Introduction to Session beans

EJB - continued

Local Interface

```
/**
  * This is the HelloBean local interface.

* This interface is what local clients operate
  * on when they interact with EJB local objects.

* The container vendor will implement this
  * interface; the implemented object is the

* EJB local object, which delegates invocations
  * to the actual bean.

*/
public interface HelloLocal extends javax.ejb.EJBLocalObject
{
  /**
  * The one method - hello - returns a greeting to the client.
  */
  public String hello();
```

May throw
EJBException
instead of
RemoteException

Local Home Interface

```
/**
* This is the home interface for HelloBean. This interface
* is implemented by the EJB Server's tools - the
* implemented object is called the Home Object, and serves
* as a factory for EJB Objects.
* One create() method is in this Home Interface, which
* corresponds to the ejbCreate() method in HelloBean.
*/
public interface HelloLocalHome extends javax.ejb.EJBLocalHome
/*
* This method creates the EJB Object.
* @return The newly created EJB Object.
*/
 HelloLocal create() throws javax.ejb.CreateException;
```

Local Client

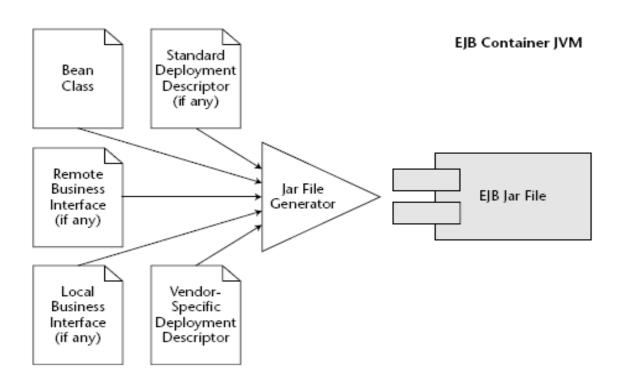
We looked up a bean in *java:comp/env/ejb*. This is the JNDI location that the EJB specification recommends (but does not require) you put beans that are referenced from other beans.

Bean Implementation

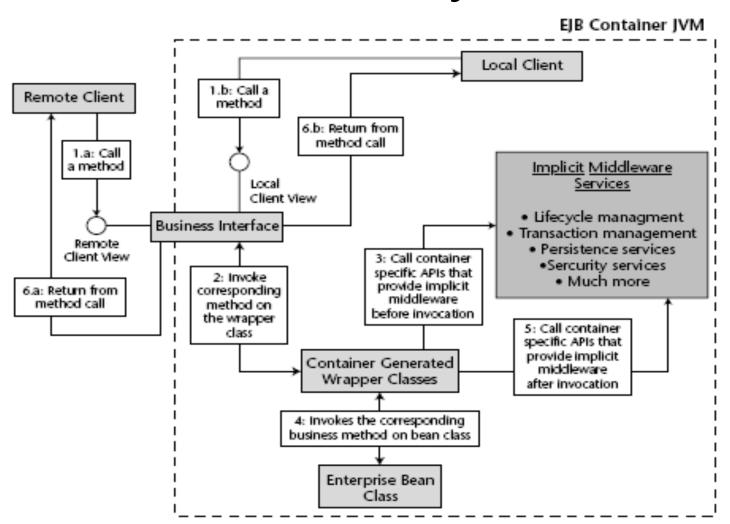
```
package examples.session.stateless;
import javax.ejb.Local; import javax.ejb.Stateless;
@Stateless
@Local(Hello.class)
public class HelloBean implements Hello {
    public String hello() {
        System.out.println("hello()"); return "Hello, World!";
    }
}
```

enterprise bean instance

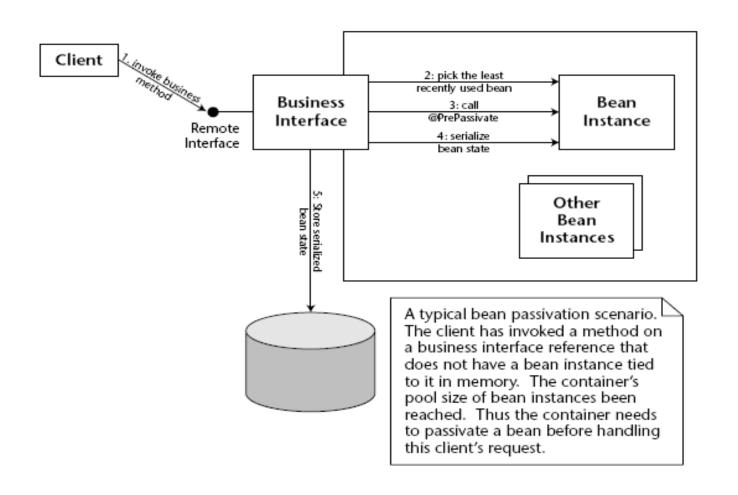
3.0 Packaging



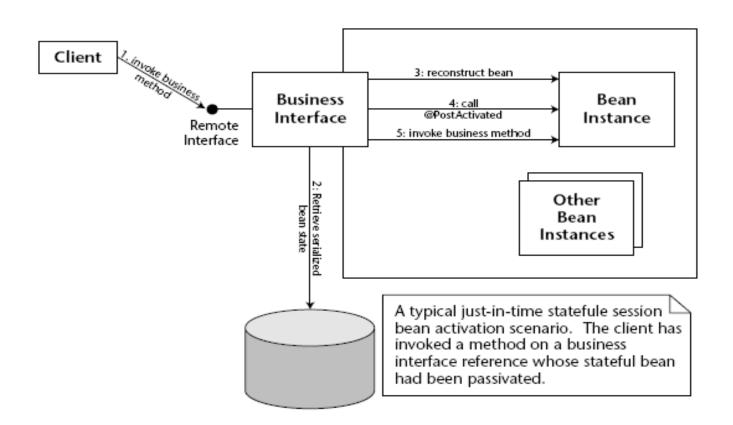
3.0 Lifecycle



Passivation



Activation



Managing the lifecycle – 3.0

```
@Stateful
public class MyBean {
    @PrePassivate
        public void passivate() {
        <close socket connections, etc...>
      }
      ...
@PostActivate
      public void activate() {
        <open socket connections, etc...>
      }
      ...
}
```