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Installing Rational Tools Using Response Files

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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 PT <vik> 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</vik>	1
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.

<pre> 1 File(s) 99.244.694 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 Uolume in drive T is ccase_rls Uolume Serial Number is 0001-1856 Directory of T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>dir Uolume Serial Number is 0001-1856 Directory of T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1 65.004/2011 05:04 PM (DIR) 65.004/2011 01:50 PM (DIR) 65.004/2011 01:51 PM 1.645.320 gdjpus.dll 05.004/2011 01:49 PM .2/4 33 consoleinst.bat 05.004/2011 01:49 PM .2/4 install.ex 05.004/2011 01:51 PM .2/4 33 consoleinst.bat 05.004/2011 01:51 PM .2/4 install.exe 05.004/2011 01:51 PM .2/4 install.ini 05.004/2011 01:51 PM .2/2 islent-install.ini 05.004/2011 01:51 PM .2/2 islent-install.ini 05.004/2011 01:51 PM .2/2 islent-install.ini 05.004/2011 01:51 PM .2/4 islent-install.ini 05.004/2011</pre>	📼 C:\WINDOWS\system32\cmd.exe	- 🗆 🗙
<pre>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 0:149 PM</pre>	1 File(s) 99,244,604 bytes 3 Dir(s) 138,428,694,528 bytes free	
T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>dir Volume in drive T is ccase_Pls 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 01:49 PM (DIR) . 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:49 PM (DIR) . 05/04/2011 01:50 PM (DIR) . 05/04/2011 01:51 PM (DIR) . 05/04/2011 01:51 PM (DIR) . 05/04/2011 01:49 PM (2.433 consoleinst.bat 05/04/2011 01:49 PM (2.433 consoleinst.bat 05/04/2011 01:49 PM . 05/04/2011 01:51 PM . 0224 silent-install.ini 05/04/2011 01:51 PM . 0234 silent-install.ini 05/04/2011 01:51 PM . 05/04/2011 01:51 PM . 024 silent-install.ini 05/04/2011 01:51 PM . 025/04/2011 01:51 PM . 024 silent-install.ini 05/04/2011 01:51 PM . 025/04/2011 01:51 PM . 026 serinstc.exe 05/04/2011 01:51 PM . 027 silent-install.ini 05/04/2011 01:51 PM . 028.245 bytes 11 Dir(s) 138,428,694,528 bytes free T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.20110303_1846>installc - launcher.ini silent-install.ini 020 silent-install.ini 020 silent-install.ini 020 silent-install.ini 020 silent-install.ini 020 silent-installer.win32.win32.x86_1.4.30	T:\Rational_IM>cd agent.installer.win32.win32.x86_1.4.3000.20110303_1846	
Directory of T:\Rational_IM\agent.installer.win32.vin32.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) configuration 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:49 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:49 PM (DIR) native 05/04/2011 01:49 PM (DIR) native 05/04/2011 01:49 PM (DIR) native 05/04/2011 01:49 PM 2.433 consoleinst.bat 05/04/2011 01:49 PM 2.433 consoleinst.lat 05/04/2011 01:49 PM 2.4576 (installc.exe 05/04/2011 01:51 PM 2.24 install.ini 05/04/2011 01:51 PM 2.24 silent-install.ini 05/04/2011 01:51 PM 2.24 silent-install.ini 05/04/2011 01:51 PM 2.231 user-silent-install.ini 05/04/2011 01:51 PM 2.232 userinst.exe 05/04/2011 01:51 PM 2.4576 userinst.exe 05/04/2011 01	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	
05/04/2011 05:04 PM (DIR) 05/04/2011 01:49 PM (DIR) 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:50 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:49 PM 2.433 consoleinst.bat 05/04/2011 01:49 PM 2.433 consoleinst.bat 05/04/2011 01:49 PM 2.433 consoleinst.bat 05/04/2011 01:49 PM 2.437 consoleinst.loat 05/04/2011 01:49 PM 2.437 consoleinst.bat 05/04/2011 01:49 PM 2.4576 install.ml 05/04/2011 01:51 PM 2.777 readme_1.4.3.html 05/04/2011 01:51 PM 2.777 readme_1.4.3.html 05/04/2011 01:	Directory of T:\Rational_IM\agent.installer.win32.win32.x86_1.4.3000.201103 846	03_1
-launcher.ini silent-install.ini	05/04/2011 05:04 PM (DIR) 05/04/2011 01:49 PM (DIR) 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) configuration 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:49 PM (DIR) features 05/04/2011 01:50 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:51 PM (DIR) native 05/04/2011 01:49 PM 1.645.320 gdiplus.dll 05/04/2011 05/04/2011 01:49 PM 1.645.320 gdiplus.dll 05/04/2011 05/04/2011 01:49 PM 1/4 install.ini 05/04/2011 05/04/2011 01:49 PM 24.576 installc.ini 05/04/2011 01:51 PM 7/77 readme_1.4.3.html 05/04/2011 05/04/2011 01:51 PM 224 silent-install.ini 05/04/2011 05/04/2011 01:51 PM 224 silent-install.ini 05/04/2011 01:51 PM 05/04/2011 01:51 PM 224 silent-in	llc -
1:\Xational [M\agent.installer.win32.win32.xxb].4.3000.20110303 1846>	-launcher.ini silent-install.ini T:\Bational 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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🐻 Add or Rer	nove Programs				X
	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name		~
Change or Remove	I Citrix Presentation Server Client		Size	23.54MB	~
Programs	🔁 Compatibility Pack for the 2007 Office system		Size	159.00MB	
1	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	
Add/Remove <u>W</u> indows Components	🙆 IBM Installation Manager		Size	0.79MB	
	IBM iSeries Access for Windows		Size	121.00MB	
	🕞 Intel(R) Graphics Media Accelerator Driver				
	b J2SE Runtime Environment 5.0 Update 10		Size	120.00MB	
Set Program	🛃 Java(TM) 6 Update 22		Size	91.04MB	
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.



