Jakarta EE Community and the JAX-RS Team

Kevin Sutter, Jakarta EE (EE4J) PMC
Markus Karg, JAX-RS Lead Developer
Abstract

**Jakarta EE Community With JAX-RS Team**
Markus Karg (Head Crashing Informatics)
Kevin Sutter (IBM)

The Jakarta EE Community is still finding its wings. But, that's not stopping the JAX-RS team. This team was the first Jakarta EE component out of the chute and ready to make waves. They tested some of the boundaries before the boundaries even existed. This session will introduce you to the Jakarta EE community and processes in general. And, you will have the opportunity to learn from one of the JAX-RS leads and their experiences.

Experience level:
Beginner
Jakarta EE Community

Kevin Sutter, Jakarta EE (EE4J) PMC
Power by Participation
Java EE Community

Oracle contributes to numerous open-source projects that involve a wide variety of technologies. Each open source project has its own vibrant community.

GlassFish Server, the Java EE Reference Implementation, has an active developer community. Follow GlassFish on these popular social media sites:

In addition, GlassFish utilizes technologies provided by related projects as shown in the project table below:

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Home</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GlassFish Server</td>
<td>javasee.github.io/glassfish</td>
<td>Java EE Reference Implementation built in open source</td>
</tr>
<tr>
<td>Open Source Edition</td>
<td>javasee.github.io/openmc</td>
<td>High quality, enterprise ready messaging, open source and a community of developers and users</td>
</tr>
<tr>
<td>Project Open MC</td>
<td>javasee.github.io/openmc</td>
<td>Jersey is the open source, production quality, JAX-RS 2.0 Reference Implementation for building RESTful Web services.</td>
</tr>
<tr>
<td>Project Jersey</td>
<td>jersey.github.io</td>
<td>Project Grizzly help developers to build scalable and robust servers using NO as well as offering extended framework components.</td>
</tr>
<tr>
<td>Project Grizzly</td>
<td>javasee.github.io/grizzly</td>
<td>Java Server Faces (JSP) Reference Implementation</td>
</tr>
<tr>
<td>JavaServer Faces</td>
<td>javaserverfaces.github.io</td>
<td>Java Server Faces (JSP) Reference Implementation</td>
</tr>
<tr>
<td>(Project Mojarra)</td>
<td></td>
<td>Metro is a high-performance, extensible, easy-to-use web service stack.</td>
</tr>
</tbody>
</table>

Join the discussion groups: javasee.groups.io
Jakarta EE Community

The New Home of Cloud Native Java
Powered by participation, Jakarta EE is focused on enabling community-driven collaboration and open innovation for the cloud.

Strategic Members
- Fujitsu
- IBM
- Oracle
- Payara
- Red Hat
- Tomitrib

Participating Members
- cloudbees
- DocuSign
- Gemalto
- Infinigate
- Liferay
- Lightbend
- <LJC>
- Microsoft
- Mizuho
- Pivotal
- RCP Systems
- SAP
- Sensei
- Vaadin

https://jakarta.ee
Jakarta EE Working Group

• “...the Jakarta EE working group will manage the specifications process related to EE4J, and will manage the Jakarta EE brand.”
  -- https://www.eclipse.org/org/workinggroups/explore.php
  ○ Jakarta EE Steering Committee
  ○ Jakarta EE Marketing Committee
  ○ Jakarta EE Specification Committee
    (https://accounts.eclipse.org/mailing-list/jakarta.ee-spec)
Specification Process

Specification Process 1.0

- Replacement for JCP Standards Process

  - https://docs.google.com/document/d/1ongNYvGvZPtrcuxA7RQNV2qBESFcAphQbzdk3pULQ5s/edit#heading=h.o84um3qsls283
  - Comments accepted until Oct 31, 2018

- Guinea Pig Spec Project
  - JNoSQL
Jakarta EE (EE4J) PMC

- “The project lead [pmc] is more of a position of responsibility than one of power.”
  -- Eclipse Project Handbook

- [https://projects.eclipse.org/projects/ee4j/pmc](https://projects.eclipse.org/projects/ee4j/pmc)
  - Ivar Grimstad,
  - David Blevins, Tomitribe
  - Mark Little, Red Hat
  - Kevin Sutter, IBM
  - Steve Millidge, Payara
  - Dmitry Kornilov, Oracle
  - Wayne Beaton, Eclipse Foundation (advisor)

