



JavaOne™

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# Eclipse Enterprise for Java (EE4J)

Presentation to Java Community Process  
Executive Committee

Will Lyons  
Senior Director, Oracle WebLogic Server and  
Java EE Product Management  
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JavaYourNext  
**(Cloud)**

# Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

# Java EE - Available On Premise and in the Cloud

Highly Successful, Standardized Programming Model



Cloud

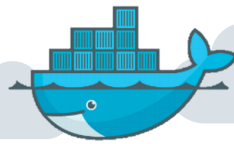


IBM Bluemix™



OPENSIFT®

by Red Hat®



ORACLE®  
Oracle Cloud PaaS

On Premise



WebSphere



redhat

Red Hat JBoss



WebLogic



## Choice of Implementations

CAUCHO J2S

NEC

WildFly

Cosminexus

OW2 Consortium

TmaxSoft

IBM

RED HAT JBOSS ENTERPRISE APPLICATION PLATFORM

SAP

ORACLE FUSION MIDDLEWARE WEBLOGIC SERVER

INFORS 中创中间件

TongTech

FUJITSU

APACHE GERONIMO

# Java EE 8 – Delivered!



Enterprise  
Java

**J2EE 1.2**  
Servlet,  
JSP, EJB,  
JMS

1999

Robustness

**J2EE 1.3**  
CMP,  
JCA

2001

Web  
Services

**J2EE 1.4**  
JAX-RPC  
Mgmt,  
Deploy-  
ment

2003

Ease of  
Development

**Java EE 5**  
Annotations,  
EJB 3.0,  
JPA, JSF,  
JAXB  
JAX-WS

2006

Lightweight

**Java EE 6**  
JAX-RS,  
CDI,  
Servlet 3.0,  
Web Profile,  
Pruning

2009

Productivity  
& HTML5

**Java EE 7**  
JAX-RS 2.0,  
JSON-P,  
WebSocket,  
JMS 2.0,  
Batch

2013

Modernization,  
Simplification

**Java EE 8**  
Servlet 4.0,  
JAX-RS 2.1,  
JSON-B  
JSON-P 1.1,  
Security

2017

# However, Java EE Process Perception Issues

- Despite success, questions linger – is the process...
  - Nimble, keeping pace with industry innovation
  - Flexible, for example licensing terms
  - Open, perception of Oracle as primary player
- Public disagreement and controversy
  - Vendors
  - Community members
  - Press
- We want to address these concerns in a positive manner