C:\WINDOWS\system32\cmd.exe	- 🗆 🗙
0 File(s) 0 bytes	
5 Dir(s) 19,617,902,592 bytes free	
C:\Program Files\IBM\Installation Manager>cd eclipse	
C:\Program Files\IBM\Installation Manager\eclipse>dir	
Volume in drive C has no label.	
Volume Serial Number is 2856-189B	
Divertery of Civ Due ware Biles (IDM) Lettelleting Mercury) coliner	
Directory of C. (rogram riles (ibm (installation manager (eclipse	
05/10/2011 09:56 AM <dir> .</dir>	
05/10/2011 09:56 AM <dir></dir>	
05/04/2011 05:05 PM <dir> atoc</dir>	
05/04/2011 05:06 PM 235 check.properties	
05/10/2011 09:56 AM <dir> configuration</dir>	
05/04/2011 05:06 PM <dir> documentation</dir>	
05/04/2011 05:06 PM <dir> extra</dir>	
03/03/2011 07:49 PM 58,608 IBMIM.exe	
05/04/2011 05:06 PM 182_IBMIM.ini	
03/03/2011 07:49 PM 24.576 IBMIMc.exe	
05/04/2011 05:06 PM <dib>ire_5.0.4.sr11_20091106a</dib>	
03/03/2011 07:49 PM 58.608 launcher.exe	
05/04/2011 05:06 PM 182 launcher.ini	
05/04/2011 05:06 PM <dib> 1ib</dib>	
05/04/2011 05:06 PM <dir> native</dir>	
05/09/2011 04:10 PM <dib> p2</dib>	
05/04/2011 05:05 PM <dib> plugins</dib>	
01/20/2011 01:13 PM 7.777 readme.html	
05/04/2011 05:04 PM 118 repository.config	
05/04/2011 05:06 PM 233 silent-install.ini	
05/04/2011 05:06 PM <dir> tools</dir>	
9 File(s) 150.519 butes	
12 Dir(s) 19,617,902,592 bytes free	
C:\Program Files\IBM\Installation Manager\eclipse\IBMIMc.exe =record c:\Temp	CC
CQ_Response.ini -skipInstall c:\Temp\IMData	

