



IBM Software Group

IBM Rational ClearCase/ClearQuest/SDP v2003 SR3/SR4/Atlantic Releases

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Rational software



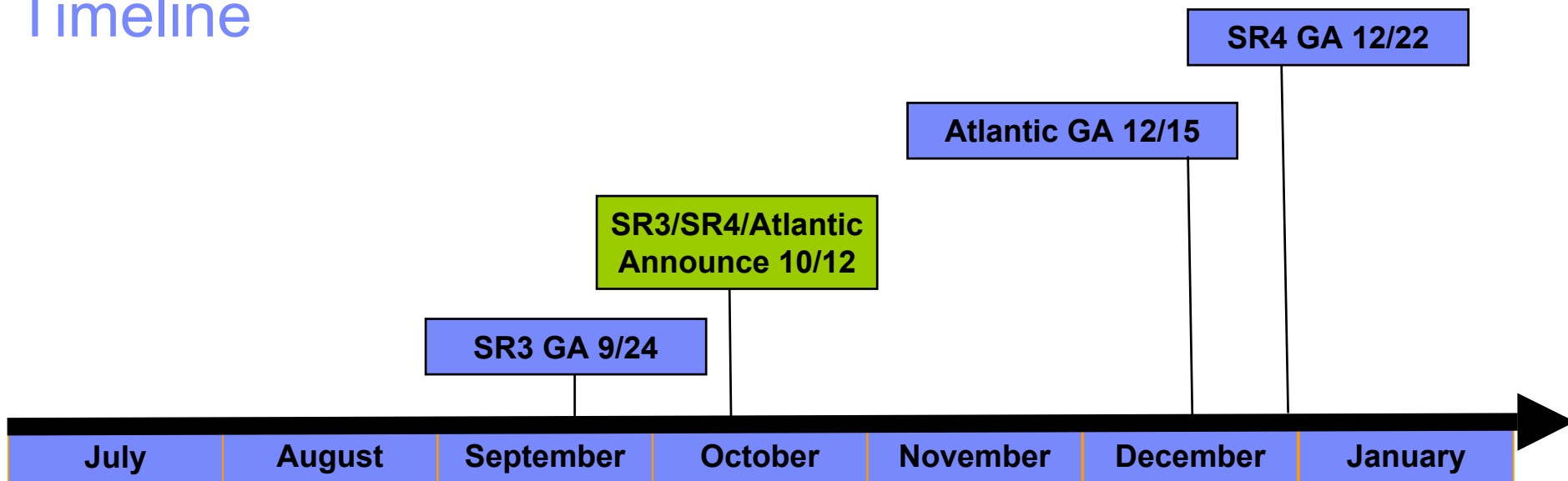
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Agenda

- **Installing, Configuring & Migrating existing customers**
- **New features technical details and usage**
- **Rational Software Development Platform**



Timeline



Installing and Configuring

- **New customers**

- ▶ v2003 SR3 is shipped to all new customers
 - v2003 SR3 does not require v2003 or v2003 SR2 installed
- ▶ v2003 SR4 requires v2003 SR3 installed

- **Existing customers**

- ▶ **Upgrading from v2003.06.xx**
 - Must uninstall CQ Web ASP or CQ Web Java before installing ClearQuest
 - Must upgrade CC and CQ to SR3
 - Install v2003 SR3 over previous v2003 installations
 - **Upgrading to one v2003 product requires upgrading all products**



Rational ClearCase/ClearQuest Agenda

- Installing, configuring & migrating existing customers
- **New features technical details and usage**
- Rational Software Development Platform



New Features Review

SR3



■ Enterprise Level Support and Scalability

- ▶ ClearQuest: DataDirect drivers for (Oracle 9i, SQL Server) on all platforms (replaces OpenLink drivers)
- ▶ ClearQuest: Crystal Reports 10 Runtime Environment (Client GUI and Web Java)
- ▶ ClearQuest: Site prep for Email notification
- ▶ ClearQuest: New Database Versions
 - Oracle 10
 - DB2 on zSeries
 - DB2 express
 - DB2 UDB components for Rational products (out of the box)
 - 8.1 SR3, 8.2 SR4
 - ClearQuest: New Platforms
 - Windows Server 2003
 - SUSE Enterprise Linux 8
- ▶ ClearQuest Web: Web Server available on all RWP platforms
- ▶ ClearCase long path support (long = 1024 characters instead of 256)



New Features Review



SR3

- **Develop Anytime, Anywhere**
 - ▶ ClearQuest: Web: – Java replaces ASP
 - ▶ ClearQuest MultiSite: UNIX/Linux Server Support
- **Open Heterogeneous Development Environments and Platforms**
 - ▶ ClearQuest: Client for Eclipse 3 (not part of the SR3 distribution but the plugin will be available as a separate download)
 - ▶ ClearQuest Web: Mozilla Support, Safari Support on Mac OS
 - ▶ ClearCase Eclipse 2.x plugin -bugfixes (distributed with XDE only)
- **ClearQuest Web and RequisiteWeb are now compatible**
 - ▶ You can now install all Rational Web products (ProjectConsole, ClearCaseWeb, ClearQuestWeb, RequisiteWeb) on the same server



DB2 UDB Components for Rational Products

- DB2 Express Edition 8.1.6 included in the box
- In point product (ClearQuest) and Suite products box
 - Included in the pGA (physical media) as an extra CD
 - Included in the eGA (electronic download) as an additional download
- ▶ **IMPORTANT:** Specific licensing for Rational users
 - for Rational use only
 - Can only be used to store ClearQuest, ProjectConsole and RequisitePro assets
 - Maximum of 25 concurrent users
- ▶ Separate install from the Rational install
- ▶ Full-fledge DB2 UDB (no technical restrictions) except:
 - Installed on up-to-2-CPU systems only
 - No 64 bit support
- ▶ No required DBA



Rational ClearQuest Client for WebSphere Studio – SR3

- A new client interface for Rational ClearQuest based on the Eclipse platform
 - ▶ Plugin for WebSphere Studio 6.0 (based on Eclipse 3.0 platform)
 - ▶ Replaces existing Rational ClearQuest V2003.06.00 plugin for WebSphere Studio 5.x
- Provides full Rational ClearQuest capabilities (java based)
 - ▶ New Rational ClearQuest perspective & views
 - ▶ Support for Queries (resultset), forms, charting
 - ▶ Support for creating & modifying all Rational ClearQuest record types
- Supports lifecycle integrations with other Rational tools in WebSphere Studio
 - ▶ View your ToDo list and submit defects directly from other perspectives



Rational ClearQuest Client for WebSphere Studio – SR3

- New responsive UI capabilities
 - ▶ Login, Record Submission, Run Query all run in the background
 - ▶ Users can display progress for background operations as well as cancel them
- Tree view for Query Results can be expanded to see parent/child relationships
 - ▶ Attachments, History, Duplicates, etc...
- Enhanced IDE integrations
 - ▶ Submit defects for compiler errors/warnings
 - ▶ Convert Task entries to Rational ClearQuest records
- Supports multiple Rational ClearQuest database logins at once

Name	Headline
+ SAMPL00000005	columns out of alignment
+ SAMPL00000006	delete item not working correctly
- SAMPL00000007	override price does not work
+ Attachment	
+ Duplicates	
- History	
+ 6/15/2000	Submitted
+ 8/1/2000 7:08:00 AM	Opened
+ 8/5/2000 7:55:00 AM	Resolved
+ 1/14/2004 4:29:39 PM	Resolved
+ 1/14/2004 4:29:47 PM	Resolved
+ SAMPL00000008	alt-C does not invoke cancel operation
+ SAMPL00000009	inventory re-order not done on large sale

Query: All Defects Type:



Rational ClearQuest Client for WebSphere Studio – SR3

The screenshot displays the Rational ClearQuest Client interface within the Eclipse Platform. The interface is divided into several views:

- Workspace view:** Located on the left, it shows a tree structure of the project 'stef,2003.06.00@SAMPL'. The 'All Defects' folder is expanded, showing a list of defects.
- Properties view:** Located below the Workspace view, it displays the properties of the selected defect (ID: SAMPL00000007). The properties include customer, customer_severity, description, headline, id, is_duplicate, keywords, note_entry, notes_log, old_id, owner, priority, project, ratl_mastership, record_type, resolution, and status.
- Console view:** Located at the bottom left, it shows the output of the application, including the message '(Defect and Change Tracking)'.
- Result Set view:** Located in the center, it displays a table of defects. The table has columns for Name, Headline, Owner, and Priority. The selected defect (ID: SAMPL00000007) is highlighted. A context menu is open over the selected defect, showing options like Change State, Validate..., Modify..., Reject..., Utilities, Duplicate..., Details, Refresh, and Properties.

