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Rational 7.1.2 Installation Manager and Packaging Utility

With the release of Rational 7.1 tools, we now have an application named IBM Installation Manager to oversee the installation of all IBM Rational products. IM depends upon previously created installation "packages", which contain the necessary instruction for installing the software package. There is also something named IBM Packaging Utility which is capable of creating packages which Installation Manager can then install. This document is intended to cover the use of both these installation methodologies, giving examples with the latest available releases as of this writing.

Version 1.4.3 of Installation Manager (IM) has been installed to begin this example. This can be installed by running *launchpad.exe* from a current distribution of many IBM software products. Usually you will first get an older version, which can then be upgraded by directing IM to update itself. We won't go through how to install an initial version of IM unless there is a great groundswell of demand for this in a future document.

IBM Installation Manager				_ 🗆 🗙
File Help		About IBM Insta	llation Manager	
IBM Installation Manager			IBM Installation Manager Version: 1.4.3 Internal version: 1.4.3000.20110303_1846 © Copyright IBM Corp. and others 2006, 2011. All rights reserved. This product is Built on Eclipse™ (http://www.eclipse.org)	
	Install Install software pa	Configuration Details]	ОК
	Update Discover and insta fixes to installed so	Ill updates and oftware packages.	Roll Back	
	Modify Change installed s by adding or remo functions.	oftware packages ving features and	Uninstall	
IBM.				



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First let's have a quick look at how to set IM for future self upgrades. Often newer software package releases will require an updated IM to conduct the installation. Follow these steps:

- Pull down: File -> Preferences
- Select the Updates option. Note that there is a checkbox which allows for updates to Installation Manager itself.
- Check the box and click Apply.

Preferences	
type filter text	Updates 🗘 🗧 🗸 🗸
Repositories Appearance Files for Rollback Internet Passport Advantage Updates	The Installation Manager can optionally search for updates to itself whenever any of the following pages are opened from the Start page: Install Packages Modify Packages Update Packages And when clicking the "Check for Other Versions, Fixes, and Extensions" button on the "Install Packages" page. Search for Installation Manager updates
	Restore Defaults Apply
?	OK Cancel

Then click on Repositories in the left hand panel so we can proceed with an installation, in this case, we will install Packaging Utility.



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Preferences			
type filter text Repositories Appearance Files for Rollback ⊕ Help ⊕ Internet Passport Advantage Updates	Repositories Location Image: Construction of the state of the	Connection	Add Repository Edit Repository Move Up Move Down Clear Credentials Test Connections
	Service repositories are remote locations where updates or extensions to packages (including the Installat	ion Manager its	elf) are stored. 🛛 🛃
0			OK Cancel

In the Repositories panel, we need to add the Packaging Utility (PU) repository so that we can install it. In the next screenshot, we are still in the IM Preferences panel and we click on Add Repository. Having previously downloaded PU from IBM's website and unzipping it, we add this repository by navigating to "diskTag.inf" file and selecting this as seen above. Click OK on the Preferences panel to return to the main IM panel.



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🙆 IBM Installation Manager	
File Help	
IBM Installation Manager	

We are ready to begin an installation. Click Install on IBM Installation Manager. IM picks up the items that have been added to the list of repositories. The resulting install panel is shown in the next screenshot.



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install Dadvagos			
Select packages to install:			7
Installation Packages	Status	Vendor	License Key Type
IBM Packaging Utility		IBM	
Show all versions		Check for	or Other Versions, Fixes, and Extensions
etails			
BM Packaging Utility 1.2.1 BM Packaging Utility is an utility tool used to package and manage softwar	re applications. More info		
Repository: C:\DOCUME~1\rross\LOCAL5~1\Temp\cicvolcache_rross\c	om.ibm.cic.packagingUtility_1.2.1.20081110_1	.001\md	
		(speak	Models Trackell Const

Here we have IBM Packaging Utility shown as a candidate for installation. Click the check boxes and then click on "Check for Other Versions, Files, and Extensions". The next screenshot shows the results.



