



Rational Tool Implementation Support Team
Tool Assessment Report

STUDENT FINANCIAL ASSISTANCE (SFA)
RATIONAL TOOL IMPLEMENTATION SUPPORT TEAM
TOOL ASSESSMENT REPORT



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1. BACKGROUND

The Rational Tool Implementation Support Team will support the project team in the deployment and use of the Rational Software Development Tool Suite at Student Financial Assistance (SFA). This team will deliver support, training, and consulting services to SFA and Modernization Partner software development projects and other teams with Rational needs. Specifically this initiative will deliver the following:

- Evaluate the project needs
- Document project requirements
- Develop a tool implementation plan and schedule
- Identify project resource time commitment and gain agreement with project lead to proceed
- Design a prototype of the solution
- Setup training program for project members
- Rollout tool to project team
- Conduct knowledge transfer with core project team members
- Transfer tool ownership to project tool administrator
- Conduct post implementation review
- Provide activity reports of ongoing Tool Support for the project
- Provide ongoing coaching, mentoring and training support for projects
- Ensure the Implementation Guide and Tool Support Program is in accordance with SFA Solution Life Cycle (SLC) which SFA uses as an outline to manage IT projects
- Provide on-going Rational Suite Project Repository (*.rsp), ClearCase, ClearQuest Administrator support
- Support the project in development of standard Rational operating procedures, such as standard file naming conventions, uniform project user account creation and management

1.1 Purpose

The purpose of this document, the Tool Assessment Report for the Rational Tool Implementation Support Team, is to establish a framework for how the Rational Deployment team will plan, estimate, and communicate the tool implementation for the project. This report is developed from the information generated during the formal project evaluation.

1.2 Scope

This report will provide details on the project's specific

- High Level Requirements
- High Level Architecture
- High Level Design
- High Level Rollout Plan
- Milestones and Schedule Estimates

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2. PROJECT TOOL ASSESSMENT

2.1 High Level Requirements for the project's system

This section will detail the requirements for a project related to the particular tool(s) they are using. Examples of requirements are shown below.

Example - Must support parallel development

Example - Must support 50 developers

Example - Must support code sharing between Connecticut and Washington D.C.

Example - Must support developers located on EDNet

2.2 High Level Architecture

This entails graphical and textual descriptions of the major hardware and software components. It will include their location, location relationship, and accessibility relative to the users and administrators and relevant hardware and software domains.

2.3 High Level Design

High level descriptions or models that depict the usage, process, and procedural details of using the architecture to achieve the capabilities defined by the requirements. It includes data stores, account administration, and tool usage and administration. It will also include strategies for branching, merging, and labeling. The design of the system during migration to the Rational tool will be included.

2.4 High Level Rollout Plan

High level description of who, what, when, and how each set of users and their artifacts will migrate to using the Rational tool(s).

2.5 Milestones and Schedule Estimates

This section includes a description of the milestones to be reached for a successful implementation and the scheduling estimates for the milestones. A table has been included with estimates for each of the three Rational tools supported by the Rational Tool Implementation Support team: ClearCase, ClearQuest, and RequisitePro.

Consult the TO 51 Training Plan to locate the specific training necessary for each tool. The training is broken up by role and includes descriptions of the Rational classes.

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*All times included are approximate and may change based on team size, commitment, and position in the lifecycle.

2.5.1 ClearCase

Milestone	Time to Complete Milestone (days)*	Milestone Start Date (day)*	Milestone End Date (day)*
Architecture and design completed, presented, and approved	20-30	1	20-30
Architecture implemented	5-15	20-30	25-45
Tool configured	~5	20-30	25-35
Initial prototype validated	5-10	20-30	25-40
Migration period begins and initial users go live	5-10	25-40	30-50
Project migrates to using the tool in phases	10-30	25-40	40-70
Overall Implementation Complete			40-70 days from the start
On-going support and maintenance	On-going	35-70	Continues as necessary