The bottom status bar indicates 'Total 40 Defect(s), 1 Defect(s) selected'.

New Features Review

SR4



- **Enterprise Level Support and Scalability**
 - ▶ ClearQuest LDAP Support
 - Available only on a limited basis - not in GA Release
 - Must be for Windows Platforms, English Language, Active Directory installations
 - ▶ ClearQuest: 21CFR part 11 Standard Support
(partially, if ClearQuest LDAP is used)
- **Develop Anytime, Anywhere**
 - ▶ ClearCase Remote Client
 - ▶ ClearCase MultiSite Administration Console
- **Open Heterogeneous Development Environments and Platforms**
 - ▶ ClearCase Plugin for Eclipse 3.0



ClearQuest New Features for SR4



- **LDAP Authentication**

- ▶ **Reminder:** Available only on a limited basis - not in GA Release
- ▶ Definitions:
 - Authentication - Who am I
 - Verifies user id/password combination
 - Authorization - What can I do
 - Determines what applications you have access to, roles, permissions
- ▶ *For SR4, CQ will validate User/Password against LDAP server*
- ▶ *LDAP Servers: Active Directory, IDS*

- **21CFR Part 11**

- ▶ Field change logging
- ▶ Electronic signatures on change
- ▶ Password aging, length, format, etc enforcement via LDAP

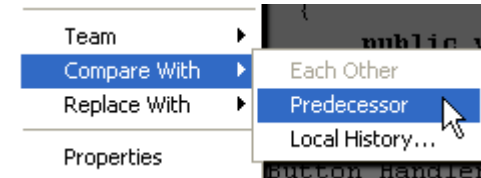
- **CrossPlatformSCM package**

- ▶ Provides support for coordinated multi-platform builds across SCLM repositories on z/OS and ClearCase repositories in Windows/Unix



ClearCase SCM Adapter Enhancements in Eclipse 3.0

- Improved compare/merge support
 - ▶ Integrated with Eclipse compare/merge framework
 - ▶ Requires CC v2003 SR3 or CC 5.0 patch 35
- Workspace / view management
 - ▶ Support for workspace switching
- Best practices and online help improvements
- Improved Disconnected Mode
 - ▶ Manual Disconnect (RATLC00024748)
 - ▶ New preference to auto-hijack a file when editing in disconnected mode (RATLC00667482)
- Miscellaneous usability enhancements
 - ▶ New Join Project operation from the ClearCase Menubar
 - ▶ Background task for connect operation (RATLC00667483)
 - ▶ Auto-connect disabled by default (RATLC00667486)
- Extended path support in ClearCase (CC SR3)



Who is the remote user?

- Full-time remote user
 - ▶ Users working out of small satellite offices Users who are not co-located near the IT data center
- Part-time remote user
 - ▶ Telecommuters
 - ▶ Off hours (nights and weekends)
 - ▶ Consultants
 - Moving from on-site to at one office to then another office
- Casual users
 - ▶ May be best served by a web solution



Changes in Work Environment

- End users are not always near the servers
- With Broadband, users can work from home
 - ▶ Users want to work in the same view at home they were using in the office the previous day
- Remote resources are being utilized better
 - ▶ Resources are not all located together
 - ▶ Remote resources are being brought into projects to work around staffing limits
- Mobile users are now common
 - ▶ Work from customer site
 - ▶ Work from the hotel
 - ▶ Work in one office and then another



4 Pronged Approach for Remote Users

- MultiSite
 - ▶ Addresses the needs of teams distributed in large groups
 - ▶ MultiSite not a solution for very small, very distributed teams
- Existing thin clients
 - ▶ Best solution for release engineers
 - ▶ Windows Terminal Server (WTS)
 - ▶ Citrix Metaframe
 - ▶ Telnet, rlogin
- ClearCase Web
 - ▶ Applicable for casual users
- **NEW!** ClearCase Remote Client (CCRC)



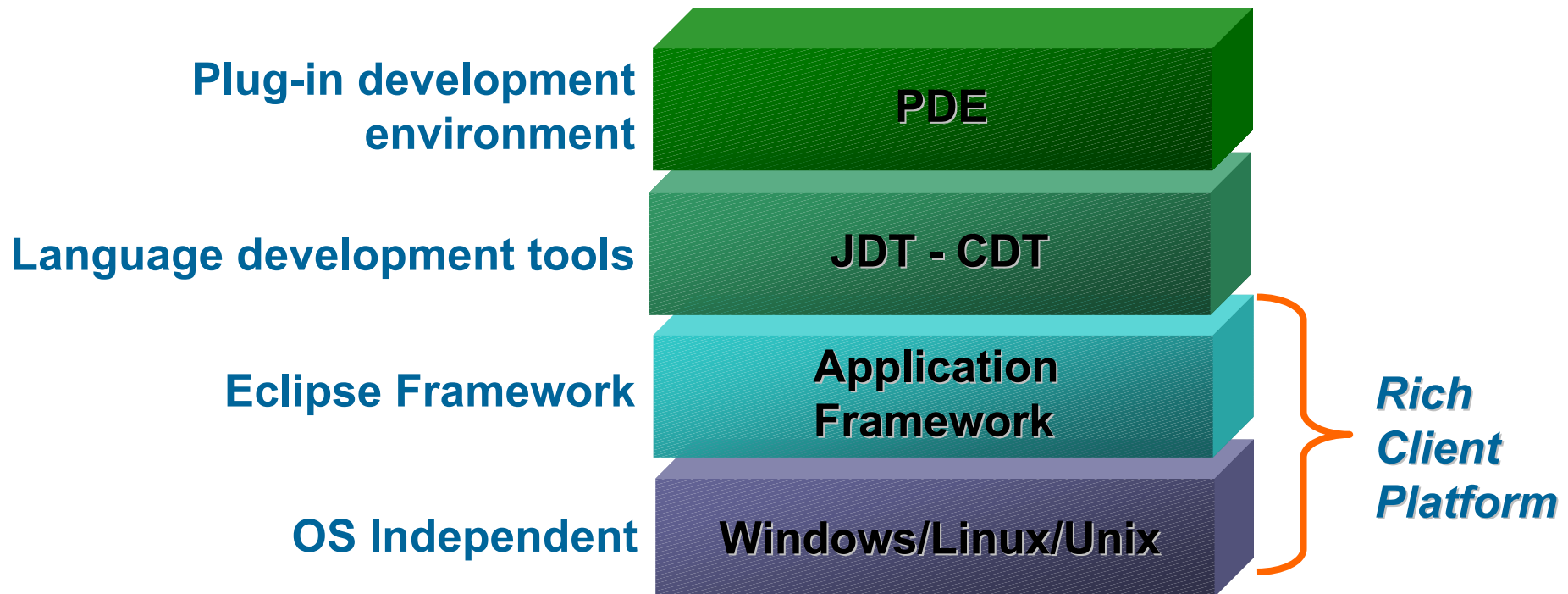
ClearCase Remote Client - Overview

- Improved WAN performance
 - ▶ Supports both local (LAN) and remote (WAN) usage models
 - ▶ Provide a complete solution for remote developers (regardless of their IDE)
- Improved user experience for Eclipse-based developers
 - ▶ Provides a deep integration with all Eclipse based tools
 - ▶ Easier client to deploy and upgrade
- Full lifecycle application development support
 - ▶ Enhanced Team integrations with Rational AD tools
- Provide a Unix/Linux GUI replacement for ClearCase
 - ▶ Leverages Eclipse Rich Client Platform (RCP) for non-Eclipse/WSxD users



