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Installing Rational Tools Using Response Files

By

Ronald D. Ross (rross@spkaa.com)

Software Engineering Specialist

In a previous technical discussion, we had a look at creating installation repositories using IBM Packaging Utility. After creating a repository, we then used IBM Installation Manager to install from the newly created repository. This is all well and good, but during the course of installation, it was necessary to answer a great many queries, which took much time. If we multiply this by even a small number of installs, this method of installation would be tedious and error prone. Isn't there some way to automate the Rational tools installation process?

The answer is yes! IBM provides something called response files for Installation Manager which can record any given installation scenario and preserve all steps and query responses which can then be used to drive any number of subsequent installs. The first step of this kind of installation methodology will be to install Installation Manager on the target machine.

The first thing to do is to download the current version of Installation Manager. In the first red rectangle below, we can see the zip file for the version we have found and downloaded; it is version 1.4.3. We have unzipped the archive and changed into the directory created – see the second red rectangle in the screenshot below.

C:\WINDOWS\system32\cmd.exe
T:\Rational_IM≻dir Volume in drive T is ccase_rls Volume Serial Number is 0001-1856
Directory of T:\Rational_IM
05/04/2011 01:49 PM <dir> . 05/04/2011 05:02 PM <dir> .</dir></dir>
05/04/2011 01:49 PM 99,244,604 agent.installer.win32.win32.x86_1.4.3000. 20110303_1846.zip
05/04/2011 05:04 FT <\ULK> agent.installer.win32.win32.x86_1.4.3000. 20110303_1846
1 File(s) 99,244,604 bytes 3 Dir(s) 138,428,694,528 bytes free
T:\Rational_IM>cd agent.installer.win32.win32.x86_1.4.3000.20110303_1846
T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>dir Volume in drive T is ccase_rls Volume Serial Number is 0001-1856
Directory of T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1 846
05/04/2011 05:04 PM <dir> .</dir>



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The next screenshot is a continuation of the previous one. In it, we can see all the files contained in the Installation Manager zip archive. The executable *installc.exe* is the one to be used on Windows to install Installation Manager. Launching the command also makes use of the *silent-install.ini* initialization file. This *silent-install.ini* file contains default command-line arguments for *installc.exe*. We run the command: *"install –launcher.ini silent-install.ini"* as shown below.

C:\WINDOWS\system32\cmd.exe
1 File(s) 99,244,604 bytes 3 Dir(s) 138,428,694,528 bytes free
T:\Rational_IM>cd agent.installer.win32.win32.x86_1.4.3000.20110303_1846
T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>dir Volume in drive T is ccase_rls Volume Serial Number is 0001-1856
Directory of T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1 846
05/04/2011 05:04 PM (DIR) 05/04/2011 01:49 PM (DIR) 05/04/2011 01:49 PM (DIR) 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) documentation 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:51 PM (DIR) pre_5.0.4.sr11_20091106a 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:51 PM (DIR) pre_5.0.4.sr11_20091106a 05/04/2011 01:51 PM (DIR) console inst.bat 05/04/2011 01:49 PM 2.433 console inst.bat 05/04/2011 01:49 PM 174 install.ini install.exe 05/04/2011 01:49 PM 24.576 install.exe 05/04/2011 01:51 PM 24.576 installc.nn 05/04/2011 01:51 PM 218 install.c.nn 05/04/2011
I:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>installc – -launcher.ini silent-install.ini
I:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>

When the command has completed execution, Installation Manager will be fully installed on the machine. We can now see it listed in the Control Panel displayed in the screen-shot below.



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6	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name	1
C <u>h</u> ange or Remove	📃 Citrix Presentation Server Client		Size	23.54MB
Programs	🕄 Compatibility Pack for the 2007 Office system		Size	159.00MB
P	CruiseControl.NET 1.4		Size	9.18MB
Add New	CruiseControl.NET CCTray 1.4		Size	0.74MB
Programs	🔁 Crystal Reports 10		Size	199.00MB
	🔁 Dell ResourceCD		Size	2.73MB
dd/Remove	🕑 IBM Installation Manager		Size	0.79MB
<u>W</u> indows Components	🗱 IBM iSeries Access for Windows		Size	121.00MB
	🛃 Intel(R) Graphics Media Accelerator Driver			
	👙 J2SE Runtime Environment 5.0 Update 10		Size	120.00MB
et Pr <u>o</u> gram	🛃 Java(TM) 6 Update 22		Size	91.04MB
Access and Defaults	🛃 Java(TM) 6 Update 5		Size	114.00MB

Here the Add or Remove Programs control panel shows IBM Installation Manager as now installed on the machine. It can now be started from the Start -> All Programs menu if needed. However, for our purposes, we will want to do something different.

