Riena Release Review 2.0

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Riena Mailing List: riena-dev@eclipse.org

IP Log: http://www.eclipse.org/projects/ip_log.php?projectid=rt.riena

Projectplan: http://www.eclipse.org/projects/project-plan.php?projectid=rt.riena

Agenda

- Features
- Non-Code Aspects
- APIs
- Architectural Issues
- Tool Usability
- End-of-Life
- Bugzilla
- Standards
- UI Usability
- Schedule
- Communities
- IP Issues
- Future plan

Riena - Mission

The Riena platform is a foundation for building multi-tier enterprise client/server applications.

As such Riena broadens the usage of the service oriented architecture of OSGi/Equinox by providing access to local and remote services in a transparent way.

The Riena user interface components supports an enduser focused navigation metaphor which can be used as an alternative to the default workbench layout.

Riena builds new or leverage existing components that are need to implement client/server applications based on Eclipse technology.

- Riena project
    - proposed in 10/2007
    - approved 12/2007
    - 1.0.0 release Januar 2009
    - 1.1.0 release with Galileo
    - 1.2.0 release December 2009

Features

- Distributed Enterprise Applications
  - Remote OSGi Service based on Webservice model
- Enhanced UI Model based on RCP
  - Based on RCP but with a different look and navigation model (enduser focused)
  - separation between controller/view using Ridget API
  - Validator, Converters, Markers, UI Filters
- Riena Core
  - Injector for services and extensions
- Security
  - using equinox security
  - supports authentication and authorization (client and server)
- Object Transaction
  - follows object net modifications in a distributed environment
- Monitoring
  - transfer logs, statistics etc from client to server
- New and Noteworthy → http://wiki.eclipse.org/Riena_New_And_Noteworthy

New in 2.0

- Focused on collecting feedback, fix bugs (88 bugs)

- UI-Controller testing using JUnit

- Many improvements in MasterDetail Ridget

- Internationalization for all bundles in Riena

- Reworked Javadoc for Riena API and Extension Schema doc

- Support for Ridgets with RAP (also thanks to work in RAP)

- New Ping Pattern which allows to Ping all Remote Services

- Riena Toolbox – tooling support to edit the assembly and generate view and controllers as well as sample Riena apps

- Add ProgressBarRidget (contribution)

New in 2.0 (2)

- Refactored

    - Assembly ExtensionPoint Definition and Schema

    - INavigationAssembler was adopter for Assembly2

    - Removed generics in definition of SubModuleViews

    - Removed a number of never working or obsolete or deprecated methods (including UIControlsFactory)

    - Structure of LnF implementation was simplified and optimized for Speed

    - Details are here: http://wiki.eclipse.org/ Riena_Migrating_to_2.0_from_1.2

Non-Code Aspects

- Riena Wiki pages which document a number of aspects in Riena

- Various samples to showcase the individual UI aspects of Riena that are supplied as an extra feature

- Client/Server demo application

- snippet project (and wiki page) that show how to use Ridgets

- Many JUnit TestCases (2425 on last count) to show use of the Riena API

- Javadoc, Extension Point Schema docu

APIs

- Many Testcases (2425) to validate that APIs are working

- Many extension and services where users can replace Riena functionality with their custom implementation.

- We changed a number of APIs and documented the changes and what to do in a wiki page. http://wiki.eclipse.org/Riena_Migrating_to_2.0_from_1.2

- In most cases the old API was removed so that Riena 1.2 apps need to migrate before they compile again.

- For the Assembly extension point schema, we still support the old schema and convert it on the fly.

Architectural Issues

- We use OSGi Services wherever that is possible.

    - easily consumable by others

    - replaceable by custom services

- We use Extensions to make Riena extendable by others

- Riena can be consumed in pieces in the steps:

    - core, remote services, ridgets, with navigation

- OSGi Services of Riena are registered with a low Service Rank so that they can easily be replaced by a self written services.

Architectural Issues (2)

- Dependency Injection used in all placed for services and extensions using the Injector APIs

  - making components themselves independant of the Injector API

  - make them easily testable using Mocks

  - automatically tracked coming and going services and extensions

Tools Usability

- Riena has as new helping tool the „Riena Toolbox" which helps to modify the assembly extension together with the link RCP views and controllers.

End of Life

- We plan to stay around for longer ☺.

Bugzilla

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Status

	NEW	ASSIGNED	REOPENED	RESOLVED	VERIFIED	CLOSED	Total
critical	.	.	.	2	.	1	3
major	1	.	.	12	.	1	14
normal	103	9	2	357	3	3	477
minor	12	.	.	24	1	1	38
trivial	5	.	.	3	.	.	8
enhancement	49	2	.	87	.	1	139
Total	170	11	2	485	4	7	679

Severity

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Standards

- Attempt to base as much as possible using OSGi standards

- Remote Services are based on the concept of Webservices

- RFC 119 (standard for remote services since 9/2009) is certainly interesting for Riena. Currently no pull from the community to support it. Possible feature in a future release of Riena.

- JSR 330 (Dependency Injection) could be a good standard to be used by Riena's Injection framework which injects OSGi Services and Extensions. We will most likely upgrade to using it in the next major Release of Riena.

UI Usability

- Built on top of Eclipse RCP

- Use proven technologies from their like Views, Perspectives, Databinding

- Adds a different navigation model on top that is more driven by the requirements of endusers. (known by them from other enduser products)

- Ability to customize Look and Feel for SWT views for various use cases and customers.

Schedule

- Currently on schedule
- Riena joined Helios with M5.

Process: Community and Activities

- 11 committers currently

- Stable flowing interest in the community for Riena of people who are activly building enterprise applications with Riena

- Open Source framework „Redview" (non-Eclipse project) is based on Riena.

- RAP recently open a bug (285389 „Become a target platform for Riena") helped a lot to get the Riena Ridgets running on RAP. Next steps should follow in next release of Riena / RAP.

- Riena committers are also contributing to other projects i.e. p2, core.net

- Growing number of bugs and requests are filed by non-committers.

- Open release planning and tracking processes
  - Bugzilla used to request and track all defects and enhancements
  - Bugzilla entries from committers and Riena users

- Coordination/cooperation with other Eclipse projects
  - dependency to Nebula exists (CompositeTable)

Process: Community

- **Evangelism and outreach into the community**

    - Presentations on Eclipse Summit and Eclipse Con and JAX

- **Riena can be consumed in pieces**

    - first Remote Service, then Ridgets, then the whole UI with the alternative navigation model

    - however most of the time people start right with the Navigation Model

- **Ekke Gentz (now committer) is still very active (http://www.ekkes-corner.org/), blogs, Eclipse Demo Camps etc.**

- **Compeople is running multiple projects based on Riena.**

- **Riena is used by a number of people in production that we know of.**

IP Issues

- Compeople offered an initial code contribution which was submitted to IPZilla.

- Riena also uses some third party software that was submitted through IPZilla.

- Everything else was written by one of the committers himself or a patch was applied from a bugzilla request.

- IPLog is submitted and waiting approval

Future plan

- Riena plans to release a 2.1. version of Riena by the end of 2010.