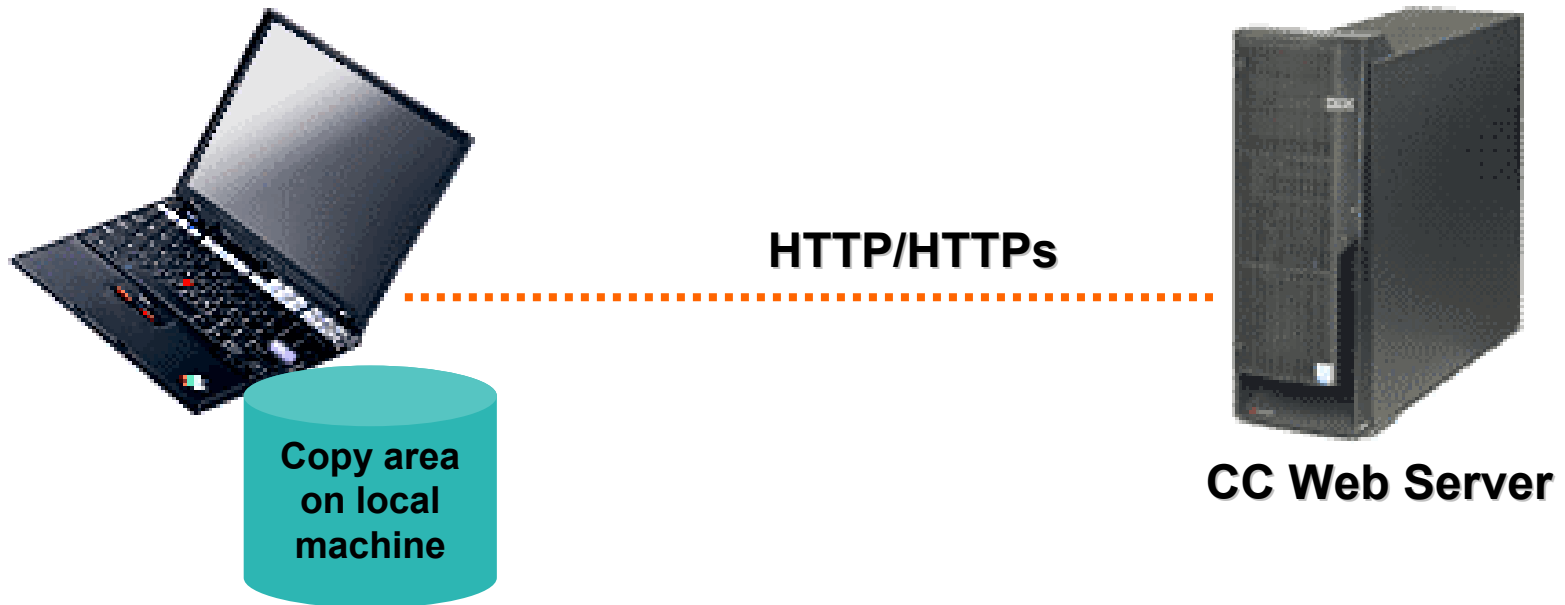
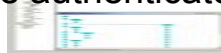
What is Eclipse?

- Open, extensible architecture based on plug-ins
- Multi-platform, multi-language, multi-vendor
- Out-of-box functionality and quality to attract developers
- Endorsed by major tool vendors
- Open-source



Remote Client – What is it?

- Designed for high latency networks
 - Utilize HTTP/HTTPs to communicate to server
 - Supports a well known protocol
- Requires only a single port to traverse firewalls
 - Supports reverse proxy
- Users are authenticated on the server



ClearCase Remote Client – What is it?

- Provide capabilities analogous to snapshot views
 - ▶ Dynamic views support not targeted for remote development
 - Utilize network file system protocols for underlying version access
 - These protocols are also RPC intensive, much like ClearCase
- GUI targeted as the highest priority
 - ▶ Java implementation utilizing SWT/Eclipse
 - ▶ CLI may follow depending upon need
- Allows for integrations
 - ▶ Browser interface can't be easily integrated with other tools

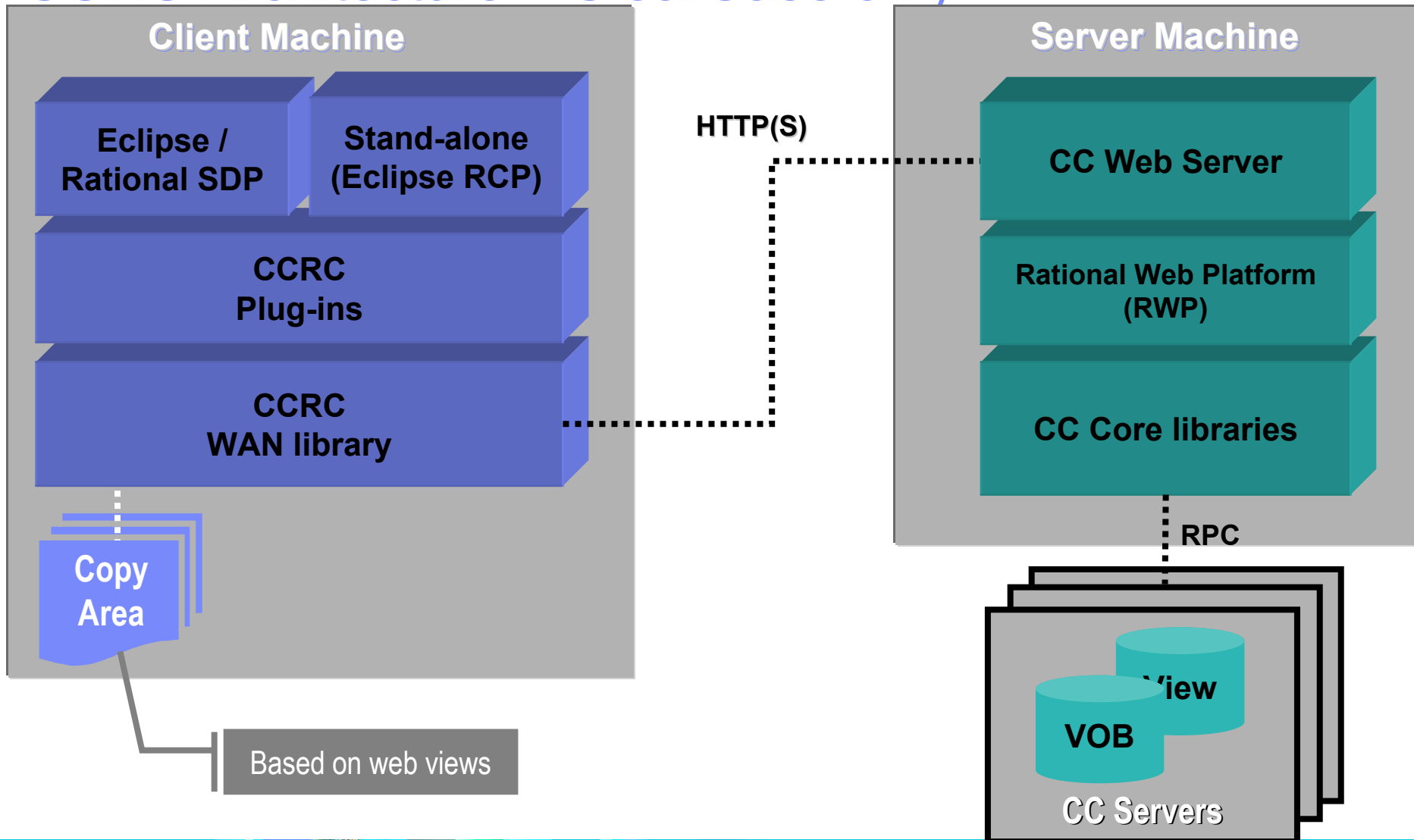


Remote Client – What is it?