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	(Recording)		
File Help			
Open 🕨			
📒 View Log	anager		
Installation History			
🗓 View Installed Packages			
Preferences Exit	Install Instal software par	kages.	
	Update Discover and install fixes to installed so	updates and tware packages.	Roll Back
	Change installed so by adding or remov functions.	tware packages	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			<
Rep App Files Help Thte Pass	ositories earance : for Rollback : rnet :port Advantage atec	Repositories:	Connect	ion	Add Repository
-,-	1 Add Repository				Move Up
	Add a repository Specify a repository and	add to the repository preference list.			Move Down Clear Credentials Test Connections
	Repository:	▼ В	rowse		
				he Installation	Manager itself) are Defaults Apply
?		ОК Са	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	⇔ - ⇒ - ▼
Repositories Appearance Files for Rollback Internet Passport Advantage Updates	Repositories:	Add Repository Edit Repository Remove Repository Move Up Move Up Move Down Clear Credentials Test Connections
0		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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Select packages to install:			-
	Shahar	Unnelay	License Keu Tune
Installation Packages	otatus	venuur	License key Type
		IBM	
😑 🔲 🚺 IBM® Rational® ClearQuest® - Windows			
University of the second secon		IBM	
Diffig Rationally License Key Automistrator		IBM	
Show all versions		Check	for Other Versions, Fixes, and Extension
etails			
3M® Rational® ClearCase® - Windows 7.1.2.02			
	everything that evolves in the developme	ent process. Features Snapshot a	nd Dynamic Views, advanced build
omprehensive software configuration management that helps teams control anagement, and Unified Change Management. More info			
.omprehensive software configuration management that helps teams control nanagement, and Unified Change Management. <u>More info</u> Repository: \\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1			
omprehensive software configuration management that heips teams control anagement, and Unified Change Management. <u>More info</u> Repository: \\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1			

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
□ V IIIM® Rational® ClearCase® - Windows	Will be installed	IBM	
□ V IIIM® Rational® ClearQuest® - Windows	Will be installed	IBM	
G U IBM® Rational® License Key Administrator U Ø 0 Version 8.1.1	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 Ne	xt > Install Cancel

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



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M Installation Manager(Recording)	
Install Packages	
valuate the prerequisites for the selected parkages. Click the ma	Reu noues for audicional informacion about prerequisites.
Install Prerequisite Licenses Loca	ition Features Summary
Validation Results	
IBM® Rational® ClearCase® - Windows 7.1.2.02 Antivirus Warning	STOP! Before proceeding with this install, please close all applications and disable anti-virus software. Check <u>http://www- 01.ibm.com/support/docview.wss?rs=2038.context=5W0008.g1=11352958uid=swq21135295</u> for information on how to
IBM® Rational® ClearQuest® - Windows 7.1.2.02 Aptivirus Warping	prevent potential system corruption.
IBM® Rational® License Key Administrator 8.1.1	
	Recheck Status
	< Back Next > Install Cancel

