Riena Release Review 1.1

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

Agenda

- Features
- Non-Code Aspects
- APIs
- Architectural Issues
- Tool Usability
- End-of-Life
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- Standards
- UI Usability
- Schedule
- Communities
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- 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
    - M1 thru M6 in 2008
    - 1.0.0 release Januar 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 Features in 1.1.0

- stabilize various APIs, most of the APIs are now stable

- LnF for Views

- Master/Detail Support

- Detached Views

- CompositeTable support

- support for more SWT Widgets including SWT DateTime

- Riena is now broken up into the Core SDK and a Samples feature

Non-Code Aspects

- Riena Wiki pages contains already many howtos for a number of aspects of Riena

- Various samples to showcase the individual UI aspects of Riena

- Client/Server demo

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

- Many JUnit TestCases (1666 on last count)

- Javadoc

APIs

- Many Testcases (1666) to validate that APIs are working

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

- Injector API (inject services and extensions)

- Remote Service API (access remote services)

- Ridget API (separate controller/view in the UI, simplifies use of widgets)

- Navigation API (for the navigation model)

- ObjectTransaction API

- Look & Feel API (to extend the UI with a custom themes and looks)

- UI Filter API (to manage restrictions in the UI)

APIs

- APIs with 1.1.0 are no longer provisional and we plan to follow the API guidelines of Eclipse for them to allow users now build applications on top of Riena.

- Exceptions (APIs that are still provisional):

    - org.eclipse.riena.monitor.*

    - org.eclipse.riena.navigation.ui.swt.*

    - org.eclipse.riena.core.wire.*

    - org.eclipse.riena.ridgets.swt.Abstract*

    - org.eclipse.riena.ui.swt.lnf*

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

    - You can only use Remote Services or only use Ridgets or only use Object Transaction.

- OSGi Services of Riena are registered with a low Service Rank so that they can easily be replaced by a custom solution (OSGi Services with a default or higher rank).

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 currently has no tools

End of Life

- Does not apply since nothing from 1.0.0. was discontinued.

Bugzilla

	Status					
	NEW	ASSIGNED	RESOLVED	VERIFIED	CLOSED	Total
critical	.	.	.	.	1	1
major	.	.	8	.	1	9
normal	50	2	172	3	3	230
minor	6	.	13	1	.	20
trivial	3	.	.	.	.	3
enhancement	19	1	45	.	.	65
Total	78	3	238	4	5	328

Severity

Standards

- Attempt to base as much as possible using OSGi standards

- Remote Services are based on the concept of Webservices

UI Usability

- Built on top of Eclipse RCP

- Use proven technologies from their like Views, Perspectives

- Adds a different navigation model on top that is more driven by the requirements of endusers.

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

Schedule

- Release 1.1.0 milestones where started directly after the Release 1.0.0 in January.

- Currently on schedule

- Riena is available in the RT category in the Repository since M7.

- All milestones were released in time according to the Galileo release schedule.

Process: Community and Activities

- 10 committers currently, 4 contributors that are activly submitting patches.

- Growing interest in the community in writing applications with Riena on the newsgroup and on the mailinglist

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

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

- Open communication via Riena newsgroup and mailinglist

- Growing number of bugs and requests are filed by people who are not currently committers of Riena.

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

- All contributions made directly to Eclipse CVS

- Coordination/cooperation with other Eclipse projects
  - dependency to Nebula exists (CompositeTable)
  - interaction with EclipseLink and Birt has been discussed internally
  - interaction with ECF periodically, plan for provider for the time after Galileo

Process: Community

- Evangelism and outreach into the community

  - Presentations on Eclipse Summit and Eclipse Con and Jax

  - Multiple articles in german Eclipse Magazin and Java Magazin.

- Riena is often consumed in pieces

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

- Ekke Gentz is very active (http://www.ekkes-corner.org/) who blogs and posts a lot about using Riena for a large-scale application.

- compeople based 2 Prove of Concepts on Riena in 2008 and is starting new projects in 2009 based on Riena.

- Riena is already in production in at least one case despite its early stage

- Two students wrote their thesis about Riena

- A number of new people who use Riena, file bug reports, test since 1.0.0

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 already approved

Future plan

- Riena plans to release a 1.2. version of Riena for end of 2009.