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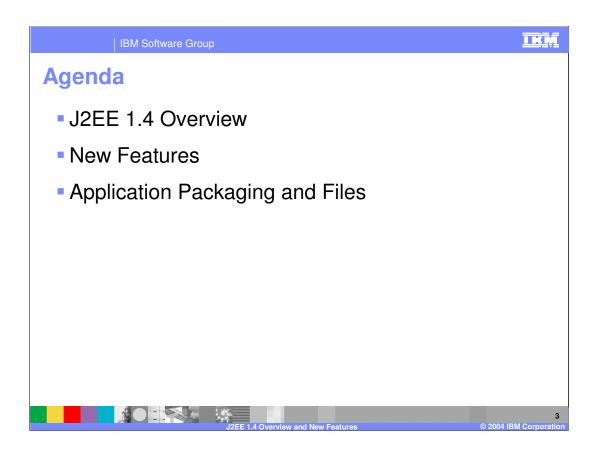
IBM® WebSphere® Application Server V6

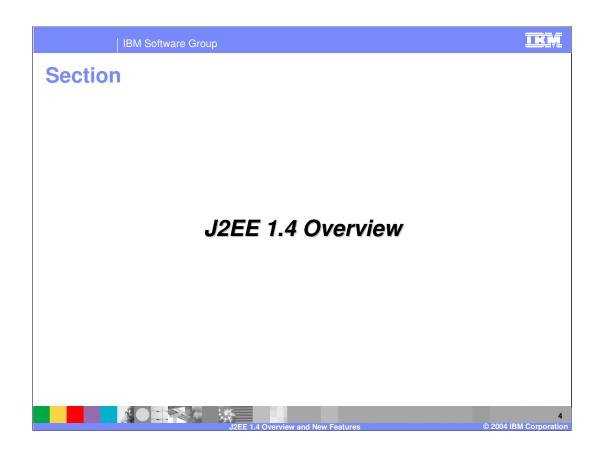
Java[™] 2 Enterprise Edition (J2EE) 1.4 Overview and New Features

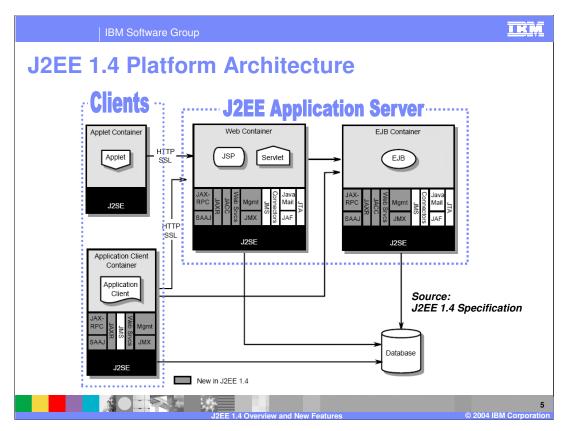


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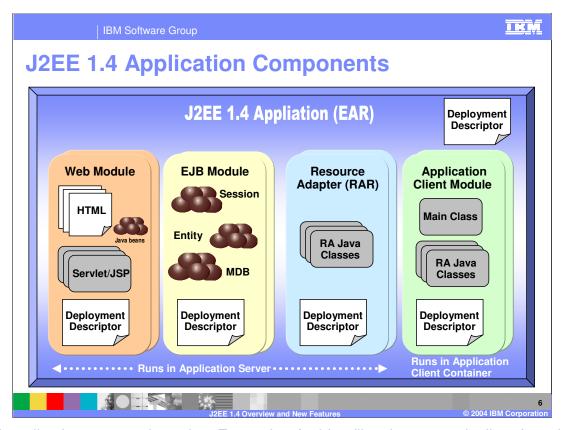
The diagram shown on this slide appears in the J2EE 1.4 specification document found at the following URL http://www.jcp.org/en/jsr/all.

