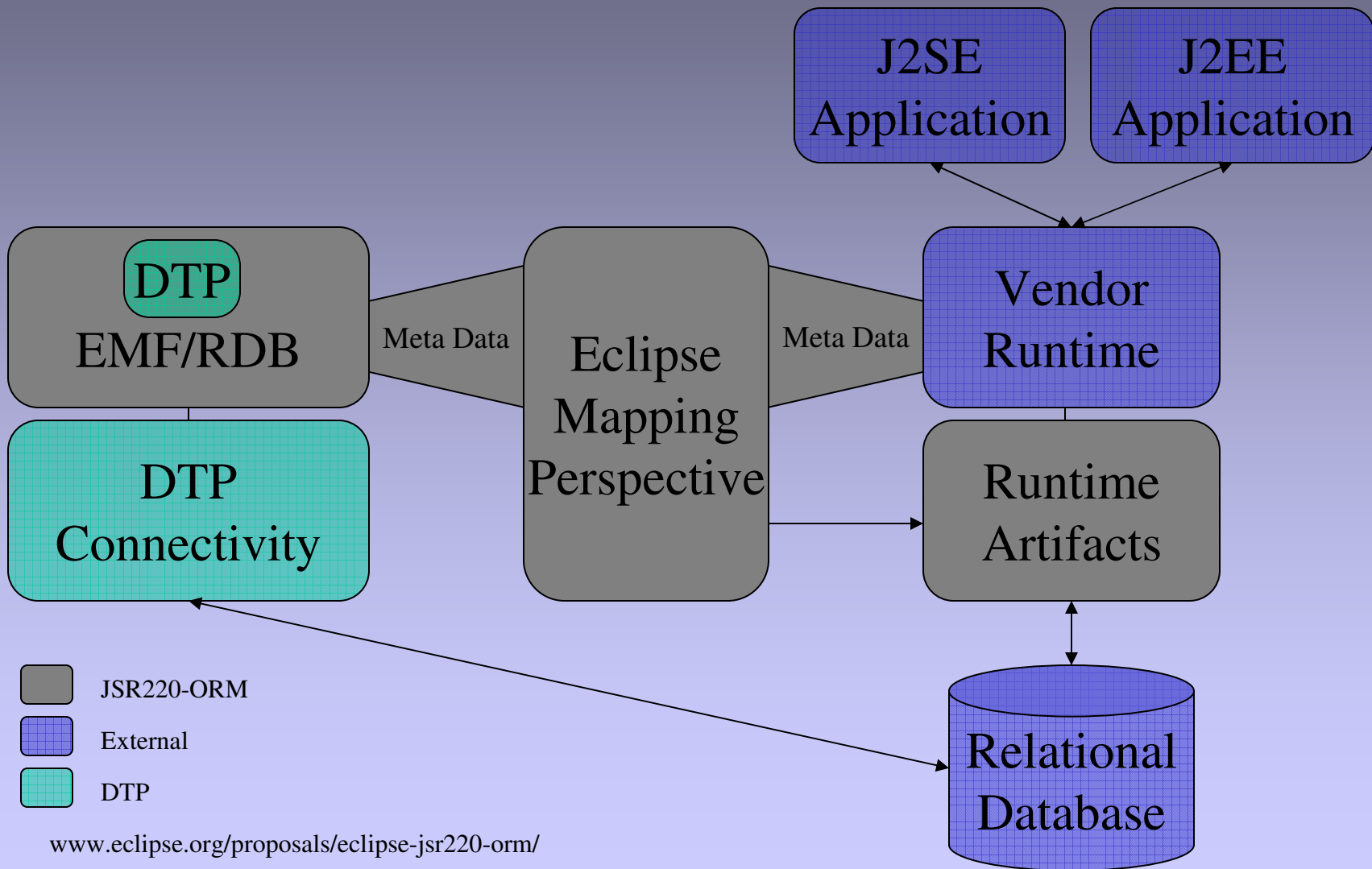# JSR220-ORM

Creation Review

July 20, 2005

What is JSR220-ORM?

The over arching goal of this project is to provide visual development tools that facilitate round trip engineering when using the JSR 220 approach to persistence. Further, to provide an implementation that is extensible to accommodate new types of input and generate artifacts for alternative runtimes.

www.eclipse.org/proposals/eclipse-jsr220-orm/

JSR220-ORM Scope

```
J2SE          J2EE
Application    Application
```

```
DTP
EMF/RDB        Meta Data    Eclipse      Meta Data    Vendor
                            Mapping                   Runtime
DTP                         Perspective
Connectivity                             Runtime
                                         Artifacts
```

JSR220-ORM

External

DTP

Relational
Database

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Initial Features

- Forward Engineering
  - One click mapping
  - Specification Defaults

- Meet in Middle Engineering
  - Live ER Diagrams
  - Scalability Optimization

- JSR220 Meta Data Management

www.eclipse.org/proposals/eclipse-jsr220-orm/

Where are we now?

- Code consolidated with DTP
- Re-Implemented in SWT
  - Due to initial feedback on Swing components
- Forward engineering features in work
  - Source Editors - JSR220 Annotation Enabled
  - Mapping Meta Data Synchronized with Source
  - Live ER Diagrams Synchronized with Source
- Meet -in- Middle engineering features in work
  - Drag and Drop schema mapping
  - Context sensitive ER Diagrams
- JSR220 Artifact Generation

www.eclipse.org/proposals/eclipse-jsr220-orm/

Future Features

- Reverse Engineering
- Visual EBJQL Editors
- Named Query Editor/Manager
- Round Trip Engineering
  - Re-Factoring support
  - UML Driven meta data
- Possible Alternative Mapping Support
  - XML, JAXB, SDO, Hibernate

www.eclipse.org/proposals/eclipse-jsr220-orm/

Who is Involved?

- Participating Companies:
  - Ambysoft
  - Sybase
  - Versant

- Interested Companies:
  - Amazon
  - BEA
  - IBM

www.eclipse.org/proposals/eclipse-jsr220-orm/

Development Team

- Initial Development Team identified
  - Project Lead:
    - Robert Greene (Versant)
  - Committers:
    - Dirk Le Roux (Versant)
    - David Tinker (Versant)
    - Carl Cronje (Versant)
  - Developers:
    - Scott Ambler (Ambysoft)
    - Xiao Wang (Sybase)

- Ongoing discussion with other interested parties

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Deliverables Schedule

- 08/05: Initial Milestone

- 10/05: Reverse Engineering

- 12/05: Visual Query Editors

*Timelines influenced by community involvement

www.eclipse.org/proposals/eclipse-jsr220-orm/

Formal Request

Based on the preceding, the JSR220-ORM development team formally requests a transition from "proposal" status to "project" status. Transition to project status allows us to move forward with:

- CVS access (currently hosted by Versant)
- Web page access
- Developers mailing list
- Bug database (currently on JIRA hosted at Versant)

Questions?

www.eclipse.org/proposals/eclipse-jsr220-orm/