ClearQuest & ClearCase What's New(s) ?

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The Premier Event for Software and Systems Innovation



August 9-11, Bangalore | August 11, Delhi



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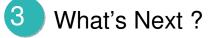


Session Agenda



Evolution of Change & Configuration Management Solution

2 What's New(s)?

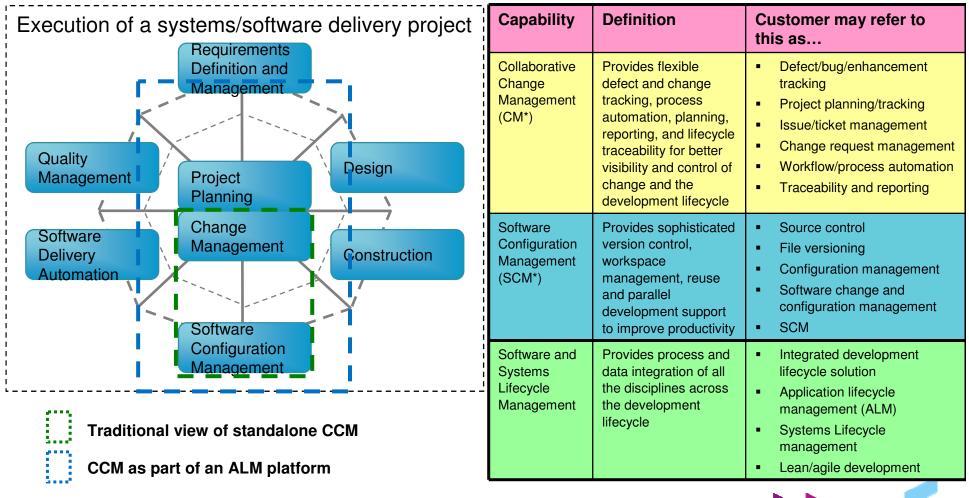






Change and Configuration Management (CCM) Evolution

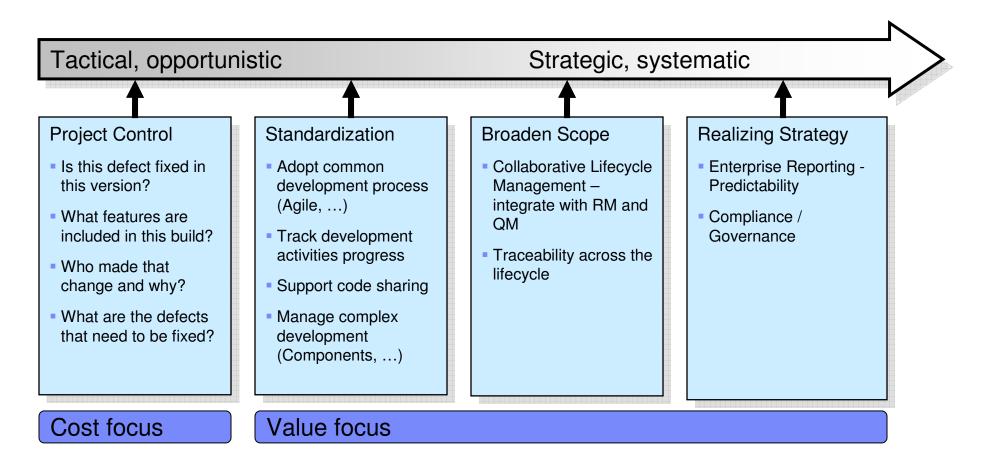
Improve software delivery and software development lifecycle traceability with automated change management (CM) and software configuration management (SCM) solutions







Change & Configuration Management Adoption



Organizations often move through a set of phases as they adopt CCM





IBM Rational ClearQuest Comprehensive Software Change Management

An industry-leading solution that provides flexible defect and change tracking, process automation, reporting and lifecycle traceability for better visibility and control of the software and systems development lifecycle

- Flexible, customizable and automated workflows provide repeatable, enforceable and predictable processes
- An out-of-box Application Lifecycle Management (ALM) template provides a solid foundation for ALM best practices
- Real-time reporting and metrics improves project visibility and decision making
- Access control, electronic signatures, repeatable processes and audit trails simplify compliance management
- Scales to any size team from small workgroups to distributed enterprise teams to support evolving organizational needs
- Integration with requirements, development, build, test, deployment and portfolio management tools facilitates rapid response to change





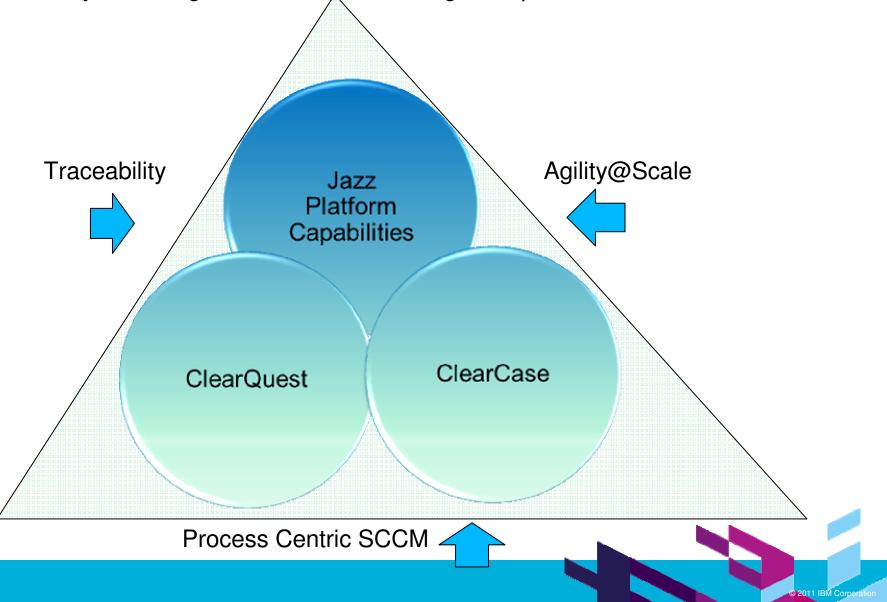
IBM Rational ClearCase Complete Software Configuration Management

An industry-leading solution that provides sophisticated version control, workspace management and parallel development support to improve productivity

- Light-weight feature-rich clients allow you to work locally or remotely
- Flexible out-of-box usage model based on proven best practices increases team productivity and efficiency
- Wide-range of supported environments and cross-platform support connects diverse teams
- Transparent real-time access to files and directories virtually anywhere in your organization
- Scales to any size team from small workgroups to distributed enterprise teams to support evolving organizational needs
- Integration with leading IDEs like Eclipse,Cadence DF II,Visual Studio allows you to work in your preferred environment
- Sophisticated branching and graphical merge tools enable concurrent access to files and efficient use of time

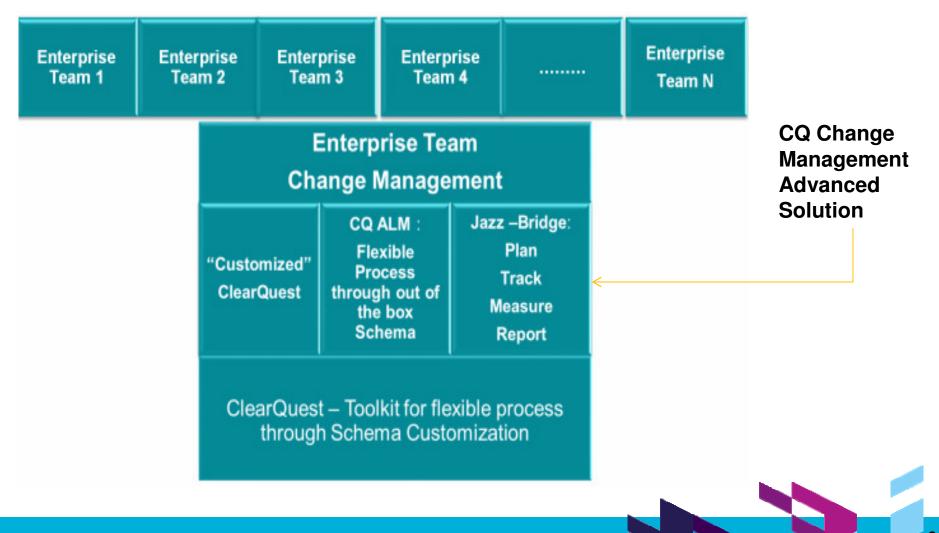


IBM Rational Enterprise Change & Configuration Management Climb the Pyramid to go from tactical to strategic adoption of Rational CCM Solution



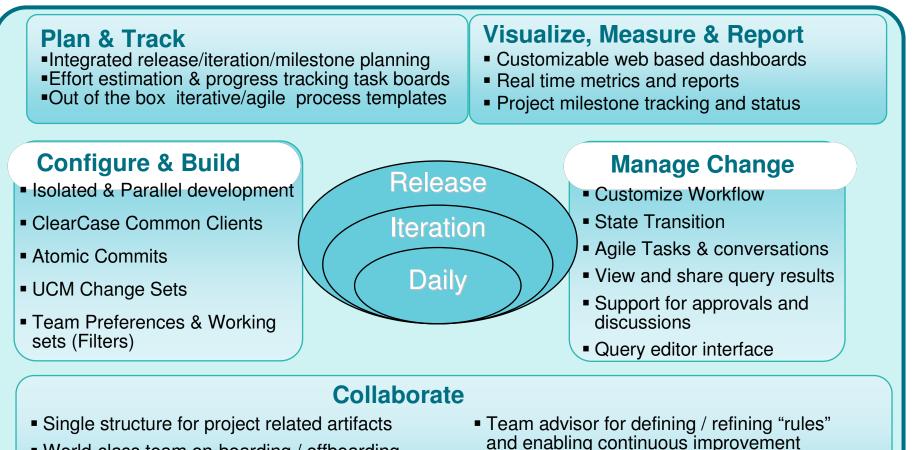


IBM Rational ClearQuest Evolution An Enterprise Change Management Process Toolkit





Collaborative Change & Configuration Management



- World-class team on-boarding / offboarding including team membership, sub-teams and project inheritance
- Role-based operational control for flexible definition of process and capabilities

- and enabling continuous improvement
- Process enactment and enforcement
- In-context collaboration enables team members to communicate in context of their work



Criteria for effective lifecycle management: ALM imperatives

- 1. Accelerate time to delivery with Real-time Planning
- 2. Improve quality with Lifecycle Traceability
- 3. Maximize product value with In-Context Collaboration
- 4. Refine predictability with **Development Intelligence**
- 5. Reduce costs with Continuous Improvement

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Add automated end-to-end traceability across ALM

Which requirements are addressed in this iteration?