Our purpose is to use Installation Manager to create a response file which can then be replayed later to install a given product repository. To do this, we again use the Installation Manager line command. Let's take a look at the screen-shot below to see how this is done.



ev C:\WINDO	WS\system32\	cmd.exe		- 🗆 ×
	0 File(0 bytes ,902,592 bytes free	^
	3 1/11/13	/ 1/,01/	,702,372 bytes 1100	
C:\Program	Files\IBM\I	nstallati	on Manager>cd eclipse	
			on Manager\eclipse>dir	
	árive č has ial Number			
volume ser	lal Number	18 2000-1	67D	
Directory	of C:\Progr	am Files	IBM\Installation Manager\eclipse	
	00-F/ AM	(510)		
05/10/2011 05/10/2011	09:56 AM 09:56 AM	<dir> <dir></dir></dir>		
05/04/2011			atoc	
5/04/2011		(211)	235 check.properties	
5/10/2011		<dir></dir>	configuration	
5/04/2011	05:06 PM	<dir></dir>	documentation	
05/04/2011	05:06 PM	<dir></dir>	extra	
13/03/2011			58,608 IBMIM.exe	
05/04/2011			182 IBMIM.ini	
3/03/2011			24,576 IBMIMc.exe	
05/04/2011	05:06 PM	<dir></dir>	jre_5.0.4.sr11_20091106a	_
3/03/2011			58,608 launcher.exe	
05/04/2011			182 launcher.ini	
05/04/2011 05/04/2011		<dir> <dir></dir></dir>	lib native	
15/09/2011	04:10 PM		b2	
5/04/2011			plugins	
1/20/2011		(1)11/2	7,777 readme.html	
5/04/2011			118 repository.config	
5/04/2011			233 silent-install.ini	
05/04/2011	05:06 PM	<dir></dir>	tools	
	9 File<		150,519 bytes	
	12 Dir(s	> 19,617	,902,592 bytes free	
··· > Duo con am	Files IPM	notallata	on Managen aclines IIBMIMs ave -meaned at Te	100 CC
n Response	ini -skinI	nstallati	on Manager\eclipse>IBMIMc.exe -record c:\Te \Temp\IMData	mp/cc_
M_nesponse	THT SKTDI	nscall C.	lemp lineaca	

In the above screen-shot, we have first changed into the install directory for Installation Manager, shown by the first red outline. The binary that we want to work with is *IBMIMc.exe*, which again is the version that is appropriate for Windows. The command syntax that we will use, *"IBMIMc.exe –record c:\Temp\CC_CQ_Response.ini –skipInstall c:\TempIMData"*, will be explained.

The "*-record*" parameter instructs the command to create a response file (specified after the parameter), which will record the choices made during the course of the installation so they can be replayed in a subsequent installation.

The "*-skipInstall*" parameter causes the install to be run in a record-only mode. No actual install will be done when using *-skipInstall*, the only purpose being to create the response file which will be used for later actual installs. The directory supplied along with the parameter is a temporary installation registry which tracks the components installed. If multiple components are to be "installed" and have response files created, the same installation registry should be used for all of them.



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👜 IBM Installation Manage	er (Recording)	
File Help		
Open 🕨	•	
🥫 View Log	anager	
Installation History		
🗓 View Installed Packages		
Preferences Exit	Install Install software packages.	
	Update Discover and install updates and fixes to installed software packages.	
	Modify Change installed software packages by adding or removing features and functions. Uninstall	
IBM.		

After launching Installation Manager by means of the line command, IM comes up and presents the following window to begin a product install. To begin, and thus record the results in a response file, we begin by setting the repository location that we want to install. Use the Preferences menu option as shown above.



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🙆 Prefe	erences				
type filte	er text	Repositories			<
- App Files ∙ Help ∙ Inte	rnet ;port Advantage	Repositories:	Connect	ion	Add Repository Edit Repository Remove Repository
-,-	Add Repository				Move Up
	Add a repository	add to the repository preference list.			Move Down Clear Credentials Test Connections
	Repository:	▼ В	rowse		
				he Installation	Manager itself) are Defaults Apply
?		ОКС	ancel		K Cancel

When the Preferences panel comes up, click on Add Repository to get the subsequent pop-up. The Browse button can be used to navigate to the location of an install repository, and select the *diskTag.inf* or *repository.config* file which describes that repository. The results of this can be seen in the next screenshot.



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Preferences		
type filter text	Repositories	<p *="" th="" ⇒="" ▼<=""></p>
Repositories Appearance Files for Rollback Help Internet Passport Advantage Updates	Repositories Location Connect Image: Image	tion Add Repository Edit Repository Remove Repository Move Up Move Down Clear Credentials Test Connections
0		Restore Defaults Apply OK Cancel

In the case shown above, we will be installing a repository that contains three components. These are ClearCase and ClearQuest 7.1.2.2, and Rational License Administrator 8.1.1. This creation of this multiple product repository was described in a prior blog post, which described the use of IBM Packaging Utility for this purpose. We are now continuing by using this pre-created repository and creating a response file to automatically install it.

Click OK to accept and retain the new repository. You are then returned to the main initial Installation Manager console. Click Install on the main IM console to be presented with the installation options for this particular repository package. As previously mentioned, this one contains three different software applications: Rational ClearCase, Rational ClearQuest, and the Rational License Key Administrator.