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[nstall Packages Select packages to install:				÷.
Installation Packages		Status	Vendor	License Key Type
IBM Packaging Utility Image: Constraint of the second s		Will be installed	IBM	
	9 L			
	🖄 Search Result			
	14 other versions of Show all versions to	f the selected packages and extensions v see the found items.	vere found, Click	
			OK	
Show all versions			Check f	or Other Versions, Fixes, and Extensions
			< Back	Next > Install Cance

We now have the latest available updates to the older version of Packaging Utility we had downloaded. Click OK on the pop-up. Go ahead and check the "Show all versions" checkbox at the lower left of the panel, and all the available versions will be displayed as shown in the next screenshot.



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IBM Installation Manager			
Install Packages Select packages to install:			
Installation Packages IM Packaging Utility If 0 Version 1.0.0.2 If 0 Version 1.0.0.3 If 0 Version 1.1 If 0 Version 1.1 If 0 Version 1.1.2 If 0 Version 1.2.0 If 0 Version 1.3.0 If 0 Version 1.3.1 Version 1.3.2 If 0 Version 1.4.1 Version 1.4.3	Status Will be installed	Vendor IBM IBM IBM IBM IBM IBM IBM IBM IBM IBM	License Key Type
Show all versions		Check for	Other Versions, Fixes, and Extensions

We can see that many patch bundles are available for Packaging Utility. We will pick the one that corresponds to the version of IM we are using: 1.4.3. IBM lists this as a requirement, by the way. Click Next.



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JIBM Installation Manager
Read the following license agreements carefully.
Install Licenses Location Features Summary
International Program License Agreement
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- DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND
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"Program" - the following, including the original and all whole or partial copies: 1) machine-readable instructions and data, 2) components, files, and modules, 3) audio-visual content (such as images, text, recordings, or pictures), and 4) related licensed materials (such as keys and documentation).
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"Warranty Period" - one year, starting on the date the original Licensee is granted the license.
2. Agreement Structure
I accept the terms in the license agreement
○ I do not accept the terms in the license agreement
(7) Cancel

We now have the IM license acceptance panel. Accept the license agreement, and click Next.



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l Installa	ition Manager							
Install	Packages							
Select a lo	cation for the shar	ed resources directory.						T
Instal	Licenses	Location	Features Summary					
W	ben you install na	rkages, files are stored in two	o locations:					
1	The shared resou	urces directory - resources th	at can be shared by multiple	packages.				
<u>2</u> 2	The installation d	rectory - any resources that	are unique to the package t	nat you are installing.				
lr a'	nportant: You can vailable space beca	only select the shared resour ause it must have adequate s	/ces directory the first time y space for the shared resourc	ou install a package with th es of future packages.	ne IBM Installation Mana	ager. For best results sele	ct the drive with the n	nost
		c.lo., c.l., toulch						
hared Res	ources Directory:	C: (Program Files (1614) Share	30					Browse
isk Spa	e Information							
Volume C:	Available Space 17.10 GB							

When using IM, there are typically two different repositories that it will install into. There is a repository for shared resources, and also a repository for the software package being installed. Click Next on where to install shared resources, unless there is a preference for locating this somewhere else.



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a natationan Main	ger		
Install Packag A package group is a k Select an existing pack Install Lice Use the existing pa	ICS ication that contains one or more packages. Some comp age group, or create a new one. enses Location Features Su skage group me group	batible packages can be installed into a common package group and will share a common user interface.	4
Package Group Name		Installation Directory	
🗞 IBM Packaging	Utility	C:\Program Files\IBM\Packaging Utility	
Package Group Name: Installation Directory:	IBM Packaging Utility C:\Program Files\IBM\Packaging Utility		Browse
Dotaile		Dick Gazes Information	
		Disk space mormation	
Shared Resources Dir	actory: C:\Program Files\IBM\Shared	Volume Available Space C: 17.10 GB	
Shared Resources Dir	sctory: C:\Program Files\IBM\Shared	Volume Available Space C: 17.10 GB	
Shared Resources Dir	ectory: C:\Program Files\IBM\Shared	Volume Available Space C: 17.10 GB	

Here we have the location of the repository where Packaging Utility will be installed. Unless there is a need to change this, click Next.



