



# Introducing the Embedded Rich Client Platform (eRCP)



# eRCP

- What is it
- Current status
- What the plans are

# What is eRCP?

eRCP is an Eclipse technology project 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

Eclipse is an open source project that provides a platform for both integrated development environments (tooling) and rich client platforms (RCP). Eclipse also includes many tool projects for the platform. (See [www.eclipse.org](http://www.eclipse.org))

# What will eRCP do?

Eclipse RCP is great but doesn't fit 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.



Desktop  
RCP

Move RCP Down

Upward compatible



Embedded  
Devices

# What components are in eRCP?

As currently envisioned, the eRCP project would focus on adapting the following Eclipse components for the embedded space:

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

Much like the desktop RCP, wherever possible, each of these components should be useable independently of the other components. More specifically, eSWT should have no dependencies on the other components of eRCP that would preclude its (eSWT's) usage in non-eRCP use cases.

# Who is currently involved?

## Companies

IBM

Nokia

Motorola

## Project Lead

Jim Robbins

IBM

## Positive feedback and expressed interest

France Telecom

Sony Ericcson

# 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

# Deliverables

## For eSWT component:

- High Level Design Complete – Oct, 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

# 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

# Future

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

# Questions?

For more information, see:

- [www.eclipse.org/proposals/eclipse-ercp](http://www.eclipse.org/proposals/eclipse-ercp)