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Java Persistence and More

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Java Application Server Plattform Community

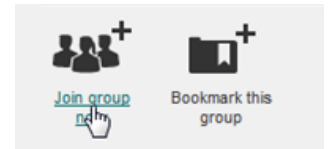
Eine Community von ORACLE für Kunden, Partner und Interessierte

Code Camps Demos **WebLogic Server**
GlassFish Server **Community Treffen**
Java EE JSRs
Vorträge Serverseitige Entwicklung
Administration Wissensaustausch



Registrierung:
Blog:
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<https://www.xing.com/net/oraclejavaappserver>
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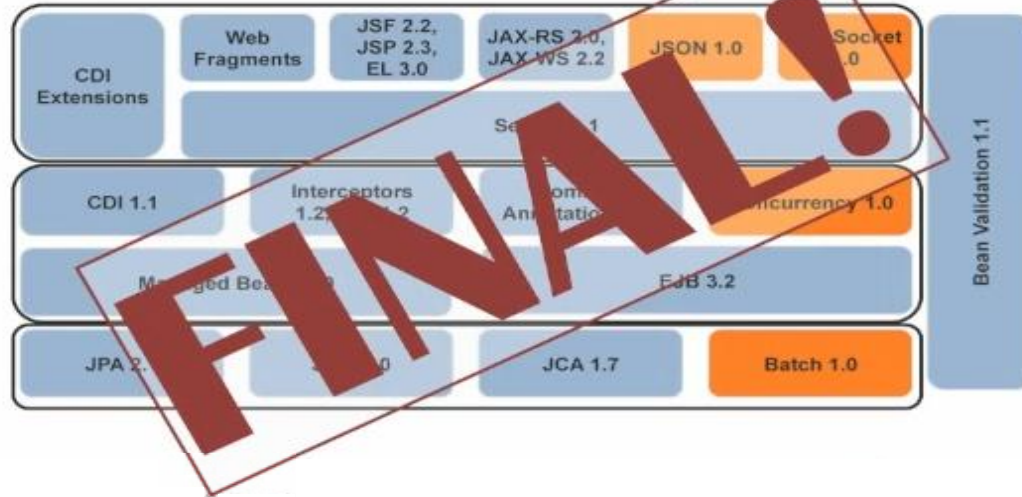
Agenda

- Java EE 7: JPA 2.1
- Trends of Java Persistence (with EclipseLink)

Java EE 7

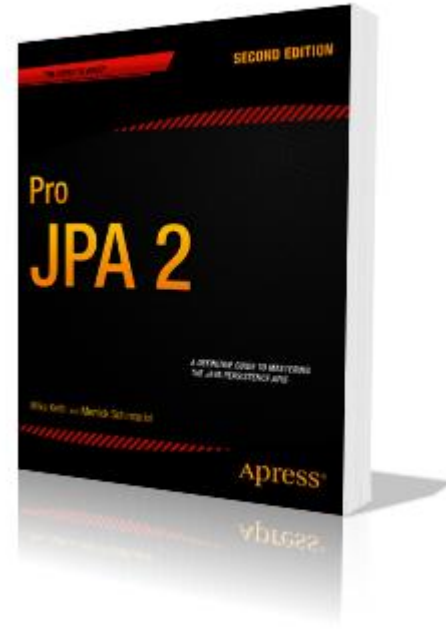
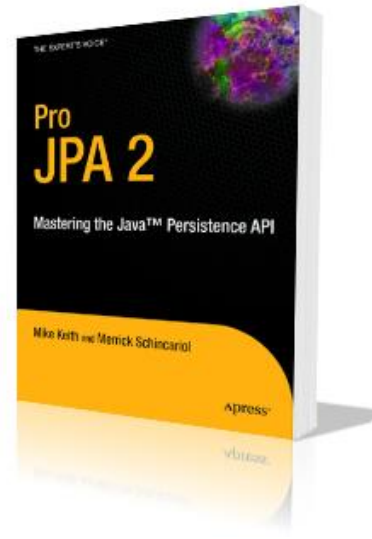
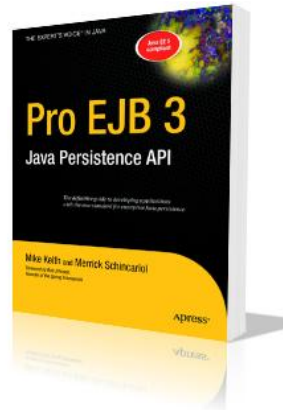
JPA 2.1

