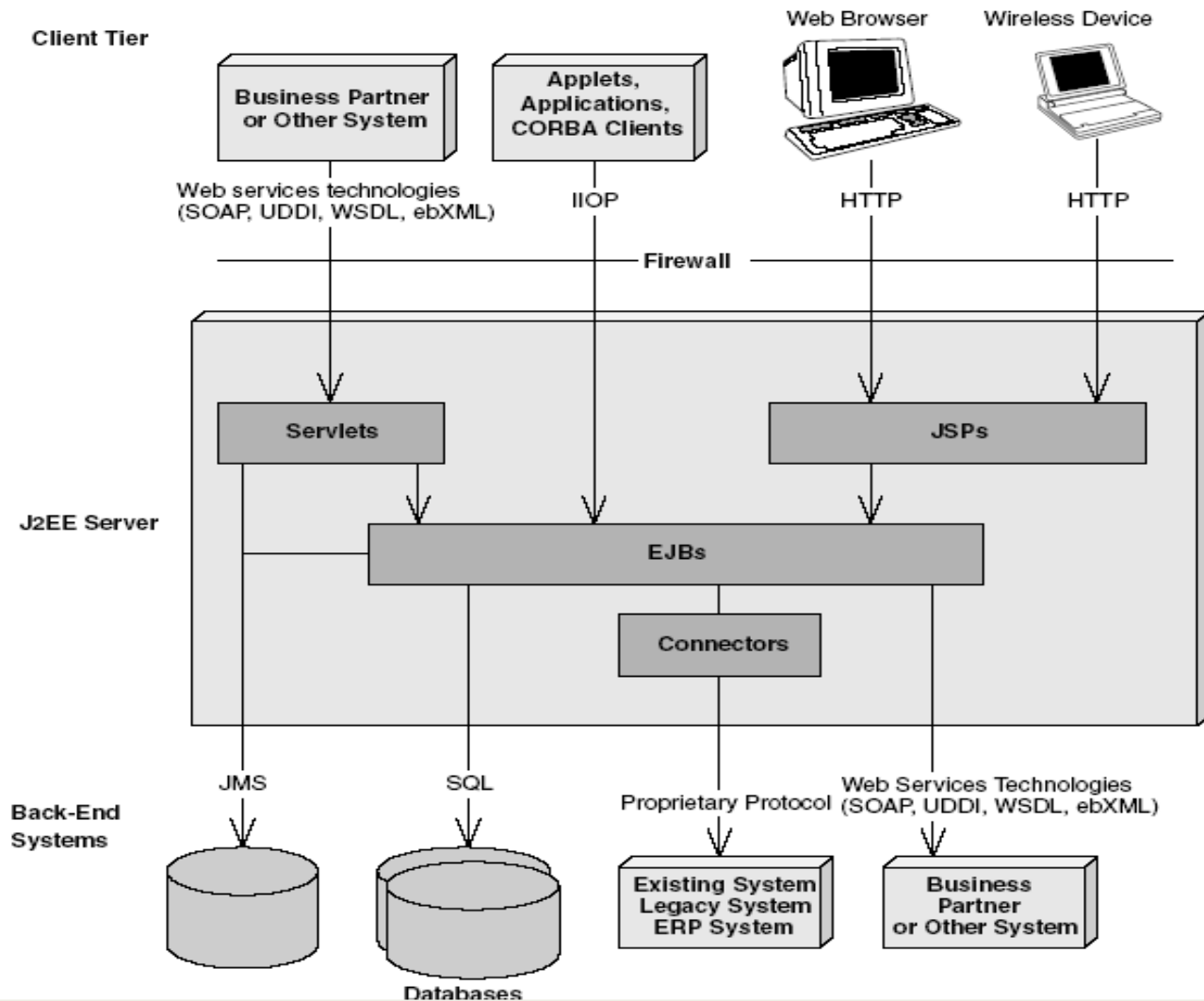# Enterprise Java Bean

Objectives

- Define EJB

- Define EJB container

- Define different types of EJB

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What is EJB?

- Enterprise Java Bean is a standard for developing and deploying server side distributed components written in Java.

- EJBs are meant to perform server-side operations,

    - such as executing complex algorithms

    - performing highly transactional business operations.

