

EMF Search

v0.7.0 Release Review
(Ganymede)

May 2008

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

Talking Points

- Introduction
- Features
- Non Code Aspects
- Quality of APIs
- Architecture
- IP Issues
- Tool Usability
- Extensibility

Taking Points (2)

- Exemplary Tools
- End Of Life
- Bugzilla
- Client Project Integrations
- Standards
- UI Usability
- Schedule
- Communities ...

Introduction

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

Features

- 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

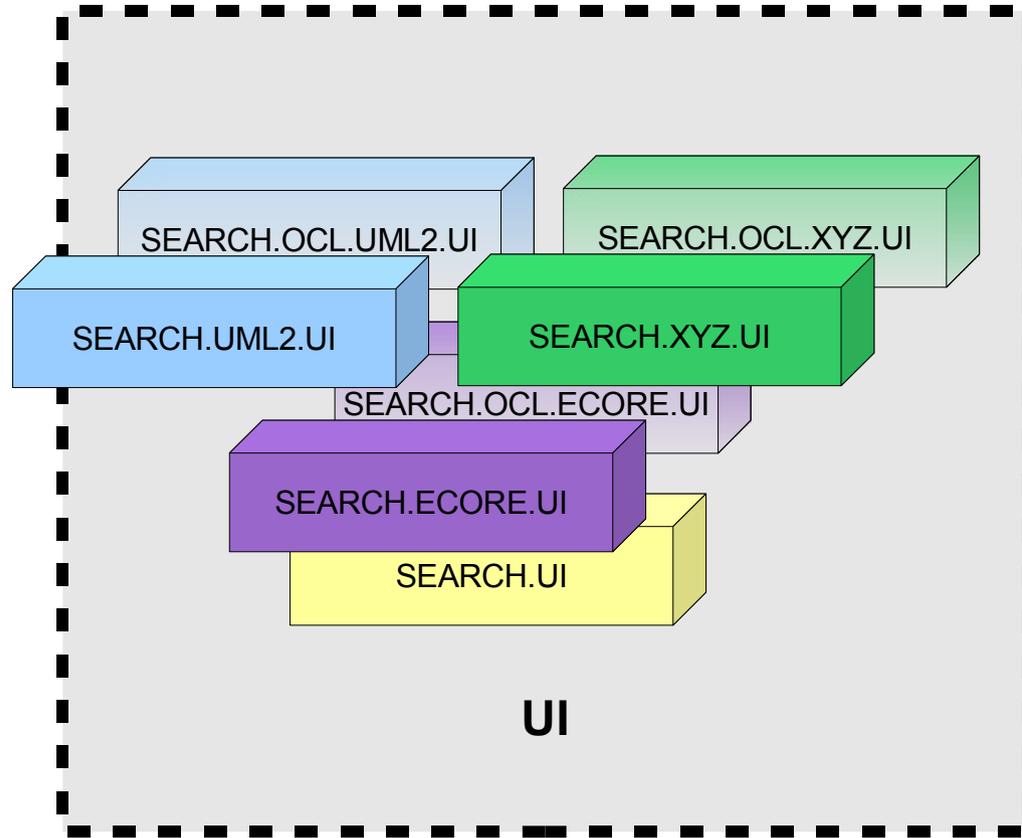
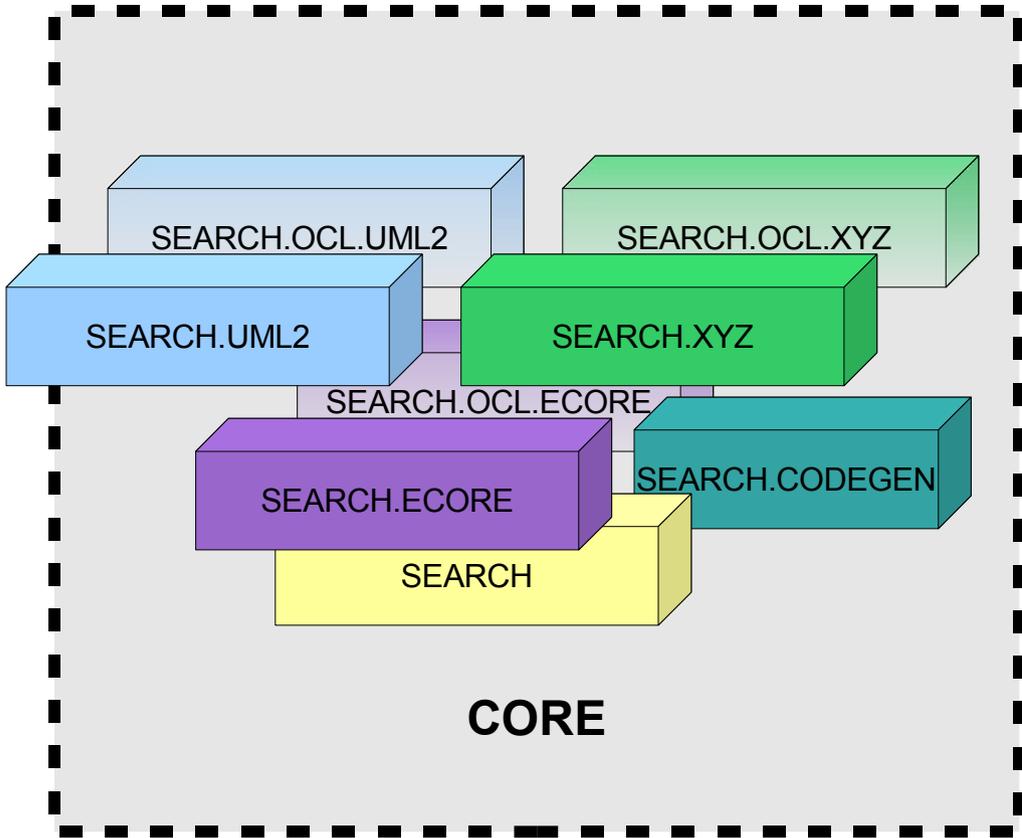
Non Code Aspects