Are all of the requirements tested?

What's the quality of the high priority requirements?

What **defects** are reported against which requirements?



Analyst



Project Manader

to release? What defects were resolved in this release?

What tradeoffs can we make to release on time?

What requirements am I implementing?

> How can I recreate the last version to do a patch?

Developer

What test uncovered this defect. on which environment and what build?

What changes occurred overnight?



Engineer

How can I standardize when teams use different tools?

Where are the bottlenecks in our processes?



What is the quality of the build? What has changed that I need to test?

What defects have been addressed since the last build?

Are we ready

Are build times getting longer or shorter?

How can I speed up my builds?



Session Agenda



Evolution of Change & Configuration Management Solution

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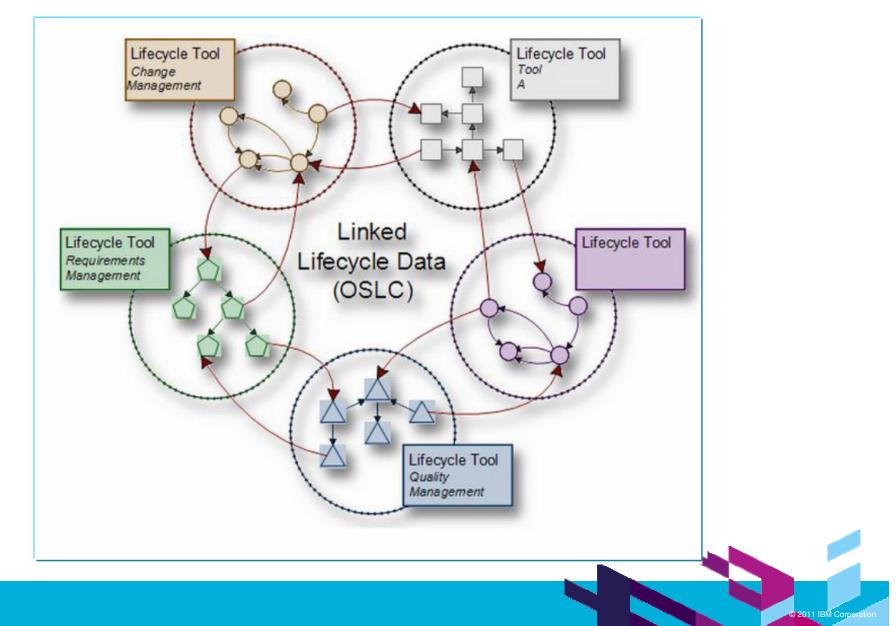




WWW.Open-Services.net

🛇 open-services.net		
Open Services	for Lifecycle Coll	aboration
Learn	Adopt	Participate
Open Services) is an barriers between the	fecycle Collaboration (also kn open community dedicated tools in the product and app se lifecycle tools in combination	to breaking down the lication lifecycle by
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Linked LifeCycle Data

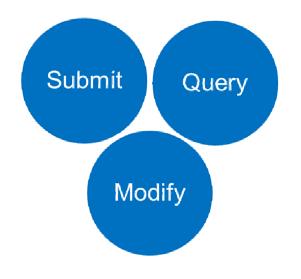


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Introducing ClearQuest OSLC Links Package Realize traceability through Linked Data

- ClearQuest supports Open Services for Lifecycle Collaboration (OSLC) APIs
- Implemented as OSLC Links Package
- Available out of the box with ClearQuest v7.1.2.1 or later



CM OSLC 2.0

ClearQuest	Requirements	Test	Change
OSLC Links Package	Management	Management	Management
Promotes C/LM traceability scenarios b/w CQ-RTC-RQM, implements API that other Rational (eg: DOORS) products and 3 rd Party Products (eg: Bugzilla) can take advantage of.	Rational DOORS Rational Requirements Composer	Rational Quality Manager	Rational ClearQuest Bugzilla Rational Change Rational Team Concert

Setting up OSLC Links Package :

https://www-304.ibm.com/support/docview.wss?uid=swg21433074

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Visualize Traceability in ClearQuest Web

- ClearQuest lets you link to resources from other repositories
 - Requirements
 - Related Change Requests
 - Test Artifacts
 - Rich Hover Support
 - Oauth Support

Rational ClearQuest	Welcome admin 🛛 Links/SAMPL Log out You have 0 new items 📀
New ALMRequest ~	Site Administration 🕆 🛛 Preferences 🗍 Help 🜱
■ SAMPL00000413 ⊠	
ALMRequest: SAMPL00000413 v	
Links: Add: Related Artifact 🔻	
Related Change Request → Task 135: Implement New Feature → Task 136: Review Code with Team Implements Requirement → New Requirement Tested By Test Case → 2: Test New Feature	Change Management Requirements Management Quality Management
Licensed Material - Property of IB TBM. other(s) 20	

Supports CM OSLC 2.0 Relationship Properties

http://open-services.net/bin/view/Main/CmSpecificationV2?sortcol=table;up=#Resource ChangeRequest



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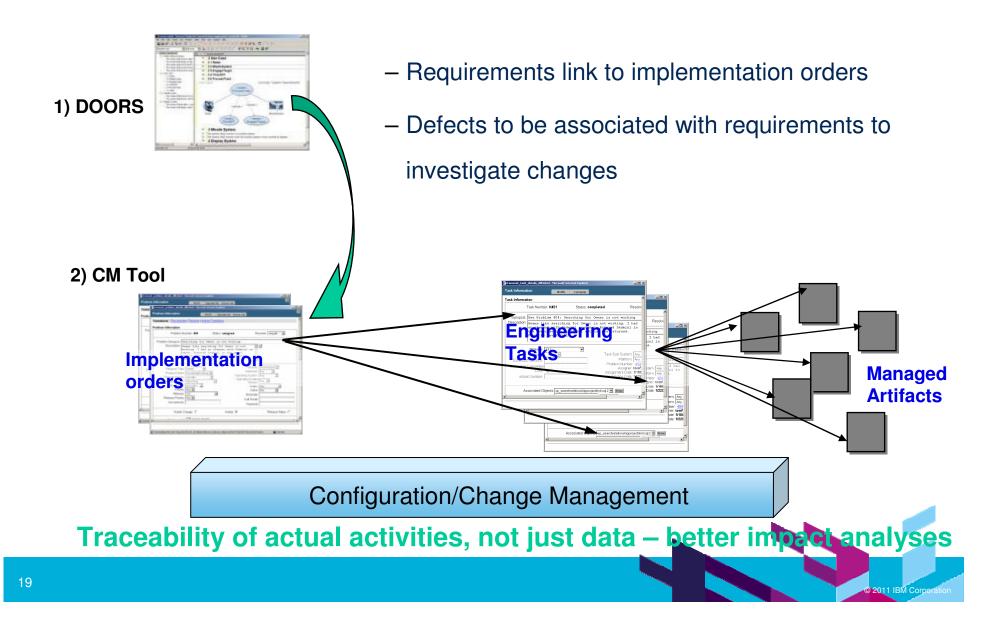


© 2011 IBM Corporation

New ALMRequest ∨ We're logged into local DB set OSLCLinks Site Administration ∨ Preferences Help ●Welcome ■SAMPL00000060 ≈ ■ ■ ■ ■ ■ Save Car ALMRequest: SAMPL00000060 ▼ ■ ■ ■ ■ Save Car *Request *Project Related Records *History Comments Attachments OSLC Links OSLC Links: CQ <-> CQ Links: Cross-server linking using OSLC! ■ ■ ■ ■ Add: Related Artifacts ▼ ■ ■ SAMPL00000005: columns out of alignment ™ SAMPL00000005: columns out of alignment ™ ■ ■ ■
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Add: Related Artifacts 🔻
Related Change Requests
El SAMPEODODODOS, columns dad or alignment
Defect SAMPL00000005 Main
T.0.0/SAMPL Page 1 of 6
Linked Defect record is in a different
schema repository (DB set 7.0.0) Headline: columns out of alignment Project: Classics
Keywords: Severity: 3-Average
Priority: 2-Give High Attention Owner: engineer Symptoms: Description: Testing batch update.
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openItem
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Requirement/Change Request traceability

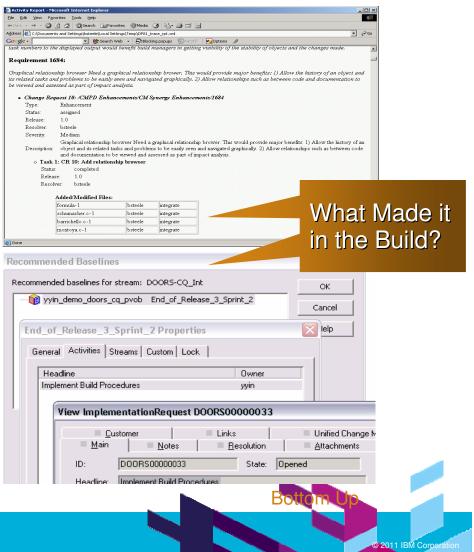


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Requirements Driven Development - Bottom-up Traceability