2.5.2 ClearQuest

Milestone	Time to Complete Milestone (days)*	Milestone Start Date (day)*	Milestone End Date (day)*
Architecture and design completed, presented, and approved	15-25	1	15-25
Architecture implemented	5-10	15-25	20-35
Tool configured	~5	15-25	20-25
Initial prototype validated	5	15-25	20-30
Migration period begins and initial users go live	5	20-40	25-45
Project migrates to using the tool in phases	5-10	25-40	25-45
Overall Implementation Complete			25-45 days from the start
On-going support and maintenance	On-going	25-45	Continues as necessary

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2.5.3 RequisitePro

Milestone	Time to Complete Milestone (days)*	Milestone Start Date (day)*	Milestone End Date (day)*
Architecture and design completed, presented, and approved	5-15	1	5-15
Architecture implemented	5	5-15	10-20
Tool configured	~5	5-15	10-20
Initial prototype validated	5	5-15	10-20
Migration period begins and initial users go live	5	10-20	15-25
Project migrates to using the tool in phases	5	10-25	15-30
Overall Implementation Complete			15-30 days from the start
On-going support and maintenance	On-going	15-30	Continues as necessary

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Appendix A – Sample Report

The following sample report is based on the FMS ClearCase implementation that is currently in progress. It shows some of the results.

High Level Requirements for the project's system

The subsequent bullets show the type of questions that were asked to FMS initially when gathering requirements from them. This is just a snapshot of what was asked.

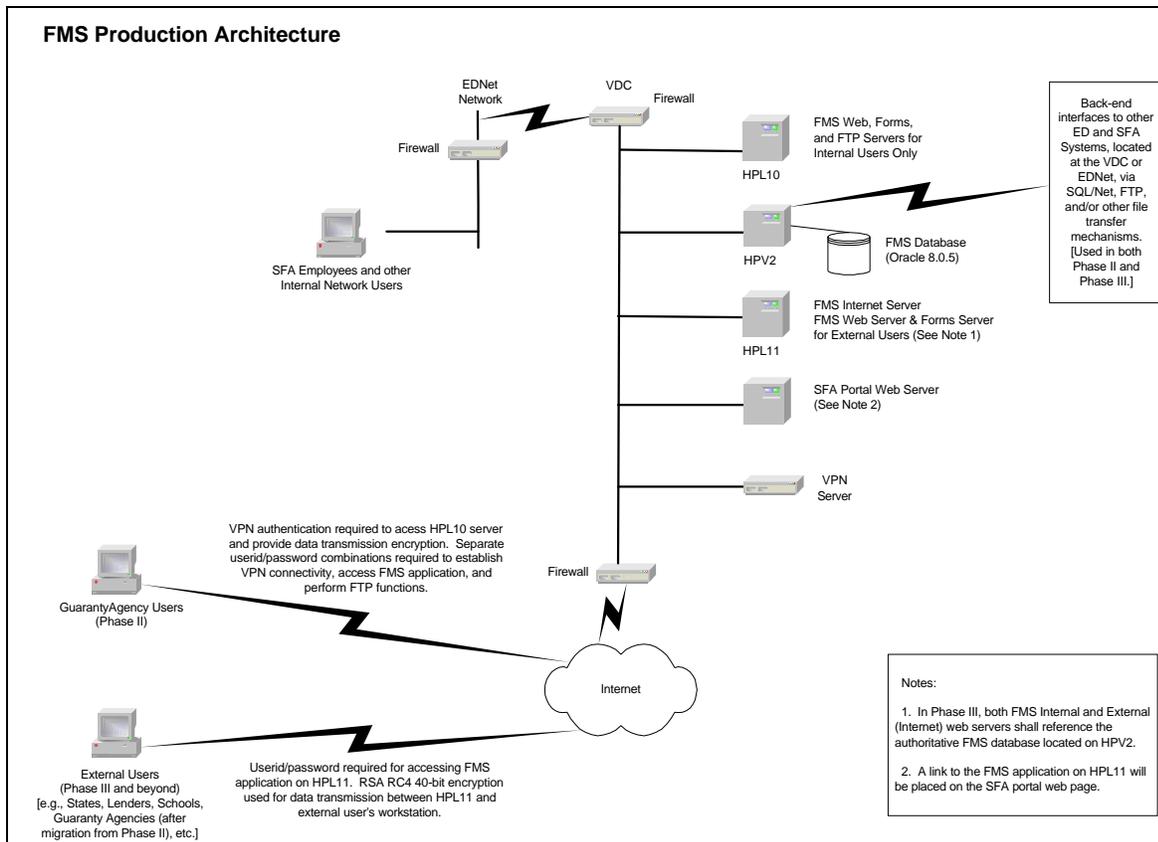
- Define Requirements
 - What tools do they need? A: ClearCase at this time for CM.
 - How will we implement them in their environment? A: Implementation on the VDC with users using the web client.
 - What should their schemas look like and do? A: N/A
 - Number of users? (licenses) A: ~25