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M Installation Mana	ger				
Trankall Daalua a					_
Instan Packag	es te install				
Select the translations (o instan.				E
Install Lice	nses Location Feature	s Summary			
Translations					
🗹 English	Arabic	🔲 Brazilian Portuguese	Czech	🔲 Danish	
French	German	Greek	- Hungarian	🔲 Italian	
🔲 Japanese	Korean	Polish	Russian	Simplified Chinese	
📃 Spanish	Traditional Chinese	Turkish			

We are making the assumption that English is all that is needed for this installation. If something more is needed, check the box for that language. I haven't tried this, so I can't guarantee the results. Click Next.



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Select the features to install. Install Licenses Install Icenses Image: Summary Features Image: Summary Image: Summary <th>-></th>	->
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Install Licenses Location Features Features IBM Packaging Utility 1.4.3 IBM Packaging Utility 1.4.3 Show dependencies Expand All Collapse >>- Selected by Installation Manager because of dependencies Expand All Collapse Details BM Packaging Utility 1.4.3 BM Packaging Utility 1.4.3 BM Packaging Utility is an utility tool used to package and manage software applications.	
Features Image: Show dependencies Show dependencies Show dependencies Sected by Installation Manager because of dependencies Details BM Packaging Utility 1.4.3 EM Packaging Utility is an utility tool used to package and manage software applications.	
Show dependencies Source Sected by Installation Manager because of dependencies Sected by Installation Manager because of dependencies Sected B M Packaging Utility 1.4.3 EM Packaging Utility 1.4.3 EM Packaging Utility is an utility tool used to package and manage software applications.	
Show dependencies Expand All Collaps Selected by Installation Manager because of dependencies Details IBM Packaging Utility 1.4.3 IBM Packaging Utility is an utility tool used to package and manage software applications.	
BM Packaging Utility is an utility tool used to package and manage software applications.	All Restore Default
Jisk Space Information	
Volume Required Temporary Total Available Shared Resources Area C: 61.39 MB 43.08 MB 104.46 MB 16.64 GB Installation Directory C: 61.79 MB 61.79 MB 16.64 GB	
< Bark Next >	

This panel gives the option of selecting, or not, various features in the software being installed. In the case of Packaging Utility, there are no options. Later on when we show other software being installed, we will see options to select. Click Next.



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Installation Manager					
nstall Packages					-1
Review the summary informati	n.				4
Install Licenses	Location Features	s Summary			
arget Location Package Group Name: Installation Directory: Shared Resources Directory:	IBM Packaging Utility C:\Program Files\IBM\Packaging (C:\Program Files\IBM\Shared	Utility			
ackages					
i nvironment English			Disk Space Information Total Available Space C: 16.64 GB		
invironment English • Repository Information			Disk Space Information Total Available Space C: 16.64 GB Total Download Size: 86.74 Mt Total Installation Size: 166.25 M	316	

Last chance before we leave the station. To proceed, click Install.



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i instattation manager				-
install Packages				-1
Review the summary informat	on.			7
Install Licenses	Location Features	Summary		
larget Location				
Package Group Name:	IBM Packaging Utility			
Installation Directory:	C:\Program Files\IBM\Packaging Utilit;			
Shared Resources Directory:	C:\Program Files\IBM\Shared			
Packages				
Packages				
🕖 IBM Packaging Utility	1.4.3			
nvironment			Disk Space Information	
Environment			Disk Space Information	
E nvironment English			Disk Space Information Total Available Space	
Environment English			Disk Space Information Total Available Space C: 16.64 GB	
E nvironment English			Disk Space Information Total Available Space C: 16.64 GB Total Download Size: 86.74 MB	
Environment English			Disk Space Information Total Available Space C: 16.64 GB Total Installation Size: 166.25 MB	
Environment English			Disk Space Information Total Available Space C: 16.64 GB Total Download Size: 86.74 MB Total Installation Size: 166.25 MB	
Environment English → Repository Information			Disk Space Information Total Available Space C: 16.64 GB Total Download Size: 86.74 MB Total Installation Size: 166.25 MB	
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Environment English • Repository Information	i/s. 7.3 MB of 86 MB (9%) completed.		Disk Space Information Total Available Space C: 16.64 GB Total Download Size: 86.74 MB Total Installation Size: 166.25 MB	Pause Download) (

Here we see the install proceeding. Unless there is some reason to Pause or Cancel, work on something else (or get coffee) until the install completes.