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EJB usage in enterprise application
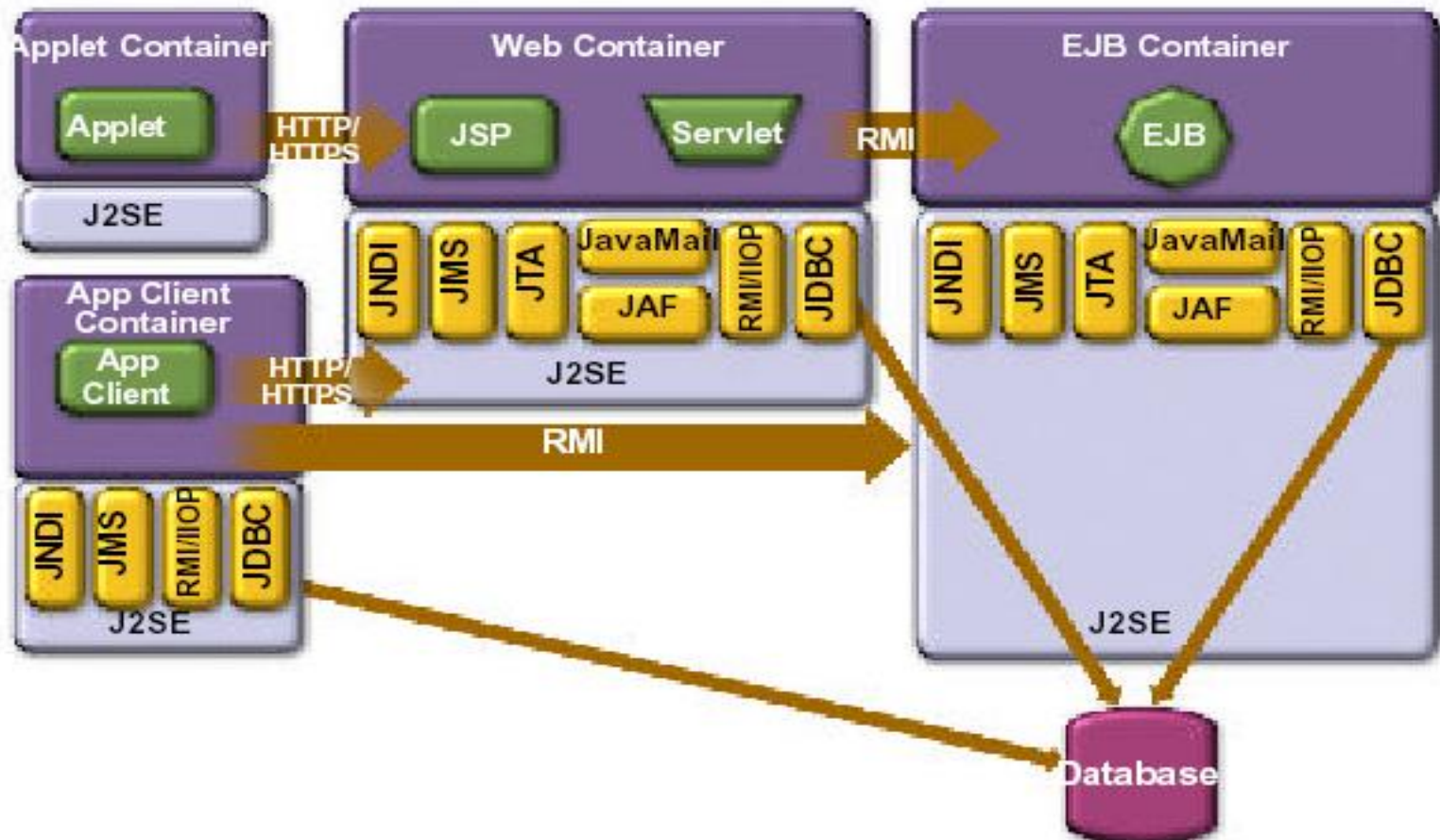
Why use EJB?

- Simplifies development: EJB container provides system level services

- Business rules encapsulated in EJB allows client developers to concentrate on presentation and provide very thin clients

- New apps can easily be assembled from existing EJB's (promotes code re-use)

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When to use them?

- Scalable application needs

  - High user count

  - Distributed application (multiple systems at multiple locations)

  - Location transparency

- Transaction management needed for data integrity

- Heterogeneous clients support

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Where do they live?

