

EMF Search

v0.7.0 Release Review (Incubation Exit)

December 2007

<http://www.eclipse.org/modeling/emft/search>

Talking Points

- New & Noteworthy
- Quality of APIs
- End Of Life Issues
- IP Issues
- Committer Diversity

New & Noteworthy

- Ecore Queries Search (Regex & OCL)
- UML2 Queries Search (Regex & OCL)
- Search Result Page : Ecore & UML2 Support
 - Navigation From Result To Diagram/Editor
- UI Diagram/Editor Navigations Integration
 - Open Ecore/UML2 (E)Package Dialog
 - Open Ecore/UML2 (E)Class Dialog
- Workspace + Standalone Scopes Support
- RCP support + EcoreGrep Standalone example

Quality of APIs

- **Strict separation of concerns**
 - Core / UI
 - Resource / Ecore / UML2
 - Regex / OCL Queries
- **Use of highly Generic Interfaces**
 - Use Generics in lower level APIs
- **Eclipse Coding Standard**
 - Code Is Fully Eclipse Standards Compliant
 - Use Of Extension Points
 - Comments

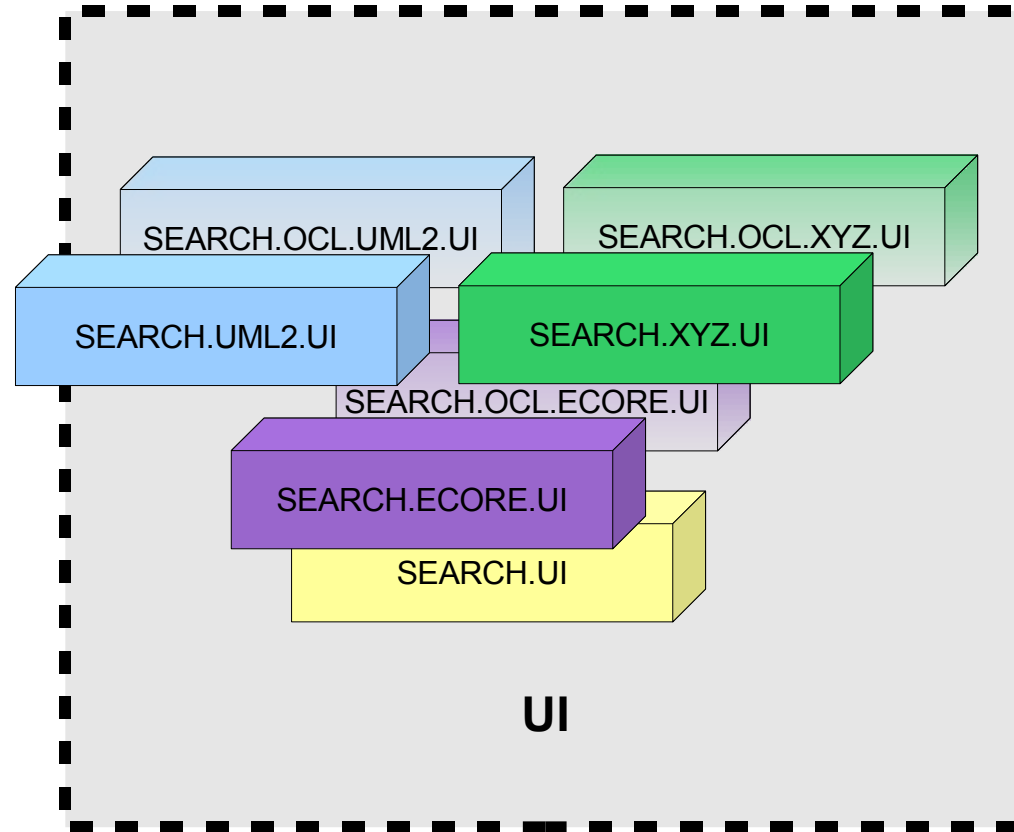
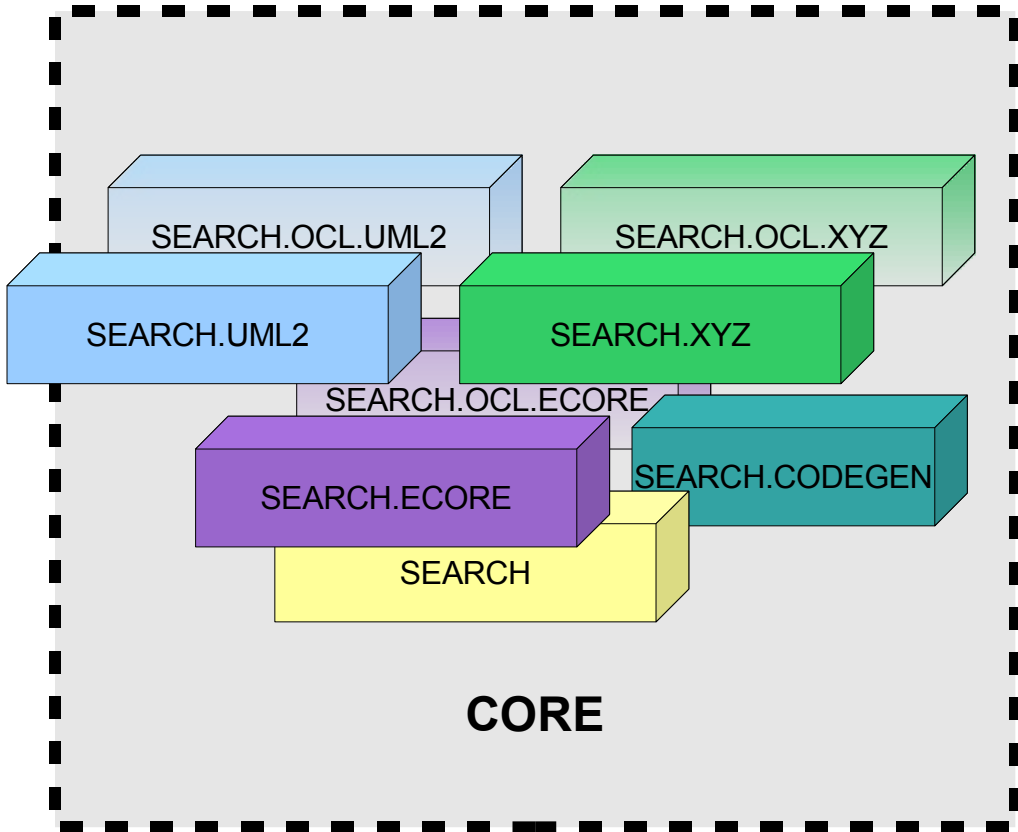
IP Issues