Java EE 7 JSRs

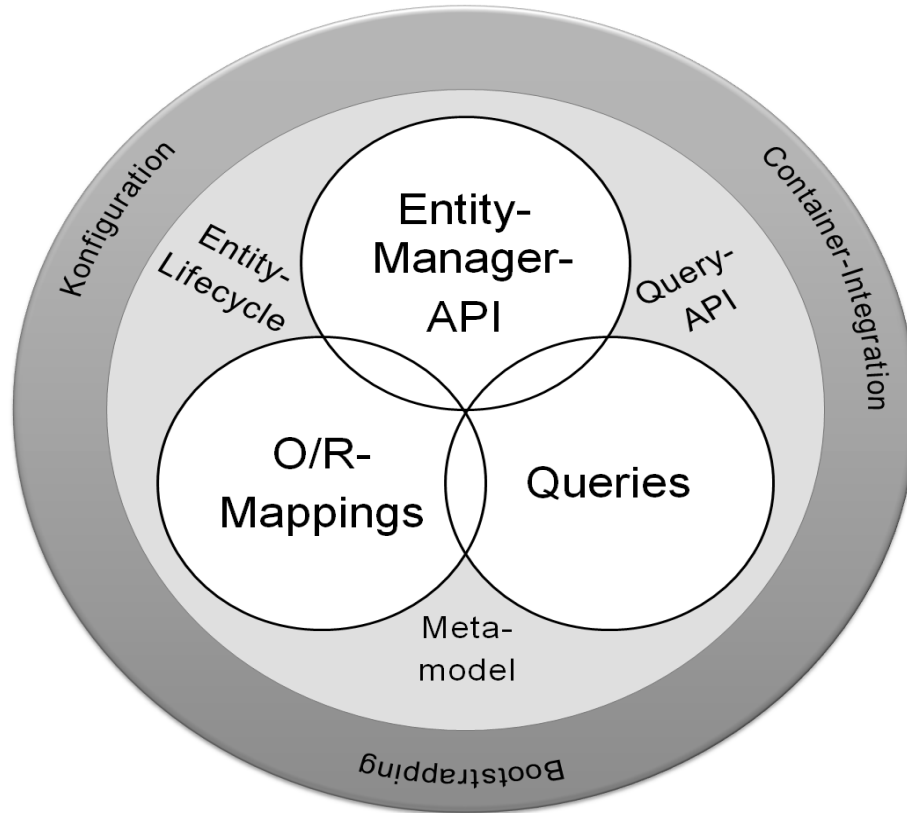


Java Persistence API

- Standardizing Java Persistence
- JPA 1.0: May 2006
- JPA 2.0: December 2009
- JPA 2.1: Juni 2013



