eRCP

Embedded Rich Client Platform (eRCP) Creation Review

Thursday, November 4, 2004

www.eclipse.org/proposals/eclipse-ercp/
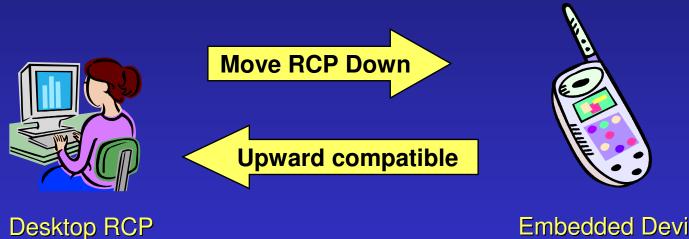
eRCP is an Eclipse technology project primarily slated to investigate the suitability of using various components of the Eclipse RCP in a variety of embedded devices, such as mobile phones and PDAs

eRCP

Eclipse RCP is great but doesn't fit very well on embedded devices. eRCP will provide the deployment and runtime features of RCP in a smaller package. Apps written for eRCP can be upward compatible to the desktop.

Move RCP Down →

← **Upward compatible**

Desktop RCP

Embedded Devices

eRCP

What components are in eRCP?

The eRCP project is composed of the following components which will focus on adapting existing Eclipse components for the embedded space:

- eSWT
- Eclipse runtime including Extension Point Framework and OSGi
- eJFace
- eWorkbench
- eUpdate

The project also includes a Mobile Extensions component for consideration of UI function which is not in the desktop domain but required for a well rounded embedded offering.

Wherever possible, the results of each of these components should be useable independently of the other components. Specifically, eSWT will have no dependencies on the other components of eRCP that would preclude its (eSWT's) usage in non-eRCP use cases.

eRCP

Who is currently involved?

Committers by area of concentration:

Eclipse Runtimes			eWorkbench	
Phil Loats	IBM		Daniel Schumacher	IBM
Erxiang Liu	IBM		Richard Redpath	IBM
Julian Chen	IBM		Uriel Liu	IBM

eSWT, Mobile Extensions & eJFace			
Aleksi Uotila	Nokia	Update Configurator	
Yu You	Nokia	Jim Miles	IBM
Mark Rogalski	IBM		
Lynne Kues	IBM	Project Lead	
Matt Lavin	IBM	Jim Robbins	IBM
Janelle Carroll	IBM		
Julie Yang	IBM		
Po-Jen Hsiao	IBM		
Sam Rauch	Motorola		
Steve Ryner	Motorola		
Brian Deuser	Motorola		
Mark Patel	Motorola		

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Feedback and interest

Positive feedback and interest expressed from:

Sony Ericsson

France Telecom

Initial Implementation Focus

We will initially focus on investigation of how existing RCP components can be subsetted to make packages better suited for embedded devices. For some components, new function specifically for embedded devices may be implemented.

Implementations will concentrate on:

- Reducing footprint
- Enhancing performance
- Providing a targeted application model for embedded devices where applications are more transient in nature
- Providing thorough test suites to verify independent implementations

eRCP

Deliverables

For eSWT component:

- High Level Design Complete – Nov, 2004
- Specification Complete – Dec, 2004
- 3 Implementations (PPC, Nokia Series/60|80, Linux)
- Simultaneous Beta – Feb, 2005
- Test Suite Complete - Apr, 2005
- Implementations Complete – Apr, 2005

For other components:

- Design Complete – Dec, 2004
- Specification Complete – February, 2005
- Implementations Complete – April, 2005

eRCP

Where we are now

Founding contributors have collaborated to produce:

- Requirements Document
- eSWT High Level Design Document
- Mobile Extensions High Level Design Document
- eSWT Project Plan

IBM ready to seed CVS with:

- IBM Tech Preview eSWT for PPC
- Corresponding level of eSWT for Nokia Series/80
- MicroXML Parser for J2ME

Other components to seed CVS from current Eclipse trees

eRCP

Possible future activities post deliverables phase:

- Monitor embedded space to ensure eRCP API and function remains competitive with other technologies

- Investigation of performance enhancements

- Drive embedded requirements into other Eclipse projects

- Investigation of tools enhancements for developing eRCP applications

Formal Request

Based upon the preceding, the eRCP development team
  formally requests a transition of the eRCP project
  from "proposal" status to "project" status.

The transition to project status will provide us with the sorely
  needed resources to move forward, including:

- CVS access

- Web page access

- Developers mailing lists

- Component newsgroups

- Bug database

eRCP

Questions?

For more information, see:

- www.eclipse.org/proposals/eclipse-ercp

Questions?