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High Level Architecture

Listed below is a sample architecture diagram for FMS. It is not representative of the whole FMS environment, it is just an example of a type of model that could be used.

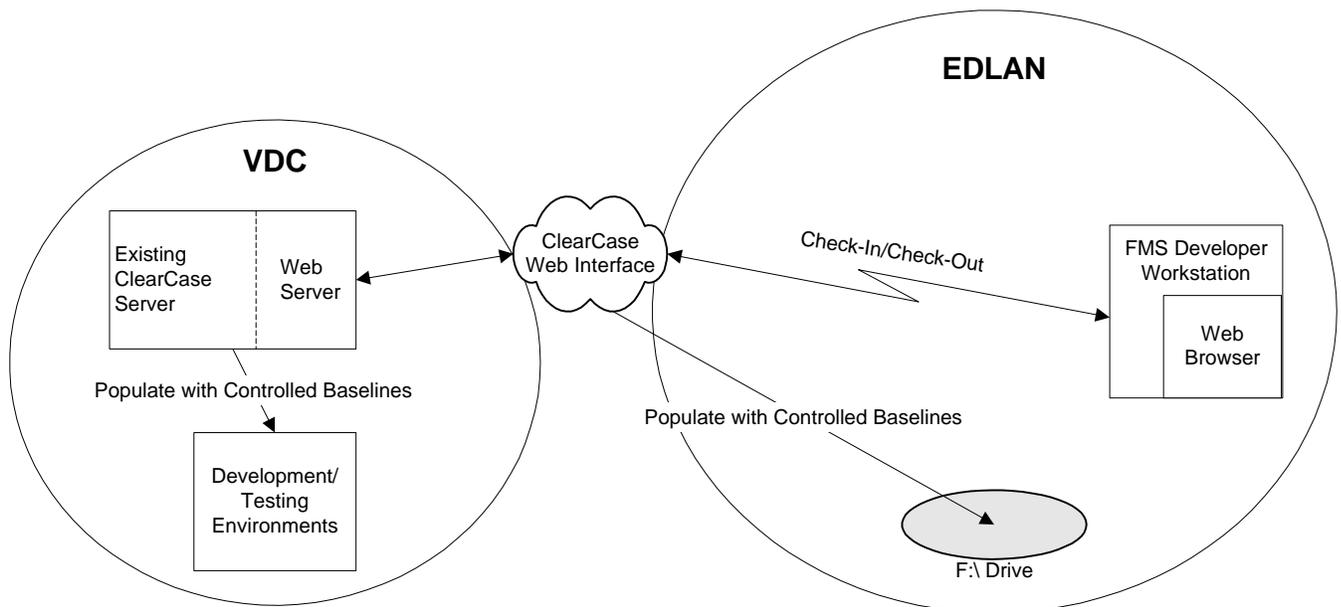




High Level Design

The design diagram below shows how ClearCase will work with FMS working on EDLAN with ClearCase housed on the VDC.