- Eliminate risk associate with not knowing what made the build
- Automate round-trip traceability from the bottom-up
- Increase quality of testing because requirements are known as partially included, fully included, or missing
- Deliver proof of compliance to the requirement for every build candidate sent for QA approval

Top Down





ClearQuest Change Management Advanced Solution Jazz based Collaborative Change Management

- Plan :
 - Agile, Iterative
- Track :
 - Estimate, Assign, Progress

Measure :

- Velocity :
 - Burn up
 - Burn down,
 - incoming,outgoing
- Predict :
 - Pessimistic, Optimistic

Dashboard & Report :

Personal Dashboards, Viewlets, Out of the box reports



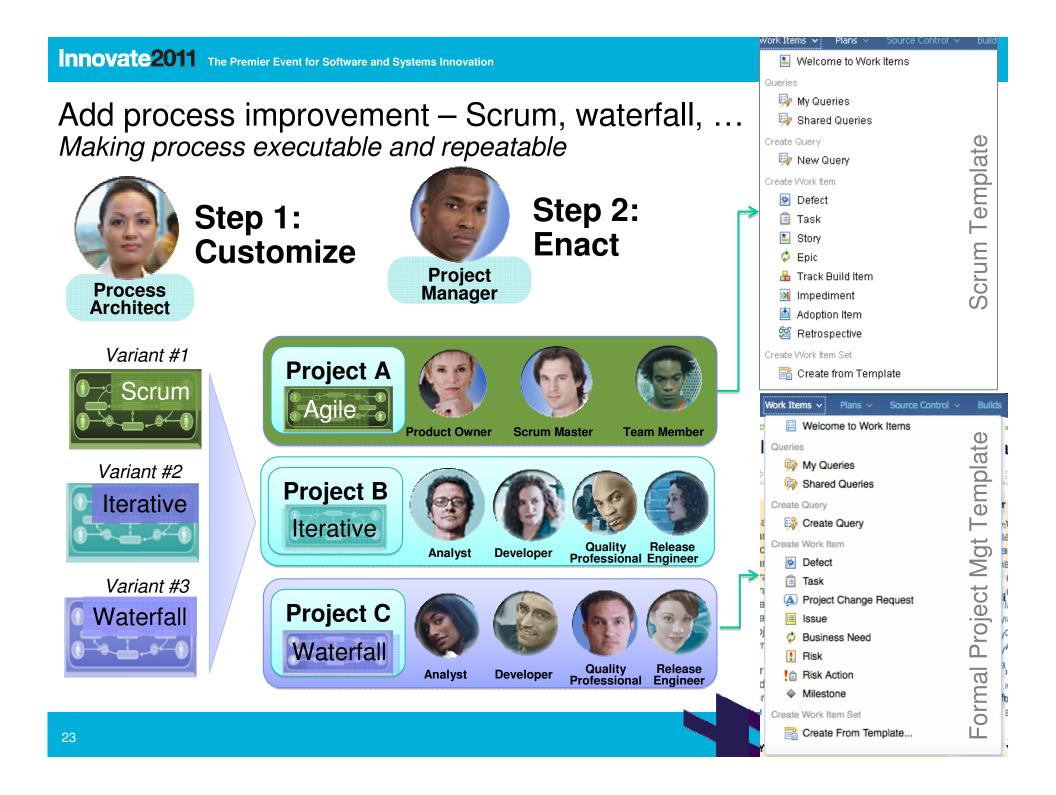
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Add Dynamic Planning to your existing CCM tools

• Provide both traditional and agile views on a plan

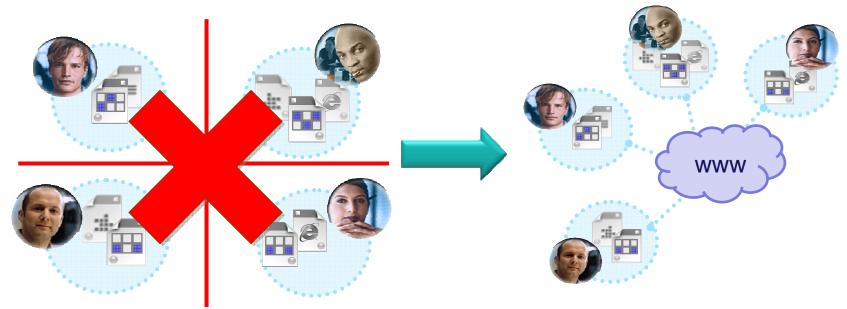
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Pla	n Details				Edit
1.00	As: Work Breakdown and Sch		otes	₽ , ⊂, @	T10 November 10 December 10 Januar
Planned Items	nks Snapshots Notes Andrew Hoo Closed Items: 1 Open Items: 4 Pick nice colors	Leat 621 +15 h In Progress Expose rendering for registrations 2 hours 2 days	Estimated: 100%		10 November 10 December 10 Janua 1/10/1/10/2/10/3 11/7 11/1/1/12/11/2/12/512/1/12/2 1/2 1
Story	Heather Fraser-Dube Closed Items: 1 Open Items: 1	Lood: 1/21 +20 h EXPose rendering for donations 1 hour 2 days Lood: 2/16.75 +14.76 h EXPoses	Estimated: 100% Resolved Implement the figure colors 1 hour 1 hour Estimated: 100% Estimated: 100% Finish the javadoc in our server APIs 4 hours 4 hours 4 hours		Gantt/Roadmaps any planning method access w/ transparency



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Add Collaboration across silos



- Silo'd teams; disconnected data
- Important discussions are lost to email project records are missing the "real reason" for decisions
- Unified team shares linked data
- ALM environment tracks what is important for delivering
- "Am I blocking others"
- "Are others waiting for my approval"

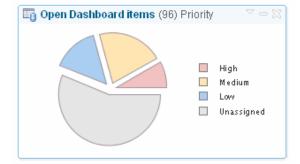
Every artifact is a web link. Traceability is automated as you perform work. Empower teams AND provide flexibility to utilize resources from anywhere.

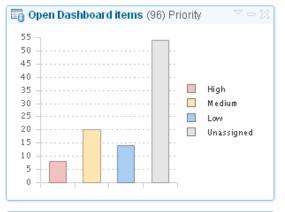
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Add Transparency and Project Status for Everyone "Every stakeholder knows project status without having to ask"

Jazz Project Descri		~		
Process enabled team	collaboration platform			
platform for seamlessly technology is called the	iject is to build a scalable, extensible team collaboration / integrating tasks across the software lifecycle. The new J Jazz Platform. The Jazz project is defining the overall Platform, and building an initial set of Jazz components Platform.		Open Work Items by Priority Tem 20 Tem Area: Alex Development/Dubband Concept: Dubband	
The work in the lett pr	pject is divided into development work and maintenance		Interval: 0.6 RC3	
work. Development wor	rk produces a consecutive line of releases. Maintenance eleases of the released produced by the development	S	print Burnup	
Development as well a:	s maintenance work is overseen by the PMC. The team	1	Print - an off	
	project area constitute the PMC.		18 -	
🚳 Jazz Project Memb	ers (11) 🗸 🗠	108		
		~ 100	16	
CQ Connector Account				
Dejan Glozic	dashboardadmin		14	
Erich Gamma	dashboardadmin, projectadmin, PMC, contributor		7.4	
Jean-Michel Lemieux	dashboardadmin, projectadmin, PMC, contributor		1211	
John Vasta	connectoradmin		12	
Kai-Uwe Maetzel	PMC, contributor			
Kevin Haaland	PMC, contributor		10	
Kim Moir Refer Klenk	projectadmin		Hours	
Peter Klenk Scott Rich	PMC, contributor		8 8	
Scott Rich	PMC, contributor Page 1 of 2		ĭ°//	
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ClearQuest Con	nector			
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User Assistance				
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X-Team Web UI				





🖥 Open Dashboard items (96) Priority	
High(8) Medium(20) Low(14)	
Unassigned(54)	

3/3/08

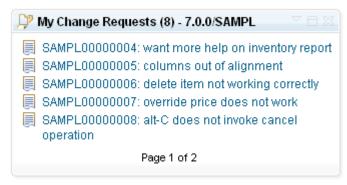
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Prio	rity	Count
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	Medium	20
	Low	14
	Unassigned	54

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Introducing Dashboards Support for ClearQuest Data Widgets with ClearQuest Query Results





- Create Multiple Widgets
- Associate ClearQuest Query Results
- Available with ClearQuest v7.1.2.1 or later

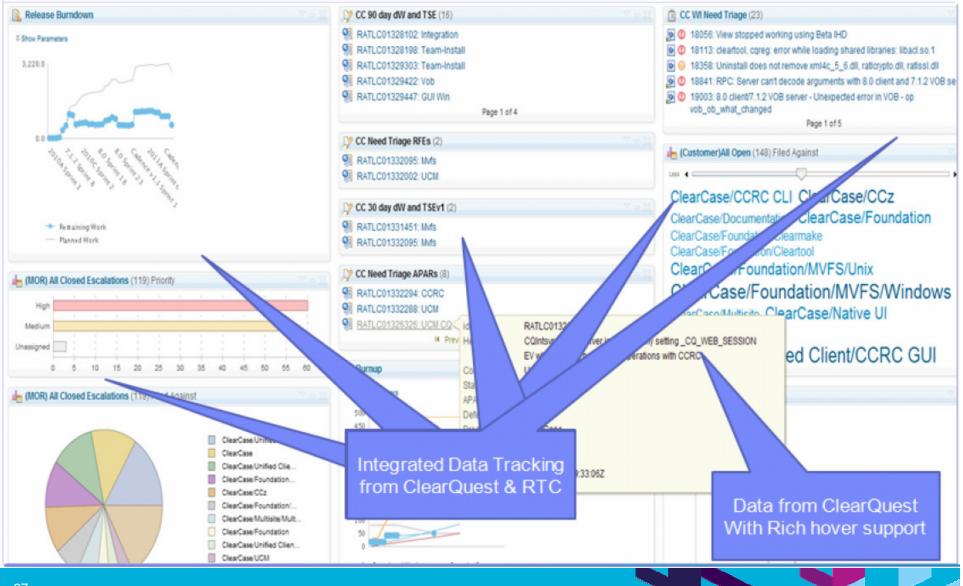
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General *			
💭 My Change Requests (6	i) - 7.0.0/SAMPL		
SAMPL00000004: want	more help on inventory report		
ID:	SAMPL0000004	State:	Duplicale
Headline:	want more help on inventory report	Project:	Classics
Keywords:		Severity:	S-Enhancement
Priority:	3-Normal Queue	Owner:	enginaar
Symptoms:		Description:	This would help users.
📄 SAMPL0000005: colum	nns out of alignment		
ID:	SAMPLDD000005	State:	Pastpaned
Headline:	columns but of alignment	Project:	Classics
Keywords:		Severity:	3-Jorerage
Priority:	2-Give High Attention	Owner:	enginear
Symptoms:		Description:	Minor problem, but let's fix it.





