Tigerstripe

Tigerstripe 0.3 Release Review

Eric Dillon – Tigerstripe Project Lead (Cisco)

June 2008

Introduction

- **Tigerstripe is a Technology sub-project in incubation**
  - **http://www.eclipse.org/tigerstripe**
  - **http://wiki.eclipse.org/Tigerstripe**

- **This is the first release as on Eclipse.org**
  - **"0.3" = (2.x + 1) / 10 (2.x was last known version to user community before becoming part of Eclipse)**
  - **Focus on**
    - **Continuity with User Community while migrating code namespace**
    - **"Framework-ization" vs. end-user tool**
    - **Generic Annotations Framework**
    - **Begin EMF Migration**

Features: "Framework-ization"

- ## Split End-User Workbench into

  - **Tigerstripe Annotation Framework** (generic EMF-based annotations for Resources)

  - **Tigerstripe Base Feature** (handle all aspects of Tigerstripe with UI, including Maven Integration, Headless)

  - **Tigerstripe Workbench** (End-User MDE Environment)

- ## Growing number of extension points

  - **Customize model audits, default artifact naming**

  - **Customize UML2 Import/Export into TS metamodel**

  - **…**

Features: Additional Features

- **Instance-Based Generation (M0-Level)**
  - Based on content of Instance Diagram
- **Generic XML Generators (M0 & M1) for download**
- **Generic EMF-Based Annotations**
  - What: Separate model from its decorations
  - How: Annotate any URI with any EObject
- **Rewrite of UML2 Import/Export for robustness**
- **First steps towards EMF Migration**
  - Using EMF Persistence Layer parsing/writing of existing models into EMF mode

Non-Code Aspects

- ## Documentation
    - **Help index included in release.**
- ## Online Documentation thru Wiki
    - **Workbench Tutorials**

        http://wiki.eclipse.org/Tigerstripe_Tutorials

    - **APIs documentation**

        http://wiki.eclipse.org/Tigerstripe_APIs

    - **More on Wiki**
        - **Tips-n-tricks, FAQ.**

APIs

- **APIs conform with Eclipse Quality Standards**
- **APIs have undergone serious re-factoring from commercial version as part of namespace change**
- **Organized around 3 groups**
  - **Infrastruture API (I-API): to create/edit Tigerstripe projects and resources**
  - **Model API (M-API): handle all model aspects, artifacts, scoping, etc.**
    - **Alignment with EMF core happening in parallel.**
    - **"Old flavor" still preferred supported until EMF migration complete**
  - **Annotation API (A-API): handle generic model/resource annotations**

Architectural Issues

- **Annotations framework**
  - Completely independent of other Tigerstripe Code, integration provided for IJavaElement and IResource.
- **UML vs. XMI export/import**
  - UML2 versions used in commercial products, vs XMI, vs latest open-source UML2 packages
- **EMF**
  - Diagrams are EMF/GMF based but not core Model Manager.
  - EMF migration for Model Manager in process
- **Ganymede support**
  - Need updates related to refactoring for
    - Annotations (in CVS)
    - Explorer view
  - Code base is 90% there but separate build required and not in place – scheduled for 0.4 (Aug'08)

Tool Usability

- **No impact on existing Tigerstripe-models**
  - **Key for existing user community!**

- **Annotations enhance usability allowing to decorate models without impacting the model**
  - **Seamless UI integration**

- **UI Improvements and better UML Import/export**
  - **Better integration with other Eclipse-based Modeling tools**

- **Additional Extension points to customize model auditing, default naming, etc… for tailored modeling environments**
  - **Domain-specific modeling/behavior for tool, e.g. naming convention enforcement.**

End-of-Life

- **No feature was end-of-lifed through API refactoring for open-source**

- **OSS/J is being replaced by a new Program (TIP). OSS/J features in TS have therefore been marked deprecated. New features will allow "replacement" of functionality in a generic manner.**

9

Bugzilla

- ## Current State
  - 83 Bugzillas (including 33 Enhancements)
  - 0 P1 & P2s
- ## Resolved bugs
  - 194 Bugs (including 25 Enhancements)

Standards

- **Tigerstripe requires Java1.5 or later and Eclipse 3.3.x**
- **UML2 import/export through use of UML2 component**

11

UI Usability

- **Follow User Interface Guidelines**

- **Complete integrated MDD environment**
  - **Modeling & scoping**
  - **Diagramming**
  - **Generation**

  All from a single perspective

- **UI feedback from User Community inside TeleManagement Forum and Cisco-internal users**
  - **Implemented enhancements as suggested/reported by user community**

Schedule

Date	Build	Comment
2008-01-01	N/A	Code in CVS
2008-04-16	0.3M0	Stable Workbench after refactoring. APIs stablizing
2008-05-05	0.3M1	Split features including Annotations, M0-Generation, Tigerstripe base, Tigerstripe Workbench
2008-05-26	0.3M2	Additional support for M0-based Generation, EMF-based M-API
2008-07-01	0.3	Tentative date based on release review

Details at http://wiki.eclipse.org/Tigerstripe_0.3_stream

13

Communities

- **Active communication/monitoring of newsgroup, bugzilla.**
- **Eclipse Live Webinar in April'08**
- **Active participation to TeleManagement Forum Technical Teams**
  - **Close relationship with User Community**
- **Building content/architecture to ease contributions/adoptions**

IP Issues

- **Closely tracking IP issues**

- **IPLog up2date at**
  http://www.eclipse.org/tigerstripe/IPLog.php

- **Project released under EPL**

Project Plan

- **0.3 Release stream published at http://wiki.eclipse.org/Tigerstripe_0.3_Stream**

- **Next release: 0.4 planned for Aug 29th, 2008**

- **Next release goals**
    - **Progress EMF migration**
    - **Ganymede support**
    - **Annotations rendering on GMF diagrams**
    - **Metamodel enhancements**