ClearCase Server on VDC and ClearCase web clients

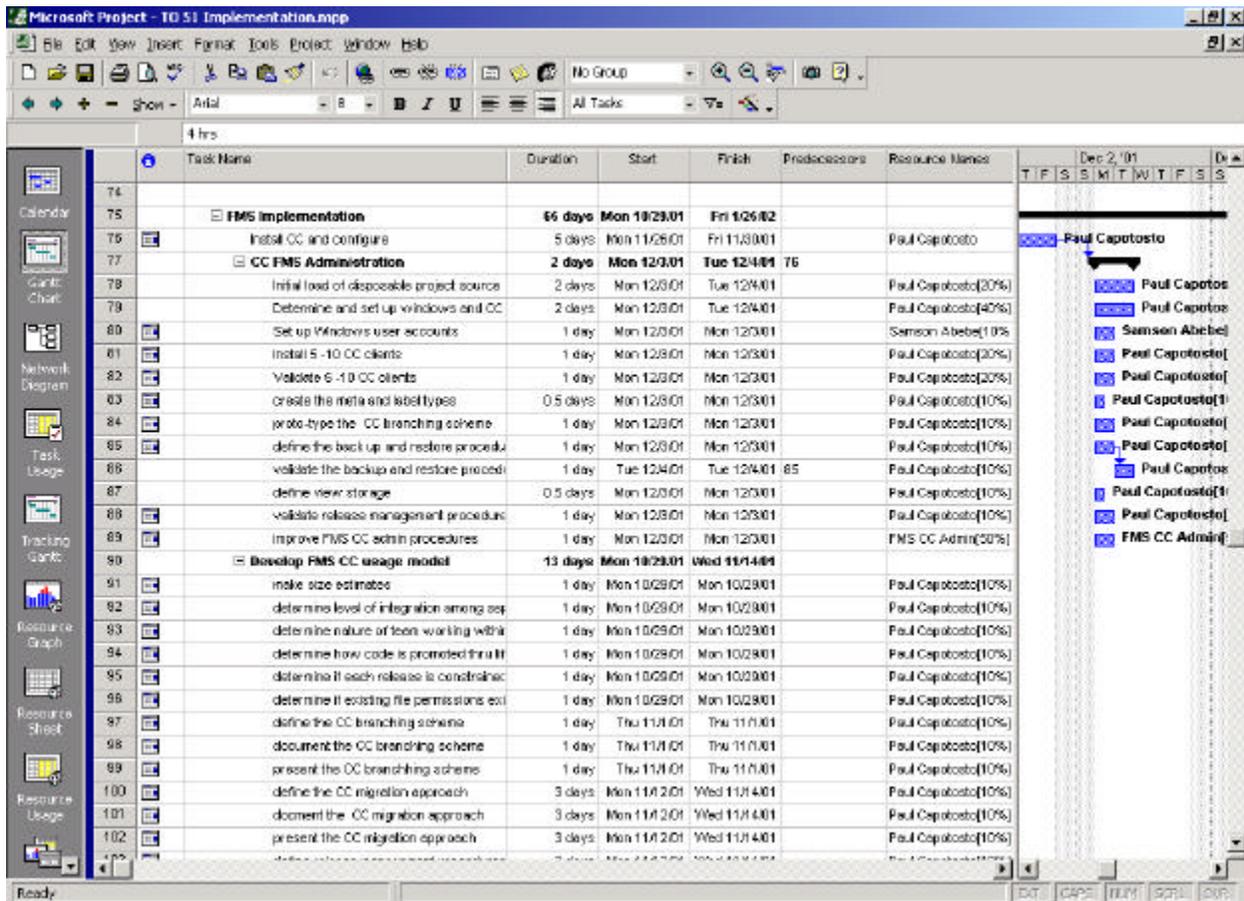


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High Level Rollout Plan

A sample rollout plan is included in the TO 51 Implementation Plan. Included below is a screen shot of it.



* See the Implementation Plan Gantt Chart for FMS specific details.

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Milestones and Schedule Estimates

Milestone	Time to Complete Milestone (days)*	Milestone Start Date (day)*	Milestone End Date (day)*
Architecture and design completed, presented, and approved	30	1	30
Architecture implemented	10	30	40
Tool configured	5	30	35
Initial prototype validated	5	35	40
Migration period begins and initial users go live	5	40	45
Project migrates to using the tool in phases	15	45	60
Overall Implementation Complete			60 days from the start
On-going support and maintenance	On-going	60	Continues as necessary

* These are estimates based on the current progress of the FMS ClearCase Implementation.