# Eclipse Enterprise for Java - EE4J

## Moving Java EE to Eclipse Foundation



Community  
and  
Vendors

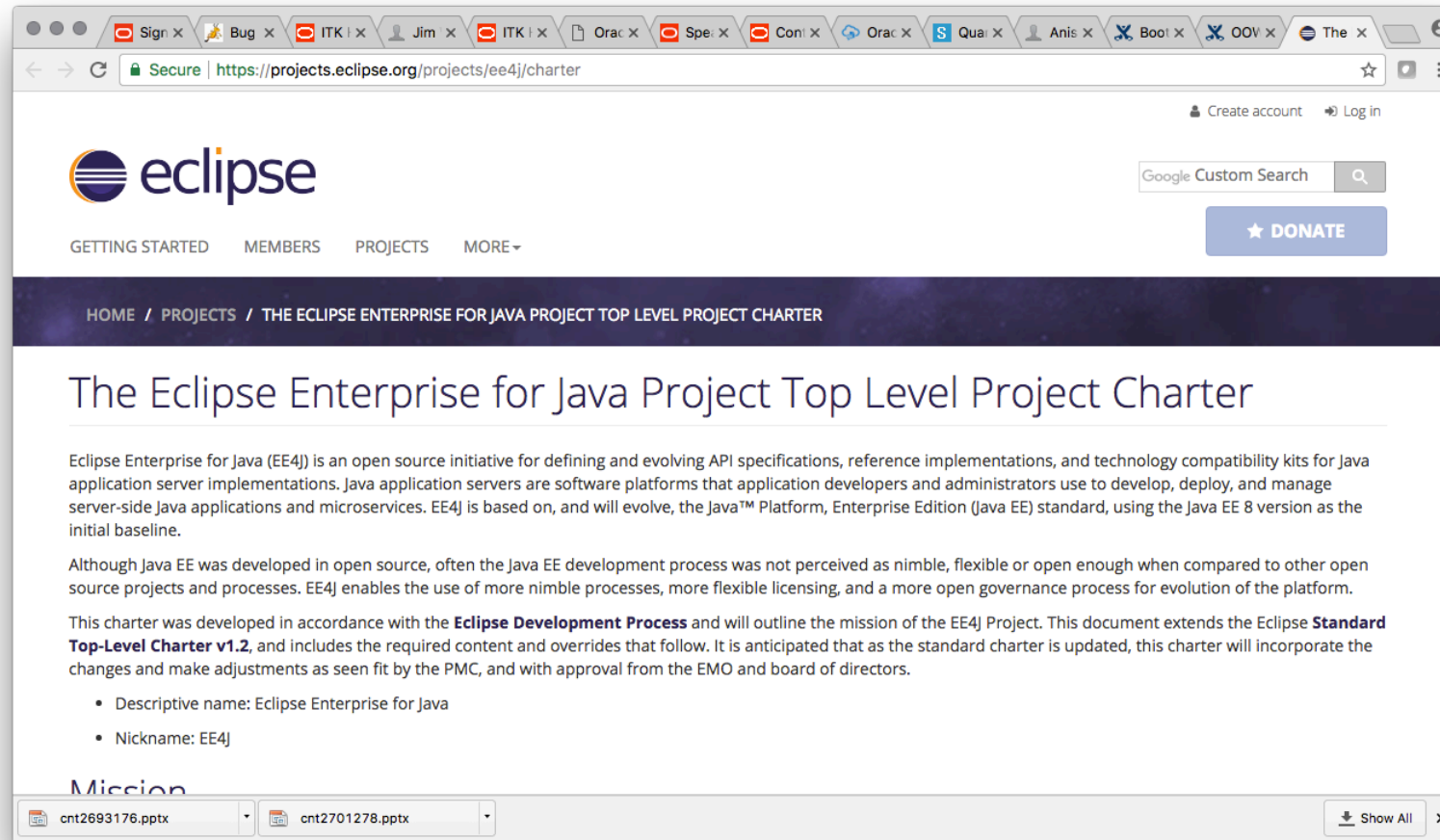


The Eclipse logo, a blue circle with three horizontal white lines, followed by the word "eclipse" in a lowercase, blue, sans-serif font. Below it, the text "Enterprise for Java" is written in a smaller, blue, sans-serif font.

- ✓ Nimble
- ✓ Flexible
- ✓ Open
- ✓ Compatible

*Join the discussion at [ee4j-community@eclipse.org](mailto:ee4j-community@eclipse.org)*

# Open Process – Top Level Project Charter Published



The screenshot shows a web browser window displaying the Eclipse website. The address bar shows the URL <https://projects.eclipse.org/projects/ee4j/charter>. The page features the Eclipse logo, a navigation menu with 'GETTING STARTED', 'MEMBERS', 'PROJECTS', and 'MORE', and a 'DONATE' button. The main heading is 'The Eclipse Enterprise for Java Project Top Level Project Charter'. The text describes the Eclipse Enterprise for Java (EE4J) as an open source initiative for defining and evolving API specifications, reference implementations, and technology compatibility kits for Java application server implementations. It mentions that EE4J is based on, and will evolve, the Java™ Platform, Enterprise Edition (Java EE) standard, using the Java EE 8 version as the initial baseline. The text also states that although Java EE was developed in open source, the development process was not perceived as nimble, flexible, or open enough. EE4J enables the use of more nimble processes, more flexible licensing, and a more open governance process for evolution of the platform. The charter was developed in accordance with the Eclipse Development Process and will outline the mission of the EE4J Project. This document extends the Eclipse Standard Top-Level Charter v1.2, and includes the required content and overrides that follow. It is anticipated that as the standard charter is updated, this charter will incorporate the changes and make adjustments as seen fit by the PMC, and with approval from the EMO and board of directors.

- Descriptive name: Eclipse Enterprise for Java
- Nickname: EE4J

The page also includes a 'Mission' section and a footer with two presentation files: 'cnt2693176.pptx' and 'cnt2701278.pptx', and a 'Show All' button.

*Join the discussion at [ee4j-community@eclipse.org](mailto: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
- Focus on the above to facilitate a rapid transition

# Oracle Will Continue to Support Vendors/Licensees

- Oracle will honor existing agreements with vendors of Java EE implementations
- Oracle will continue to offer renewals to license agreements
- Oracle will continue to support vendor/licensee implementations and certifications as it has done prior to this announcement
- Oracle intends to support Java EE 8 through Sept 2025
- We expect licensees will plan migration to EE4J prior to 2025
- EE4J licensing/compatibility will be defined by the EE4J project

# For Oracle Customers - Will Continue to Support Existing WebLogic Versions

New Development, Runtime  
and Cloud Capabilities

**WebLogic Server  
12.2.1+ (12cR2)  
Java EE 7, JDK 8**

GA: 2015+

**WebLogic Server  
12.1.3 (12cR1)  
Java EE 6 +, JDK 7 and 8**

GA: 2011-2013

**WebLogic Server  
10.3.6 (11gR1)  
Java EE 5, JDK 6 and 7**

GA: 2009-2012

Compatibility and  
Upgradeability

# For Oracle Customers

## WebLogic Server “Next” Release – Version TBD

- WebLogic Server “Next” – CY2018
- Commercial Java EE 8 Support
- Compatible with prior versions
- Available on premises
  - Installers, Docker images
- Available in Oracle Cloud
  - Java Cloud Service, Application Container Cloud

Java Cloud Service  
Application Container Cloud



CY2018



**ORACLE**<sup>®</sup>  
WebLogic Server “Next”



CY2018



CY2017

Java EE 8 Reference  
Implementation

# Benefits - A New, Open Direction Forward

- Nimble - more rapid evolution of the technology
- Flexible - modern open source process and licensing
- Open – transparent process, broader vendor and community participation
- Compatible - Transition from Java EE 8 to new offering
- Multiple vendors and established foundation supporting the initiative

# Summary

- Moving Java EE to EE4J
  - In collaboration with the community
  - More nimble, flexible and open process
  - Compatible implementation
  - Evolve the platform
- Oracle will continue to...
  - Support licensees/vendors
  - Support existing WebLogic Server releases
  - Invest in new WebLogic Server releases, capabilities



- ✓ Nimble
- ✓ Flexible
- ✓ Open
- ✓ Compatible

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