The J2EE platform offers a component-based model for building distributed, multi-tiered enterprise applications. Each application is typically made up of one or more J2EE components that work together in a distributed environment. The types of components that can make up a J2EE based application are:

Client tier components (Application Clients and Applets) – Run on a client machine Web Components (Servlets and JSPs) – Run in the Web Container within the Application Server

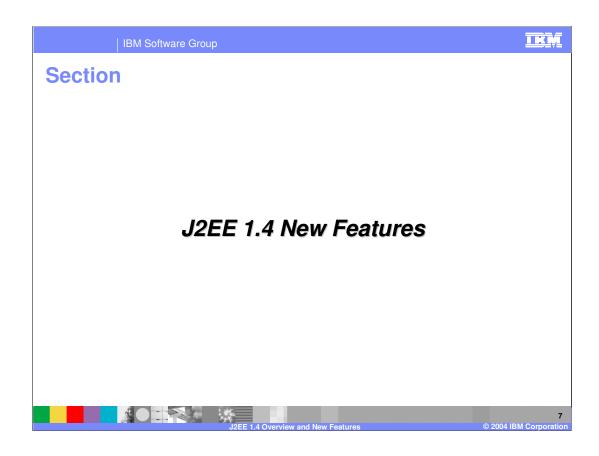
Business Components (EJBs) – Run in the EJB Container within the Application Server

Each container shown in this diagram shows the type of application component that it supports, along with services that are available to the components by the container to support various application functions.



J2EE applications are packaged as Enterprise Archive files that are typically referred to as EAR files (these files have a .ear extension). Each ear file contains a deployment descriptor along with one or more J2EE modules. Each module groups one or more application components that are of the same type, along with a deployment descriptor for that module.

For example, a Web module is packaged in a Web Archive file (WAR file), and contains Web components such as JSP and Servlets along with a deployment descriptor for that module.



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J2EE 1.4 New Features Overview

- Deployment Descriptors
 - Defined as XML schemas instead of DTDs
- Enterprise JavaBeans 2.1 new features
 - ▶ EJB Timer Service
 - ▶ Enhancements to EJB query language (EJB-QL)
 - Support for Web Services
 - ▶ Extended Message-Driven beans (MDBs)

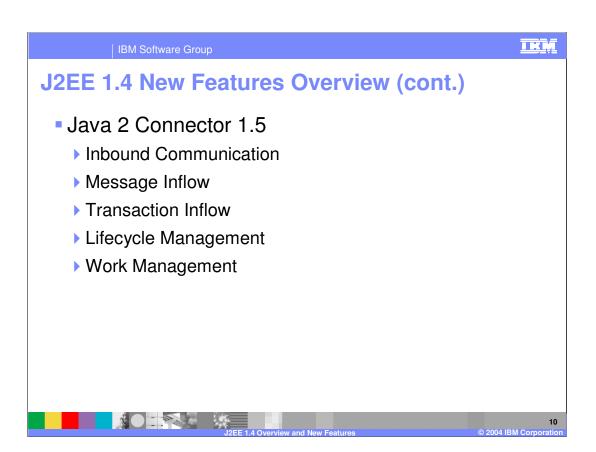


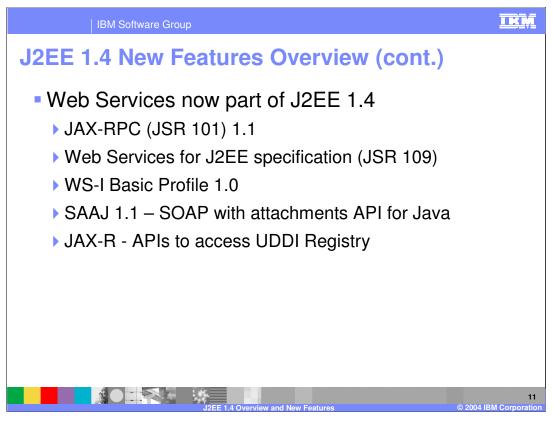
J2EE 1.4 New Features Overview (cont.)

Servlet 2.4

New HTTP Request Listeners
Enhancements to Filters
Request Dispatcher
Listeners
Sessions
Internationalization