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 Agreement International Hicense Agreement for Evaluation of Programs Image: Bit Rational License Agreement International Hicense Agreement Image: Bit Rational License Agreement International License Agreement, without modification. If Licensee is obtaining the 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 but() (the International Horgen an License Agreement, (the "Evaluation of Program for Use and the Texal action"): By clicking on the "Accept" button below, Licensee accepts to but() (the International License Agreement for Evaluation of Program for use after the Evaluation Use maintain additional or program for use after the Evaluation (the Evaluation of Program for use after the Evaluation Use matching by Pricement (the "IPLA"), without modification. The Evaluation License agreements The Evaluation Use matching by Pricement agreement (e.g.,	IBM Installation Manager(Recording,)	
IBM Rational ClearCase IMPORTANT: READ CAREFULLY I Lense Agreement I. International License Agreement I Lense Agreement I. International License Agreement I Lense Agreement I. International License Agreement I Lense Agreement I. 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 purposes of evaluation, testing, trial "try or buy," or demonstration (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (0) the International License Agreement for Evaluation of Programs (the "Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (0) the International License Agreement (the "Evaluation"): By clicking on the "Accept" button below, Licensee elects to retain the Program for the subational Program for use after the Evaluation License Agreement (the "Evaluation Ucense"), without modification, and (ii) the International Program for the Evaluation (or obtain additional copies of the Program for use after the Evaluation License agreement (e.g., the IBM International Passport Advantage or the IBM Passport Advantage Express agreements). The Evaluation License agreements The Evaluation License agreements follow. I accept the terms in the license agreements Immediate the terms in the license agreements I do not accept the terms in the license agreements Immt Al	Install Packages Read the following license agreements carefully. Install Prerequisite Licenses Location Features Summary	
I accept the terms in the license agreements I do not accept the terms in the license agreements	IBM Rational ClearCase IMPORTANT: READ CAREFULLY License Agreement Two license agreements are presented below. License Agreement International License key Server License Agreement International Ucense Agreement for Evaluation of Programs License Agreement International Program License Agreement for Evaluation of Programs License Agreement International Program License Agreement If License e is obtaining the 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 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 Evaluation License will apply during the term of Licensee's Evaluation. The Evaluation License agreements). The Evaluation License agreements). The Evaluation License and the IPLA are not in effect concurrently; neither modifies the other; and each is independent of the other. The complete text of each of these two license agreements follow.	
Install Cancel	I accept the terms in the license agreements I do not accept the terms in the license agreements Print All 7) :el

Accept the licensing agreements, and click Next to continue.



IBM Installation Manager(Recording,)	
Install Packages	
Install Prerequisite Licenses Location Features Summary	
When you install packages, files are stored in two locations: 1) The shared resources directory - resources that can be shared by multiple packages. 2) 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 available space because it must have adequate space for the shared resources of future packages.	most
Shared Resources Directory: C:\Program Files\IBM\IMShared	Browse
Volume Available Space C: 18.24 GB	
⑦ < Back Next > Install	Cancel

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

🚇 IBM Installation Manag	ger(Recording)		
Install Package The packages will be inst Instal Prer	equisite Licenses Location Features	o to change the installation directory.	-
Package Group Name	ĸs	Installation Directory C1Program Elles'IBM/RationalRLKS	
IBM® Ratio	nal@ License Key Administrator 8.1.1 NLC nal@ ClearCase® - Windows 7.1.2.02 nal@ ClearQuest® - Windows 7.1.2.02	C:\Program Files\IBM\RationalSDLC	
Package Group Name: I Installation Directory:	IBM Rational RLKS C:\program Files\IBM\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	ger(Recording)			
Install Package	es			-
Select the translations to	o install.			
Install Pren	equisite Licenses Location	Features Summary		
Select the translations fo	r the packages that will be installed to pack	age group IBM Rational SDLC, IBM Rationa	I RLKS.	
Translations	Brazilian Portuguese	French	German	Italian
Japanese	Korean	Simplified Chinese	Spanish	Traditional Chinese
			<	Back Next > Install Ca

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	
Image: Server Components Image: Image: Server Components	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 (CCFS) Clustomize Pop-Up Menu: Clear ClearCase Atria Licensing File System Struct ClearCase Atria Licensing File Site Server (CCFS) Desktop Shortcut ClearCase Atria Licensing File Site Server (CCFS) Desktop Shortcut ClearCase Atria Licensing File Site Server (CCFS) ClearCase Atria Licensing File Server (CCFS) Desktop Shortcut ClearCase Atria Licensing File Server (CCFS) File Server	Common Configurations Automatic Process Stopping Configuration 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. • Yes, stop processes • No, do not stop processes
0	< Back Next > Install Cancel

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 Lin	censes Location Features Summary
Automatic Process Stopping Co	Common Licensing
Common Licensing Hep System Desktonal@ 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 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:
3	< Back Next > Install Cancel
L	

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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Install Packages Fill in the configurations for the packages. Install Prerequisite Lic	zenses Location Features Summary	
Common Configurations Common Licensing Control Common Licensing Control Common Licensing Control Common Licensing Common Licensing	Common Configurations Help System 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 from the Web. If you work offline, you can observer. If you install packages that do not use remote help, the documentation for those packages is installed on your computer. After the installation, you can change how you access help by using the help preferences option in the product. Access help from the Web 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. Con subsequent Startups, available updates to the help are downloaded and installed. Access help from a server on your intranet Host: Path: Path:	

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 Lik	tenses Location Features Summary	
Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account	
Help System Help System Help System Service Account Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Desktop Shortcut ClearCase Atria Licensing JBM® Rational® ClearQuest® - W E-mail Notification	Enter the user account for ClearCase server processes. Account domain (required): BOD Server process user name (required):	
•	<back next=""> Install</back>	Cancel

Enter ClearCase configuration information and click Next.