- Mailing List
  - [https://accounts.eclipse.org/mailing-list/ee4j-pmc](https://accounts.eclipse.org/mailing-list/ee4j-pmc)
  - [ee4j-pmc@eclipse.org](mailto:ee4j-pmc@eclipse.org)
Jakarta EE (EE4J) Projects

Related Projects:
- Eclipse EE4J
- Eclipse GlassFish
- Eclipse Grizzly
- Eclipse Implementation of Java EE
- Eclipse Jakarta EE Platform
- Eclipse Jakarta EE TCK
- Eclipse Jersey
- Eclipse Metro
- Eclipse Mojarra
- Eclipse OpenMQ
- Eclipse ORB

- Eclipse Project for Common ...
- Eclipse Project for Concurrence...
- Eclipse Project for EJB
- Eclipse Project for Enterprise...
- Eclipse Project for Expressio...
- Eclipse Project for Intercept...
- Eclipse Project for JACC
- Eclipse Project for JAF
- Eclipse Project for JASPIC
- Eclipse Project for JavaMail
- Eclipse Project for JAX-RS
- Eclipse Project for JAX-WS
- Eclipse Project for JAXB
- Eclipse Project for JCA
- Eclipse Project for JMS

- Eclipse Project for JPA
- Eclipse Project for JSON Processor...
- Eclipse Project for JSON-B
- Eclipse Project for JSP
- Eclipse Project for JSTL
- Eclipse Project for JTA
- Eclipse Project for Servlet
- Eclipse Project for Stable Jakarta...
- Eclipse Project for WebSocket
- Eclipse Soteria
- Eclipse Tyrus
- Eclipse Yasson
- EclipseLink Project

... And More to Come
Roadmap

- [https://www.eclipse.org/ee4j/status.php](https://www.eclipse.org/ee4j/status.php)
- 20% - Project Proposed
- 40% - Project Accepted and Provisioned
- 60% - Initial Code Contribution to Eclipse
- 80% - Build / Test in Github and Jenkins
- 100% - Project has First Release!
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EE4J CI/CD Progress

https://github.com/orgs/eclipse-ee4j/projects/1
JAX-RS Community

Markus Karg, JAX-RS Lead Developer
JAX-RS API and “RI”

● API
  ○ Java API for RESTful Web Services
  ○ Top-Down / Java-Centric approach (Servlet is Bottom-Up / HTTP-Centric)
  ○ Separates business-logic from technological aspects
  ○ Not limited to web- or application servers: Runs even on pure Java SE
  ○ Annotation-based
  ○ Externally extensible (e.g. Filters, Interceptors, Parsers, Renderers, ...)
  ○ Part of Jakarta EE / Requirement of Java EE

● “RI”
  ○ JCP (JSR 311, 339, 370): Jersey
  ○ Jakarta: Eclipse Jersey, RESTEasy, Apache CXF, ...
The Past

- 2008 - JAX-RS 1.0 - (JSR 311)
- 2009 - JAX-RS 1.1 - (JSR 311)
- 2013 - JAX-RS 2.0 - (JSR 339)
- 2014 - JAX-RS 2.0 Rev. A - (JSR 339)
- 2017 - JAX-RS 2.1 - (JSR 370)
- 2018 - EF; Github; became EF committer; kick-off; checked legal and technical boundaries; helped committers enter the boat; nominated committers; discussed minimum rules; donated initial logo; frequent issue discussions; frequent PR reviews, wrote and merged first new feature (2.2), drafted project roadmap; fixed bugs; installed build pipeline; ...
- 2018 - JAX-RS 2.1.1 (javax.ws.rs-api)
- 2018 - JAX-RS 2.1.2 (jakarta.ws.rs-api)
The Future

- 2018 - JAX-RS 2.1.2 (jakarta.ws.rs-api)
- 2018 - Jakarta EE 8
- 2018 - JAX-RS 2.2 (Java SE Bootstrap)
- More governance stuff
- Leave incubator
- 2019 - JAX-RS 3.0 (incompatible changes)

..., CDI, JPMS, Flows API, Extensions SPI, Microprofile APIs, Microservices, Java 11, Cloud, Edge, ...
Join Team JAX-RS

- Give latest JAX-RS / “RI” a try
- Join discussions
- Report bugs
- Request features
- Author documentation
- Send PR on Github
Conclusion
Questions?

Evaluate the Sessions

Sign in and vote at eclipsecon.org

-1  0  +1