- Uses WebViews - analogous to Snapshot Views
 - ▶ Provides capabilities analogous to snapshot views
 - ▶ Views have a local copy area on user's desktop
 - ▶ CLI will follow depending upon need
- Initially targeting the developer
 - ▶ Base ClearCase, CC UCM
 - ▶ ClearQuest enabled UCM (some restrictions)
 - ▶ Integrations w/ Eclipse/WebSphere Studio
- Stand-alone or Eclipse-based Usage



CCRC Architecture – ClearCase only



ClearCase Remote Client

ClearCase View Navigator

- Based on Java & Eclipse technology
- Targeted at any CC developer who needs remote access to ClearCase

ClearCase Remote Client

CCRC Plugin

Eclipse RCP

The screenshot displays the ClearCase Remote Client application window. The interface includes a menu bar (File, Edit, Actions, Environment, Window, Help) and a toolbar. The main workspace is divided into several panels:

- ClearCase Navigator:** A tree view on the left showing the project structure. It includes folders like 'My Activities', 'Classics', 'html', 'InvStat', 'jsdk2.1', 'lost+found', 'processes', 'Proj', 'RobotJDatastore', 'Rose', 'Source', 'com', 'rational', 'cdshop', 'admin', 'business', 'servers', 'servlets', 'util', 'WinDNA', 'word', and 'XML'.
- ClearCase Details:** A table on the right showing file details for the selected file 'Fonts.java'. The table has columns: Name, Size, Kind, and Modified Time.

Name	Size	Kind	Modified Time
AdminFrame.java	3051	File Element Version	Oct 19, 2004
CDAdmin.java	2313	File Element Version	Oct 19, 2004
CDMaintPane.java	17189	File Element Version	Oct 19, 2004
CustomerMaintPane.java	17452	File Element Version	Oct 19, 2004
Fonts.java	3612	File Element Version	Oct 19, 2004
Lagon.java		File Element	Oct 19, 2004
TaxMaintPane.java		File Element Version	Oct 19, 2004
- ClearCase View Configuration, ClearCase History Browser, etc.:** A table at the bottom showing the view configuration for 'View: stef_Rel3'. The table has columns: Name, State, and Path.

Name	State	Path
.project	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\project
bkg_gray.jpg	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\images\bkg_gray.jpg
html	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html
images	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\images
index.htm	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\index.htm
maintitle_beethoven.gif	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\images\maintitle_beethoven.gif
maintitle_brass.gif	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\images\maintitle_brass.gif
maintitle.gif	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\images\maintitle.gif
Privacy_Policy.htm	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\Privacy_Policy.htm
ThankYou.htm	Loaded	C:\Documents and Settings\demo\stef_Rel3\Classics\html\ThankYou.htm

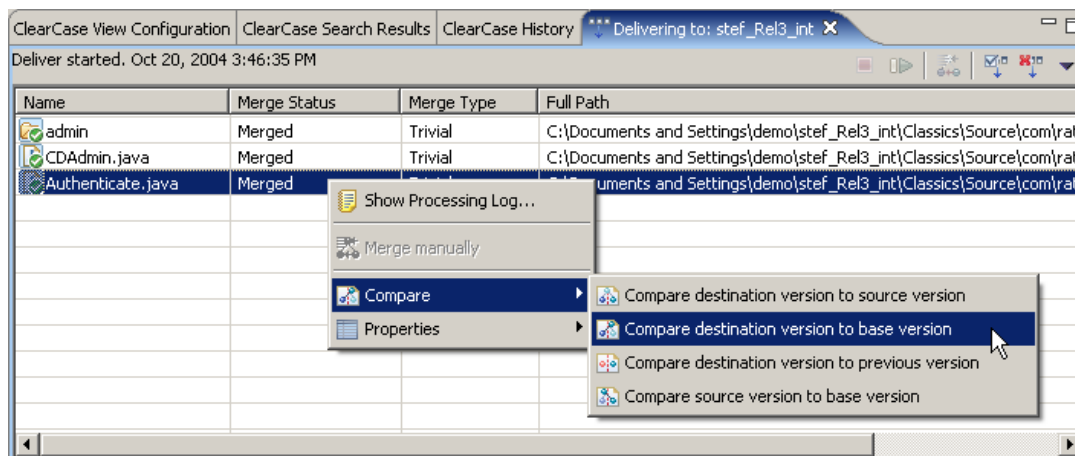
Features Included in SR4

- Basic ClearCase view management
 - ▶ Create View
 - ▶ Remove view
 - ▶ View update
 - ▶ Find files (checkout, hijack, view private)
 - ▶ Display/Modify view properties (config spec & load rules)
- Basic ClearCase version control operations
 - ▶ Add to source
 - ▶ Checkout (reserved & unreserved)
 - ▶ Checkin
 - ▶ Uncheckout
 - ▶ Hijack
 - ▶ Unhijack



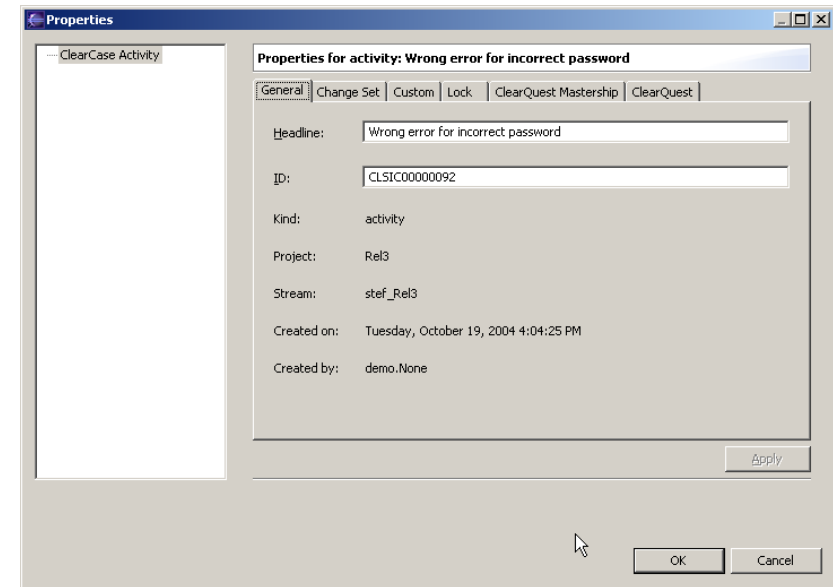
Features Included in SR4

- UCM (ClearQuest enabled and ClearCase only)
 - ▶ Join Project
 - ▶ Create an activity (CC-only)
 - ▶ Work-on activity
 - ▶ View My activities
 - ▶ Deliver/rebase
 - ▶ Finish Activity
- Compare/merge
 - ▶ Compare versions
 - ▶ Merge versions
 - ▶ Find Merge
 - ▶ Support for multiple CC element types (including text file, MS Word, and XML)



Features Included in SR4

- View/edit properties of ClearCase objects
 - ▶ Including activities, elements, versions, etc.
- Interactive Trigger support
 - ▶ All triggers run on server
 - ▶ Interactive triggers must use clearprompt
- History Browser
 - ▶ Table view of element history
- File/directory namespace operations
 - ▶ Move
 - ▶ Rename
 - ▶ Copy
 - ▶ Delete (rmname)



ClearCase View Configuration | ClearCase Search Results | **ClearCase History** | Delivering to: stef_Rel3_int

History: admin

Date	User	Name	Version	Event Kind	
Oct 20, 2004 3:43:54 PM	demo	/Classics/Source/com/rational/cdshop/admin	/main/stef_Rel3/CHECKEDOUT	checkout	W
Oct 20, 2004 3:43:54 PM	demo	/Classics/Source/com/rational/cdshop/admin	/main/stef_Rel3/0	create	W
Oct 20, 2004 3:43:54 PM	demo	/Classics	/main/stef_Rel3	create	W
Oct 14, 2002 3:36:09 PM	demo	/Classics	/main/1	create	W
Oct 14, 2002 3:35:30 PM	demo	/Classics	/main/0	create	W
Oct 14, 2002 3:35:30 PM	demo	/Classics/Source/com/rational/cdshop/admin	/main	create	W
Oct 14, 2002 3:35:30 PM	demo	/Classics/Source/com/rational/cdshop/admin	/main	create	W

