EE4J and EE.Next
Status Update for JCP EC

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Agenda

• What was announced at JavaOne?
• Current status and development plans
• Futures:
  – Specification process
  – Working group governance
Call to Action

• Become a Member of the Eclipse Foundation
• Help us define the new spec process
  – Make sure your requirements are met
• Contribute to the EE4J open source projects that care about....spec, TCK, or RI
• Join the working group
Eclipse Enterprise for Java (EE4J)
Moving Java EE to Eclipse Foundation

Join the discussion at ee4j-community@eclipse.org
Eclipse Enterprise for Java (EE4J)
Project Overview

• Open process
• Collaboration: community, vendors, Eclipse
• Transition to EE4J in CY2018
  – GlassFish 5.0/Java EE 8 RIs, TCKs, product docs
  – Process for existing and new specs
  – Compatibility process
• Technology evolution, MicroProfile integration
• Oracle Java EE Support through Java EE 8
  – Continuity for Java EE community
Project Overview – Additional Detail

- Relicense Oracle Java EE 8 and GlassFish 5.0 technologies to EE4J - RIs, TCKs, and product docs
- Build a compatible EE4J implementation that passes existing Java EE 8 TCKs
- Use existing javax package names, and component specification names for existing JSRs for continuity
- Define a process by which existing specifications can evolve, and new specifications can be included in the platform
- Recruit developers, vendors and other community members as sponsors – Oracle no longer the platform “Spec lead”
- Evolve the platform and potentially incorporate Eclipse MicroProfile technologies
- Begin the above ASAP after Java EE 8 delivery to facilitate a rapid transition
Key Principles and Assumptions

• Open, Transparent, Meritocracy, Community-Driven
• Compatibility
  – Key to Java EE’s historical success
  – Driven by brand. Access to brand allowed only by compliance
  – The Spec+RI+TCK combination has value
• Innovation
  – Future focus is on ensuring Java’s future as a cloud native language and platform
• Sustainability
• Agility
  – Just enough process
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Update Since JavaOne

• Published and Approved Top Level Charter
• Formed Eclipse Project Management Committee
• Building the EE4J community
• Transferred GlassFish-related project trademarks to Eclipse
• Begun process of contributing GlassFish sources
• Guidelines on use of JCP for existing Java EE Specs
• Beginning formation of Working Group
Building the EE4J Community

Community and Vendors

Technology

Sponsorship

Enterprise for Java

✓ Agile
✓ Flexible
✓ Open
✓ Compatible

Active discussions at ee4j-community@eclipse.org
GlassFish Contribution Process

180+ Repositories

Review Repo, Update License Zip

Zip

Project Trademarks

Create Projects, Repos

Submit Sources

Scan, Push

Grizzly
Jersey
Mojarra

OpenMQ
JAX-RS
JMS

JSON-P
WebSckt
Tyrus

Yasson
EclipseLink
[Project N]

Eclipse Enterprise for Java
Progress Report Card

✓ Contribute Oracle Java EE 8 technologies and GlassFish 5.0 technologies to EE4J - RIs, TCKs, and product docs (in process)
✓ Build a compatible EE4J implementation that passes existing Java EE 8 TCKs (in process)
✓ Use existing javax package names, and component specification names for existing JSRs for continuity (in process)
❑ Define a process by which existing specifications can evolve, and new specifications can be included in the platform (Begin in Q1)
✓ Recruit developers, vendors and other community members as sponsors – Oracle no longer the platform “Spec lead” (in process)
❑ Evolve the platform and potentially incorporate Eclipse MicroProfile technologies (remains intent, not yet initiated)
✓ Begin the above ASAP after Java EE 8 delivery to facilitate a rapid transition (in process)
EE4J: Behind the scenes efforts

• Eclipse Enterprise for Java (EE4J) top-level project approved by Board and created
• Moved EclipseLink and Yasson there
• First nine projects are live
  – Created
  – Provisioned
  – 7/9 with code, several running builds
  – IP reviews on-going
• Second batch of projects coming (JSON-B API, JavaMail, JAX-B, JAX-WS...)
• Negotiated and executed trademark assignment agreement with Oracle
  – Transferring all existing project names to Eclipse (Glassfish, Jersey, etc.)
EE4J Rollout Approach

- Initial Source Contributions
- Java EE 8 Certified
- TCK Contributions
- Working Group/Spec Process
- New Projects
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Some Key Points

- Code first, rather than spec first innovation
- Specs + TCK + RI
- Compatibility still matters
- No “Spec Lead” (e.g. no more central control of IP by Sun/Oracle)
- Lighter-weight processes for specs, defining profiles, etc.
- This is about the future, not just the legacy
“EE.Next” Working Group

- Member driven
- Governance, budgeting
- Specification process defined
- Specifications approved and adopted
- Brand creation and marketing
- Brand compliance and enforcement
- Spec licensing

Eclipse Enterprise for Java (EE4J)

- Developer driven
- Open source code and TCKs
- EPLv2 w/ GPL-CE license
- Meritocracy
- Agile, rapid innovation
- Specifications created for IC approval and adoption
- Processes defined by the Eclipse Development Process and IP Policy
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Implemented as an Eclipse Working Group, with its own charter and steering committee

Final Specs and TCKs

RI, TCK, Specs
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- This is the new brand
- Does not need to use “Eclipse” in the name

- This is the Eclipse project name, which is separate from the brand
- Similar to “Java EE” vs “Glassfish”
- An Eclipse Top-Level Project with its own charter.
- Note that this project can contain projects which are not part of the current specification process. Agility and innovation should happen before the specification process kicks in. In fact, we would like to establish a convention that nothing can enter the spec process without an existing open source implementation with a license compatible with EPL-2.0.

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- Specs are developed by Eclipse open source projects using open source rules of engagement
- **No Spec Lead** with special IP rights
- Output is a specification document
- Process TBD, but lighter weight than JCP
- Those orgs involved in the Spec process must be Members. Individuals can participate as well.
“EE.Next” Working Group

- Member driven
- Governance, budgeting
- RI and TCKs are implemented as OSS and can be used by anyone
- Final, versioned, and checksummed TCKs delivered to the IC for use in compliance and branding

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Final Specs and TCKs

RI, TCK, Specs

- The key success factor will be in making this consortia sustainable for the long term
- Sustainable funding will be necessary to ensure success
- The EE.Next Steering Committee will determine budgets and funding in conjunction with Eclipse Foundation staff
- Recruitment of companies interested in the success and longevity of Java EE will be necessary as well

Processes defined by the Eclipse Development Process and IP Policy

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Creating a New Brand

• Open community process underway to select a new brand to replace “Java EE”
• Discussions ongoing on creating an Eclipse working group for member-led governance of specifications, brand, etc.
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