JavaServer Pages (JSP) 2.0
Expression Language
Improved Tag support

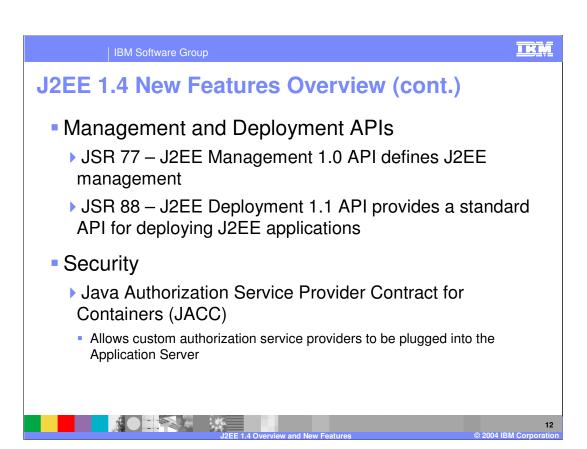




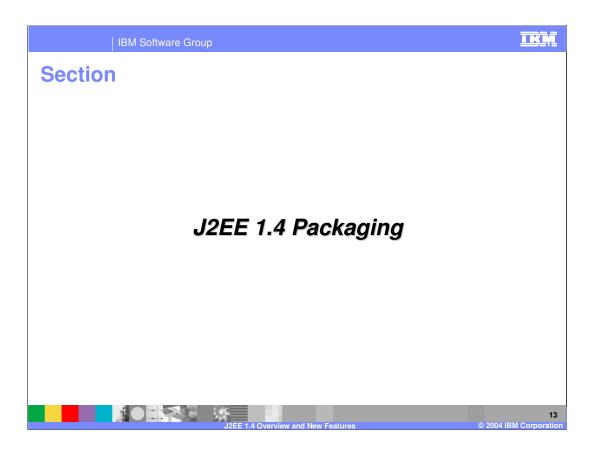
JSR 101 - Provides standard programming model for interoperable Web Services based on accepted standards such as SOAP and WSDL.

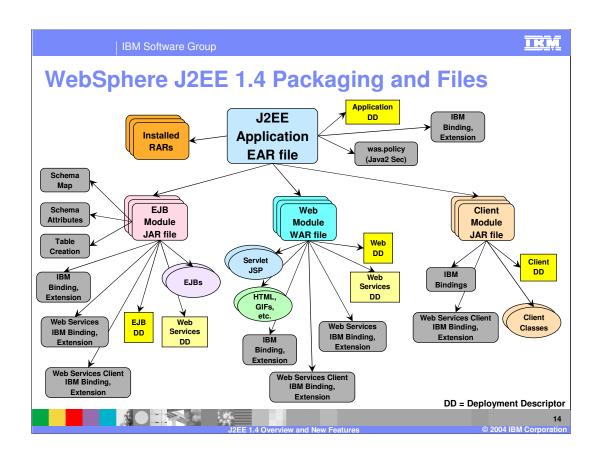
JSR 109 - Provides standard deployment model of Web Services application within a J2EE Application Server

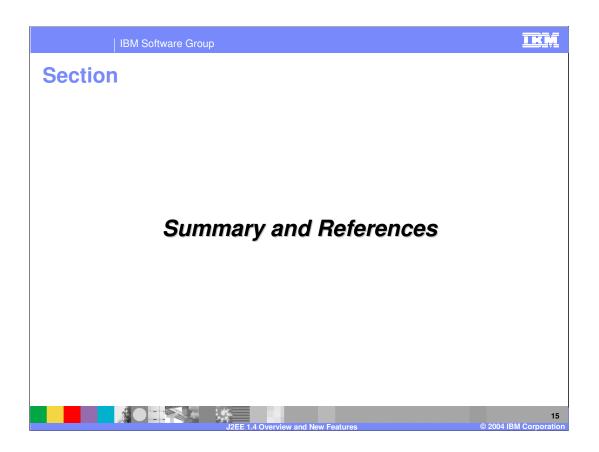
WS-I Basic Profile 1.0 - - provides interoperability in a heterogeneous environment SAAJ - Allows attachments which are passed in a SOAP call to be accessed from Java



Our recommendation is to continue using our command line scripting "wsadmin" which is more powerful than these APIs





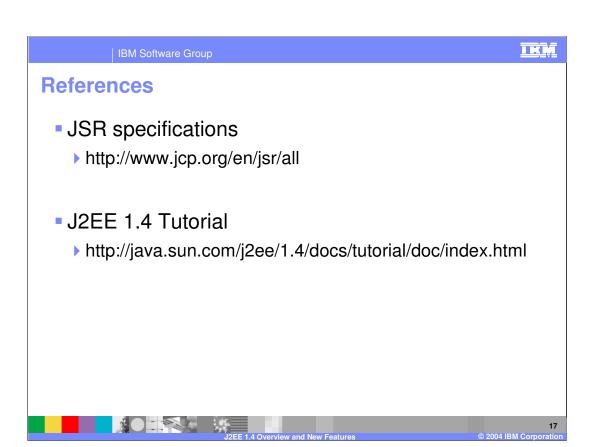


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Summary

- Inclusion of Web Services support is a significant addition to J2EE 1.4
- Management and deployment APIs are now part of the J2EE 1.4 specification
- Several new functions added to existing J2EE based technologies







Template Revision: 11/02/2004 5:50 PM

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