



# TMF-Xtext 0.7.0 Release Review

June 10, 2009

Communication Channel: `eclipse.modeling.tmf` newsgroup

Process Documentation:

[http://www.eclipse.org/projects/dev\\_process/development\\_process.php](http://www.eclipse.org/projects/dev_process/development_process.php)

# Introduction



- Xtext is a framework to develop domain-specific languages and corresponding IDE-Support
- It is based on
  - EMF
  - Antlr 3
  - Eclipse's Texteditor Framework

# Features



- 0.7.0 is the first release
- No initial contribution / developed from scratch
- Conceptually close to openArchitectureWare's Xtext
- See New & Noteworthy  
([http://wiki.eclipse.org/Xtext/Documentation/Xtext\\_New\\_and\\_Noteworthy](http://wiki.eclipse.org/Xtext/Documentation/Xtext_New_and_Noteworthy))

# Non-Code Aspects



- Provides
  - Comprehensive documentation
  - Tutorial
  - Examples
- We have 1811 Unit-tests (as of RC2)

# APIs



- The Xtext project makes a statement about what is API and what is not :  
<http://wiki.eclipse.org/Xtext/Documentation/API>
- We don't use PDE's API tooling for several reasons.  
See discussion:  
<http://dev.eclipse.org/mhonarc/lists/xttext-dev/msg00216.html>

# Architectural Issues



- Xtext is designed to be highly customizable and adaptable
- This is primarily accomplished by using two different techniques
  - Dependency Injection with Google Guice  
The whole framework is configured using Guice and let users change the implementation of any of the used components
  - Configurable generator  
Xtext's generator is made up of so called fragments. Users can easily add their own fragments.

# Tool Usability



- Language infrastructure provided by Xtext includes rich language-specific IDE-Support
- With regards to UI-behavior, Xtext tries to be as close to JDT as possible in order to provide functionality which feels natural and intuitive to Eclipse-users.
- The languages shipped with Xtext (primarily the grammar language) are as well developed using Xtext.

# End-of-Life



- This is the first release



# Bugzilla (May 27<sup>th</sup> 2009)



|          |             | Status    |          |            |           |           |            |
|----------|-------------|-----------|----------|------------|-----------|-----------|------------|
|          |             | NEW       | ASSIGNED | RESOLVED   | VERIFIED  | CLOSED    | Total      |
| Severity | blocker     | .         | .        | <u>1</u>   | .         | .         | <u>1</u>   |
|          | critical    | .         | .        | <u>2</u>   | .         | .         | <u>2</u>   |
|          | major       | <u>1</u>  | .        | <u>10</u>  | <u>1</u>  | <u>1</u>  | <u>13</u>  |
|          | normal      | <u>41</u> | <u>4</u> | <u>285</u> | <u>12</u> | <u>7</u>  | <u>349</u> |
|          | minor       | <u>2</u>  | .        | <u>2</u>   | <u>1</u>  | .         | <u>5</u>   |
|          | enhancement | <u>39</u> | <u>1</u> | <u>35</u>  | <u>4</u>  | <u>2</u>  | <u>81</u>  |
|          | Total       | <u>83</u> | <u>5</u> | <u>335</u> | <u>18</u> | <u>10</u> | <u>451</u> |

# Standards

- No implementation of standards



# UI Usability



- Xtext uses internationalization
- Nothing beyond standard Eclipse accessibility

# Schedule



- M2 10/01/2008
  - M3 11/12/2008
  - M4 12/29/2008
  - M5 02/06/2009
  - M6 03/18/2009
  - M7 05/05/2009
- (API freeze)
- RC1 05/19/2009
  - RC2 05/26/2009
  - RC3 06/02/2009
  - RC4 06/09/2009
  - RC5 06/16/2009
  - 0.7.0 06/28/2009

# Communities



- Newsgroup: `eclipse.modeling.tmf`
- Conferences:
  - EclipseCon 2009
  - EclipseSummit Europe 2008
  - JAX 2008 / 2009
  - W-JAX 2008
  - OOP 2009
- Webinar on July 15<sup>th</sup> : <http://live.eclipse.org/node/705>

# IP Log



IP Log automated and submitted to Legal for approval:

- [http://www.eclipse.org/projects/ip\\_log.php?projectid=modeling.tmf](http://www.eclipse.org/projects/ip_log.php?projectid=modeling.tmf)