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install Packages Select packages to install:			
Installation Packages	Status	Vendor	License Key Type
Installation Packages 	Status	vendor	License key Type
Version 7.1.2.02		IBM	
😑 🔲 🥡 IBM® Rational® ClearQuest® - Windows			
		IBM	
IBM® Rational® License Key Administrator Imm I line Rational Revealed Internation		IBM	
		10.1	
		Cherk	for Other Versions, Fixes, and Extension
]show all versions		Check	for Other Versions, Fixes, and Extension
		Check	for Other Versions, Fixes, and Extension
etails		Check	for Other Versions, Fixes, and Extension
	trol everything that evolves in the developm		
etails BM® Rational® ClearCase® - Windows 7.1.2.02 Somprehensive software configuration management that helps teams con sanagement, and Unified Change Management. <u>More info</u>	trol everything that evolves in the developm		
Show all versions Show all versions BM® Rational® ClearCase® - Windows 7.1.2.02 Comprehensive software configuration management that helps teams con banagement, and Unified Change Management. <u>More info</u> Repository: \\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1	trol everything that evolves in the developm		

Above, we see the product packages included in the repository which will be installed.

IBM Installation Manager(Recording)			
Install Packages Select packages to install:			-
Installation Packages	Status	Vendor	License Key Type
B - ♥ (i) IBM® Rational® ClearCase® - Windows	Will be installed	IBM	
	Will be installed	IBM	
	Will be installed	IBM	
Show all versions		Check for Ot	her Versions, Fixes, and Extensions
Details			
IBM® Rational® License Key Administrator 8.1.1			
Repository: \\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1			
0		< Back Nex	kt > Install Cancel

Check the products to be installed (in our case, all of them), and click Next.



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<u></u>
ed nodes for additional information about prerequisites.
ion Features Summary
STOP! Before proceeding with this install, please close all applications and disable anti-virus software. Check <u>http://www-0i.ibm.com/support/docview.wss?rs=2038.context=SW0008.g1=11352958.uid=swq21135295</u> for information on how to prevent potential system corruption.
Recheck Status
<back next=""> Install Cance</back>

Deal with any conflicts, such as anti-virus software, and click Next to continue.

Install Packages Read the following license agreements carefully. Install Prerequiste License Agreement Image: Bit Rational ClearCase DePORTANT: READ CAREFULLY Image: Bit Rational ClearCase Two license Agreement for Evaluation of Programs Image: Bit Rational ClearCase Two license Agreement for Evaluation of Programs Image: Bit Rational ClearCase Two license Agreement for Evaluation of Programs Image: Bit Rational License Agreement Image: Bit Clearse Agreement Image: Bit Rational License Agreement Image: Bit Clearse Agreement Image: Bit Rational License Agreement Image: Bit Clearse Agreement Image: Bit Rational License Agreement Image: Bit Clearse Agreement Image: Bit Clearse Agreement Image: Bit Clearse Agreement	IBM Installation Manager(Recording,)	
Uccase Agreement Uccase Ucc	Read the following license agreements carefully.	
	 License Agreement IBM Rational ClearQuest License Agreement IBM Rational License key Server License Agreement International Dicense Agreement International Program for purposes of productive use (other than evaluation, testing, trial "try or buy," or demonstration): By clicking on the "Accept" button below, Licensee accepts the International Program License Agreement, without modification. If Licensee is obtaining the Program for the purpose of evaluation, testing, trial "try or buy," or demonstration): By clicking on the "Accept" button below, Licensee accepts both () the International License Agreement, without modification. If Licensee's Uniton below, Licensee accepts both () the International License Agreement, without modification. If Licensee's Uniton below, Licensee accepts both () the International License Agreement for Evaluation (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee accepts both () the International License Agreement (the "IPLA"), without modification. The Evaluation License will apply during the term of Licensee's Evaluation. The IPLA will automatically apply if Licensee elects to retain the Program after the Evaluation (or obtain additional copies of the Program for use after the Evaluation (use additional copies of the IBM Passport Advantage or the Other. 	
Install Cancel	O I do not accept the terms in the license agreements) el

Accept the licensing agreements, and click Next to continue.



IBM Installation Manager(Recording)	
Install Packages	
Select a location for the shared resources directory.	
Install Prerequisite Licenses Location Features Summary	
When you install packages, files are stored in two locations:	
 The shared resources directory - resources that can be shared by multiple packages. The installation directory - any resources that are unique to the package that you are installing. 	
Important: You can only select the shared resources directory the first time you install a package with the IBM Installation Manager. For best results select the drive with the ra available space because it must have adequate space for the shared resources of future packages.	iost
available space because it must have adequate space for the shallour resources or ruture pathages.	
Shared Resources Directory: C:\Program Files\IBM\IMShared	Browse
Disk Space Information	
Volume Available Space C: 18.24 GB	
Reack Next > Install	Cancel

You probably should accept the default shared resources location. Click Next.