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BM Installation Manager		
Install Packages		-
	The packages are installed. <u>View Log File</u>	
	The following package was installed:	
	□ ¹⁹ ₂₀ IBM Packaging Utility IBM Packaging Utility 1.4.3	
	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.	
0		Finish

The install of Packaging Utility was successful. Click Finish. Then close IM. We will now proceed to use the Packaging Utility software that we have just installed.



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Here we have launched Packaging Utility. Click the Copy Packages icon. Our intent is to demonstrate the creation of a installation package that will contain ClearCase 7.1.2, ClearQuest 7.1.2, and License Administrator 8.1.1. Once the package has been created, Installation Manager can then be used to install all three software packages as a single installation.

We should give a bit more background on Rational 7.1.2. It turns out that with ClearCase and ClearQuest 7.1.2, Rational License Key Administrator must (LKAD) be installed as a separate install. Prior to this, LKAD was included with the install of either ClearCase or ClearQuest. This is no longer the case. In fact, when upgrading to Rational 7.1.2, any prior version of LKAD is uninstalled! So LKAD will need to now be explicitly installed.

In the next screenshot, we see the result of clicking on Copy Packages. We will need to point to the repositories we want to include in our new install package.



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l Packaging Utility	
Copy Packages	E
Source Licenses Destination Summary	
Source	
Content	Latest Version Open Repository
	Passport Advantage
	Close Repository
	Clear Credentials
	Check for Updates
Show All 💿 Show Latest Version	
	< Back Next > Copy Ca

To add a repository, first click on Open Repository... The results are shown in the next screenshot.



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opy Packa	epositories and select the items to copy.		
Source	Licenses Destination Summary		
Source			
Content	Latest Versio	n	Corre Breachan
🗷 🔲 🚺 Cle	🕈 🛞 Open Repository	×	Passport Advantage
	Open Repository Open an existing local or remote respository. You can open the repository.config file, a directory that contains the repository.config file, a .zip file, or a JAR file. For enterprise CD images, open the disktag.inf file in the root of the CD.	A	Close Repository
	Repository		Check for Updates
Show All		rowse	
Repository In Name: P:\	ClearQuest_7.1.2		
Location: P:\ Read Only: Yes			

Here we are adding a ClearQuest 7.1.2 repository to our package creation process. Navigate to diskTag.inf or other repository description file and select it. Note that by default, the repository name as it will be displayed in Packaging Utility will be the same as the repository directory path. This can be changed, as shown above, by unchecking the box: "Use the location as the name of the target repository", and then entering a preferred name.



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Copy Packages	
open the source repositories and select the items to copy.	
Source Licenses Destination Summary	
Source	
Content	Latest Version Open Repository
ClearCase_7.1.2 ClearQuest_7.1.2 ClearQuest_7.1.2	Passport Advantage
	Close Repository
	Clear Credentials
	Check for Updates
Show All 💿 Show Latest Version	
Descritem Tefermation	
Name: P:\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1\diskTag.inf Location: P:\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1 Read Only: Yes	

Here is how PU looks after adding both ClearCase and ClearQuest. Notice that ClearCase is selected in the central box, and Repository Information for ClearCase is displayed in the lower part of the panel. Clicking on ClearQuest will display similar information for that repository.

We now need to talk a bit about fixpacks for both ClearCase and ClearQuest. Right now we have the base 7.1.2 version repositories, but patches are available for this. There are two ways to include the patches in the new install package we are creating. The first way is to download the fixpacks for both ClearCase and ClearQuest and include these in the list of repositories. We have done this for this example.

The other way is to expand each hierarchy in the list of repositories, then click on version (7.1.2.00), then click on Check for Updates. You will need to do this for both ClearCase and ClearQuest. If you don't want to download the fixpacks, and you have confidence in your internet connection not to glitch during the package creation, you can elect to do this. We did something similar with the previous install of Packaging Utility, where we picked up the latest patches to install.