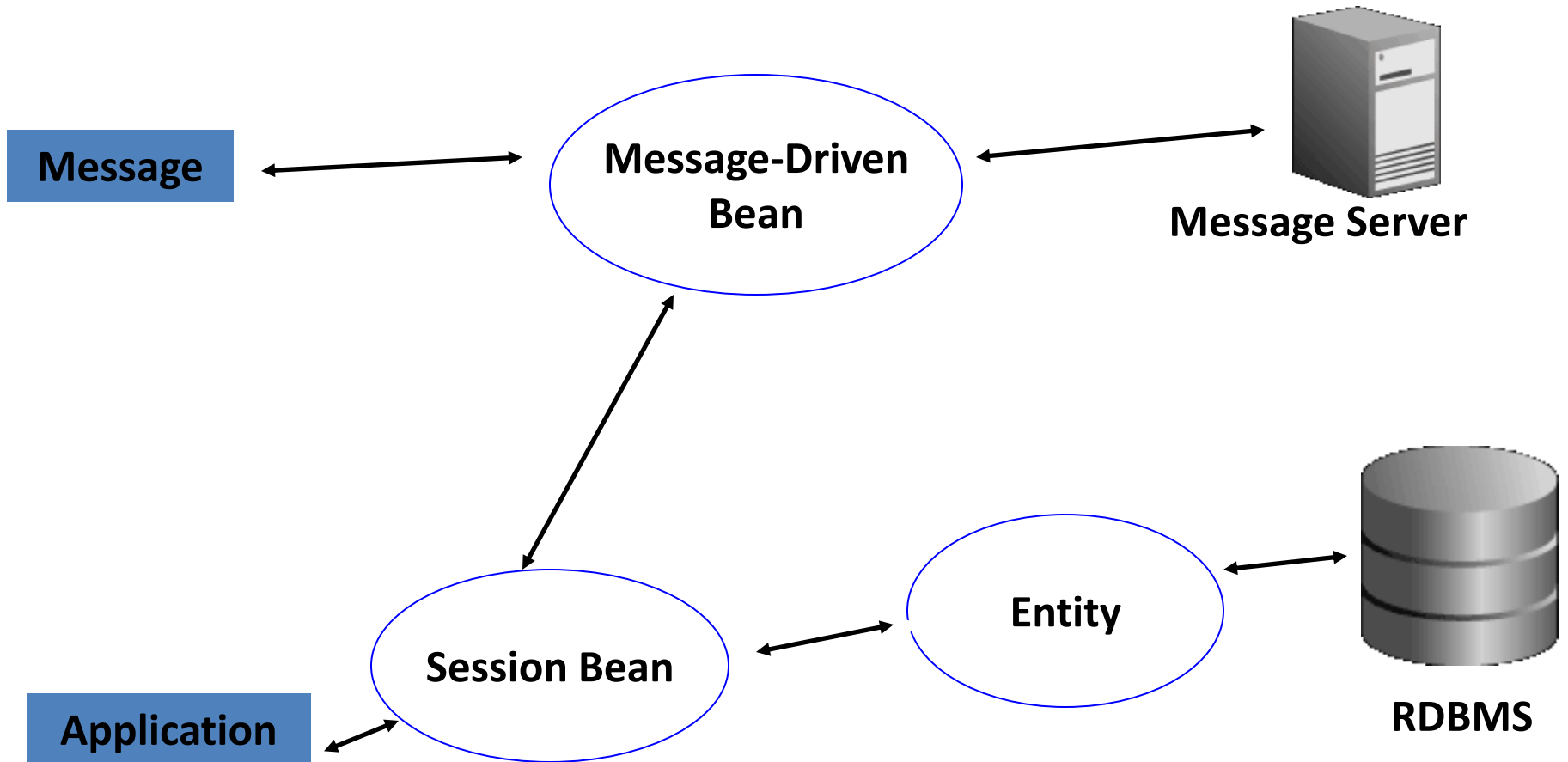J2EE Containers & Components

EJB Container

- Managed environment for the execution of components

- Container interposes to provide services

- Container-provided services

  - Concurrency

  - Transactions

  - Security

  - Distributed

  - Resource pooling
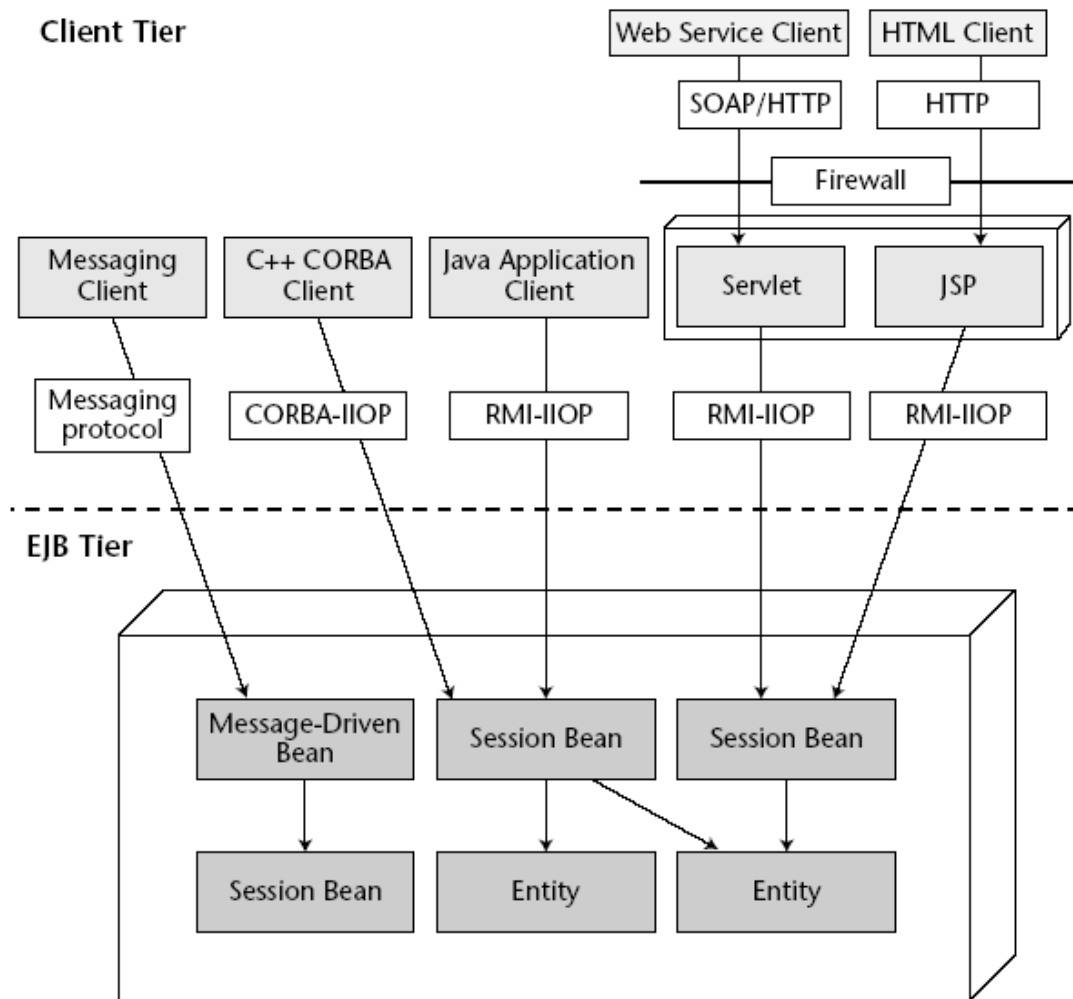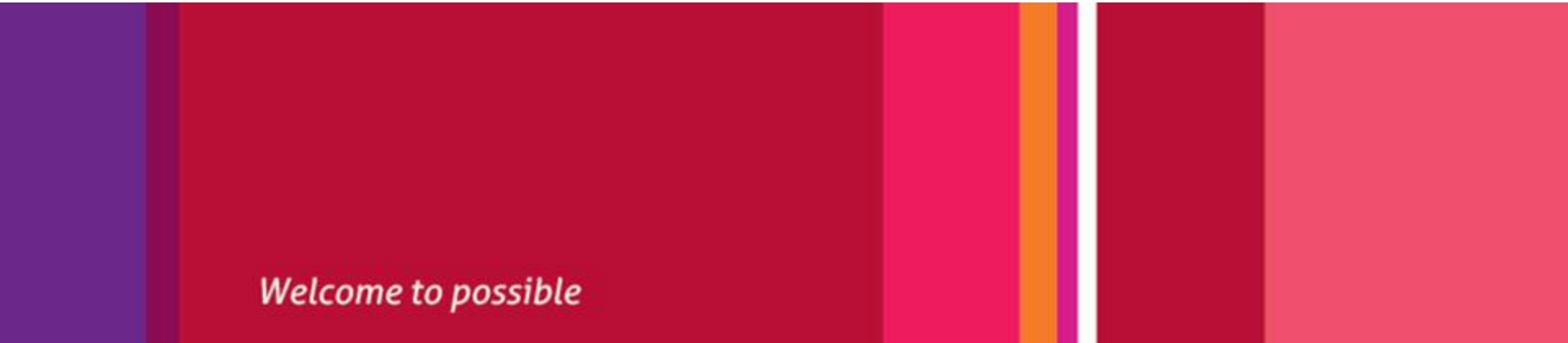
  - Persistance

  - EIS Integration

Types of EJBs

EJB Type	Purpose
Session Beans	Performs a business task for a client
Entity	Represents a business object that exists in a database
Message-Driven Beans	Receives asynchronous Java Message Service (JMS) messages

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Types of EJB

Different types of EJBs used in enterprise application

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