Context menu options: Compare with Predecessor, Properties

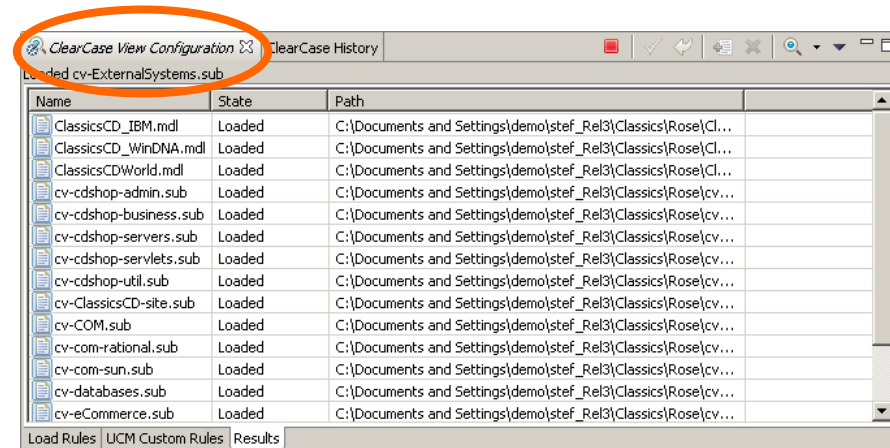
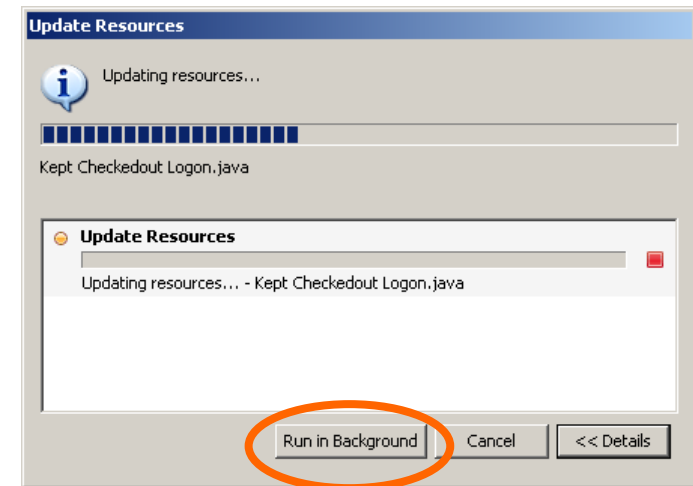


New Responsive UI capabilities

- Long running tasks can be run in the background
 - ▶ Deliver/Rebase
 - ▶ Findmerge
 - ▶ View update
 - ▶ Load resources
 - ▶ Checkin/checkout/add to source

- Progress view allows users to view status of background jobs as well as cancel them

- Visual indicator on view tab for background processing



ClearCase Remote Client for Eclipse

- Targeted at Eclipse/ Rational Software Development Platform users
- Support for Rational lifecycle integrations, including ClearQuest Client for Eclipse (available now!)

Eclipse Application

CCRC

CQ

JDT

CDT

IDE

PDE

Eclipse RCP

The screenshot displays the ClearCase Remote Client for Eclipse application. The interface includes a menu bar (File, Edit, Navigate, Search, Project, ClearCase, Run, Window, Help), a toolbar, and several panes:

- ClearCase Navigator:** Shows a project tree with folders like 'My Activities', 'Classics', 'stef_Rel3', 'html', 'InvStat', 'jsdk2.1', 'lost+found', 'processes', 'Proj', 'RobotJDatastore', 'Rose', 'Source', 'com', and 'rational'.
- ClearCase Details:** Displays a table of file elements for the path 'C:\Documents and Settings\demo\stef_Rel3\Classics\Source\com\rational\cdshop\admin'. The table includes columns for Name, Size, Kind, Modified Time, State, Version, and Rule.
- ClearQuest Query Results:** Shows a table of query results for the query 'alex,2003.06.00@CLSLIC'. The table includes columns for id, Headline, Owner, State, and record_type.

The ClearQuest Query Results table contains the following data:

id	Headline	Owner	State	record_type
CLSLIC00000092	Wrong error for incorrect password	alex	Opened	Defect
+ Attachments				
+ History				
2000-11-28 12:06:59.000000	Submitted	no_value	terry	
2000-12-07 15:15:12.000000	Submitted	Submitted	lou	
2001-01-03 10:52:41.000000	Submitted	Submitted	lou	
2004-10-19 16:02:54.000000	Assigned	Submitted	alex	
2004-10-19 16:04:25.000000	Opened	Assigned	alex	
+ Duplicates				
+ Test_Input_List				
+ Requirements_List				
CLSLIC00000065	inventory report is displaying an empty column	alex	Assigned	Defect
CLSLIC00000030	Cash Register should automatically reorder stock	alex	Assigned	EnhancementRequest
CLSLIC00000027	Request change due in larger font.	alex	Opened	EnhancementRequest
CLSLIC00000024	Change "Pay" to "Payment Method" on POS screen	alex	Assigned	EnhancementRequest
CLSLIC00000023	When clerks sell CDs, warehouse should back fill	alex	Assigned	EnhancementRequest
CLSLIC00000022	Replenish inventory as a result of sales	alex	Assigned	EnhancementRequest

At the bottom, the status bar shows: Query: Personal Queries/MyToDoList, Type: ...uests, Total: 7, Selected: 0.

Eclipse Features Included in SR4

- Eclipse Integration capabilities
 - ▶ Supports Eclipse 3.0
 - ▶ Supports any of the Rational Software Development Platform 6.0 products
 - Including Rational Application Developer, Rational Software Architect, etc.
 - Comprehensive compare/merge support for UML models
 - ▶ Complete ClearCase perspective & views
 - Integrates with any other Eclipse perspective
 - ▶ Eclipse Team provider support
 - Ability to Import/Export Team Project Sets from the CC perspective
 - Automatically updates load rules
 - Ability to Import Projects from the CC perspective
 - ▶ Integration with the Eclipse compare/merge tools for performing structured Java comparisons
 - ▶ Supports Eclipse Compare/Replace With operations



Platform Support

- Web Server Platform Support
 - ▶ Same as ClearCase Web server platform support
 - ▶ CC Web Server must be at v2003.06.14+
 - ▶ VOB Servers must be at v2003.06.00+

- Client Platform Support
 - ▶ Windows XP Pro SP1, Windows 2K Pro
 - ▶ RHEL 2.1, 3.0
 - ▶ SLES 9



MultiSite Administration Console

- Admin console to graphically view deployment status
 - ▶ Empower administrators with graphical deployment information
 - ▶ Available from IE and Netscape browsers
 - ▶ Utilizes RWP (no separate web server configuration required)
 - ▶ Supports remote administration capabilities



MultiSite Administration Console

- Runs in web browser
- Supports monitoring and administration of all VOB family replications from anywhere

Rational MultiSite Administration - Replicated VOBs - Microsoft Internet Explorer

Address: http://roadrunner/ccasems/msweb/bin/nt_i386_debug/msweb.exe

Context: Replicated VOBs

Replicated VOBs

Select a replicated VOB to view synchronization information for the VOB family.

Enter VOB Tag: Go

92 total VOBs, 93 shown

92 total VOBs, 93 shown

VOB List:

- \stardust\ntrep
- \01-ms-test
- \Mentor_VOB
- \X11
- \addon_unix
- \admin
- \applets
- \appletsn
- \atria
- \atrian
- \beowulf
- \booch
- \bugbert
- \bugbert.3dparty
- \bugbert.ccase
- \bugbert.design
- \bugbert.src
- \bugbert.test
- \bugbert.tools
- \bugbert.web
- \bugbert.ccase
- \ldmm_testvobB1
- \ldmm_testvobB2
- \ldmm_testvobC1
- \ldmm_testvobC2
- \ldmm_testvobC3
- \ldiscoll_orig
- \ldrken_hop_two
- \ldrken_ms_nt++
- \ldrken_ms1e1
- \ldrken_ms1e2
- \ldrken_msrep1
- \ldrken_msrep2
- \ldrken_mulsite1
- \ldrken_mulsite2
- \lgalaxy_src
- \ljk_atria
- \komar-1008-rep-nt
- \komar-barley-groups
- \komar-barley-o
- \komar-barley-rep
- \komar-shp-barley

Rational MultiSite Administration - VOB /dmm_testvobC1 Family Synchroni...

