Getting Started: ClearCase Project Manager Roadmap

This roadmap provides an outline of the material that is most useful to bring project managers up the ClearCase learning curve. This roadmap is designed around the things that you will need to do as a project manager to introduce ClearCase to your software development team, to understand the tradeoffs around deploying ClearCase in your organization, and to make your team more effective in doing version control and configuration management of its critical assets without imposing on the rest of the development team. This is intended to provide a step-by-step overview of the resources available on developerWorks Rational. As a project manager, you will probably want to look at the roadmaps for your ClearCase administrators and users as well to understand how they will use ClearCase.

In using the guide below, you may want to skip to the section that best describes your current learning challenge with ClearCase, then study the material in that section to help you advance to the next level.

Step 1: Understanding What ClearCase Can Do For Your Software Development Team

To get the best use out of ClearCase, you need to understand what your team will need in the way of version control and configuration management to be effective. The articles below outline a number of different strategies and experiences that you as a project manager can use to achieve your project’s goals.

- Configuration Management is Man's Best Friend
- Software Configuration Management Specification / Evaluation Guide
- Ixnay on the Oliticspay
- How Rational Configuration and Change Management Products Support the Software Engineering Institute's Software Capability Maturity Model
- Bridging the CM Gaps: Use Case Analysis of a New Configuration Management System

Step 2: ClearCase and Unified Change Management Overview

One of the most important decisions you will need to make is whether or not to use Rational Unified Change Management (UCM) capabilities. For many teams, UCM will provide a set of standard procedures for controlling your software development procedures without having to figure them out from scratch. The articles below give you some of ammunition that you will need to make that decision for your team.

- SCM370: Essentials of Configuration Management with Rational ClearCase
- SCM375: Essentials of Configuration Management with Rational ClearCase UCM
• Rational Product Documentation
• SCM101: Principles of Software Configuration Management with Rational ClearCase UCM
• ClearCase CheatSheet
• Unified Change Management From Rational Software: An Activity-Based Process for Managing Change
• How Rational Configuration and Change Management Products Support the Software Engineering Institute's Software Capability Maturity Model
• The Art of ClearCase Deployment
• A Case Study of Using IBM WebSphere Studio Application Developer 5.0 with Rational ClearCase LT
• Bridging the CM Gaps: Use Case Analysis of a New Configuration Management System

Step 3: Understanding How Others Use ClearCase

ClearCase is not just for developers. It can be used by the entire team and for all of the assets in the software development lifecycle. That includes tests, requirements, and models, as well as source code. The articles below will give you some sense for how ClearCase can be used for these purposes.

• Baselining Requirement Assets with Rational ClearCase
• How Technical Writers Use Rational ClearCase
• Scalable Software Configuration Management: Avoiding the Trauma and Expense of Changing SCM Solutions
• Ground-Level View of a Product Release

Step 4: Troubleshooting

• Avoiding Common Problems in Rational ClearCase
• Caring for Your Rational ClearCase VOBs
• The Magical World of VOB Sizing
• ClearCase VOB Database Troubleshooting
• SCM503: When Good VOBs Go Bad
• ClearCase MultiSite Oplog Divergence
• The Dictionary Method: One solution to the Sun V5 C++ compiler problem
• Getting Help with Rational ClearCase Performance Problems on Windows NT and Windows 2000
• Guidelines for Using Rational XDE with Rational ClearCase UCM