- **Third Parties Libraries**
 - Only Coming From Orbit Project
 - Apache commons CLI, Logging & Lang
- **EPL Headers**
 - Coherence Checkings
 - Date, Author, EPL body, Filename
- **Code**
 - No Code Reuse From Non EPL Projects

Introduction

- Major Milestones
 - Project Created in June 2007
- Community
 - Stable to 2 Committers (Help Welcome)
- Project Size
 - 32 kLOC

Architecture



EMF <T> Search

- **Generic**
 - Core Layer Heavily Relies on <T> Generics
 - EMF Resource Scopes <T> Visiting Strategies
- **Ecore Based**
 - UML2 & Arbitrary Model Support Thanks To Generics
 - Code generation tooling generates Generics code

Extensibility

- Core
 - org.eclipse.emf.search.modelSearchEngine
- UI
 - org.eclipse.emf.search.modelSearchParticipantTab
 - org.eclipse.emf.search.modelSearchQueryTab
 - org.eclipse.emf.search.modelSearchEngineMapping
 - org.eclipse.emf.search.openDiagramParticipant
- OCL
 - org.eclipse.emf.search.ocl.targetMetaModel

Exemplary Tools

- **Ecore**
 - Search Integration For Ecore Regex & OCL queries
 - Search Page, Search Result Page, Engine, Dialogs
- **UML2**
 - Search Integration For UML Regex & OCL queries
 - Search Page, Engine, Dialogs
- **CodeGen**
 - Search Integration Codegen For Arbitrary Model Regex queries
 - Engine

Client Project Integrations

- Ecore Tools
 - Feature/Plugins Ready and part of Ganymede M4
- UML2 Tools
 - Feature/Plugins Ready and part of Ganymede M4
- Amalgamation
 - Integration To be Defined ?

Future

- Add Http search support
- Add Replace Feature For Regex Queries
- Propose RFE + Contribution For non Workspace Scopes To Platform UI Team
- Add Mint + Genmodel Tight integration
- Add SDO & JCR integration (Collaboration)
- Contribution to Ecore Tools, UML2 Tools
- Contribution To Amalgamation

Non Code Aspects

- Orbit Dependencies
 - Apache commons : cli, logging, lang
- L10n Localization
 - Done everywhere it was needed
- Tests
 - Minimal JUnit Tests Set For Ecore Search Created
- Examples
 - RCP is created and sufficient to bootstrap users
 - Runtime is created and ok (same planned for UML)
- Minimal Doc (To Be Improved)

Schedule

- Plan
 - 0.7.0 official release if review overall +1
 - To Produce Mx Ganymede Simultaneous Stable Builds
- Future
 - To reach Ganymede GA
 - Improve Test & Validation for current features
 - Finalize Usability + Localization (eg. To Polish)
- What's next ?
 - To Integrate with Mint, EcoreTools, UML2Tools, Amalgamation ?

Process

- Releng
 - Integrated in EMFT Build Infrastructure
 - Numerous New Features created For Contributions
 - Joined Ganymede Train from M3, M4
- Project Feedback
 - Frequent updates on EMF component [page](#)
- Following various newsgroups & lists

Communities

- EclipseCon 2008
 - Submitted : EMFT Search Introductory Tutorial

Employment Status

- Got New Employer
 - New Paper Work On Going
 - Individual Committer agreement (pending)
 - Committer Employer Consent Form (pending)