🙆 IBM Installation Manag	er(Recording)		
	Salled into the indicated package groups. Select the package group	to change the installation directory.	-
Package Group Name	<5	Installation Directory C:\Program Files\IBM\RationalRLKS	
□ IBM® Ration □ 5 IBM® Rational SD □ 10 IBM® Ration	nal® License Key Administrator 8.1.1	C:\Program Files\IBM\RationalSDLC	
Package Group Name: II Installation Directory:	3M Rational RLKS C:\Program Files\1BM\RationalRLKS		Browse
Details Shared Resources Direc	tory: C:\Program Files\IBM\IMShared	Disk Space Information Volume Available Space C: 18:24 GB	
0		< Back Next >	Install Cancel

Click Next unless there is reason to do otherwise with the install locations.



M Installation Manag	er(Recording)				
Install Package	S				~
Select the translations to					T
Install Prere	equisite Licenses Location	Features Summary			
	r the packages that will be installed to pack	age group IBM Rational SDLC, IBM Rationa	IRLKS.		
Translations	Brazilian Portuguese	French	German	Italian	_
Japanese	Korean	Simplified Chinese	Spanish	Traditional Chinese	
			<	Back Next > Install	

Click Next to accept English as the installation language.

IBM Installation Manager(Recording)	
Install Packages Select the features to install. Install Prerequisite Licenses Location Features Summary	
Features	
IBM@ Rational@ ClearCase@ - Windows 7.1.2.02 Image: IBM@ Rational@ ClearQuest@ - Windows 7.1.2.02 Image: I	3
Show dependencies	Expand All Collapse All Restore Default
★ Selected by Installation Manager because of dependencies Details Rational ClearQuest for Windows Client This is the the Microsoft Windows interface to IBM Rational ClearQuest.	
0	Back Next > Install Cancel

Make any needed adjustments to installation options and click Next.



IBM Installation Manager (Recording, Install Packages Fill in the configurations for the packages. Install Prerequisite Li)
Common Configurations Automatic Process Stopping Co Common Licensing Help System File System File System File System Construct Administration MVF5 Case Sensitivity MVF5 Settings ClearCase File Server (CCF5) Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Sensitivity File System Singe Customize Sensitivity File Settings Customize Sensitivity File Settings Customize Sensitivity File Settings ClearCase Atria Licensing File Senset File Senset File Senset File Senset File Senset File Senset File Senset File Senset File	Installation Manager checks for running processes during the installation. If these running processes are associated with the product you are installing, then these processes must be stopped. Click Yes to have Installation Manager stop these processes during the installation. If you click No, the installation stops and users must manually stop the processes to continue the installation.
0	<back next=""> Install Cancel</back>

OK, here we go with the install. If we look at the left hand panel of the window, we see all the steps that need to be completed when installing the different Rational applications. We will quickly go through all of these, with perhaps minimal commentary on each, since we have seen all of these before in prior technical blog posts.

Note that as we move through the installation screens, the items in the left hand panel will be marked as completed by Installation Manager. In the present window, select the Yes radio button, and click Next.



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IBM Installation Manager(Recording,))
Install Packages Fill in the configurations for the packages. Instal Prerequisite Lii	censes Location Features Summary
Automatic Process Stopping Co	
Common Licensing Help System Desktoral@ClearCase@ - Wir Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing Desktop Shortcut ClearCase Atria Licensing IBM@ Rational@ ClearQuest@ - W E-mail Notification	Configure IBM Rational Common Licensing (powered by FLEXIm software) Enter the TCP/IP port and host name of one or more single license servers, separating the server names with a semicolon. If you are entering redundant license servers) specify three servers separating server names with a comma. If you would like to use the server's default port number, you may omit the port number when specifying a license server. The license server(s) specified will be used to globally configure the v8 licensing on this machine. Therefore, if you have other products installed that use v8 licensing, the server(s) you enter here may also be used to serve licenses for them. If you do not know this information, you can configure the license server after the installation completes by running the IBM Rational License Key Administrator. Example: @ss1;27000@ss2;27000@rs1,1765@rs2,@rs3;@ss3 License server elements:
< <u>></u>	Sack Next > Install Cancel

Here we are on the second step of the install, indicated by the red rectangle. First note that the prior step is marked by IM in green as complete. Enter the license information and click Next.



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IBM Installation Manager(Recording...) Install Packages Fill in the configurations for the packages. Install Prerequisite Licenses Location Features Summary Common Configurations 🖃 🧊 Common Configurations Automatic Process Stopping Co Help System Common Licensing 🥪 Help System IBM® Rational® ClearCase® - Wir Remote help for "IBM® Rational® ClearQuest® - Windows" is available and is enabled by default. You can use remote help to dynamically retrieve the latest product documentation from the Web. If you work offline, you can download the help that you need into your local help system. You can also connect to a help system that is set up on your intranet server. If you install packages that do not use remote help, the documentation for those packages is installed on your computer. 🙁 Service Account 😳 Registry and Mail Servers Remote Administration MVFS Case Sensitivity After the installation, you can change how you access help by using the help preferences option in the product. MVFS Settings Access help from the Web ClearCase File Server (CCFS) Download help and access the content locally. Only limited help content is included during installation. When you first start the product, the complete online help is downloaded and installed provided that you have an Internet connection. On subsequent startups, available updates to the help are downloaded and installed. Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut Access help from a server on your intranet ClearCase Atria Licensing 🗄 📋 IBM® Rational® ClearQuest® - W Host: E-mail Notification Port: Path: > < ? < Back Next > Install Cancel

Probably it's best to take Help documentation from the web. Click Next.