Dashboard with Integrated Information from ClearQuest

example usage by IBM Rational ClearCase Engineering teams



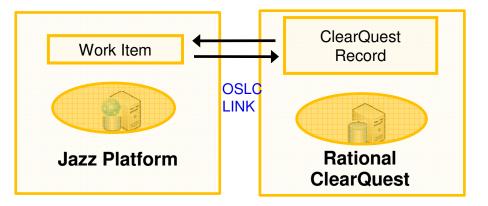
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The ClearQuest - Jazz Bridge

- General:
 - Connects 2 Systems through a link
 - The ClearQuest System & the Jazz System is connected through a OSLC Link
 - Does not copy data
 - Supports state transition management b/w systems
 - CAN link to **ANY** Ja∠z based product (we'll focus on RTC in this talk)
 - Tell the Jazz Server who it's friends are, tell ClearQuest Web Server who it's friends are

Specific:

- Allows ClearQuest customers to benefit from many features in Rational Team Concert (built on Jazz platform) while continuing to use ClearQuest.
- Associate ClearQuest records with Jazz work items in the Rational Team Concert Web client
- No data to synchronize
- Loosely coupled





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Welcome admin 2 | Links/SAMPL | Log out

ou have 0 new item.

ClearQuest Bridge: Capabilities

- Bi-directional links
 - See relationships no matter where you are
- Seamless user experience using delegated dialogs
 - Advanced selection dialogs
 - Fully functional creation dialogs (form layout and hooks work as expected)
- Rich hover
- Many-to-many links

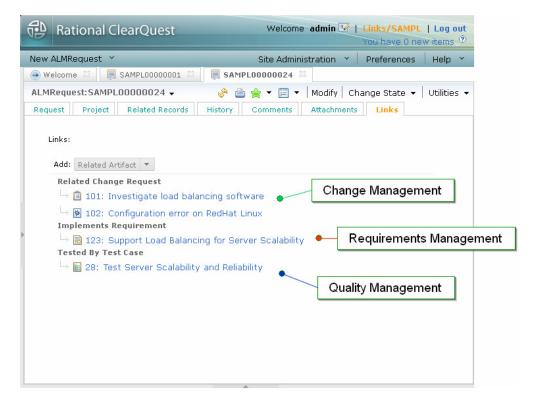
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or whore you				
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Rational ClearQuest

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Traceability with ClearQuest Bridge

- ClearQuest lets you link to resources from other repositories
 - Requirements
 - Related Change Requests
 - Test Artifacts
- Trace development across the software lifecycle
- View relationships no matter what tool you're using

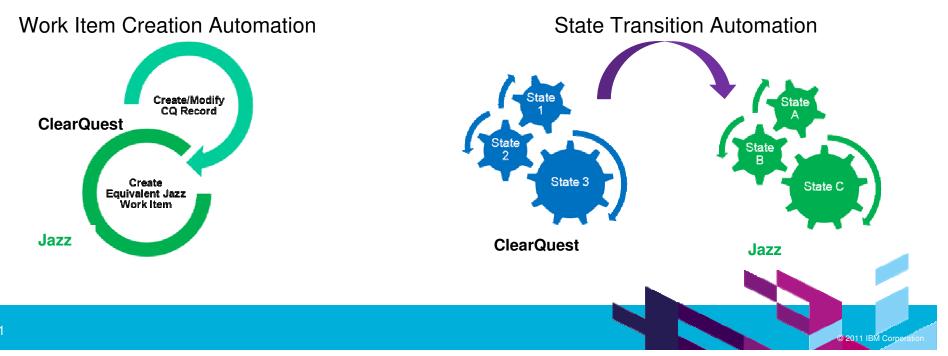






Process Management with Bridge

- Ability to create Jazz work items when creating ClearQuest records
- Ability to transition states in Jazz based on state changes in CQ
- Today you can automate this with ClearQuest hooks
 - These are custom Scripts/hooks that Customers have to write (or get help from IBM Services)



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NEW CQ PACKAGES to take advantage of ...

- New packages
 - EmailPlus 2.1
 - Attachments 2.1
 - ALMWork 1.3
- CQ ALM 1.3 package consists of
 - ALMWork 1.3, Attachments 2.1 and EmailPlus 2.1
 - Download from:
 - https://www-304.ibm.com/support/docview.wss?uid=swg24028637





CQ Package: EmailPlus 2.1

- Rich text support
- Form layout customization
- Rich rules support
- Multiple email protocols support
- Can be applied on any schema
 - Statefull and Stateless record-types are supported
- Supported on 7.1.2





Example Generated Email



<H1>New Defect Submission # #?ID?#</H1>

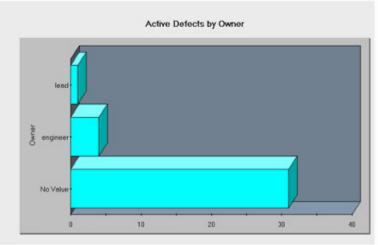
New Defect Submission # SAMPL00000054

Severity: 1-Critical Submission Date : 26 August 2008 This Defect was submitted by: ClearQuest Administrator(admin) EMail: cqadmin@home.com

Headline: A New defect has been born

Description :This new defect occured while I was running the automated test suite. I noticed that there was an inconsistentcy in terminaology used. In more places the word Logon is used, but on this screen it says Login

<H2>Current Workload Assignment</H2>
 #@embedchart::Public Queries/Distribution Charts/Active Defects by Owner:::@#
 Current Workload Assignment



ClearQuest

--//---

Generating Email Rule Name: New Defect Submitted Actioner User Name: ClearQuest Administrator

ClearQuest Web Link to New record





CQ Package: Attachments 2.1

- Store attachments to a remote FTP site
- Control attachment file size
- Can be applied on any schema
 - Stateful and Stateless record-types are supported
- Supported on 7.1.2
- Advantages:
 - Attachments are not replicated
 - DB size is smaller
 - Replication is faster
 - DB Backups are faster





CQ Package: ALMWork 1.3

- Pop-up forms support
 - Significantly reduces the number of clicks required to perform tasks
 - Pre-populate some fields for workflow automation
 - Supports multiple pop-up forms within the same workflow
- Requires CQ 7.1.2 or later
- When upgrading...
 - ... also upgrades to EmailPlus 2.1 and Attachments 2.1



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ClearQuest Web SmartCard Authentication Support

- For deployments where security requirements dictate stronger authentication than user name and password.
- Authentication through a user certificate enables two-factor authentication.
- Can configure smart card authentication for CQWeb such that the user must use a smart card and PIN to gain access.
- Can store a user certificate on a smart card that requires fingerprint biometric tests to access the certificate.





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Configure for SmartAuth

1. Understand your LDAP server registry settings.

2. Obtain the LDAP user name of the WebSphere® Application Server (WAS) administrative user.

3.Configure secure access to Change Management Server (CM Server) and ClearQuest® Web.

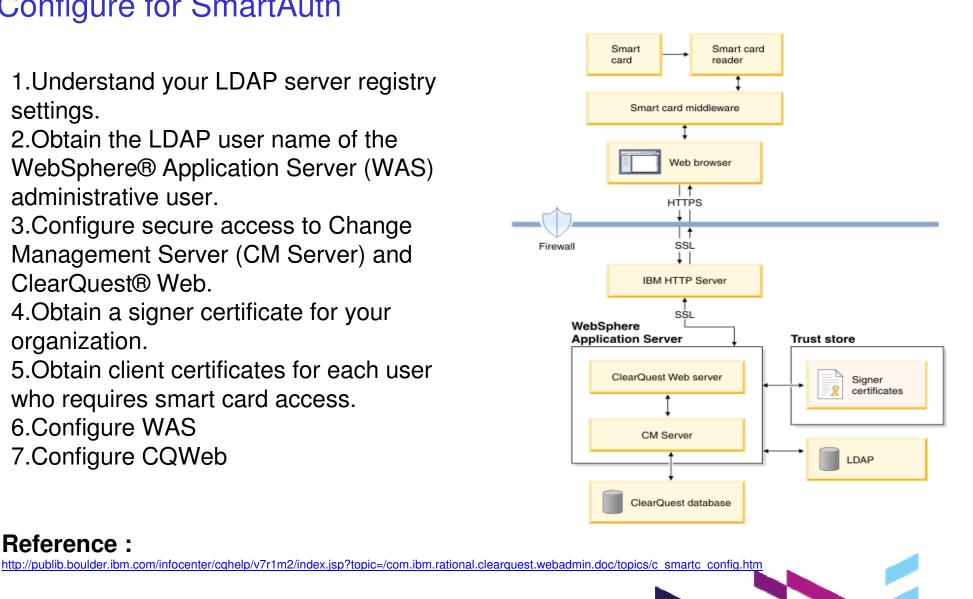
4.Obtain a signer certificate for your organization.

