The Eclipse Process Framework – how it can address your team’s process needs

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The EPF Project: Overview

• EPF is an Open Source project within the Eclipse Foundation

• The goals of EPF are to provide:
  – An extensible framework and tooling for authoring, configuring and publishing processes
  – Exemplary processes – OpenUP, DSDM, Scrum, XP

• Process Authors and Coaches (Process Management Team)
  – Tooling for creating and publishing processes
  – Foundational process for starting point
  – Libraries of additional content that can be plugged-in

• Process Consumers (Project Team)
  – Published website of process content for simple browsing
  – Guidance in the form of checklists, concepts, guidelines, templates
  – Browse the content adapted to your experience level

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EPF Content: OpenUP

• An iterative software development process that is minimal, complete, and extensible
  – Minimal - Contains vital roles, tasks and guidance
  – Complete - Complete for small co-located teams
  – Extensible - Serves as a foundation that can be extended and tailored

• OpenUP incorporates a number of agile practices…
  – Test-First Design
  – Continuous Integration
  – Agile Estimation
  – Daily Standup, Iteration Assessment, Iteration Retrospective
  – Self-organizing teams

• …within the context of an iterative, incremental lifecycle (UP).
Scrum Introduction

Scrum is an empirical Agile project management framework used to deliver increments of high value to the customer iteratively. Scrum relies on self-organizing, empowered teams to deliver the product increments. It also relies on a customer, or Product Owner, to provide a team with a list of desired features using business value as the priority mechanism.
EPF Content: XP Plug-in

[Diagram showing XP Practices]

XP Practices

What is XP?

Extreme Programming (XP) is a development process that can be used by small to medium-sized teams to develop high-quality software within a predictable schedule and budget and with a minimum of overhead. XP is currently one of the most widely used agile processes in the industry.

XP Practices

- Whole Team
- Continuous Integration
- Test-Driven Development
- Refactoring
- Planning Game
- Coding Standard
- Sustainable Pace
- Simple Design
- Metaphor
- Pair Programming
- Customer Ownership
- Small Releases

This diagram arranges the core practices of Extreme Programming in a way that makes them easy to remember and that exemplifies the steering and control cycles of the process. For more details, see Concept: XP Practices.
EPF Composer

- EPF Composer is built upon the Eclipse platform
- Supports many of the Eclipse plug-ins
  - For example, Mylar
- Different **Views** present specific information
  - For example, Library view shows plug-ins and their content
- **Perspectives** group related views to support a workflow
- Standard Perspectives are:
  - Authoring: for editing method content
  - Browsing: for previewing published elements
Contributing to the project

• Help us
  – evolve EPF Composer
  – evolve available (or create new) processes

• Translation of processes to other languages
  – E.g. OpenUP to Portuguese, Spanish, Russian, …

• Use the EPF Wiki to browse and comment on existing processes
  – http://epf.eclipse.org/

• Send questions or comments to
  – EPF developers list: https://dev.eclipse.org/mailman/listinfo/epf-dev

• Download the bits
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