IBM Installation Manager(Recording.)	
Install Packages Some empty fields are required. Install Prerequisite Li	icenses Location Features Summary	-
Common Configurations Automatic Process Stopping Co Common Licensing Help System BM® Rational® ClearCase® - Win Service Account WrFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Tria Licensing EIM® Rational® ClearQuestp - Win	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account Enter the user account for ClearCase server processes. Account domain (required): BOD Server process user name (required): Password (required): Confirm password (required): The service account must be a member of the ClearCase Administrator group. ClearCase administrator group (required):	
E-mail Notification	(Back Next >) Install	Cancel

Enter ClearCase configuration information and click Next.



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 IBM Installation Manager (Recording, Install Packages S Enter a registry server host name. 	
Install Prerequisite Lit Common Configurations Automatic Process Stopping Co Help System Help System Help System Help System Remote Administration MWFS Case Sensitivity MVFS Case Sensitivity MWFS Settings ClearCase File Server (CCFS) Customize Pool-Up Menu: Clear Desktop Shortcut ClearCase Atria Licensing BM® Rational® ClearQuest® - W Learail Notification	tenses Location Features Summary Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Registry and Mail Servers The registry server stores VOB and view tag information. Registry server host name (required):
0	< <u>Back</u> Mext > Install Cancel

More ClearCase configuration settings. Enter what is appropriate and click Next.

IBM Installation Manager(Recording.)		
Install Packages Fill in the configurations for the packages.	censes Location Features Summary		-
Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Remote Administration		
Common Licensing Help System BitMig Rational@ ClearCase@ - Wir Registry and Mail Servers Registry and Mail Servers Remote Administration MVF5 Case Sensitivity MVF5 Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Por-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing IBM® Rational@ ClearQuest® - W E-mail Notification	 Orgs, disable remote administration ○ Ng, enable remote administration 		
0		< Back Next > Install	Cancel

Choose the desired setting for remote administration and click Next.



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BM Installation Manager (Recording, Install Packages Fill in the configurations for the packages, Install Prerequisite Li	censes Location Features Summary
Common Configurations Common Licensing Common Licensing Help System Fill IBM® Rational® ClearCase® - Wir Registry and Mal Servers Remote Administration WHS Case Sensitivity MVF5 Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing Fill IBM® Rational® ClearQuest® - W E-mail Notification	Check this item if you want to use Windows style file lookup that is not case-sensitive. Clear this item if you want to use UNIX style file lookup that is case-sensitive. The MVFS will also preserve the case of view-private filenames. ✓ Not <u>C</u> ase-Sensitive Check this item if you want to preserve the case of view-private filenames. Clear this item if you want to convert view-private filenames to lowercase. □ Case <u>P</u> reserving
0	< Back Vext > Install Cancel

Click Next after setting case sensitivity to what is required.

🕲 IBM Installation Manager(Recording.)	
Install Packages Fill in the configurations for the packages. Install Prerequisite Li	censes Location Features Summary	
□ 10 Common Configurations 	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 MVFS Settings	
Common Licensing Help System Berlie System Service Account Registry and Mal Servers Remote Administration WMFS Case Sensitivity WMFS Settings ClearCase File Server (CCFS) Customize Foo-Ly Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Aria Licensing Berli IBM@ Rational@ ClearQuest@ + W E-mail Notification	Set the scaling Factor for initializing MVFS cache sizes: Scaling factor: Maximum number of mnodes to keep on the VOB free list: Maximum number of mnodes to keep for the cleartext free list:	M: V 1 V 1800 1800
0		<back next=""> Install Cancel</back>

Accept defaults and click Next unless there is some need to change it.



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IBM Installation Manager(Recording, IBM Installation Manager(Recording))	
Install Packages Fill in the configurations for the packages.		
Install Prerequisite LI Common Configurations Common Licensing Help System Common Licensing Help System Common Licensing Help System Remote Administration MMF5 Case Sensitivity ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Tool Shortcuts:	Do you want to enable CCFS for this installation?	
0	1	<back next=""> Install Cancel</back>

Enable or disable CCFS and click Next.

IBM Installation Manager (Recording,	.)	
Install Packages Fill in the configurations for the packages. Install Prerequisite Lii	tenses Location Features Summary	
□-10 Common Configurations □ □ □ Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Customize Pop-Up Menu: ClearCase Explorer	
Common Licensing Help System BM® Rational® ClearCase® - Wir Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing ElBM® Rational® ClearQuest@ - W E-mail Notification	Do you want to specify a pop-up menu customization file for ClearCase Explorer? • Ng, use the default pop-up menu • Ygs, use this customization file:	Brogse
0		<back next=""> Install Cancel</back>
L		

Specify ClearCase Explorer menu customization, or not, and click Next.