5. Obtain client certificates for each user who requires smart card access.

6.Configure WAS

Reference:

7.Configure CQWeb



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ClearQuest Custom UI Forms & Messages

- surface custom pop-up UI
- as part of a workflow through scripts

EXAMPLES :

http://publib.boulder.ibm.com/infocenter/cqhelp/v7r1m2/index.jsp?topic=/com.ibm.rational.clearquest.apiref.doc/topics/r_examples_openform.htm http://publib.boulder.ibm.com/infocenter/cqhelp/v7r1m2/index.jsp?topic=/com.ibm.rational.clearquest.apiref.doc/topics/r_examples_openurl.htm http://publib.boulder.ibm.com/infocenter/cqhelp/v7r1m2/index.jsp?topic=/com.ibm.rational.clearquest.apiref.doc/topics/r_examples_openurl.htm





Introducing ClearQuest Web Help One place for Documentation

Access Help via :

Internet

Intranet

Local Machine

Specify Option at Install Time

Or

Change option after install

More Info :

https://www-304.ibm.com/support/docview.wss?uid=swg21474628







...additional ClearQuest Change Management Capabilities

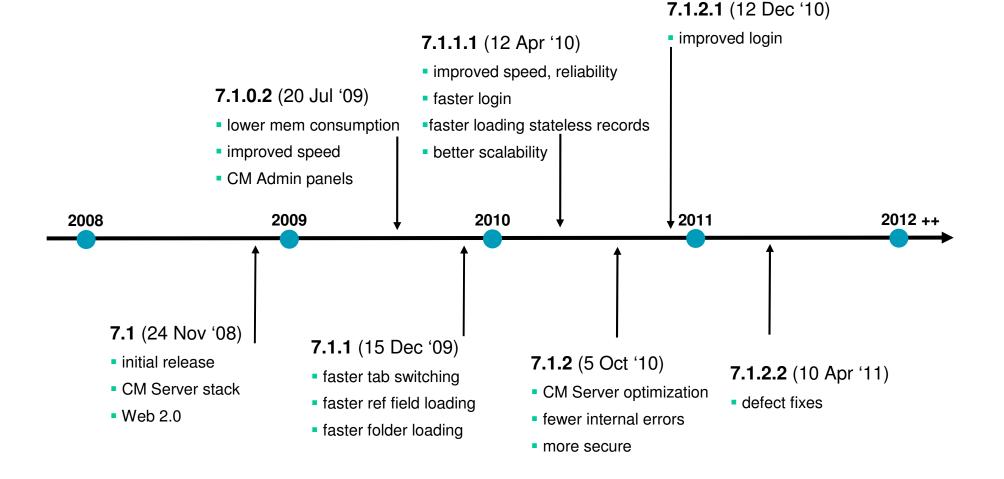
Over 30 additional Noteworthy Improvements in ClearQuest :

https://www-304.ibm.com/support/docview.wss?uid=swg21450027





ClearQuest Web 7.1.2 Performance Improvements







What's New(s)







Integrated Configuration & Change Management Realize Flexible CQ-Enabled CC Integrations

- ClearQuest Enabled Base ClearCase Integration
- ClearQuest Enabled UCM ClearCase Integration



Flexible ClearCase-ClearQuest Integration Deployment

ClearCase		ClearQues	t
Dynamic V	ïews	CQ WAN (CMServer)
Snapshot V	Views	CQ WAN (CMServer)
Web Views	s (CCRC)	Integrated	CQ WAN

1 CQ Server– Multiple CC Clients





Flexible ClearCase-ClearQuest Integration Deployment

- LAN ClearCase can communicate with WAN ClearQuest
 - ClearCase clients for Dynamic and snapshot views benefit from it
 - Ex. cleartool, Project Explorer, ClearCase Explorer, etc.
 - No impact to UCM use cases through CCRC or CQWeb

Uses OSLC 2.0 CQ REST API

- Comes installed with 7.1.2 CQ Web
- WAN-friendly calls over HTTP(s)

Implications

- Reduce need to deploy CQ thick clients
- Reduce dependency on CQ Multisite
- New functionality is available on platforms not supported by ClearQuest
 - Solaris X86, Linux 390, Linux PPC, HP IA64





Introducing Jazz Integration with ClearCase Dynamic Views

- Leverage Jazz capabilities with ClearCase
 - Set up **build** definitions that run out of ClearCase views
 - <u>http://www.youtube.com/watch?v=TPnAUzdBZxc</u>
 - Create work items directly from failed builds
 - Use agile planning to track tasks
 - Use queries, dashboards, reports, etc.
 - Collaborate with team members
- Link work items to:
 - Build results, plans, other work items, arbitrary data
 - ClearCase data (via ClearCase Bridge)
 - ClearQuest records (via ClearQuest Bridge)
 - Naviagate links in both directions



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Jazz General Build with ClearCase

- http://www.youtube.com/watch?v=TPnAUzdBZxc
- Create a build definition in RTC using the 'Command Line Jazz Build Engine' template
- Use a script to pull source code from ClearCase in a dynamic view
 - Consider direct integration with ClearCase in the future?
- Use any build engine (Jazz, BuildForge, etc.)
- Run the build engine on a build machine upon request or on a schedule
- Monitor build progress
- Set up Jazz Ant Tasks to push build information to the Jazz server
 - > Junit results, Java compile logs, artifacts, etc.
 - Users can download pushed files directly from the Build Results view
 - ClearCase-specific Ant Tasks in the future?
- Create RTC work items from failed builds
- Demo available in the Solutions Center





Link Plans to UCM with ClearCase & ClearQuest

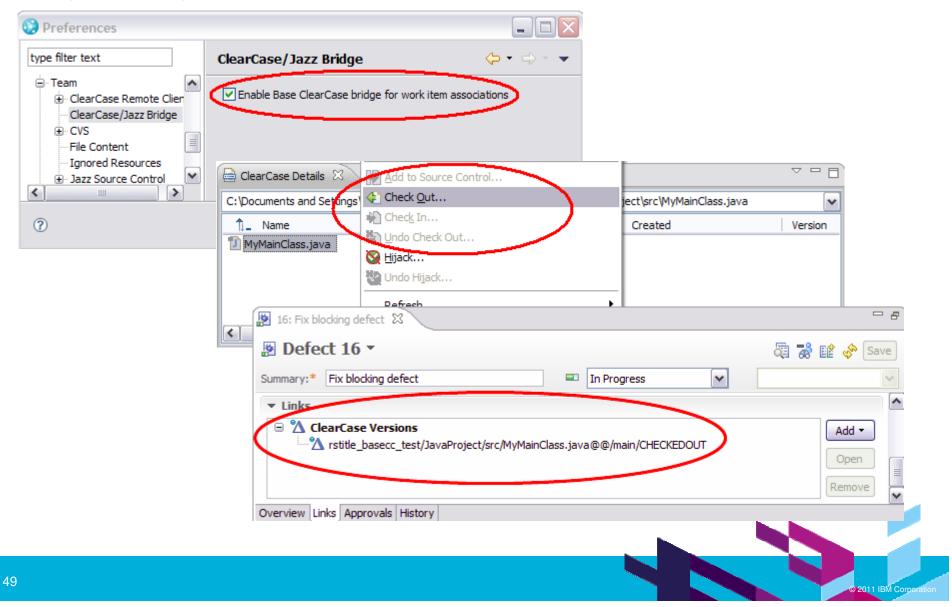
Linkage between plan items, work items and ClearCase

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Link Plans & Work items to Base ClearCase

Linkage between plan items, work items and ClearCase





Associate work items from Dynamic Views Using SCM Adapter

CM Activity Items X	
Activities for view: rstitle_scm_bridge	
<pre>bridge_activity bridge_activity fix_blocking_defect_dynamic_view fix_blocking_defect_dynamic_view rstitle_activity rstitle_activity</pre>	 Show properties Refresh activity view Set as default activity
	Associate Work Items Open Work Items Remove Work Items





ClearCase MultiSite – Synchronous Request for Mastership

What is SRFM?

New feature in 7.1.2.02 release

Issues a silent reqmaster during checkout of a remotely mastered branch

If mastership is transferred, allows the User's checkout to complete, so they can begin working immediately

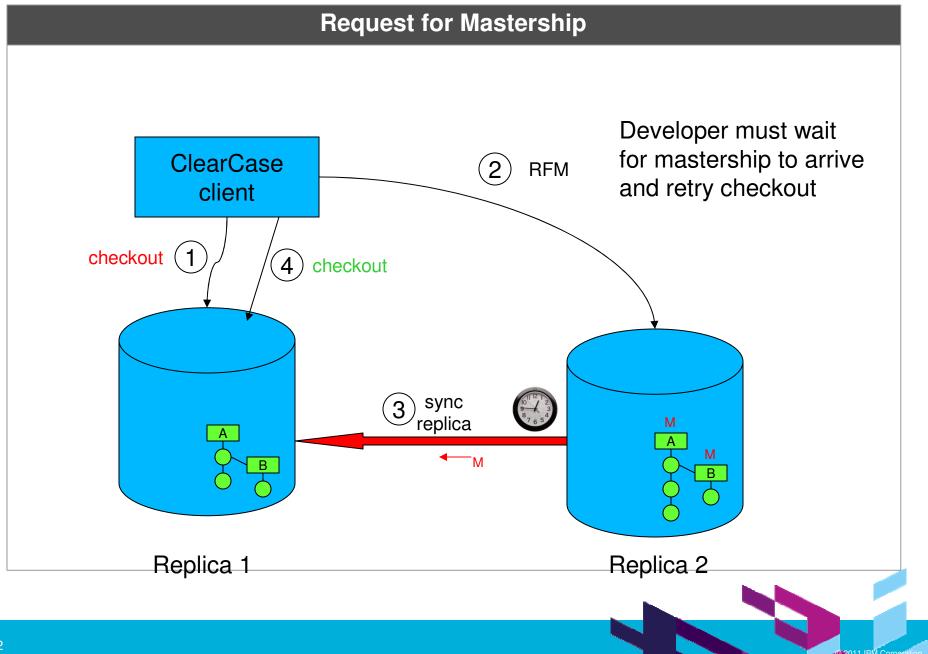
Eliminates the wait for syncreplica to happen before beginning work, BUT