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Copy Fackages	
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Source	
Content	Latest Version Open Repository
ClearCase_7.1.2	
ClearCase_7.1.2.2_Fixpack	Passport Advantage
ClearQuest_7.1.2	Close Repository
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to perform the second	
Show All Show Latest Version	
Show All 💿 Show Latest Version	
Show All Show Latest Version	
Show All Show Latest Version Repository Information	
Show All Show Latest Version Repository Information Name: ClearCase_7.1.2	
Show All Show Latest Version Repository Information Name: ClearCase_7.1.2 Location: \\europe\ccase_ris\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1	
Show All Show Latest Version Repository Information Name: ClearCase_7.1.2 Location: \\europe\ccase_rls\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1 Read Only: Yes	
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Show All Show Latest Version Repository Information Name: ClearCase_7.1.2 Location: \\europe\ccase_rls\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1 Read Only: Yes	
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Show All Show Latest Version Repository Information Name: ClearCase_7.1.2 Location: \\europe\ccase_7.1.2\CC\RATL_ClearCase_7.1.2_WIN\disk1 Read Only: Yes	< Back Next > Copy C

Here we show the fixpacks for both ClearCase and ClearQuest after then have been added to list of repositories to be included in the new install package.



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Packaging Utility	
Copy Packages Depen the source repositories and select the items to copy. Source Licenses Destination Summary Source	
Content	Latest Version Open Repository
Image: ClearCase_7.1.2 Image: ClearCase_7.1.2.2_Fixpack Image: ClearQuest_7.1.2 Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack Image: ClearQuest_7.1.2.2_Fixpack	Passport Advantage Close Repository Clear Credentials
Show All Show Latest Version Repository Information Name: LicenseAdmin_8.1.1 Location: Pilocase 7.1.2/1icAdministration-8-1-1 Windows/I KAD_SETURVelsk1	
Read Only: Yes	
	< Back Next > Copy Can
	0866

We have now added the License Key Administrator to the list of repositories. Note first the Repository information as the LKAD is selected. Then also note that Next is grayed out. We will need to check the boxes of all the repositories we choose to include in the new install package. This is shown in the next screenshot.



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A Packaging Utility		
De la sec		P
Copy Packages		PIT
Dpen the source repositories and select the items to copy.		J
Source Licenses Destination Summary		
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	Latest version Open Repository	y
ClearCase_7.1.2.2_Fixpack	Descent Adverte	
🖃 💟 🚺 IBM® Rational® ClearCase® - Windows	Passport Auvanta	ige
▼ 1.1.2.02	✓ Close Repositor:	
😑 🔽 🧻 ClearQuest_7.1.2		y
😑 🔽 🗊 IBM® Rational® ClearQuest® - Windows	Clear Credenti/	als
VR , 7.1.2.00	✓	
E ClearQuest 71.2.2 Fixnark		
Cold Cold Cold Cold Cold Cold Cold Cold		
	×	
🖃 🖳 IBM® Rational® License Key Administrator		
	✓ ∨	
<	Check for Updat	tes
Repository Information Name: LicenseAdmin_8.1.1 Location: P:\ccase_7.1.2\LicAdmin\yatlLKAdministrator-8-1-1_Windows\LKAD_SETUP\disk1 Read Only: Yes		

Here we have selected all five repositories to be included in the new install package. Click Next to continue.



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A Packaging Utility		
Copy Packages Read the following license agreements ca	refully.	R
Source Licenses	Destination Summary	L.
 IBM Rational ClearCase License Agreement License Agreement IBM Rational ClearQuest License Agreement License Agreement License Agreement License Agreement 	IMPORTANT: READ CAREFULLY Two license agreements are presented below. 1. International License Agreement for Evaluation of Programs 2. International Program License Agreement 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 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 (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee accepts the International Program License Agreement for Evaluation of Programs (the "Evaluation License"), without modification; and (ii) the International Program 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 by entering into a procurement agreement (e.g., the IBM International Passport Advantage or the IBM Passport Advantage Express 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. International License Agreement for Evaluation of Programs Part 1 - General Terms By DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BUND LICENSEE TO THESE TERMS, AND * DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REP	
 I accept the terms in the license agre 	ements Print A	
U too not accept the terms in the licen:	< Back Next > Copy	Cancel

Accept the license agreement and click Next.