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 IBM Installation Manager(Recording, Install Packages Enter a registry server host name. 	.)
Install Prerequisite Li Common Configurations Automatic Process Stopping Co Common Licensing Help System Bild Re Rational® ClearCase® - Wir Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVF5 Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing Differential Licensing Differential Licensing Differential Licensing Differential Licensing ClearCase Atria Licensing ClearCase Atria Licensing ClearCase Atria Licensing Differential Licensing ClearCase Atria	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 stores VOB and view tag information. Registry server stores VOB and view tag information. Registry server stores VOB and view tag information. Registry server stores VOB and view tag information. Registry server stores VOB and view tags. Windows registry region (required):
0	< Back

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

🙆 IBM Installation Manager(Recording.)	
Install Packages Fill in the configurations for the packages. Install Prerequisite Li	censes Location Features Summary	-
 □ Common Configurations □ Automatic Process Stopping Co □ Common Licensing 	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Remote Administration	
Help System Help System TBM® Rational® ClearCase® - Wir Registry and Mail Servers Registry and Mail Servers WerS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut ClearCase Atria Licensing Help Rational® ClearQuest® - W E-mail Notification	Do you want to disable remote administration for ClearCase?	
0		<back next=""> Install Cancel</back>

Choose the desired setting for remote administration and click Next.



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 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 Registry and Mail Servers Registry and Mail Servers Remote Administration WHFS Case Sensitivity WHFS Settings ClearCase File Server (CCFS) Customize Pool-Up Menu: Clear Customize Pool-Up Menu	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 MVFS Case Sensitivity 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 Case-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 Preserving
0	< <u>Back</u> Next > 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. Instal 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	Drive letter used to mount dynamic views: 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:	
0		< Back Next > Install Cancel	

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



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IBM Installation Manager(Recording.)	
Install Packages Fill in the configurations for the packages.		
Install Prerequisite	Censes Location Features Summary Configuration for IBM® Rational@ ClearCase@ - Windows 7.1.2.02 ClearCase File Server (CCFS) Do you want to enable CCFS for this installation? • Ygs, enable CCFS • Ng, disable CCFS • Ng, disable CCFS • Ng, disable CCFS • O Ng	
0		<back next=""> Install Cancel</back>

Enable or disable CCFS and click Next.

Table Processes Fill the configurations for the packages. Install Prerequisite Licences Location Features Summary Install Prerequisite Licences Location Features Customize Pop-Up Menu: ClearCase Explorer Install Precesse NWFS Case Sensitivity MWFS Settings Precesse Precesse Install Precesse Aria Licensing Install Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clear ClearCase Aria Licensing Precesse Precesse Install Precesse Install Notification Finall Notification Features Features Install Precesses Enail Notification Features Featur	BM Installation Manager(Recording, .	.)	
Ibsa Peades Summary Ibsa Peades Summary <	Fill in the configurations for the packages.	areas Location Eastware Summany	
Image: Common Licensing Do you want to specify a pop-up menu customization file for ClearCase Explorer? Image: Common Licensing Do you want to specify a pop-up menu customization file for ClearCase Explorer? Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Do you want to specify a pop-up menu Image: Common Licensing Customize Flos Server (CCFS) Image: Control ClearCase Flos Server (CCFS)	Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Customize Pop-Up Menu: ClearCase Explorer	
? < Back	Common Licensing Help System Service Account Registry and Mail Servers Registry and Mail Servers Remote Administration WHYS Case Sensitivity Clear-Case File Server (CCFS) Customize Pop-Up Menu: Clear Customize Tool Shortcuts: Clea Desktop Shortcut Clear-Case Atria Licensing Clear-Case Atria Licensing E-10 IBM@ Rational@ ClearQuest@ - W E-mail Notification	Do you want to specify a pop-up menu customization file for ClearCase Explorer?	Browse
	0		<back next=""> Install Cancel</back>

