



Riena Release Review 4.0

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Riena Mailing List: riena-dev@eclipse.org

IP Log: https://bugs.eclipse.org/bugs/show_bug.cgi?id=380340

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 release Januar 2009
 - 1.1 release with Galileo
 - 1.2 release December 2009
 - 2.0 release with Helios
 - 3.0 release with Indigo

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 (authentication, authorization) (client, server)
- Object Transaction
 - follows object net modifications in a distributed environment
- Monitoring (transfers logs, statistics to server)
- New and Noteworthy → http://wiki.eclipse.org/Riena_New_And_Noteworthy
- RAP support in Riena

New in 4.0



- went through the existing list of all bugs, set priors for important ones and fixed them
- fixed 91 bugs (quite a number existed for more than one year)
- features
 - Bug 375911: ViewControllers creation without Views when View is not directly shown. (Saves a lot of SWT handles, but allows BusinessLogic to be instantiated)
 - Bug 364713: Ability to intercept Remote Service Calls
 - support fastviews for NavigationView
- Refactoring, fixed memory leaks, typos, fixed repaint problems, reduced number of events in certain cases
- fixed inconsistent behaviours



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 (3031 on last count) to show use of the Riena API
- Javadoc, Extension Point Schema docu
- Moved to GIT

APIs



- Many Testcases (3031) to validate that APIs are working
- Many extension and services where users can replace Riena functionality with their custom implementation.
- APIs were added but the none of the old ones removed.
- 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 one tool the „Riena Toolbox“
 - It helps to modify the assembly (definition of the navigation scheme)
 - generates views and controllers
 - contains a previewer that let you quickly look at Riena/RCP Views (including the Riena Look and Feel)
 - contains a UI wizard that generates a number of sample Riena apps



End of Life

- We plan to stay around for longer 😊.

Bugzilla



		Status						
		NEW	ASSIGNED	REOPENED	RESOLVED	VERIFIED	CLOSED	Total
Severity	critical	.	.	.	<u>3</u>	.	<u>1</u>	<u>4</u>
	major	<u>1</u>	.	.	<u>17</u>	.	<u>1</u>	<u>19</u>
	normal	<u>122</u>	<u>5</u>	<u>5</u>	<u>554</u>	<u>3</u>	<u>5</u>	<u>694</u>
	minor	<u>6</u>	.	.	<u>36</u>	<u>1</u>	<u>4</u>	<u>47</u>
	trivial	.	.	.	<u>9</u>	.	.	<u>9</u>
	enhancement	<u>57</u>	<u>3</u>	<u>1</u>	<u>122</u>	.	<u>5</u>	<u>188</u>
	Total	<u>186</u>	<u>8</u>	<u>6</u>	<u>741</u>	<u>4</u>	<u>16</u>	<u>961</u>

Note: The major bug is the fact that Riena does not run on top of Eclipse 4.x.

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 of course also use the one from Eclipse 4 once Riena runs on Eclipse 4.

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 Juno with M5.
- Riena had to leave the Juno composite Repo since it does not run on top of Eclipse 4.x which is mandatory for Juno.
- Riena is available in its own p2 repo to run on top of Eclipse 3.x (including 3.8)

Process: Community and Activities



- 10 committers currently
- Stable flowing interest in the community for Riena of people who are actively building enterprise applications with Riena
- Open Source framework „Redview“ (non-Eclipse project) is based on Riena. „Redview“ committers are also Riena committers (Ekke)
- A very strong relation ship with the RAP team which helped to make Riena run on RAP.
- Riena committers are also contributing to other projects i.e. p2, core.net, samples, windowbuilder, SWT, equinox,
- In this release we addressed many outstanding bugs from the community.
- More people show up in the newsgroup that have already built Riena based applications or plan to do so.



Process: Community

- Coordination/cooperation with other Eclipse projects
 - dependency to Nebula exists (CompositeTable)
- Evangelism and outreach into the community
 - Eclipse Summit and EclipseCon and JAX, DemoCamp
- 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 consume it all
- Compeople is helping multiple Riena-based projects to succeed in their work.



Process: Community(2)

- Ekke Gertz (committer) is still very active (<http://www.eekes-corner.org/>), blogs, Eclipse Demo Camps etc.
- Still its hard to find people who not only consume Riena but actually develop code for Riena and submit patches.

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 approved



Future plan

- Riena plans to release a 5.0. version of Riena in the next release train (Kepler)
- Riena 5.0 will support Eclipse 4.x and Eclipse 3.x as base.
- Work for Eclipse 4.x support has already started in its own branch. (not included in 4.0 for Juno)