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🗑 IBM Packaging Utility	
Copy Packages	
Select the location where you want to store the packages.	4L
Source Licenses Destination Summary	_
Select an existing repository or select a path for creating a new repository	
\\Europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1	Browse
Destination Disk Information Required Space Available Space 3.0 GB 95.0 GB	< Back Next > Copy Cancel

Point Packaging Utility to the location where the new install package will be created. Then click Next.



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Packaging Utility		
Copy Packages		R
Review the details. Click Back to make changes.		4
Source Licenses Destination Summary		Ţ
Content To Copy		
□□□ □ ClearCase_7.1.2		
IBM® Rational® ClearCase® - Windows 7.1.2.00		
ClearCase_7.1.2.2_Fixpack		
ClearOuest 7.1.2		
IBM® Rational® ClearQuest® - Windows 7.1.2.00		
🖶 📋 ClearQuest_7.1.2.2_Fixpack		
IBM® Rational® ClearQuest® - Windows 7.1.2.02		
IBM® Rational® License Key Administrator 8.1.1		
Destination		
Location Weiwanalscare reference 7.1.2.2. Jis 8.1.1		
A new repository will be created.		
Required Space Available Space		
3.0 GB 95.0 GB		
	< Back Next >	Copy Cancel

As with Installation Manager previously, we are now ready to go. Click Copy to initiate the creation of the new install package.



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m Paskaging or my		
Copy Packages Review the details. Click Back to make changes.		R
Source Licenses Destination Summary		
Content To Copy		
ClearCase_7.1.2 ClearCase_7.1.2 ClearCase_7.1.2.Fixpack ClearCase_7.1.2.2_Fixpack ClearQuest_7.1.2 ClearQuest_7.1.2 ClearQuest_7.1.2 ClearQuest_7.1.2 ClearQuest_7.1.2 ClearQuest_7.1.2.2_Fixpack ClearQuest_7.1.2.2_Fixpack ClearQuest_7.1.2.2_Fixpack ClearQuest_7.1.2.2_Fixpack ClearQuest_8 - Windows 7.1.2.02 ClearQuest_7.1.2.2_Fixpack ClearQuest_8.1.1 ClearQuest_8.1.1 ClearQuest_8.1.1		
Destination Location: \\Europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1		
A new repository will be created.		
Required Space Available Space 3.0 GB 95.0 GB ying Content: Retrieving files at 2.6 MB/s. 27 MB of 1.6 GB (2%) completed from disk 1.	Pause Download) Ca

The package creation is now proceeding. Unless there is a reason to Pause or Cancel the action, we will need to wait for it to complete.



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IBM Packaging Utility Copy Packages		
The Copy operation completed successfully	л.	
Content	Status	
□ - □ ClearCase_7.1.2 □ GlearCase_0 - Windows 7.1.2.00	0	
ClearCase_7.1.2.2_Fixpack Model Temperature ClearCase® - Windows 7.1.2.02	0	
IdM(s Rational@ ClearQuest(8 - Windows 7.1.2.00 GearQuest_7.1.2.2_Fixpack	0	
IBM® Rational® ClearQuest® - Windows 7.1.2.02 IcenseAdmin 8.1.1	0	
- Rome Rational License Key Administrator 8.1.1	۲	
	Finis	ih 🔰
	l.	

All five repositories have been combined into a new installation package. Clicking Finish takes you back to the start point where we are ready to process another repository, if needed.

🕑 IBM Packaging Utility	
File Help	
IBM Packaging Utility	
	Copy Packages Copy software packages between repositories.
TEM	Delete Packages Remove software packages from a repository.
	<u>I</u>

Unless there is a need to create another package, Packaging Utility can now be closed. Our next step will be to install from the package that we have just created. Go ahead and launch Installation Manager, shown in the next screenshot.



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IBM Installation Manager File Help				
IBM Installation Manager				
	Install Install software packages.			
	Update Discover and install updates and fixes to installed software packages.		Manage Licenses Roll Back	
	Modify Change installed software packages by adding or removing features and functions.	1	Uninstall	
IBM.				

After launching IM, pull down File -> Preferences and select Repositories in the left hand panel. This is shown in the next screenshot.