User cannot checkin the new version until mastership arrives



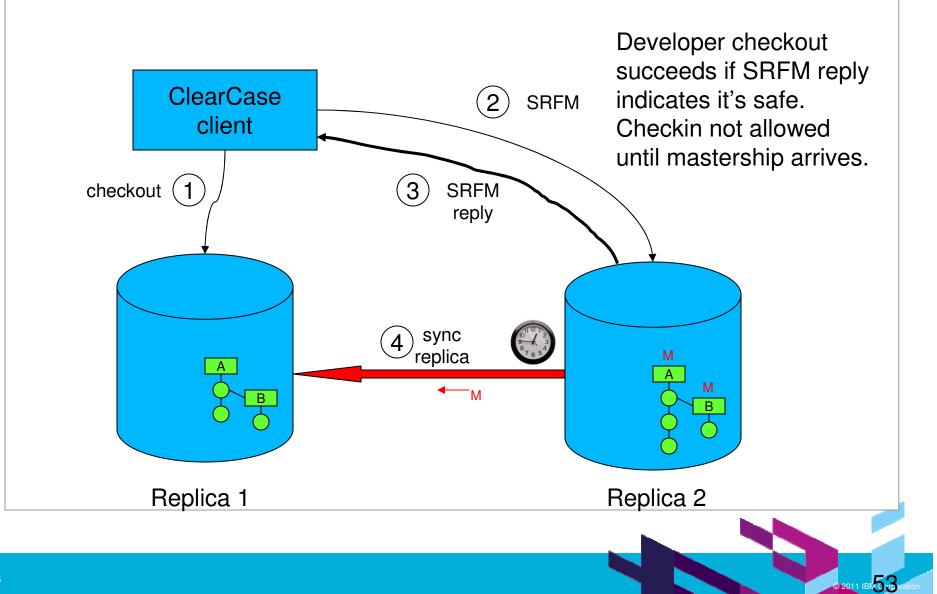
The Premier Event for Software and Systems Innovation







Synchronous Request for Mastership





EDA Tools Integration

IBM and Cadence Design Systems Providing codevelopment and verification management solutions for electronic and oftware design.

http://www-01.ibm.com/software/rational/offerings/cadence/



Innovate2011 The Premier Event for Software and Systems Innovation



IBM Rational ClearCase – Cadence Integration Bring Analog/Mixed Signal Designers under one roof

A First Class Integration of ClearCase inside Cadence Design Framework

Supports Instant on workspace access and integrated SCCM operations from within Cadence Design Framework

Share, Collaborate and Design analog and mixed signal circuits in a Geographically distributed development environment

Visualize and Track Changes inside the Design Framework

Realize Increased Developer, Team and Organization Productivity inside the Design Framework





ClearCase – Cadence Integration Capabilities

- A rich set of integrated Menus, toolbar, and custom user interface for workspace management and designer productivity
- Instant on Workspace support Ability to instantly access any large sets of data through ClearCase workspace (**Dynamic Views**) without having to pre-populate information
- Operations for Globally Distributed Development through MultiSite.
- Ability to perform version control operations from within your design environment
- Support for co-managed sets and Atomic Checkin operations
- Ability to manage design input inside Cadence DFII from open access data objects to SKILL, Circuit Design language (CDL), PSF, PSF XL, and others
- Ability to manage design outputs in ClearCase like Library, cell view and cell folder and file assets including XML database, PSF, PSF XL, scripts, and other related assets
- Supports 32-bit & 64-bit Cadence tools



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Cadence Integration – Working Model

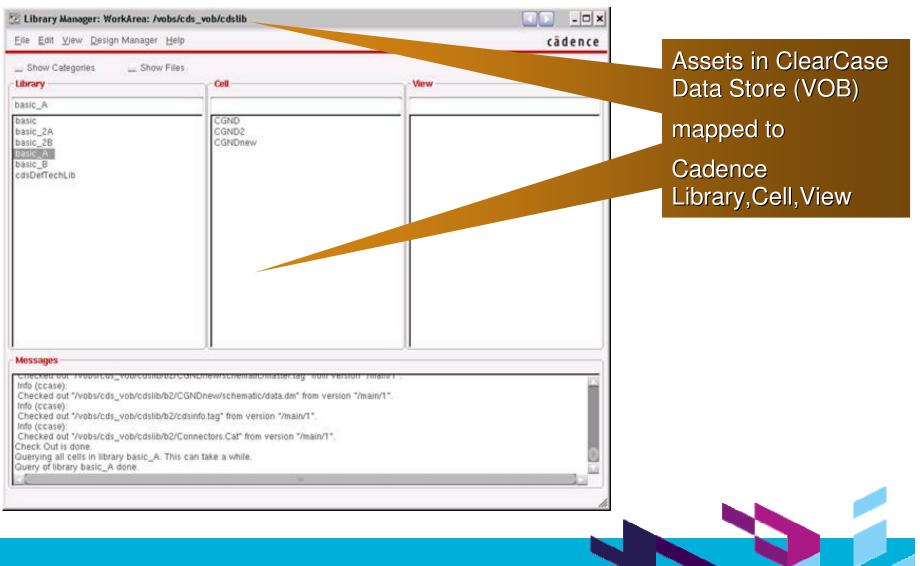
- Many / most Cadence artifacts are not mergeable
 - Reserved checkouts
 - Avoid branching
- Design libraries can be huge
 - Dynamic views
 - Effective management of very large workspaces / files
- Distributed teams
 - ClearCase MultiSite with Request for Mastership (RFM)
 - RFE in the works: Synchronous RFM with "pending reserved" checkouts
- Base CC & UCM
 - Base ClearCase for designers using Cadence Integration
 - Offers Atomic Checkin Support for co-managed sets
 - UCM for the organization (can use single-stream UCM)
- Workspace Configuration Specification Management Choices :
 - Frozen Model things don't change underneath
 - Dynamic Model things can change underneath



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ClearCase Work Area Listing

Inside Cadence Design Framework



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ClearCase Context Sensitive Menus

Inside Cadence Design Framework

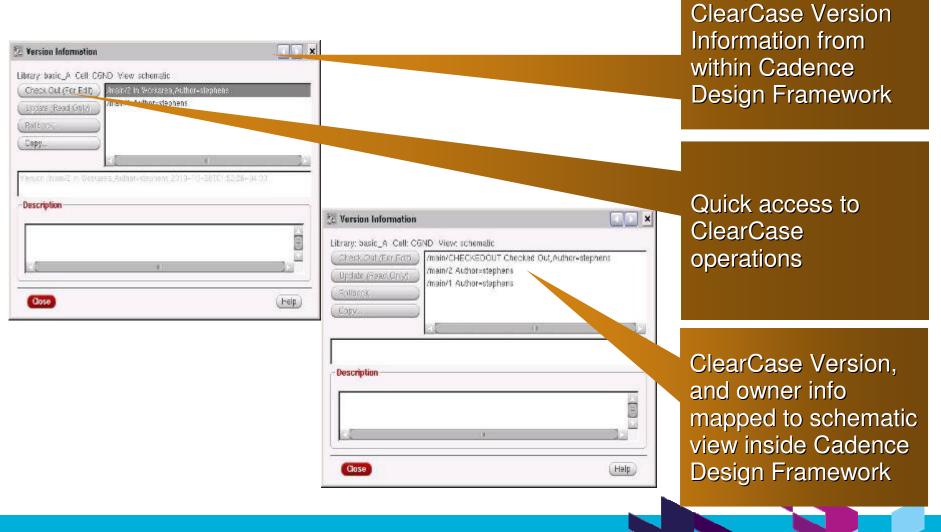
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Easily View

