



ERUC 2008

Collaborative Application Lifecycle Management

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Collaborative Application Lifecycle Management - Introduction

- Application Lifecycle Management is an integral part of the Ericsson development processes. IBM Rational tools form a key component in the Ericsson ALM development process and tool chain.
- Rational is using a scenario based approach, the Greenthreads, to drive our Solution Strategy and to identify, document and test our end-to-end workflows and cross-product integrations
- Green Threads is an approach to solution management and validation that;
 'Captures workflows across a set of products to solve a complex customer problem' and move our organization beyond point product thinking
- This presentation will team discuss the benefits of Collaborative ALM. Examples will be taken from the new Rational ALM Redbook covering continuous integration between stakeholders, integration between distributed team roles and team functions, and integration between development teams and the enterprise software delivery chain using an agile at scale approach.

What is Collaborative ALM



- Forester defined the ALM 1.0 space using the dimensions of
 - Process
 - Traceability
 - Reporting
- For next generation ALM 2.0 additional dimensions are required

What is Collaborative ALM

- C/ALM identify the importance of both the coordination of development activities and the management of assets
- C/ALM also identify the continuous contributions by collaborators to assets over the lifecycle
- Collaboration, Distribution and Continuous improvement of the delivery process are key additions to the ALM space



Rational Green Threads Team

Green Threads is an approach to solution management and validation that; 'Captures workflows across a set of products to solve a complex customer problem' and move our organization beyond point product thinking

Canada

Core team

- Lead the Green Thread initiative
- Driving Solution and Product requirements^{ted State}

Extended team

- SVT Green Thread Team ensure comprehensive testing of the Green Thread
- Field representatives feed experience and practices to the Green Threads
- Continuous customer validation



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	Capture Requirements	Update Iteration Plan	Oevelop Component	Build and Verify Solution	Manage Solution Quality	Obliver Solution	
Application Ownership		"I work with my stakeholders to submit requests, but I do not know what was delivered nor the quality of the release"		"I have difficulties reaching out to my team members and discuss options in architecture, design and test			
Project Execution	"I can not ensure that work is aligned and that all requirements are covered by our plans."			"I'm tired of works-on-my – machine comments from development. They can not reproduce my test cases "			
Application Assembly		"Builds are bro and I can not the required builds	oken all the time t keep up with changes in the scripts."		"My team have no idea of what changes that are delivered in the builds and what test to run. Hence we re- run the same test suites over and over. I do not even know		
Release Management	free free free free free free free free	"We need to work as a team to know when we are ready to release with expected functionality and sufficient quality."			the qu	the quality of the build."	

GDALM Requirements - What makes the story 'green'



Collaborative Application Lifecycle Management Redbook



The Redbook provides a blueprint for Collaborative Application Lifecycle Management by using an end-to-end reference scenario for deploying the new Rational products and 'Agility at Scale' into an existing enterprise environment.

Outline

- Part A Application Life Cycle Defined
- Part B Responding to a change request
- Part C Collaborative Development
- Part D Enterprise Integration Builds
- Part E Manage Quality
- Part F Solution Delivery
- Part G Measuring Team Success in ALM
- PDF available for download Go to <u>www.redbooks.ibm.com</u> and search for "ALM" Or browse to > <u>http://www.redbooks.ibm.com/redpieces/abstracts/</u> sg247622.html





Defining Business and Release Requirements



- Bob is the application owner and the key stakeholders for the application.
- Bob has a focus on business requests for the application translated to release requirements.
- Bob refactors and elaborates his requirements in Requirements Composer and manages his requirements in ReqPro
- Bob uses a web interface to define, review, manage and submit his requirements.
- He traces his ALM Requests to his requirements.

Bob uses the Requirements Composer to capture business requests and collaborate with stakeholders.

Bob uses ReqWeb to manage, organize and trace/submit his requirements (using the CQI integration) Bob submits his release requirements in ClearQuest and link to the business requests in ReqPro



Defining Requirements

The teams align on the estimates, the agreed delivery iteration by using in-context collaboration

Sidebar

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Interoperability on the ALM platform help stakeholders track plans and delivery of the requests



Compose a variety of **artifact types, links and requirements**. Refactor and establish traceability.

Conduct in-context discussions with stakeholders to review and validate requirements. Manage release requirements in the context of projects and releases. Trace to managed requirements in ReqPro and Requirements Composer

Assign and Align Work



- Patricia triage the ALMRequest release requirements for the current project
- She create a new ALMTask, based on the configured development process
- She assign the Tasks to the next planned iteration, and assigns it to Marco and Tammy
- Marco receive the task in his work queue for the assigned iteration
- Tammy receive the task in her queue for the release
- The teams align on the estimates, the agreed delivery iteration by using in-context collaboration



Assign and Align Work



The teams align on the estimates, the agreed delivery iteration by using in-context collaboration

Interoperability on the ALM platform help team stay in sync on **aligned iterations**



Develop and Deliver Work



- Diedrie start the work on her task. The state change on the work item will transparently synchronize with CQ and make the team aware of the progress.
- Collaborating with AI she identifies a reuse component that she import into a sandbox workspace for prototyping. She can share the sandbox with Marco for review
- Finalizing the change she request Marco and AI to review and approve the changes.
- She build a Private Build, a deliver for Component Build and deliver for daily integration Solution Builds.
- She collaborate with Rebecca to update build dependencies and BVT tests.



Develop and Deliver Work



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Transparency to baseline stability help the teams to focus



Test and Manage Quality



- Tanuj and Diedrie finalize the test cases on the new request. Diedrie already have unit tests. Sharing child tasks of the same parent help them collaborate in-context of the request.
- Using the Lab Management function, Tammy schedule test resources, configure test systems, and deploy builds to servers. She collaborate with lab engineers that deliver the resources.
- Tanuj run his test cases and collaborate with Diedrie on submitted defects.
- Tammy and the team use the quality dashboards to monitor project health and application quality.
- Personalized dashboards, presence awareness, and contextual URL links help the global team improve performance



Collaborative ALM - Assets



Conclusion/Summary

- New integrated C/ALM capabilities are key to unleash capacity of global delivery teams
- New C/ALM Redbook helps by documenting practices using the 2008 product ALM integrations
- Greenthread scenarios are continuing to shape the requirements for the 2009 releases of the Jazz C/ALM solution integrations

