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

- EJB 3.1
- JPA 2.0
- Servlet 3.0
- JSF 2.0
- JAX-RS 1.1
- Platform 6.0
  - Platform spec proper
  - Managed Beans
  - Web Profile

- Connectors 1.6
- JSR-299 1.0
- Bean Validation 1.0
- JAX-WS 2.2
- JSP 2.2
- EL 2.2
- JSR-250 1.1
- JSR-330 1.0

**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
- 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

- Servlet 3.0
- JSP 2.2
- EL 2.2
- JSR-45 1.0
- JSTL 1.2
- JSF 2.0
- JSR-250 1.1
- JTA 1.1

- EJB 3.1 Lite
- JPA 2.0
- Bean Validation 1.0
- Managed Beans 1.0
- Interceptors 1.1
- JSR-299 1.0
- JSR-330 1.0
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