Java Persistence API

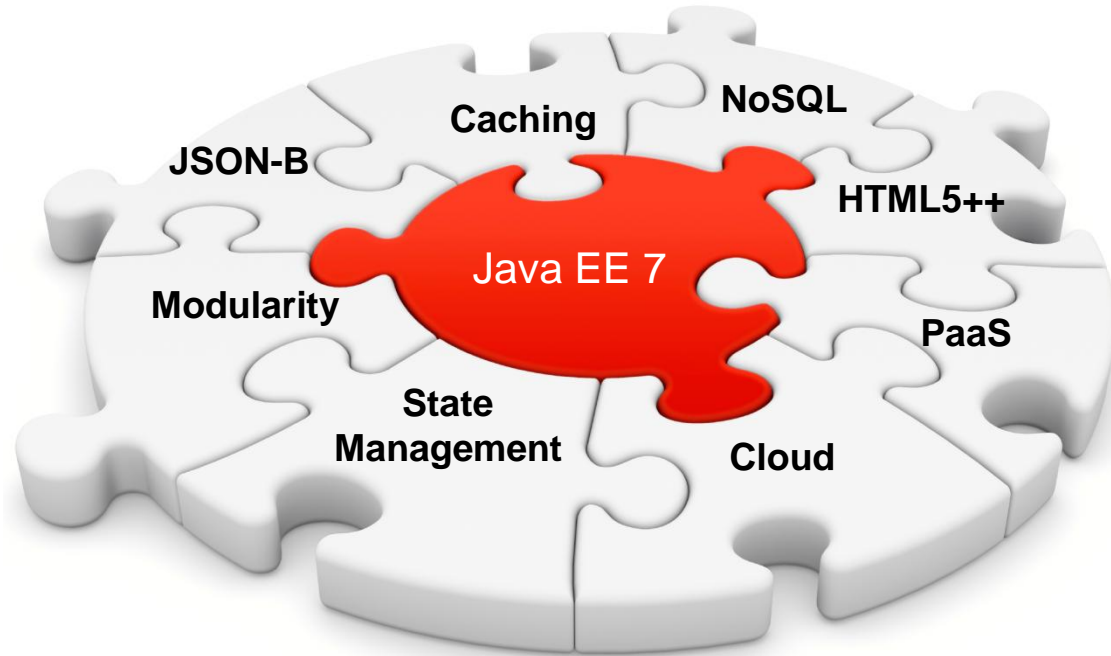


Java Persistence API 2.1

Highlights

- Schema Generation
 - `javax.persistence.schema-generation.*` properties
- Unsynchronized Persistence Contexts
- Query Enhancements, e.g.
 - Bulk update/delete using Criteria
 - User-defined functions using FUNCTION
 - Stored Procedure Query, etc.
- Converter
- Entity Graphs