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IBM Installation Manager(Recording Install Packages	-)	
Fill in the configurations for the packages.		
Install Prerequisite Lic	enses Location Features Summary Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Customize Tool Shortcuts: ClearCase Explorer Do you want to specify a tool shortcuts customization file for ClearCase Explorer? Image: Ng, use the default tool shortcuts Image: Way, use this customization file	Browse
0		<back next=""> Install Cancel</back>

ClearCase Explorer tool shortcuts, or not. Click Next.

IBM Installation Manager(Recording.)		
Install Packages Fill in the configurations for the packages. Install Prerequisite Li	censes Location Features Summary	E	
□- ① Common Configurations □- ② Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Desktop Shortcut		
Common Licensing Help System Service Account Registry and Mail Servers Remote Administration MMP5 Case Sensitivity MMP5 Case Sensitivity ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Po	 ⊙ Ygs, create the shortcut ○ Ng, do not create the shortcut 		
0		< <u>B</u> ack Next > Install	Cancel
L			

Specify if you want desktop shortcut, or not. Click Next.



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Fill in the configurations for the packages.	enses Location Features Summary	
Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02	
Common Licensing Help System IBM® Rational® ClearCase® - Wir Service Account	Selecting Atria licensing overrides common licensing in Rational ClearCase.	
Registry and Mail Servers Remote Administration MVF5 Case Sensitivity MVF5 Settings ClearCase File Server (CCF5) Customize Pool Shortcuts: Clear Desktop Shortcut ClearCase Atria Licensing IBM(® Rational@ ClearQuest@ - W E-mail Notification	Where is your license server? On a gemote host Enter remote host name (required): On my local host Enter license keys (required):	

Make any needed changes to ClearCase licensing, and click Next.

IBM Installation Manager(Recording,	.)	
Install Packages Fill in the configurations for the packages. Install Prerequisite Lic	renses Location Features Summary	
Common Configurations W Automatic Process Stopping Co	Configuration for IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	
Common Licensing Help System IBM® Rational® ClearCase® - Wir Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Clustomize Pop-Up Menu: Clear Customize Pool-Up Menu: Clear Customize Pool-Up Menu: Clear ClearCase Atria Licensing ClearCase Atria Licensing IBM® Rational® ClearQuest® - W E-mail Notification	Configure the Simple Mail Transport Protocol (SMTP). Qutgoing SMTP server (required): Iext to use as the E-mail "From" field (required):	
0	< Back Next >	Install Cancel

OK, done with ClearCase. Specify ClearQuest email configuration and click Next.



Install Packages	
Review the summary information.	
Install Prerequisite Licenses Location Fea	atures Summary
Target Location	
Shared Resources Directory: C:\Program Files\IBM\IMShared	
Packages	
Packages	Installation Directory
G - %, IBM Rational SDLC G - 0 IBM® Rational SOLC G - 0 IBM® Rational® ClearCase® - Windows 7.1.2.02 G - 0 IBM® Rational® ClearQuest® - Windows 7.1.2.02 G - %, IBM Rational® - %	C:\Program Files\IBM\RationalSDLC C:\Program Files\IBM\RationalRLKS
Environment	Disk Space Information
English	Total Available Space
	C: 18.13 GB
	Total Download Size: 697.48 MB Total Installation Size: 1.46 GB
Repository Information	
	< Back Next > Install Cance

All right, we have now completed all the product specific configuration for an install. We are now ready to create the response file by simulating the install. Remember that we are running this install with the *–skipInstall* option, because the objective is to create the response file. Note the window title outlined in red which says that we are "Recording". Click the Install button to begin.



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Installation Manager(Recording)	
nstall Packages	-
Review the summary information.	The second se
Install Prerequisite Licenses Location Features	Summary
Farget Location	
Shared Resources Directory: C:\Program Files\IBM\IMShared	
Packages	
Packages	Installation Directory
	C:\Program Files\IBM\RationalSDLC
G - C Rational RLKS ↓ ① IBM® Rational® License Key Administrator 8.1.1	C:\Program Files\IBM\RationalRLKS
invironment	Disk Space Information
English	Total Available Space C: 18.13 GB
	Total Download Size: 697.48 MB Total Installation Size: 1.46 GB
Repository Information	
ling.: Saving installation registry. Saving package metadata.	
	Pause Download Car

Here we see the installation recording continue. This completes relatively quickly, certainly compared to the time it would take if we were actually installing the applications while creating the response file. Once the response file is created, we will demonstrate how to use it in an actual install.



BIBM Installation Manager(Recording)	
Install Packages	
The packages are installed. <u>View Log File</u>	
The following packages were installed:	
Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.	
•	Finish

Again note the "Recording..." specified in the window title. Click Finish to complete the recording of this response file.



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Here we are, back where we began when creating the response file. Note that the window still shows that we are in "Recording..." mode. If we wanted to, we could continue to record into the response file by specifying another repository and installing that additional application. Instead, we will call it a day, and exit the Installation Manager. This will terminate the line command which launched IM. The command line completion can be seen in the screenshot below.