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



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IBM Installation Manager (Recording, Install Packages Fill in the confirmations for the packages	.)	
Fill in the configurations for the packages. Instal Prerequisite Common Configurations Automatic Process Stopping Co Common Licensing Help System Help System Registry and Mail Servers Remote Administration MVFS Case Sensitivity Remote Administration MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Pop-Up Menu: Clear Customize Shortcuts: Clear Desktop Shortcut ClearCase Atria Licensing File JBM® Rational® ClearQuest® - W E-mail Notification	tenses Location Features Summary Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Customize Tool Shortcuts: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Do you want to specify a tool shortcuts customization file for ClearCase Explorer? © Ng, use the default tool shortcuts Ygs, use this customization file	Browse
3		< Back Next > Install Cancel

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 ()		
Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Desktop Shortcut		
Common Licensing Help System BibM@R Rational@ ClearCase@ - Wir Service Account Registry and Mail Servers Registry and Mail Servers Registry and Mail Servers MWFS Case Sensitivity MWFS Case Sensitivity ClearCase File Server (CCFS) Customize Tool Shortcuts: Clear Desktop Shortcut ClearCase Atria Licensing BibM@ Rational@ ClearQuest@ - W E-mail Notification	Do you want to create a shortcut for ClearCase Explorer on your desktop? Ygs, create the shortcut No, do not create the shortcut		
0		< Back Next > Install Car	icel

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	1
Common Configurations Automatic Process Stopping Co	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 ClearCase Atria Licensing	
Common Licensing Help System IBM® Rational® ClearCase® - Wir Sawica Account	Selecting Atria licensing overrides common licensing in Rational ClearCase.	
Service Account Registry and Mail Servers Registry and Mail Servers Remote Administration WMP5 Case Sensitivity WMP5 Settings ClearCase File Server (CCF5) Customize Pop-Up Menu: Clear Desktop Shortcuts ClearCase Atria Licensing ClearCase Atria Licensing E-mail Notification	Where is your license server? On a remote host Enter remote host name (required): On my local host Enter license keys (required):	< >

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

BM Installation Manager(Recording,)	
Install Packages Fill in the configurations for the packages.	renses Location Features Summary	
Common Configurations Stopping Co	Configuration for IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	
Common Licensing Help System Help System Help System Registry and Mal Servers Registry and Mal Servers Registry and Mal Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) ClearCase File Server (CCFS) ClearCase File Server (CCFS) ClearCase Atria Licensing ClearCase Atria Licensing ClearCase Atria Licensing File E-mail Notification	Configure the Simple Mail Transport Protocol (SMTP). Qutgoing SMTP server (required): Text 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\RationalRLK5
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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Thistallation wanager (Necol unig)	
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 Ca

