# Middleware Technologies [MCA II Yr, Anna University] by Roy Antony Arnold

## **Roles in EJB**

April 3, 2008 at 12:06 pm (EJB, Unit 2) (EJB)

#### Roles in EJB

• EJB specification gives a clear description of each of these roles and their associated responsibilities.

#### a) Enterprise Bean Provider

- It is the person or group that writes and packages EJBs.
- It might be a third-party vendor of EJB components, or it might be an information systems programmer who writes EJBs to implement their company's business logic.
- Because the container must provide transaction and network communication support, the enterprise bean provider does not need to be an expert at low-level system programming, networking or transaction processing.
- The end product is an ejb-jar file, which contains the Enterprise bean, its supporting classes, and information that describes how to deploy the bean.

## b) Deployer

- The deployer takes an ejb-jar file and installs it into an EJB container.
- The deployer's task begins with the receipt of an ejb-jar file, and ends with the installation of the ejb-jar file in the container.
- This task is typically handled by the *System Administrator* in MIS world.

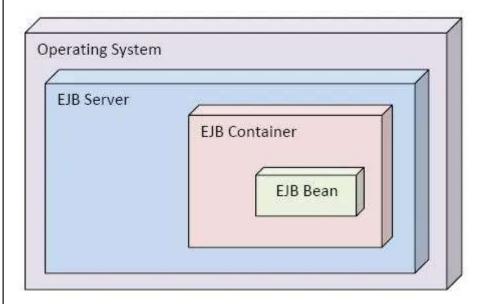
#### c) Application Assembler

- An application assembler builds applications using EJBs classes.
- An MIS programmer may purchase a prepackaged set of EJBs that implement an accounting system.
- Then the programmer might use tools to customize the beans.
- The application assembler might also need to provide a user-interface client program.
- This role is roughly analogous to that of a *Systems Integrator* in the MIS world.

#### d) EJB Server Provider

- An EJB Server Provider provides a server that can contain EJB containers.
- The EJB 1.0 specification does not describe the interface between the server and the container, so the EJB server provider and the EJB container provider will likely be one and the same for any given product.

- The diagram shows the relationships among the EJB server, the EJB container, and the EJB bean.
- An EJB server provides services to an EJB container and an EJB container provides services to an Enterprise Java Bean.
- The role of the EJB server provider is similar to that of a database system vendor.



### e) EJB Container Provider

- An EJB container is the world in which an EJB bean lives.
- The container services requests from the EJB, forwards requests from the client to the EJB, and interacts with the EJB server.
- The container provider must provide transaction support, security and persistence to beans.
- It is also responsible for running the beans and for ensuring that the beans are protected from the outside world.

#### f) System Administrator

- System Administrators are responsible for the day-to-day operation of the EJB server.
- Their responsibilities include keeping security information up-to-date and monitoring the performance of the server.

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