Rational Tool Implementation Support

DRAFT – UNDER DEVELOPMENT

Agenda

- Introduction
- Benefits of using Rational tools
- Rational Tool Suite Overview
- ClearCase Overview and Benefits
- ClearQuest Overview and Benefits
- RequisitePro Overview and Benefits
- Training
- Contacts

Introduction

- Rational Software is a full life-cycle software development tool
- The Rational Tool Implementation Support Team will support ClearCase, ClearQuest, and RequisitePro
- The Rational Support team consists of: Jay Niemczyk and Paul Capotosto
- The team's objective is to support 2-3 concurrent projects efforts and will enable approximately 8-10 projects to use Rational Tools by September 2002

Benefits of using Rational Tools

- The Rational Tool Suite supports the entire development lifecycle:
  - Requirements Management
  - Configuration Management
  - Issue/Change Request Tracking
  - Testing suite
- Rational is an integrated CASE tool suite and provides full traceability
- Data and work products will follow a standard format, less time spent sorting out the data and more time spent using it
- Ease of use, knowledge transfer, and faster start-up time, teams do not have to learn new tools on every project
- Rational is an SFA standard
- Rational Tool Support and training is funded through SFA
- Reuse, future projects will have access to efforts completed previously
  - translates into lower costs and faster delivery

Rational Tool Suite

- The following tools will be supported by the Rational Tool Implementation Support Team:
  - ClearCase – configuration management and version control
  - ClearQuest – issue and change request tracking
  - RequisitePro – requirements management

- Other Rational Tools of note:
  - Rose – a use case modeling tool
  - Testing Tools – helps with planning, developing, execution, and analysis of testing
  - Robot – automated testing tool simplifies test execution

ClearCase Overview

- ClearCase is a configuration management system
  - Supports parallel development
  - Views are used to access and change elements
  - Rules control what element a view shows a user

- ClearCase MultiSite supports parallel development across geographically distributed projects

ClearCase Benefits

- Unlimited parallel development
- Unify change management
- Tailor ClearCase as a team grows
- ClearCase is extremely scaleable
- Use labels to create baselines

ClearQuest Overview

- ClearQuest is an issue management tool
- Customizable defect and change tracking system
- Manage enhancement requests, defects, and more
- Shorten the development cycle
- Includes ready-to-use schemas
- ClearQuest allows for Integration

ClearQuest Benefits

- Team benefits of using Rational ClearQuest and an issue management process:
  - Requests are contained in one location
  - Issues can be prioritized, assigned, and reassigned
  - Requests and issues have a consistent look and feel
  - Unresolved issues can be escalated
  - Generate reusable reports

- ClearQuest will allow Modernization Partner standards to be developed:
  - Teams can share the same request/issue database
  - Managers can create reports and charts to track several teams
  - Schemas can still be tailored for specific team needs
  - Create a group responsible for tracking project level issues

RequisitePro Overview

- RequisitePro allows teams to manage all project requirements comprehensively
- RequisitePro combines document-centric and database-centric approaches:
  - The database is integrated with Microsoft Word
  - Create and maintain requirements from Word or the database
  - Organize, prioritize, trace and track changes to requirements
  - Use Word for requirement presentation or reports
- Can be accessed using the client tool or over the web using the web client

RequisitePro Benefits

- Integration with Word lessens the learning curve
- Import legacy requirements easily
- RequisitePro integrates with other Rational tools for full traceability of the development lifecycle
- Short setup time
- Modify requirements via documents or the RequisitePro database
- View, modify, and create hierarchical relationships
- Create traceability links within and across projects

Recommended Training

- ClearCase
  - Admin – one week of vendor training
  - Users – 2 days of vendor training
- ClearQuest
  - Admin – 3 days of vendor training
  - Users – 1 day on-site
- RequisitePro
  - Admin – 1 day of vendor training or CBT
  - Users – brief overview by Admin

Contacts and Next Steps

- SFA Rational Team
  - Frank Kidd – Frank.Kidd@ed.gov
  - Samson Abebe – Samsom.Abebe@ed.gov
- Rational Tool Implementation Support team
  - Jay Niemczyk – Jason.Niemczyk@ed.gov or 202-962-0757
  - Paul Capotosto – Paul.Capotosto@ed.gov or 202-962-0756
  - Ron Langkamp – J.Ronald.Langkamp@accenture.com or 202-962-0752
- Contact us if you are interested in Rational or have questions

Questions???