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\syste	m32\cm	nd.exe			- 🗆 🗙
	51)ir(s)	19,617	,902,592	2 bytes free	
C:\Program]	Files	[BM∖In:	stallati	on Manag	ger>cd eclipse	
C:\Program Volume in Volume Ser	Files\] drive (ial Nur	[BM∖Ins C has r nber is	stallati no label s 2856-1	on Manag 89B	ger\eclipse>dir	
Directory	of C:\I	Progra	n Files∖	IBM∖Inst	tallation Manager\eclipse	
05/10/2011	09:56	AM	<dir></dir>			
05/10/2011	09:56	AM	<dir></dir>		••	
05/04/2011	05:05	PM	<dir></dir>		atoc	
05/04/2011	05:06	PM		235	check.properties	
05/10/2011	09:56	AM	<dir></dir>		configuration	
05/04/2011	05:06	PM	<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	05:06	PM		182	IBMIM.ini	
03/03/2011	07:49	PM		24,576	IBMIMc.exe	
05/04/2011	05:06	PM	<dir></dir>		jre_5.0.4.sr11_20091106a	
03/03/2011	07:49	PM		58,608	launcher.exe	
05/04/2011	05:06	PM		182	launcher.ini	
05/04/2011	05:06	PM	<dir></dir>		lib	
05/04/2011	05:06	PM	<dir></dir>		native	
05/09/2011	04:10	PM	<dir></dir>		p2	
05/04/2011	05:05	PM	<dir></dir>		plugins	
01/20/2011	01:13	PM		7,777	readme.html	
05/04/2011	05:04	PM		118	repository.config	
05/04/2011	05:06	PM		233	silent-install.ini	
05/04/2011	05:06	PM	<dir></dir>		tools	
	. 9 1	File(s)	>	150,519	bytes	
	12 l)ir(s)	19,617	,902,592	2 bytes free	
C:\Program	Files	[₿M∖Ţn:	stallati	on Manag	ger\eclipse>IBMIMc.exe -record c:\Temp	CC_
C4_Response	.ini -:	skiplns	stall c:	\lemp\lr	TVata	
C:\Program Files\IBM\Installation 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.



CC_CO_Response.ini - Notepad	K
File Edit Format View Help	
xml version="1.0" encoding="UTF-8"? The "acceptLicense" attribute has been deprecated. Use "-acceptLicense" command line option to accept li<br <agent-input acceptlicense="true"> <server></server></agent-input>	^
<pre><repository location="\\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1"></repository></pre>	1
 <profile id="IBM Rational SDLC" installlocation="C:\Program Files\IBM\RationalSDLC"> <data key="eclipseLocation" value="C:\Program Files\IBM\RationalSDLC"></data> <data key="user.import.profile" value="false"></data></profile>	-
<data key="user.Team_conv_InstallDirectory" value="C:/Program Files/IBM/RationalSDLC"></data> <data key="user.StopRunningProcesses" value="true"></data> <data key="user.help.option" value="remote"></data> <data key="user.help.option" value="remote"></data>	
<pre><data key="user.neip.ur" value="1"></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></pre>	
<pre><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="M"></data> <data key="user.CC_State com ibm rational clearcase nt_i386" value="M"></data></pre>	
<pre><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>	~
	.::

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.

	ØS\system32\	cmd.exe - IE	MIMc.exela	launcher.ini silent-Install.ini -input c:\Tem 💶 Þ
05/11/2011	04:16 PM	<dir></dir>	CO	onfiguration 🗛
05/11/2011	02:47 PM	<dir></dir>	do	ocumentation
05/11/2011	02:47 PM	<dir></dir>	ex	xtra
03/03/2011	07:49 PM		58,608 IB	BMIM.exe
05/11/2011	02:47 PM		182 IB	BMIM.ini
03/03/2011	07:49 PM		24,576 IB	BMIMc.exe
05/11/2011	02:47 PM	<dir></dir>	.jr	re_5.0.4.sr11_20091106a
03/03/2011	07:49 PM		58,608 ľa	auncher.exe
05/11/2011	02:47 PM		182 la	auncher.ini
05/11/2011	02:47 PM	<dir></dir>	li	ib
05/11/2011	02:47 PM	<dir></dir>	na	ative
05/11/2011	03:51 PM	<dir></dir>	p2	2
05/11/2011	02:47 PM	<dir></dir>	թլ	lugins
01/20/2011	01:13 PM		7,777 re	eadme.html
05/11/2011	02:46 PM		118 re	epository.config
05/11/2011	02:47 PM		233 si	ilent-install.ini
05/11/2011	02:47 PM	<dir></dir>	to	pols
	9 File<	(s)	150,519 b	bytes
	12 Dir(s	> 18,963	,619,840 b	bytes free
C:\Program	Files\IBM\I	nstallati	on Manager	r\eclipse≻IBMIMc.exelauncher.ini sile
nt-Install.	ini -input	c:\Temp\C	C_CQ_Respo	onse.ini -nosplash -showProgress
	25%	, and the second s	50%	75% 100%
				i
				· · · · · · · · · · · · · · · · · · ·

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.