

Enterprise JavaBeans™ EJB 3.0

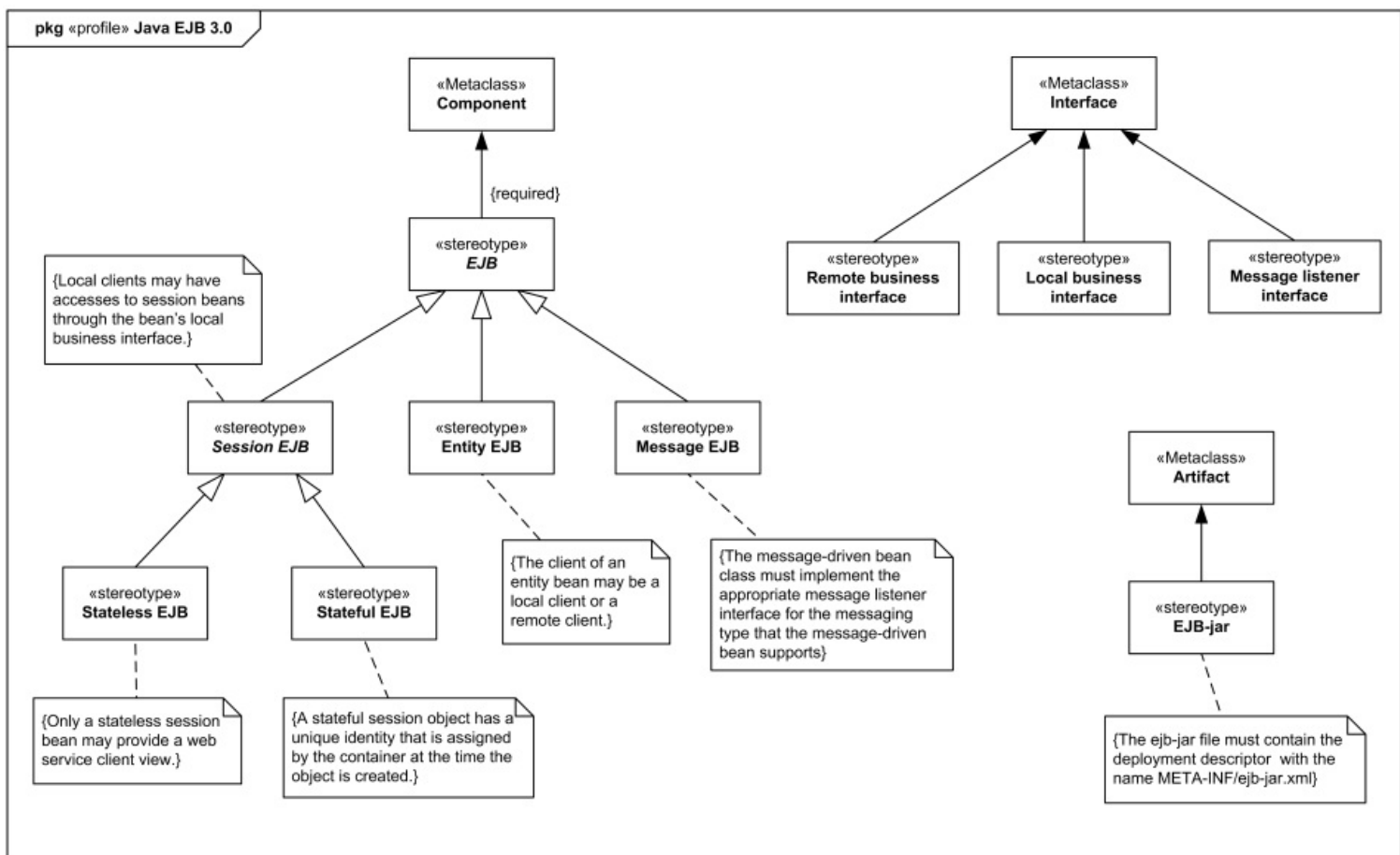
UML Profile Diagram Example

Here we provide an example of simplified and unofficial **UML Profile for Enterprise JavaBeans™ (EJB) 3.0** with support for session, entity, and message-driven Enterprise JavaBeans.

Official **Metamodel and UML Profile for Java and EJB Specification**, Version 1.0 by OMG and JCP [\[UML Profile for Java and EJB, Version 1.0\]](#) is for **Java 1.3**, **EJB 1.1** and most likely **UML 1.4**, so it could be only of some interest to bookworms.

UML 2.4 specification [\[UML 2.4 - Superstructure\]](#) provides example profile for unspecified version of J2EE/Enterprise Java Beans (EJB) in Annex D.1. That UML sample profile is neither normative (official) nor complete, and is provided only as an illustration.

The **EJB 3.0** specification defines both stateful and stateless session beans. There are differences in the API between stateful session beans and stateless session beans. The client of a session bean may be a local client, a remote client, or a web service client, depending on the interface provided by the bean and used by the client.



Simplified example of unofficial Java EJB 3.0 Profile

Stateful session bean represents a conversational session with a particular client. Such session objects automatically maintain their conversational state across multiple client-invoked methods.

An entity object represents a fine-grained persistent object. The client of an entity bean may be a local client or the client may be a remote client.

The message-driven bean class must implement the appropriate message listener interface for the messaging type that the message-driven bean supports or specify the message listener interface using the MessageDriven metadata annotation or the messaging-type deployment descriptor element.

The ejb-jar file must contain the deployment descriptor in the format defined in EJB Specification. The deployment descriptor must be stored with the name META-INF/ejb-jar.xml

Noticed a spelling error? Select the text using the mouse and press Ctrl + Enter.



This document describes **UML 2.5** and is based on **OMG™ Unified Modeling Language™ (OMG UML®) 2.5** specification *[UML 2.5 FTF - Beta 1]*.

All UML diagrams were created in **Microsoft Visio** 2007-2016 using *UML 2.2 stencils*. You can send your comments and suggestions to [webmaster](mailto:webmaster@uml-diagrams.org) at webmaster@uml-diagrams.org.

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