- Posted Quick Dev Guide On Eclipse Live
 - <http://live.eclipse.org/node/515>
- Submitted a talk to EclipseCon 2008
- EMFT newsgroup

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

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
 - Only Estring Eattribute supported for the moment

IP Issues

- **Third Parties Libraries**
 - Only Coming From Orbit Project (IPZilla OK)
 - Apache commons CLI, Logging & Lang
- **EPL Headers**
 - Coherence Checkings
 - Date, Author, EPL body, Filename
- **Code**
 - No Code Reuse From Non EPL Projects
- **IP Log + About + EPL : posted to IP team**

Tool Usability

- Integration with Eclipse Search framework
 - Reuse state of the art APIs
- Usage of resizable areas
- Usage Tabs to selectively access
 - Query Expression
 - Participants Meta Elements
- Filtering
- Dialog Settings
- Job for background optimal result refreshing

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
- GenModel
 - Textual queries
- CodeGen
 - Search Integration Codegen For Arbitrary Model
Regex queries/Replace

End Of Life

- No End Of Life issues
 - New project thus no deprecations yet

Bugzilla

- Current

Status

	NEW	RESOLVED	VERIFIED	CLOSED	Total
P1	.	.	<u>2</u>	.	<u>2</u>
P2	.	<u>2</u>	<u>6</u>	<u>2</u>	<u>10</u>
P3	<u>1</u>	<u>8</u>	<u>9</u>	<u>5</u>	<u>23</u>
P4	.	<u>1</u>	<u>2</u>	.	<u>3</u>
P5	.	<u>1</u>	.	.	<u>1</u>
Total	<u>1</u>	<u>12</u>	<u>19</u>	<u>7</u>	<u>39</u>

Client Project Integrations

- DTP Ecore/ODA Driver integration
 - Ecore OCL Widget Integration
- Amalgamation
 - Filed a bugzilla for being integrated

Standards

- Java 1.5
- OCL 2.0
- Regex
- Ecore
- UML2

UI Usability

- Localization
 - Integration Babel : map posted
- Graphic resources
 - Eclipse standard based

Schedule

- Followed Modeling/EMFT Releng schedules
- Signoffs + Must DOs

Communities

- Exchanged with Ecore Tools
- Exchanged with contributor
 - Mail, talk
- Newsgroup posts

IP Issues

- IP Log
 - <http://www.eclipse.org/modeling/emft/search/project-info/IP-Log.txt>
- IPZilla (Apache Orbit)
 - CQ1946, CQ1947, CQ1948
- Contribution codegen (Roman Tarasov)
 - CQ2113
- EPL + About files : OK

Project Plan

- Project Plan TBD soon

Future

- To Improve Http search support
- To Improve Replace Feature For Regex Queries
- To Propose RFE + Contribution For non Workspace Scopes To Platform UI Team
- To Add Mint + Genmodel Tight integration
- Contribution to Ecore Tools
 - UML2 Tools, SBVR : tentative
- Contribution To Amalgamation
 - Filed a bugzilla

Non Code Aspects

- Orbit Dependencies
 - Apache commons : cli, logging, lang (IPZilla OK)
- L10n Localization
 - Done everywhere it was needed
- Tests
 - Minimal JUnit Tests For Ecore, CodeGen, UML2
- Examples
 - Generation allows to easily bootstrap extensions
 - Runtime created and ok (same planned for UML)
- WIKI

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
 - Updates on EMF component [page](#)
- Following various newsgroups & lists

Communities

- EclipseCon 2008
 - Submitted : EMFT Search Introductory Tutorial
- Contributor : Roman Tarasov

Employment Status

- Got New Employer
 - New Paper Work : Done
 - Individual Committer agreement
 - Committer Employer Consent Form