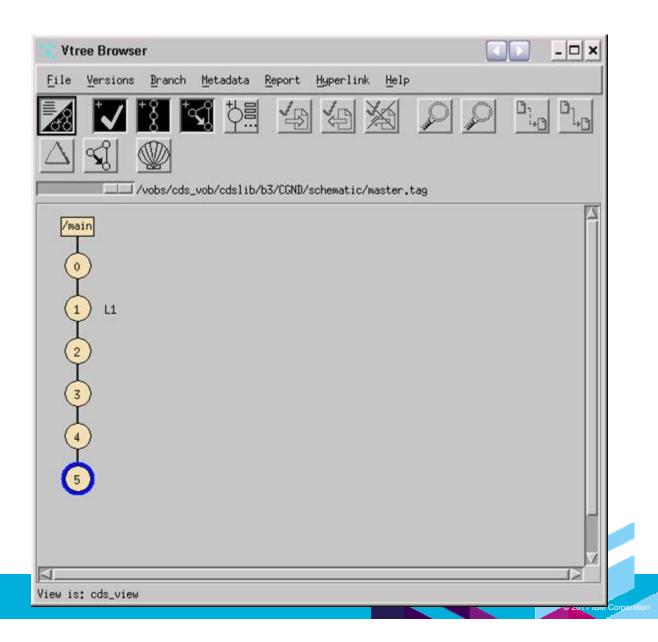
ClearCase Version Information

Inside Cadence Design Framework



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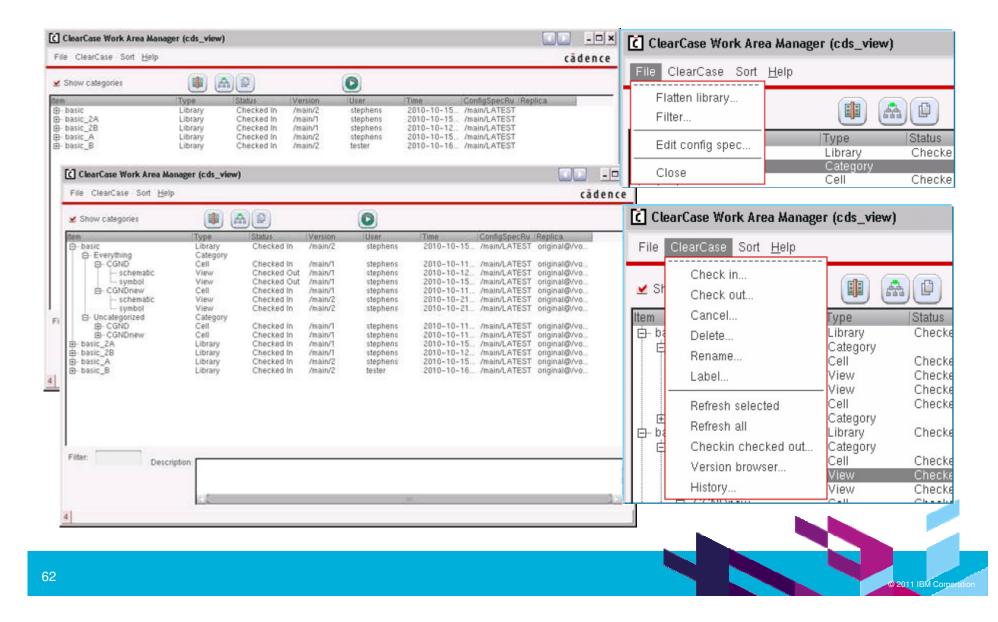
ClearCase Vtree Browser



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ClearCase Work Area Manager

Inside Cadence Design Framework



... More ClearCase Capabilities



Capability	Valu
Windows 7 with User Access Control Support Windows 7 BitLocker Support	Provides IT Compliance solution by addressing Security Needs of organizations that run Windows 7 software.
PKI/CAC – SmartCard access support for CC Native Clients and CQ Web	Addresses US Government/DoD security requirement on SmartCard authentication access
CC/CQ – Ubuntu 10.04 LT client support	Provides customers the ability to develop and build Android applications on Ubuntu 10.04LT client platform.
CC/CQ – Token License Support	Provides customers the flexibility in licensing to deploy Rational Solutions to address business needs by purchasing license tokens that can be used /moved around between several Rational products
63	© 2011 IBM Corperatio

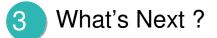


Session Agenda

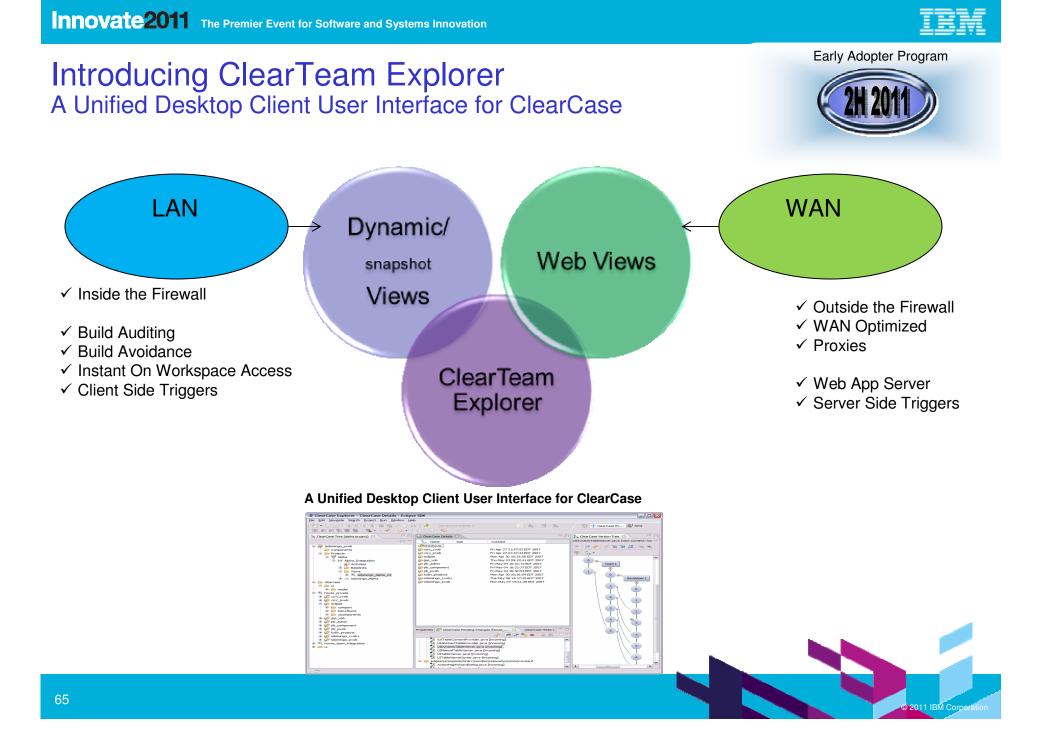


What happened in the last decade – A Look Back

2 What's New(s)?









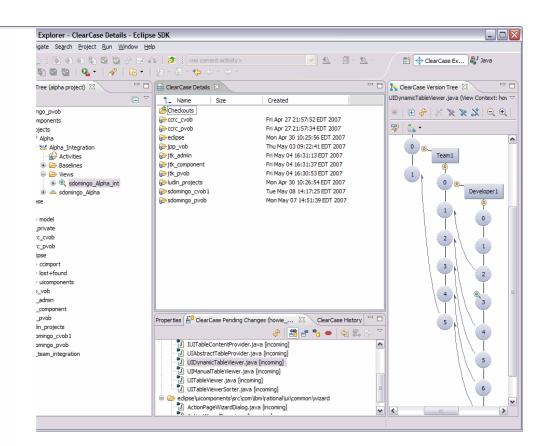
ClearTeam Explorer

Increased Developer productivity with:

- Support for Dynamic & Web Views
- Preferences and Workspace Filters
- One click Deliver and Rebase
- Recursive Check in
- Multisite Support
- Project Lead Support for base and UCM

Increased Team productivity with:

- Integrated CQ Forms & Queries
- Pending changes view
- Eclipse shell-share support
- Integrated Jazz based Collaborative Development Support



A Unified Desktop Client User Interface





ClearTeam Explorer Capability Highlights

- Atomic Commit Support
- Jazz Integration for Collaborative Development
- Pending Changes View
- Deliver/Rebase enhancements
 - Streamlined "default" operations for agile
 - Automated make/recommend baseline following deliver
- Scheduled operations
 - Notifications for view updates
 - Notifications for new baselines
 - Refresh of pending changes view

New Common Dialogs

- Simple, Detailed versions
- Customization
- Preferences
- Recursive support within view namespace
- Filtering support for recursive operations
- Aggregated change indicator
- New Preferences
 - Identical Checkin handling
- New Wizards
 - > Join Project, Create View, Create Stream
 - Apply Label
- Tasktop/Mylyn integration
- Automated discordance detection

- New Edit Configuration (load rules) dialog
- Contextual operations
 - Create Stream in stream context
 - Create View in stream context
 - Join Project in stream context
- New Change Set View
 - > Drag and drop versions between change sets, activities
- Integrated CQ
 - New CQ (SQUID) integration
 - > Create any CQ Record, Find by ID, Find Recent
- UCM
 - > Toolbar: Deliver/Rebase, Activity Mgmt, Join Project
 - Activity caching (performance)
 - > Option to load both dev & int views when joining project
- Explorer enhancements
 - Address Bar
 - Working Sets
 - Disconnected mode support
- Differencing and Merging
 - Third-party diff/merge tool support
 - VTree merge selected versions
- MultiSite
 - Automated Request for Mastership
 - mkelem -master





Collaborative Development with ClearTeam Explorer

- Jazz Build Integration enables you to better manage and streamline ClearCase Builds.
- Bidirectional links between Agile planning in RTC to CC builds, activities, versions promotes traceability
- Flexible CQ/CC Integrations with no CQ local-install improves consumability and cost of ownership

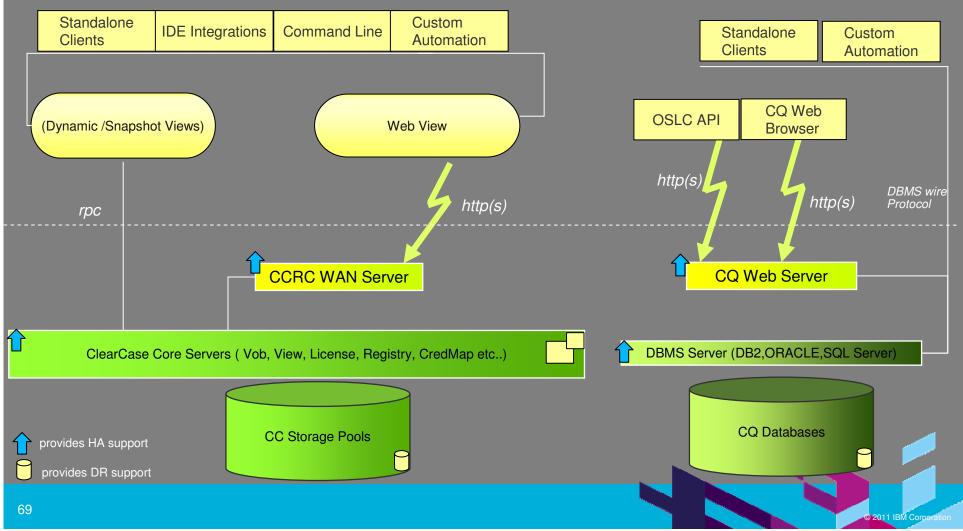




ClearCase and ClearQuest Architecture 2011

Goal : Flexible Deployment. Improved Performance

ClearCase Clients



ClearQuest Clients

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Rational ClearQuest Reporting Solution