C:\WINDO	NS\system32\ci	md.exe		_ 🗆 🗙
	5 Dir(s)	19,617	7,902,592 bytes free	^
C:\Program	Files\IBM\In	ıstallati	on Manager>cd eclipse	
	Files\IBM\In drive C has		on Manager\eclipse>dir	
	ial Number i			
Directory	of C:\Progra	∖m Files\	IBM\Installation Manager\eclipse	
05/10/2011		<dir></dir>		
05/10/2011 05/04/2011		<dir> <dir></dir></dir>		
05/04/2011		(DIR)	atoc 235 check.properties	
05/10/2011		<dir></dir>	configuration	
05/04/2011		<dir></dir>	documentation	
05/04/2011	05:06 PM	<dir></dir>	extra	
03/03/2011	07:49 PM		58,608 IBMIM.exe	
05/04/2011			182 IBMIM.ini	
03/03/2011			24,576 IBMIMc.exe	
05/04/2011		<dir></dir>	jre_5.0.4.sr11_20091106a	
33/03/2011			58,608 launcher.exe	
05/04/2011		(87.85	182 launcher.ini	
05/04/2011		<dir> <dir></dir></dir>	lib	
05/04/2011 05/09/2011		<dir></dir>	native p2	
05/04/2011			pz plugins	
01/20/2011		(DIN/	7,777 readme.html	
05/04/2011			118 repository.config	
05/04/2011			233 silent-install.ini	
05/04/2011		<dir></dir>	tools	
	9 File(s	;)	150,519 bytes	
	12 Dir(s)	19,617	,902,592 bytes free	
			on Manager\eclipse>IBMIMc.exe -record c \Temp\IMData	:∖Temp\CC_
C:\Program	Files\IBM\Ir	istallati	on Manager\eclipse>	-

The screenshot above shows the command completion. We have now created an install response file, along with a temporary IBM Rational Installation Manager registry. We next want to use the created response file to do an install of the Rational products. First, below, there is a snippet of the created response file, just to give a flavor of how these are constructed.



<pre><?xml version="1.0" encoding="UTF-8"?> <!--The "acceptLicense" attribute has been deprecated. Use "-acceptLicense" command line option to accept li <agent-input acceptLicense' true'--> <agent-input acceptlicense'="" true'=""> <agent-input acceptlicense''="" true''=""> <agent-input acceptlicense'<="" th=""><th>9 Edit Format View Help</th><th></th></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></agent-input></pre>	9 Edit Format View Help	
<pre>cyberys '</pre>	The "acceptLicense" attribute has been deprecated. Use "-acceptLicense" command line option to accept gent-input acceptLicense='true'>	11
<pre>file id='IBM Rational SDLC' installLocation='C:\Program Files\IBM\RationalSDLC'> <data key="user.import.profile" value="C:\Program Files\IBM\RationalSDLC"> <data key="user.import.profile" value="false"> <data key="user.stopRunningProcesses" value="C:\Program Files\IBM\RationalSDLC"> <data key="user.stopRunningProcesses" value="true"> <data key="user.stopRunningProcesses" value="true"> <data key="user.cC_RemoteAdministrationAccess, com.ibm.rational.clearcase.nt_i386" value="1"> <data key="user.cC_RemoteAdministrationAccess, com.ibm.rational.clearcase.nt_i386" value="1"> <data key="user.CC_RemoteAdministrationAccess, com.ibm.rational.clearcase.nt_i386" value="1"> <data key="user.CC_MVFSCaseInsensitivity.com.ibm.rational.clearcase.nt_i386" value="1"> </data> </data><td></td><td></td></data></pre>		
<pre><data key="user.stopRunningProcesses" value="rue"></data> <data key="user.help.option" r="" value="rwe"> <data key="user.help.url" value=""></data> <data key="user.cc_RemoteAdministrationAccess,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCaseInsensitivity,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCasePreserved,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCasePreserved,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCasePreserved,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCIFlag,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_DVFSCIFlag,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_SVFSCIFlag,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_SVFSCIFlag,com.ibm.rational.clearcase.nt_i386" value="1"></data> </data> ata key='eclipseLocation' value='C:\Program Files\IBM\RationalSDLC'/> ata key='user import profile' value='false'/></pre>		
<pre><data key="user.neip.url" value="`/"> <data key="user.cc_memoteAdministrationAccess,com.ibm.rational.clearcase.nt_i386'" value="1"></data> <data key="user.cc_MVFSCaseInsensitivity.com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_MVFSCIFlag.com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_SVFSCIFlag.com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.cc_SCIMFSCIFlag.com.ibm.rational.clearcase.nt_i386" value="1"></data> </data> </pre>		
<pre><data key="user.CC_MVFSCaseInsensitivity.com.ibm.rational.clearcase.nt_1386" value="1"></data> <data key="user.CC_MVFSCasePreserved.com.ibm.rational.clearcase.nt_1386" value="1"></data> <data key="user.CC_MVFSCIFlag.com.ibm.rational.clearcase.nt_1386" value="3"></data> <data key="user.CC_DVpnamicviewsDriveLetter.com.ibm.rational.clearcase.nt_1386" value="M"></data> <data key="user.CC_SCaseTreserved.com.ibm.rational.clearcase.nt_1386" value="1"></data></pre>	ata key='user.neip.uri' value=''/>	
<data keÿ="user.CC_MVFSCasePreserved,com.ibm.rational.clearcase.nt_1386" value="1"></data> <data key="user.CC_MVFSCIFlag,com.ibm.rational.clearcase.nt_i386" value="3"></data> <data key="user.CC_DynamicViewsDriveLetter,com.ibm.rational.clearcase.nt_i386" value="1"></data> <data key="user.CC_ScalinoFactor.com.ibm.rational.clearcase.nt_i386" value="1"></data>	ata key='user.CC_RemoteAdministrationAccess.com.ibm.rational.clearcase.nt_1386' value='1'/>	
<data key="user.CC_MVFSCIFlag,com.ibm.rational.clearcase.nt_1386" value="3"></data> <data key="user.CC_DynamicViewsDriveLetter,com.ibm.rational.clearcase.nt_1386" value="M"></data> <data key="user.CC_ScalinoFactor.com.ibm.rational.clearcase.nt_1386" value="1"></data>	ata key= user.CC_MVFSCasePreserved.com.ibm.rational.clearcase.nt_isoo Value=1/> ata key= user.CC_MVFSCasePreserved.com.ibm.rational.clearcase.nt i386' value=1/>	
<pre><data kev="user.CC_ScalingFactor.com.ibm.rational.clearcase.nt_i386" value="1"></data></pre>	ata key='user.cc_MvFscIFlag,com.ibm.rational.clearcase.nt_i386' value='3'/>	
<pre><data key="user.cc_starIngFactor;com.ibm.rational.clearcase.nt_isso" value="1"></data> <data key="user.cc_MaxNumMnodesKeepOnVOBFreeList,com.ibm.rational.clearcase.nt_i386" value="1800"></data> <data key="user.cc_MaxNumMnodesKeepOnCleartextFreeList,com.ibm.rational.clearcase.nt_i386" value="1800"></data></pre>	ata key='user.CC_DynamicViewsDriveLetter,com.ibm.rational.clearcase.nt_1386' value='M'/>	
<pre><data key="user.CC_MaxNumMnodesKeepOnCleartextFreeList,com.ibm.rational.clearcase.nt_i386" value="1800"></data></pre>	ata key='user.CC_scallingFactor,com.nom.rational.clearcase.nc_isoo 'value='1/> ata key='user.CC_MaxNumMondeskeenonVoBEreelist.com.jbm.rational.clearcase.nt i386' value='1800'/>	
	ata keý='user.CC_MaxNumMnodesKeepOnCleartextFreeList,com.ibm.rational.clearcase.nt_i386' value='1800'/>	1