Context: Replicated VOBs

Synchronization Status for VOB: \dmm_testvobC1

Status Date: Mon, 27 Jan 2003 16:28:06 UTC

Total Replicas: 3

Replica	r1	r2	r3
r1	dmm_testrepC1 [local]	0/0	2/5
r2	dmm_testrepC2	2/6	0/0
r3	dmm_testrepC3	2/6	0/0

Most Recent Synchronization Attempts for: Replica-dmm_testrepC1 / Server-roadrunner

Status Date: Mon, 27 Jan 2003 16:28:06 UTC

Total Sync Attempts: 3

Sync Ended	Status	Sibling Replica	Sibling Replica Server	Kind	Type
Mon, 27 Jan 2003 11:00:02 UTC	Failed	dmm_testrepC3	salty	import	VOB packet
Mon, 27 Jan 2003 11:15:02 UTC	Failed	dmm_testrepC2	astoria	export	VOB packet
Mon, 27 Jan 2003 11:30:02 UTC	Failed	dmm_testrepC3	salty	export	VOB packet

Click here to view epoch numbers and times

Local intranet

Changes in Platform Support

▶ **ClearCase Added Support (no platforms dropped)**

- Red Hat Enterprise Linux (RHEL) 3 – zSeries, AMD64, EM64T (SR3)
- SUSE Linux Enterprise Server 9 AMD64, EM64T (SR3)
- HP-UX IPF 11.23 (SR3)
- SUSE Linux Enterprise Server 9 zSeries (SR3)
- AIX 5.2, 5.3 (SR3)

▶ ClearCase Web:

- Client:
 - Mozilla 1.7 (SR4)



Changes in Platform Support

- **ClearQuest:- Added Support (no platforms dropped)**
 - Database Versions (all SR3)
 - Oracle 10
 - DB2 express
 - DB2 UDB for Rational (out of the box)
 - OS Versions
 - Windows Server 2003 (SR3)
 - Windows XP SP2 (SR3)
 - RHEL 3 – AMD64 , EM64T (SR3)
 - SUSE Enterprise Linux 8, 9 – AMD64, EM64T (SR3)
 - SUSE Enterprise Linux 8, 9 – zSeries, pSeries as DB2 server (SR4)
 - AIX 5.3 (SR4)
- ▶ ClearQuest Web Client:
 - Safari 1.23 on Mac OS (SR3)
 - Mozilla 1.7 (SR4)



Agenda

- Installing, configuring & migrating existing customers
- New features technical details and usage
- Rational Software Development Platform



Most significant advancement in software development since the delivery of the first Rational Suite

Extending Capabilities for Development Teams

- Driving closer relationships between business and development
- Optimized for individual practitioners making development easy
- Translated for global support

Unparalleled Integration

- Leveraging open source framework (Eclipse)
- Synergies among tools deliver collaborative development
- Raising individual and team productivity
- Enabling partner, customer and competitor ecosystem

Adding Greater Value to Proven Solutions

- Maintaining standards concurrency
- Providing broad capabilities for individual practitioners (rebranded and extended products)
- Supporting multiple environments (Java, .NET, Linux)
- Optimized for IBM Middleware (WebSphere, DB2, Workplace...)





Overview of New Features in SR3

- SR3 (v2003.06.13) is a Modification/Refresh of the McKinley product line. It includes:
 - ▶ Additional critical features/functionality
 - ▶ Fixes to various CP1s and APARs reported since 9/1/03
 - ▶ Removal of dependency on Microsoft JVM for various products
 - ▶ New platform support (*see Platform Support Changes Section for details*)





Overview of New Features in SR4

- SR4 (v2003.06.14) is a Modification/Refresh of the McKinley product line. It includes:
 - ▶ Enhancements and defect fixes for Rational ClearCase, ClearQuest, Rose Rose XDE, Rose RealTime
 - ▶ Defect fixes only for ProjectConsole, RequisitePro and SoDA
 - ▶ Removal of dependency on SUN JRE for Rational Rose XDE

Note: Changes introduced in SR4 Release are identified by (SR4). All other changes were introduced in SR3 Release



New Features - Breakdown By Product



■ **Install**

- ▶ Transform fix (Embedded option) to allow upgrade of Japanese products without uninstalling previous version

■ **Rational ProjectConsole**

- ▶ Enable running on certain OS/Netscape platforms
- ▶ Platform Support for:
 - SQL Anywhere 8.0.2
 - WinXP SP2
 - Windows 2003
- ▶ Support Mozilla 1.6 browser on Linux systems
- ▶ Various defect fixes (SR4)

■ **Rational PurifyPlus**

- ▶ Selective Instrumentation for Purify C++ applications



New Features - Breakdown By Product



■ Rational ClearCase

- ▶ Mainframe Connectors for ClearCase (bundled with ClearCase only)
- ▶ ClearCase update to Eclipse 2.0 Plug-in for SR3
- ▶ Long Path Support for Windows
- ▶ Linux / AMD Opteron platform support
- ▶ ClearCase Remote Client (SR4)
- ▶ ClearCase support for 71 additional locales (SR4)
- ▶ MSAdmin (SR4)
- ▶ Various corrective content and product quality fixes (SR4)

■ Rational SoDA

- ▶ Various defect fixes (SR4)



New Features - Breakdown By Product



■ Rational ClearQuest

- ▶ ClearQuest Eclipse 3.0 client (NOT in SR3 – separate download)
- ▶ ClearQuest Web Java (replaces ASP)
- ▶ MultiSite server runs on UNIX
- ▶ GUI Code Page Support
- ▶ Email notification in SitePrep
- ▶ Replace OpenLink drivers with DataDirect for Oracle and SQL Server
- ▶ Support for SUSE Enterprise Linux 8
- ▶ Support for Crystal Reports 10
 - runtime environment included for Windows clients and New CQ Web
- ▶ 2 CTSecure Packages (SR4).
- ▶ Support for WAS to the Web Java Client(SR4)
- ▶ Korean Support (SR4)
- ▶ Support for DB2 on zOS (SR4)
- ▶ z/OS SCLM Integration Package- English only (SR4)
- ▶ Various corrective content and product quality fixes (SR4)



New Features - Breakdown By Product



■ Rational RequisitePro

- ▶ DB2 support
- ▶ RequisiteWeb usability and performance enhancements
- ▶ Baseline and compare functionality (not ClearCase related)
- ▶ Email notification on requirement changes
- ▶ Support for subscribing to email notification for multiple requirements at once (SR4)
- ▶ Baseline manager hotfix (SR4)
- ▶ Various defect fixes (SR4)

■ Rational Unified Process (RUP)

- ▶ Tool mentors upgraded, as appropriate
- ▶ RUP Navigator – launched from other tools



New Features - Breakdown By Product



■ Rational TestManager

- ▶ New Extended Log Listing Reports
- ▶ Tracking of test case progress with states and points
- ▶ Crystal Report 10 runtime engine for reports
- ▶ Multi-Select Usability Enhancement
- ▶ SQL Anywhere Upgrade (8.0.2)
- ▶ Support for Atlantic Functional Tester
- ▶ Various defect fixes (SR4)



New Features - Breakdown By Product



■ Rational Test RealTime

- ▶ GUI usability enhancements
- ▶ Component Testing for Ada advanced features
- ▶ Rose RealTime integration enhancements
- ▶ Tutorial for the Component Testing and Code Coverage (Ada)
- ▶ Various documentation improvements
- ▶ Support for Red Hat Enterprise Linux Workstation Edition 3.0
- ▶ Support for SuSE 9.0 Professional





New Features - Breakdown By Product

■ Rational Rose

- ▶ Increased filtering options for Rose Model Integrator
- ▶ Pattern support for ANSI C++
- ▶ .NET-managed type extensions during reverse engineering
- ▶ Ability to repeat reverse and forward engineering of CORBA IDL
- ▶ Menu option added for “Force Save” functionality
- ▶ Dual role EJB support
- ▶ Support for Borland JBuilderX (10) integration
- ▶ “Include” statement modifications included during code generation
- ▶ “Get Latest” option added to version control add-in
- ▶ Various enhancements to Rose ANSI C++, Rose J, Rose Version Control Add-ins (SR4)





New Features - Breakdown By Product

■ Rational XDE

- ▶ Visual Studio RTE Data Compatibility
- ▶ Visual Studio RTE Performance Improvements
- ▶ Support for WebSphere Studio Application Developer 5.1.2
- ▶ Support for WebSphere Workbench 2.1.3
- ▶ Support for IBM JRE and removal of dependence on SUN JRE (SR4)

