org.apache.beehive.controls.system.ejb.SessionEJBControl`, or if it is an entity bean, extend `org.apache.beehive.controls.system.ejb.EntityEJBControl`.
2. Annotate the Java interface with `@ControlExtension` (`org.apache.beehive.controls.api.bean.ControlExtension`), so the Control Annotation Processor will know that the Java interface is a control extension.
3. Have the Java interface also extend the EJB's home and business interfaces. The business interface may either be the EJB's local interface or the remote interface.
4. Specify how the EJB control should lookup the EJB. To lookup the EJB by its JNDI name, set the EJB control's `@EJBHome.jndiName` annotation to the EJB's JNDI name. To lookup the EJB using an EJB link, set the EJB control's `@EJBHome.ejbLink` annotation to the name of the EJB link. (see Annotation).
5. If the EJB control uses JNDI to look up an EJB, you may optionally specify the JNDI context environment properties using the `@JNDIContextEnv` annotation (see Annotation).

## 3. EJB Control Extension Example

```
package org.apache.beehive.controls.system.ejb.sample.control;

import org.apache.beehive.controls.api.bean.ControlExtension;
import org.apache.beehive.controls.system.ejb.SessionEJBControl;
import org.apache.beehive.controls.system.ejb.EJBControl.EJBHome;
import org.apache.beehive.controls.system.ejb.EJBControl.JNDIContextEnv;
import org.apache.beehive.controls.system.ejb.sample.bean.HelloHome;
import org.apache.beehive.controls.system.ejb.sample.bean.HelloRemote;

@ControlExtension
@EJBHome(
    jndiName="org.apache.beehive.controls.system.ejb.sample.HelloHome")
@JNDIContextEnv(
    contextFactory="weblogic.jndi.WLInitialContextFactory",
    providerURL="t3://localhost:7001",
    principal="weblogic",
    credentials="weblogic")
```

## *EJB Control Tutorial*

```
public interface HelloEJBControl
    extends SessionEJBControl, HelloHome, HelloRemote
{
}
```

This code is part of the EJB Control samples that is available in the samples directory of the Beehive source tree.