In the screenshot above, we can see a section of the response file that we just created. Note the highlighted repository location. When we run an install using this response file,

this is the repository from which the Rational applications will be installed.

5/11/2011	04:16 PM	<dir></dir>		configuration
5/11/2011	02:47 PM	<dir></dir>		documentation
5/11/2011		<dir></dir>		extra
3/03/2011				IBMIM.exe
5/11/2011				IBMIM.ini
3/03/2011			24,576	IBMIMc.exe
5/11/2011		<dir></dir>		jre_5.0.4.sr11_20091106a
3/03/2011				launcher.exe
5/11/2011			182	launcher.ini
5/11/2011		<dir></dir>		lib
5/11/2011		<dir></dir>		native
5/11/2011		<dir></dir>		p2
5/11/2011		<dir></dir>		plugins
1/20/2011				readme.html
5/11/2011				repository.config
5/11/2011			233	silent-install.ini
5/11/2011		<dir></dir>		tools
	9 File<		150,519	
	12 Dir(s	> 18,963	3,619,84) bytes free
Program	Files\IBM\I	nstallati	ion Manag	(er∖eclipse>IBMIMc.exelauncher.ini sile
				ponse.ini -nosplash -showProgress
	25%		502	

In this next screenshot above, we are now using the response file to do the installation. The command is: *"IBMIMc.exe –launcher.ini silent-Install.ini – input c:\Temp\CC_CQ_Response.ini –nosplash –showProgress"*. Some explanations are in order.

The first parameter, *--launcher silent-install.ini*, says to conduct the install without bringing up the Installation Manager menu window. The install will proceed strictly as a line command.



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The next parameter *-input*, specifies the response file that we just created. This will be the main input to the IM command which will install the Rational applications.

The *-nosplash* parameter simply suppresses the IM splash screen from popping up when the *IBMIMc.exe* command is issued.

Finally, the *-showProgress* parameter provides the progress graph that appears below the line command.

The command will run to completion, and the result will be the installation of Rational ClearCase, ClearQuest, and License Key Administrator. Since ClearCase requires a reboot to complete, the machine will be rebooted as the line command terminates. After the reboot, logging in will show all the products installed and useable. You will likely need to supply ClearQuest with an initialization file to create the database connections that are used at your site, but everything should be correctly installed.