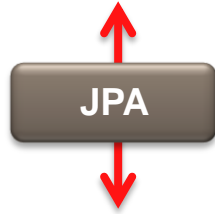
Java EE 8 and Beyond



Java Persistence mit EclipseLink

Customer
id: int name: String creditRating: int

Java

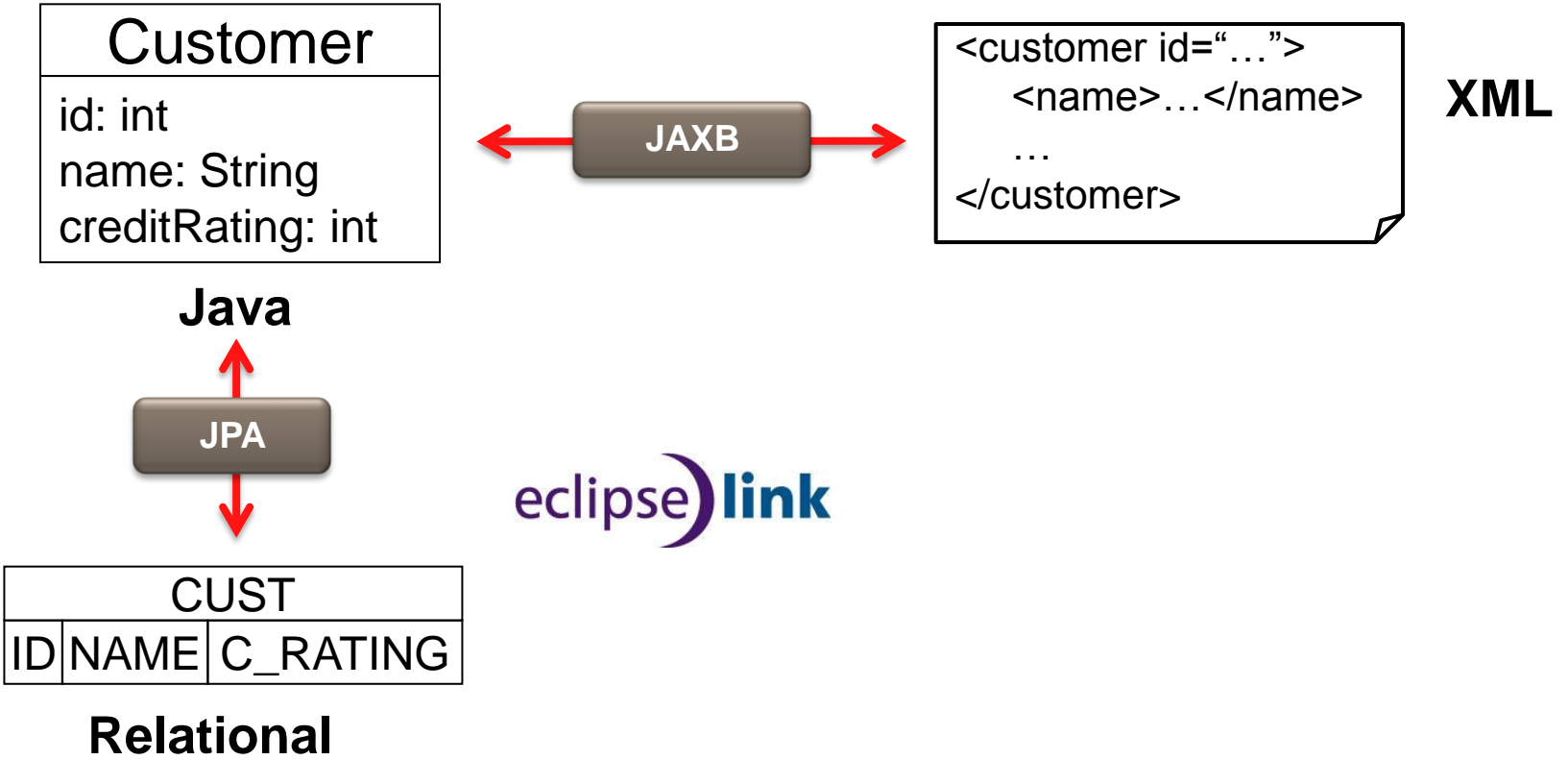


CUST		
ID	NAME	C_RATING

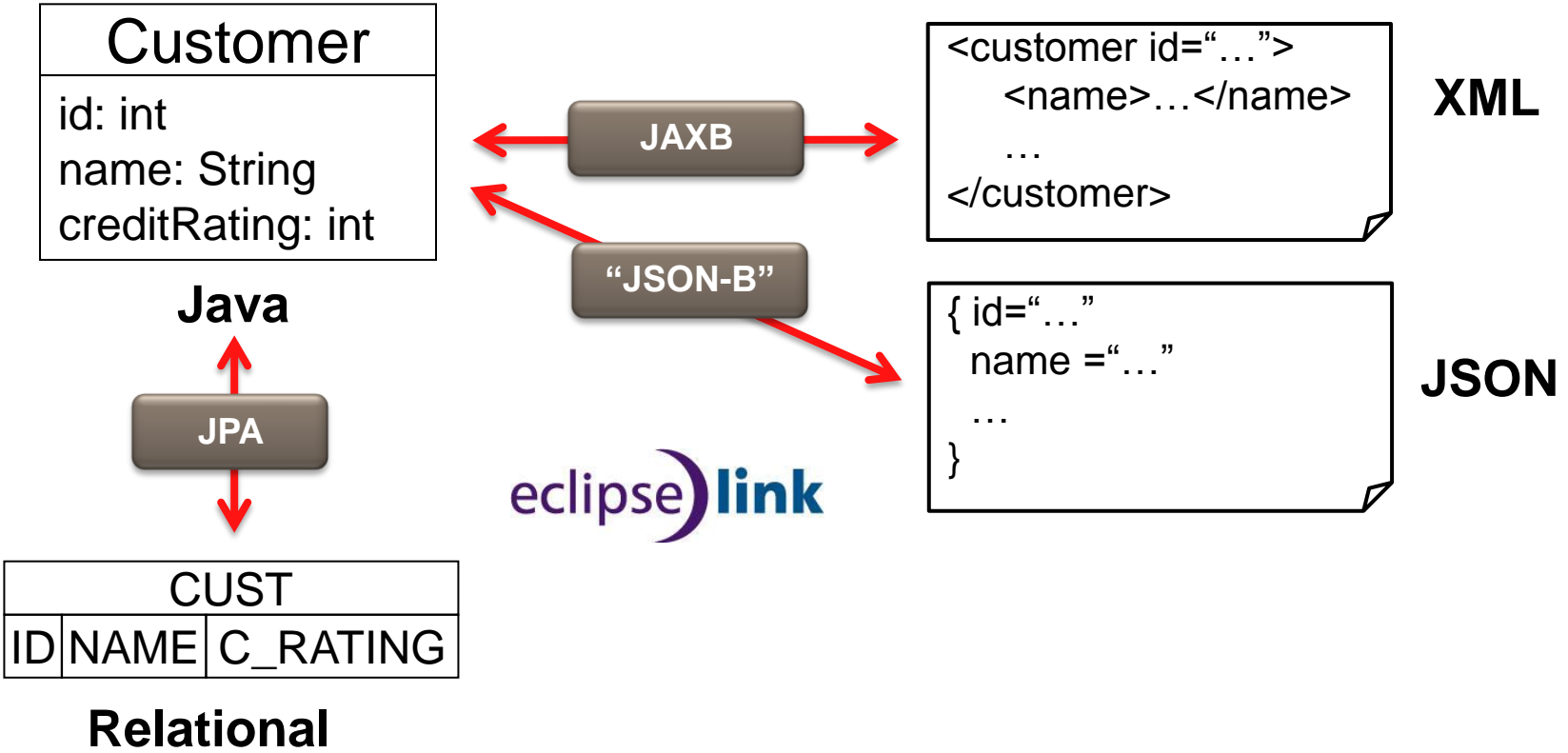
Relational



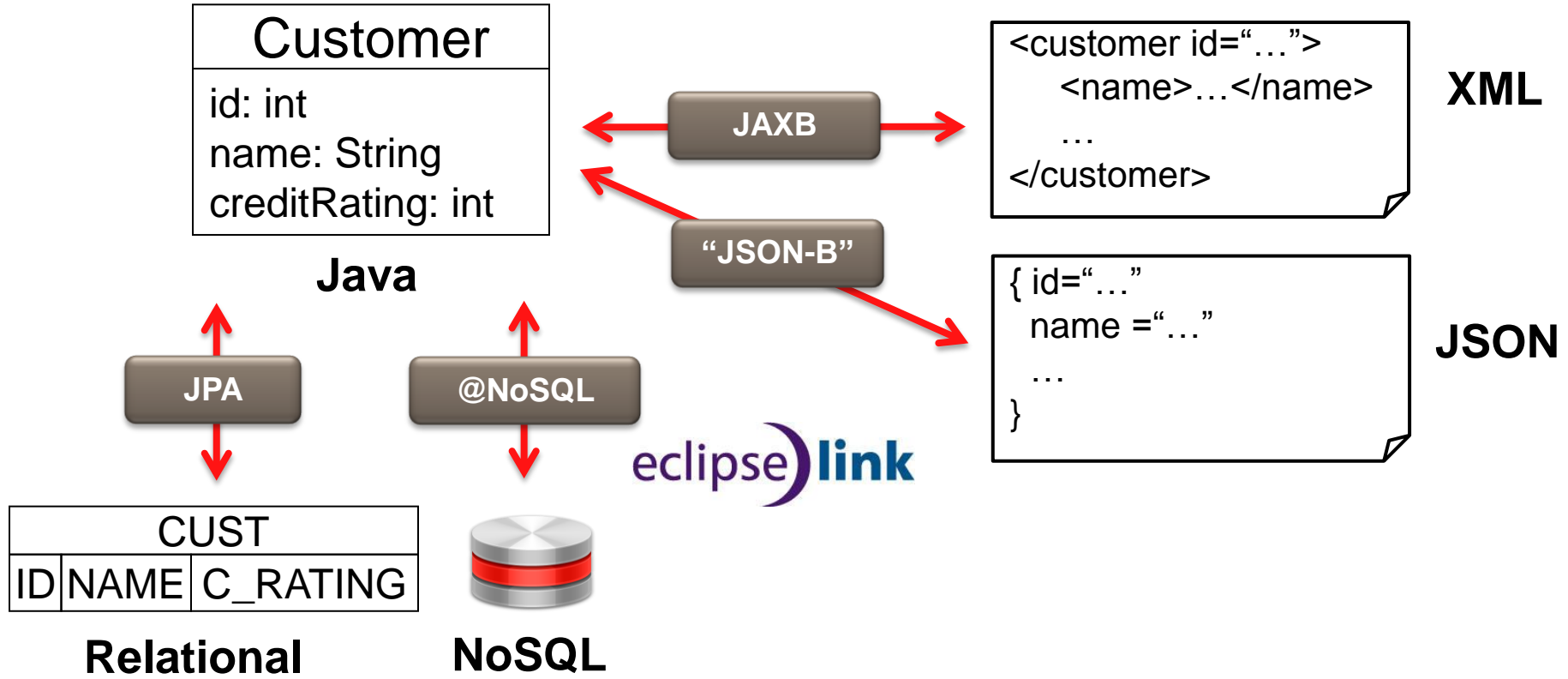
EclipseLink: more than JPA



EclipseLink : more than JPA



EclipseLink : more than JPA



EclipseLink Project

Java SE

Java EE

OSGi

JPA



MOXy



DBWS



eclipse)link



Databases



XML , JSON



Legacy Systems



- www.eclipselink.org
- Links: <http://git.eclipse.org/c/eclipselink/>
 - GIT → Runtime, Examples etc.
- Docs: <http://www.eclipse.org/eclipselink/documentation/>

EclipseLink vs. TopLink



- TopLink ships EclipseLink (WebLogic and Glassfish too 😊)
- support.oracle.com, Notes: 1392592.2, 1069115.1
- TopLink also includes TopLink Grid (Coherence and JPA), TopLink Data Services

Evolution of Java Persistence with EclipseLink



Standards

Relational

- JPA 2.1

XML

- JAXB 2.2
- SDO 2.1.1

DBWS

- JAX-WS

Recent

- JSON Binding
- Dynamic JPA
- Tenant Isolation
- RESTful JPA
- NoSQL

Future

- JSON-B
- Java Standard for NoSQL?

Now Some Code Demos on ...



Standards

Relational

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