



Java EE 6 Update

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Agenda

- What's new in Java EE 6?
- Platform components
- Web Profile components
- Schedule

What's New in Java EE 6?

- Profiles
- Extensibility
- Pruning
- Dependency Injection
- Asynchronous Servlet API
- EJB Lite
- Lots of ease-of-development work

Profiles

- Ability to address the needs of a class of applications
- Features and schedule decoupled from the platform
- General rules defined by the platform spec
- Individual profiles defined in their own JSRs
 - > Except Web Profile done by the platform EG
- Web Profile ready to go
 - > “mid-size modern web app stack usable out of the box”

Extensibility

- Focus is on the web tier in this release
- Embrace third-party libraries and frameworks
- “Drop a jar in WEB-INF/lib and you're done”
- Tested with a number of frameworks:
 - > JSP, JSF, JAX-RS, JAX-WS/JSR-109, JRuby/Rails, Atmosphere
- Another ingredient: JSR-299 SPI

Pruning

- Ability to make some technologies optional
- Two releases to become effective
- Marked “proposed optional” in this release:
 - > JAX-RPC, EJB entity beans, JAXR, JSR-88
- Very important as proof of our commitment to shrink the platform and to fix our mistakes

Ease of Development in the Web Tier

- Annotation-based model e.g. @WebServlet
- JAX-RS for RESTful web services
- web.xml fragments
- Web resources in jar files
- Additions to the EL
- Facelets standardized in JSF
- Bean Validation API
- JSR-299 for state management in web apps

Ease of Development in EJB/JPA

- EJB no-interface model
- EJB Singletons
- Embeddable EJB container and EJB Lite
- EJB components inside a web app
- Standard global JNDI names for inter-app references
- Criteria API in JPA
- Bean validation API integrated with JPA

Component Model Refactoring

- Managed beans as a foundation
- Dependency injection annotations
- Scope annotations
- Interceptor facility across all managed beans
- Existing component either are already or can become managed beans
- More services to apply uniformly in the future

Platform Components **STATUS**

- EJB 3.1 **PFD**
- JPA 2.0 **PFD**
- Servlet 3.0 **PFD**
- JSF 2.0 **DONE**
- JAX-RS 1.1 **MR OCT**
- Platform 6.0 **PFD SOON**
 - > Platform spec proper
 - > Managed Beans
 - > Web Profile
- Connectors 1.6 **PFD**
- JSR-299 1.0 **PFD2 SOON**
- Bean Validation 1.0 **PFD**
- JAX-WS 2.2 **MR2 SOON**
- JSP 2.2 **MR DONE**
- EL 2.2 **MR DONE**
- JSR-250 1.1 **MR OCT**
- JSR-330 1.0 **PR**

Web Profile Components **NEW OR UPDATED**

- Servlet 3.0 **JSR**
- JSP 2.2 **MR**
- EL 2.2 **MR**
- JSR-45 1.0
- JSTL 1.2
- JSF 2.0 **JSR**
- JSR-250 1.1 **MR**
- JTA 1.1
- EJB 3.1 Lite **JSR**
- JPA 2.0 **JSR**
- Bean Validation 1.0 **JSR**
- Managed Beans 1.0 **JSR**
- Interceptors 1.1 **JSR**
- JSR-299 1.0 **JSR**
- JSR-330 1.0 **JSR**

Schedule

- All JSRs run under JCP 2.7
- Phase 1
 - > JSR-330: ballot 9/29 - 10/12
- Phase 2
 - > Specs with standalone RI and TCK + MRs
 - > JSR-299, JPA, Bean Validation: ballot 10/20-11/2
- Phase 3
 - > Remaining specs
 - > EJB, Servlet, Connectors, Platform: ballot 11/3-11/16
- Final posting after Phase 3 on 11/24



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