■ Rational Rose RealTime

- ▶ Enhanced performance when displaying sequence diagram role list
- ▶ Improved visibility to methods in sequence diagrams
- ▶ Various other Rose RealTime enhancements (SR4)



Atlantic New Features Overview

■ Re-branded Products

- ▶ WebSphere Studio Site Developer > Rational Web Developer v6.0 for WebSphere Software
- ▶ WebSphere Studio Application Developer > Rational Application Developer v6.0 for WebSphere Software

■ New Products

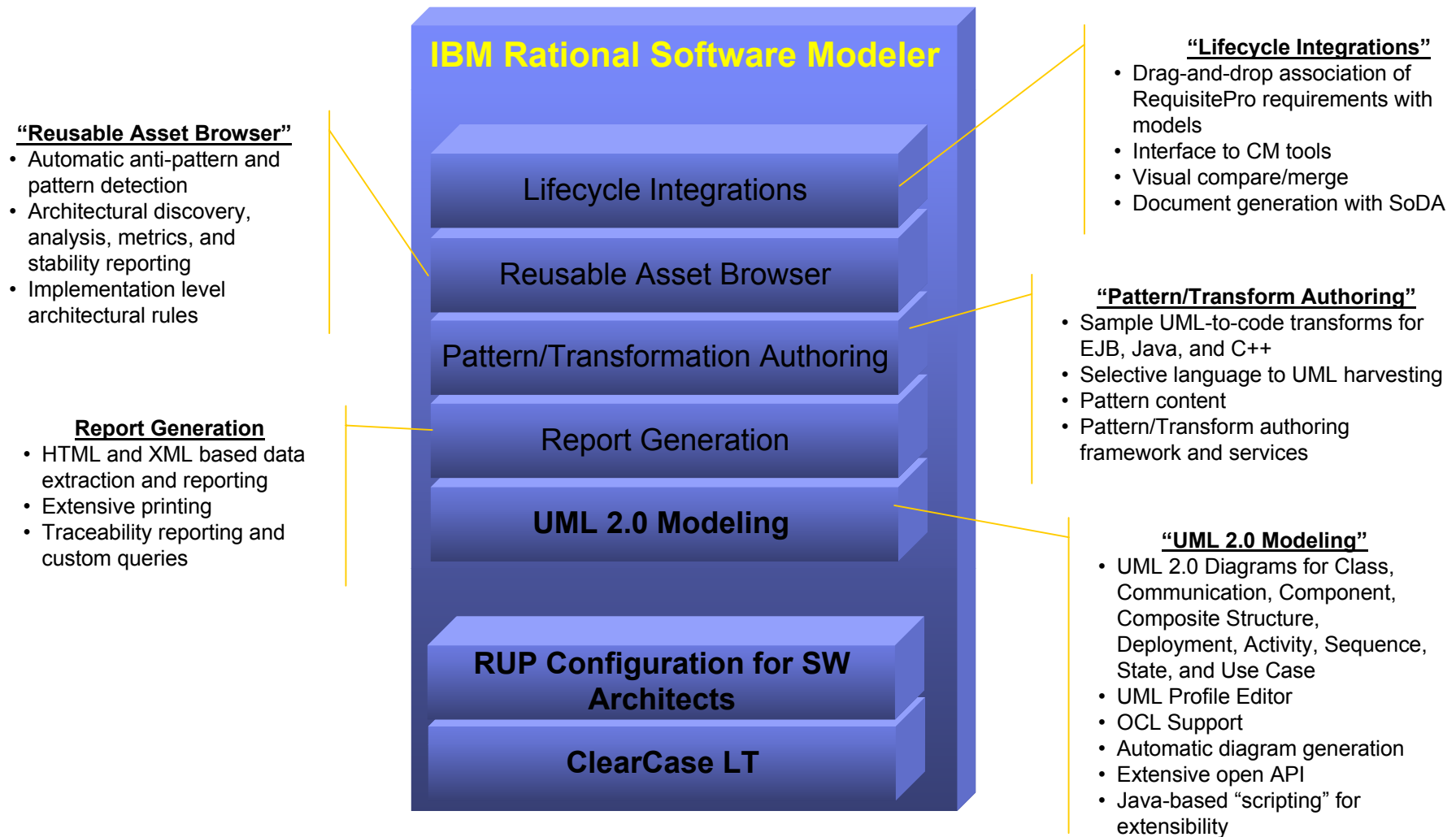
- ▶ Rational Software Modeler v6.0
- ▶ Rational Software Architect v6.0
- ▶ Rational Functional Tester v6.0 (Eclipse and Visual Studio .NET)
- ▶ Rational Manual Tester v6.1
- ▶ Rational Performance Tester v6.1 (Eclipse shell)\
- ▶ Rational Portfolio Manager

■ Enhancements and changes

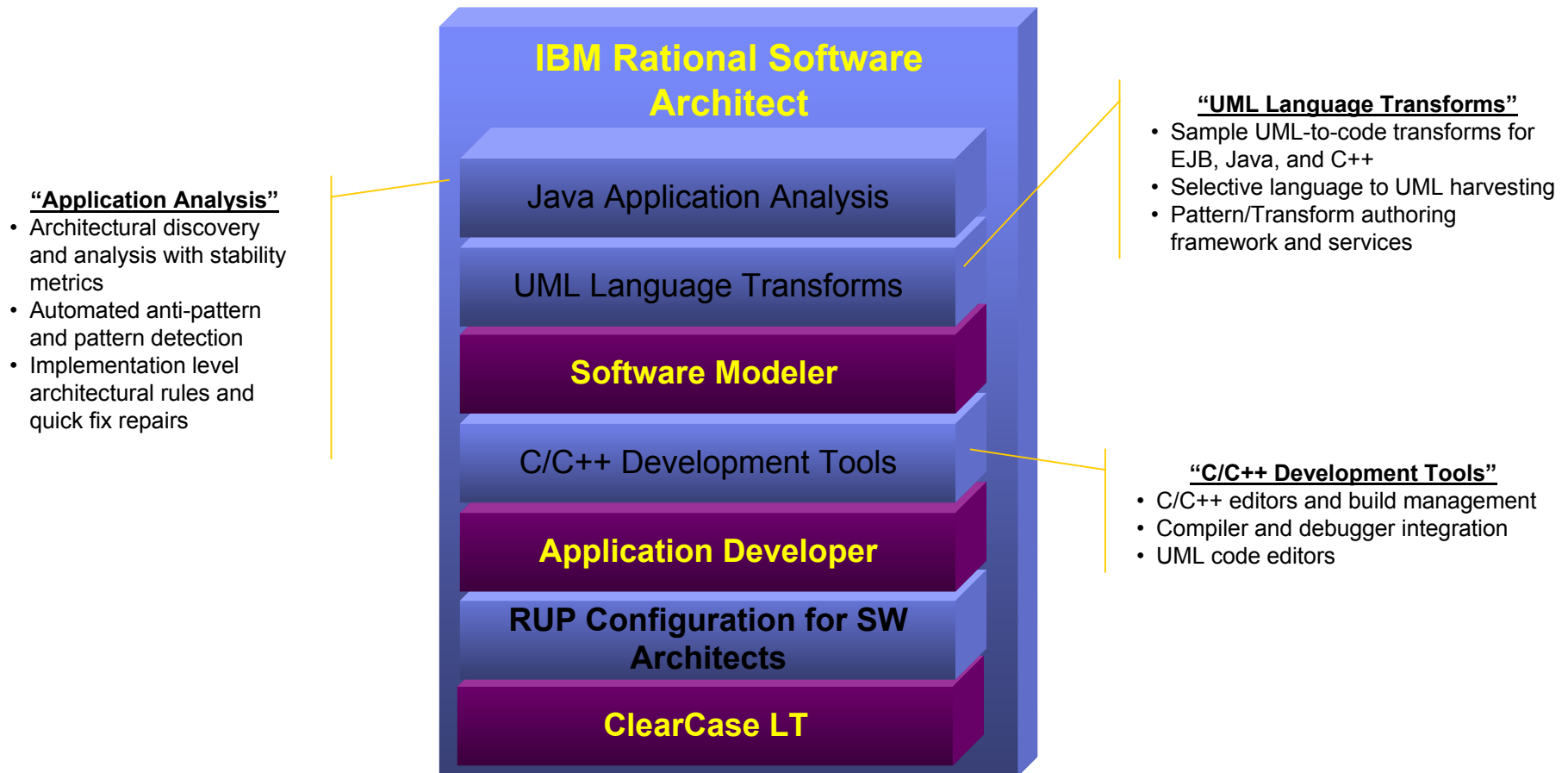
- ▶ Refresh of the McKinley product line for SR3 Release (v2003.06.13)