Report Authoring	• Author Reports on data from a single and/ or linstances
Report Consumption	Consume Reports via the web or desktop
Report Management	Version control and secure access to reports
Enterprise Deployment	Deploy report consumption and management for the enterprise
Business Performance Management	 Report on Linked Data and Trends for business performance management through data warehousing

IBM Confidential



Early Adopter Program

ClearQuest Reporting in 2011



	Authoring	Consumption	Managemen	
		•	C	deployment
BIRT	Data-pull report authoring with BIRT Report Designer (separate download)	Run locally hosted data-pull reports using BIRT Report Designer Run shared data-pull reports using separate web interface Information Center	ClearQuest Report Launcher for file- based management	ActuateOne (separate license)
Cognos	IBM Rational Insight (separate license)	IBM Rational Insight (separate license)	IBM Rational Insight (separate license)	IBM Rational Insight (separate license)
Crystal Reports	Data-pull report authoring using Crystal Reports Designer (separate license)	Run data-push reports from ClearQuest Client (Eclipse- based) via Report Server for Crystal Reports Run data-push reports from the ClearQuest Web client Run shared data-pull reports using separate web interface Information Center	ClearQuest Report Launcher for file- based management	SAP Crystal Reports Server (separate license)



IBM Rational ClearCase & ClearQuest Roadmap 2011

1H 2011 Deliverables 2H 2011 Deliverables

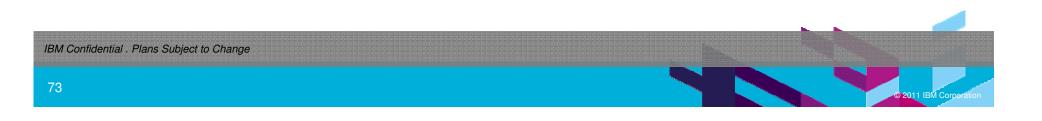
2011 IBM Corr

THEME	2011		
ALM Integration	 Unified ClearCase Client Integration to Jazz Platform base ClearCase and UCM support Rich Jazz work item association with ClearCase Eclipse 3.6 based shell-sharing support 	* *	 CQ Jazz Dashboard Data Visualization Support Requirements Change Management Integration update A common WAS 7 based Web Server Deployment serves CQ,CC and Jazz Web components
Developer Focused SCM Performance	 1.25x Faster UCC/Web Views workspace Loading 10x Faster Namespace Collision detection (Evil Twin I 	etection)	Note : Any performance data contained herein is measured in a controlled environment. Therefore, the results obtained in other operating environments might vary significantly. Users of this document should verify the applicable data for their specific environment.
Co-Development Solution for EDA	 Cadence Integration Support Supports CQ-Enabled CC use cases for Cac Supports MultiSite Synchronous Request for Supports both 32-bit and 64-bit Cadence DF 	Mastership	
Core SCM	 Unified ClearCase Client Support for Dynamic Views Support for Web Views Support for Flexible CQ-CC Integration 		/FS Mini-Filter Driver Support for Windows 7 ItiSite Synchronous Request for Mastership Support
Core CM	 CQ Reporting Solution Enhancements CQ ALM Enhancements CQ E-Mail Plus Package Solution CQ Infrastructure Enhancements 		 Data Visualization through Charting Open Social Gadget Support Web Help Support
products is for informational purpose	mation on products is intended to outline our general product direction and it is only and may not be incorporated into any contract. The information on the ent, release, and timing of any features or functionality described for our prod	products is r	not a commitment, promise, or legal obligation to deliver any material,



Q2 -2011 : ClearCase & ClearQuest

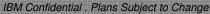
Themes	ClearCase & ClearQuest Offering Capabilities
EDA Tool Integration Enhancements	Rational ClearCase & ClearQuest - Cadence Integration update [Q2 2011] An update to Cadence Integration that offers integrated change and configuration management solution by surfacing ClearQuest integration to ClearCase within Cadence Design Framework, providing designers an integrated SCM workflow.
ALM Integration Requirements Change Management Update	Rational ClearQuest - Rational DOORS Integration update [Q2 2011] An update to ClearQuest-DOORS Integration that offers integrated Requirements Change Management that can be applied to any ClearQuest record type, to enable a Requirements driven development solution for individuals, teams and team of teams.





2H 2011: ClearCase & ClearQuest

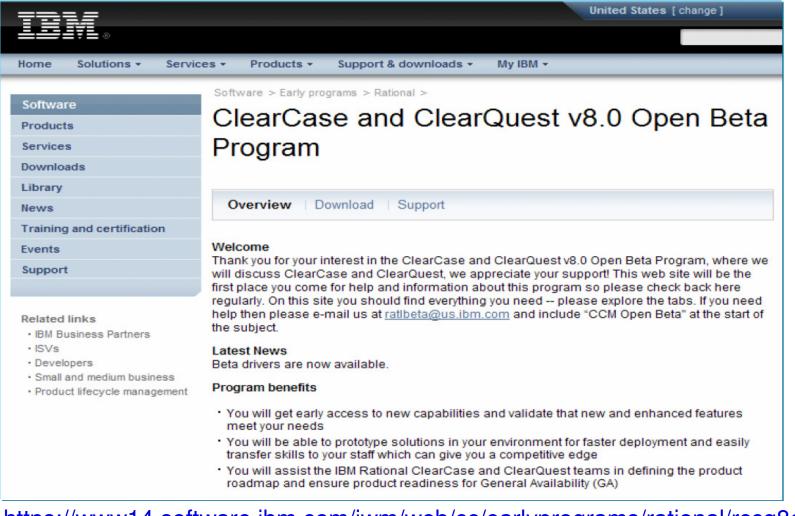
Themes	ClearCase & ClearQuest 2011 Planned Capabilities
Core CM/Core SCM Product Capability Improvements Note : Any performance data contained herein is measured in a controlled environment. Therefore, the results obtained in other operating environments might vary significantly. Users of this document should verify the applicable data for their specific environment.	 Building on solutions introduced in prior releases this offering provides capabilities in the following key areas: <u>Performance</u> (1)1.25x Faster WAN workspace Load <u>Usability & Consumability</u> (2) A Unified ClearCase Client built on Eclipse technology that promotes individual and team productivity for ClearCase LAN & WAN workspaces (3) A Flexible ClearQuest enabled ClearCase Integration based on the unified ClearCase Client (4) A revamped ClearQuest Reporting solution that offers better security. (5) The ability to independently install & update WAS 7 for ClearQuest and ClearCase WAN Infrastructure, allowing customers to deploy WAS security updates without having to install CQ/CC patch updates (6) The ability to update individual ClearCase on new platforms <u>Reliability & Quality</u> (8) Better MVFS Kernel component reliability on Windows OS (Windows 7 and above) when dealing with anti-virus software (9) Core SCM Reliability through Evil Twin detection & prevention and time storage inconsistency avoidance through 64-bit time storage solution (10) APAR fixes that improved both perceived and real quality of ClearQuest and ClearCase offerings
Application lifecycle management (ALM) Integration	 Building on the jazz integration technology, this offering plans to provide : (1)Unified ClearCase Client Integration to Jazz Platform supporting base ClearCase and UCM using Dynamic Views and Web Views. (2)Visualization of ClearQuest Data in Jazz Dashboards through Charts (3)Rich Jazz work item association with ClearCase (4)Eclipse 3.6 based shell-sharing support (5)A common WAS 7 based Web Server Deployment that serves CQ,CC and Jazz Web components ClearQuest is a OSLC Provider , while ClearCase is an OSLC Consumer.







ClearCase & ClearQuest 2011 Beta2 Now Available !



https://www14.software.ibm.com/iwm/web/cc/earlyprograms/rational/rccg8ob/

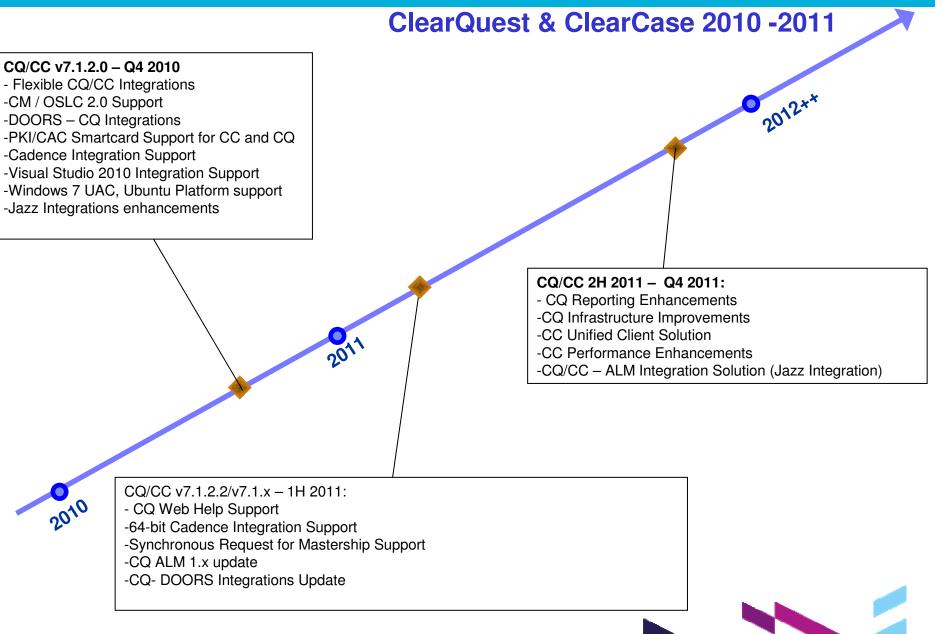
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ClearCase & ClearQuest Directions

We plan to continue CC and CQ enhancements with a focus on providing additional compelling value to address enterprise configuration and change management needs.

We plan to provide a first-class integration with Jazz Platform using connectors and bridges to address system and application lifecycle management needs.







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