IBM Rational Software Modeler v6.0 Overview



IBM Rational Software Architect v6.0 Overview



IBM Rational Manual Tester v6.1 Overview

Manual test authoring and execution

Rich Text Editor

- Modify test font, size, color; attach images and files
- Supports creation of both test steps and verification points
- Ensures clarity of test step direction and consistency of test execution

Tool Assistance

- Automated data entry
- Automated data comparison and results storage
- Reduces opportunity for manual error during test execution

Customizable

- Add new data fields to individual test steps
- Apply internally-defined naming conventions

IBM Rational Manual Tester

Rich test editor

Test step reuse library

Data entry & validation assistance

Test Import / Results Export

Custom test fields

ClearCase LT

Reuse Library

- Library for common test procedures
- Drag-and-drop construction of new tests
- Automatic global update when modifying any one instance of linked content

Import/Export

- Imports manual test source files from Microsoft Word, Microsoft Excel and Rational TestManager
- Exports test results to CSV format for additional analysis

ClearCaseLT in the box

- Supports parallel development of manual tests
- Enables remote test access for distributed teams



IBM Rational Functional Tester v6.1 Overview

**Automated
functional
regression testing**



GUI Technologies

- Automates regression testing of Java, .NET, Web and terminal emulator-based applications

Data-driven Testing

- Simplified data-driven testing enabled by wizards and Excel-like data tables

Eclipse availability

- When using Java scripting, runs inside Eclipse/RSA/RAD shell
- Full Eclipse JDT features are accessible
- Accessible to developers from within their IDE

ClearCaseLT in the box

- Supports parallel development of manual tests
- Enables remote test access for distributed teams

Test Script Language

- User has choice of two test script languages – Java and VB.NET
- Use of Java implies editing and debugging in Eclipse/RAD/RSA-based editor
- Use of VB.NET implies usage of Microsoft VS.NET-based editor/debugger
- Identical capabilities in both editors

Improved Linux support

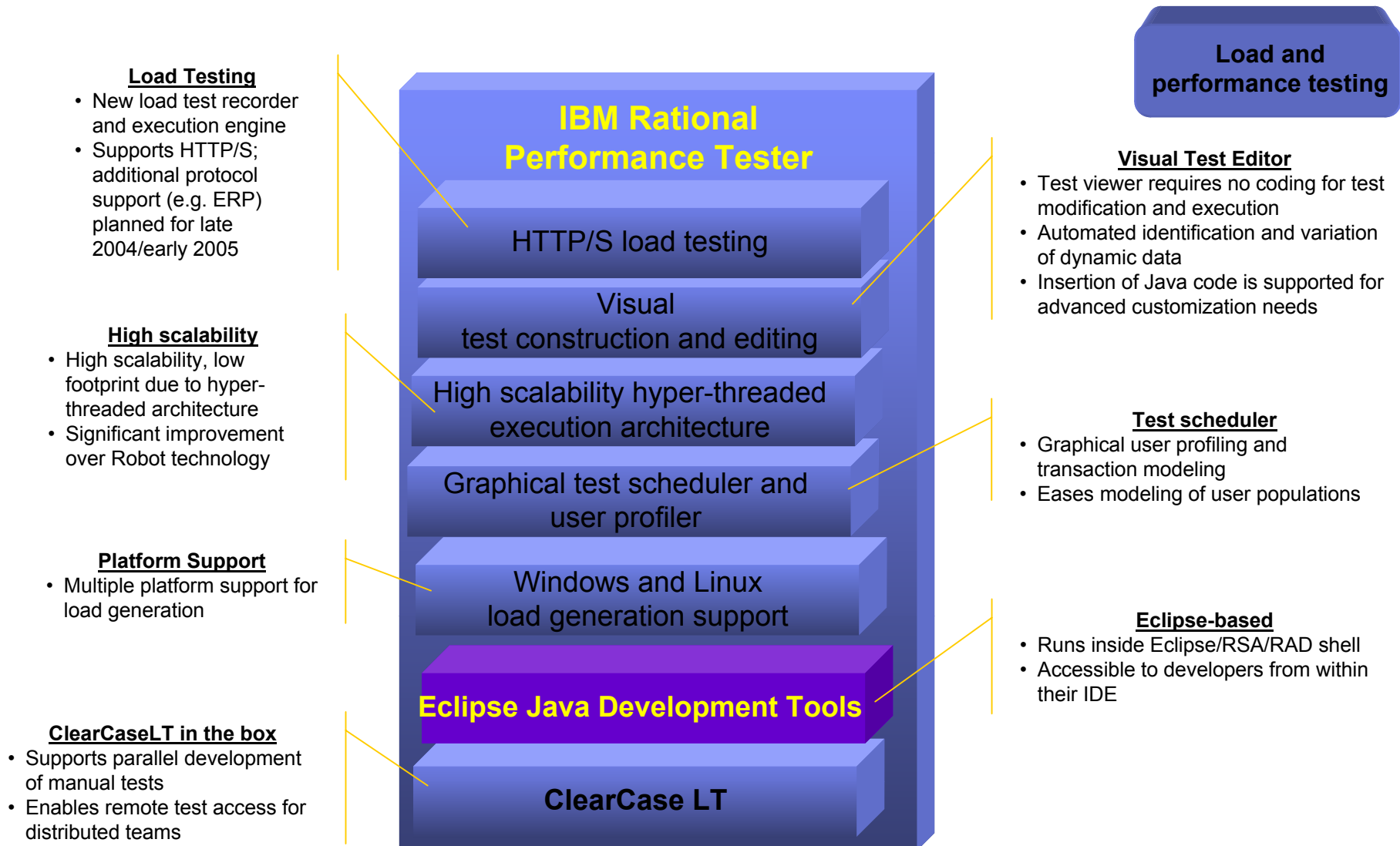
- Users can author and modify test scripts on Linux (no script recorder)
- Scripts can also be executed on Linux

Manual Tester in the box

- Customers receive one Manual Tester license per Functional Tester license
- Improve return on manual testing efforts while adopting automated test methods



IBM Rational Performance Tester v6.1 Overview



Rational Unified Process - New Features

- Two new **process configurations** bundled in desktop tools
 - ▶ Rational Application Developer => developer configuration
 - ▶ Rational Software Architect => architect configuration
- RAD and RSA are enabled with new viewpoints into RUP from within the Eclipse 3 shell
 - ▶ **Process Advisor** – context-sensitive guidance.
 - ▶ **Process Browser** – Browser with Eclipse look & feel
 - ▶ **Search** – simple or advanced guidance search capabilities.
- Updated to UML 2.0
- Updated to J2EE 1.4
- New Tool Mentors
- New content on Static MDA, Code Analysis, Service Oriented Architecture



Project Portfolio Management Core Processes

- **Manage Portfolios - Achieve the Business Vision**
 - ▶ Align priorities, projects and resources with business priorities to meet organizational needs
- **Manage Scope - Deliver Business Value**
 - ▶ Seamlessly evolve idea's, proposals, initiatives, and/or requirements to measurable programs and projects.
- **Manage Work - Plan a Balanced Approach**
 - ▶ Plan, cost, budget, resource, schedule, and report on programs, projects, procurements.
- **Manage Resources - Optimize Your Staffing Profile**
 - ▶ Utilize staffing profiles for effective resource assignments and comprehensive capacity planning.
- **Manage Financials - Regulate Your Financial Health**
 - ▶ Manage charge of accounts with time keeping, expense and capital expenditure tracking.
- **Manage Exceptions - React to Changing Needs**
 - ▶ Capture, quantify, assign, and track actions, issues, risk, constraints, opportunities, and changes in a workflow model.
- **Manage Quality - Track the Expected Results**
 - ▶ Ensure customer priorities get the attention they deserve with the right process execution.



Thank
You