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	IBM Installation Manager			
File	e Help			
	IRM Installation Manager			
	Preferences			
	type filter text	Repositories		⇔ - ⇔ - ▼
	Repositories Appearance	Repositories:		<u>_</u>
	← Files for Rollback. ● Help	Location	Connection	Add Repository
	Add Repository			Edit Repository
	Add a repository			Remove Repository
	Specify a repository and add to the repository	preference list.		Move Down
	Repository:			Clear Credentials
	\\europe\ccase_rls\Rational_7.1.2.2_Lic_8.1.1	repository.config 🛛 🕑 Browse		Test Connections
				×
				OK Cancel
	-	OK Cancel		

Here we have added the installation package we just created with Packaging Utility. Notice that the name of the description file is repository.config.



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Preferences			
type filter text	Repositories		⇔ - ⇔ - ▼
Repositories Appearance Files for Rollback Help Files for Rollback Files for Rollback Files for Rollback Passport Advantage Updates	Repositories: Location	Connection	Add Repository Edit Repository Remove Repository Move Up Move Down Clear Credentials Test Connections
		Restor	e Defaults Apply
0			OK Cancel

As you can see in the list of repositories, we are going to now install the package containing ClearCase and ClearQuest 7.1.2.2 and License Key Administrator 8.1.1. We have checked the box for that repository, and not checked the box for Packaging Utility (since we have already installed PU).

Click OK, which will take us back to the originally launched IM panel.



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IBM Installation Manager File Help			- • ×
IBM Installation Manager			
	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses Roll Back	
	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

Now that we have the repository specified in Installation Manager, click on Install to begin. The results are shown in the next screenshot.



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M Installation Manager			
Install Packages			
belett pathages to install.			
Installation Packages	Status	Vendor	License Key Type
□ - V I BM® Rational® ClearCase® - Windows	Will be installed	IBM	
	Will be installed	IBM	
	Will be installed	IBM	
Show all versions		Check for	Other 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			
		< Back	Next > Install Cancel

Check the boxes of ClearCase and ClearQuest, and License Key Administrator to install all tools. Click Next.



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Take any needed steps to disable anti-virus software or close other applications, then click Next.



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ead the following license agreements (
Install Prerequisite	Licenses Location Features Summary
IBM Rational ClearCase Icense Agreement IBM Rational ClearQuest License Agreement IBM Rational License key Server License Agreement	IMPORTANT: READ CAREFULLY Two license agreements are presented below. I. International License Agreement for Evaluation of Programs License 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 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 (collectively, an "Evaluation"): By clicking on the "Accept" button below, Licensee accepts both (i) the International License Agreement for Evaluation of Programs (the "Evaluation License"), without modification; and (ii) the International Program 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) by entering into a procurement agreement (e.g., the IBM International Passport Advantage or the IBM Passport Advantage Express 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.
I accept the terms in the license agre	Print All.
) I do not accept the terms in the licen	se agreements

Accept the license agreements, and click Next.



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The packages will be installed into the indicated package groups. Select the package gro	up to change the installation director	ry.	
Install 2 Prerequisite 2 Licenses 2 Location 2 Peatures	s Summary		
Reveale Group value Sec. IBM Rational RLKS Sec. IBM® Rational® License Key Administrator 8.1.1 Sec. IBM® Rational® DLC IBM® Rational® ClearCase® - Windows 7.1.2.02 IBM® Rational® ClearQuest® - Windows 7.1.2.02	C:\Program Files\IBM\Rationa	IRLKS ISDLC	
Package Group Name: IBM Rational SDLC Installation Directory: C:\Program Files\IBM\RationalSDLC Details	Disk Spac	e Information	Browse
Shared Resources Directory: C:\Program Files\IBM\Shared	Volume C:	Available Space 17.25 GB	
		< Back Next > Install	Cance

Unless you need to change the location of the install directory for either repository (SDLC or RLKS) go ahead and click Next.



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🕲 IBA	A Installation Mana;	ger				
	Install Package Select the translations t	es o install.	c Easture Summa			
:	Select the translations fo	or the packages that will be installed to packages	kage group IBM Rational SDLC, IBM Rat	tional RLK5.		
	🗹 English	Brazilian Portuguese	French	German	Italian	
	Japanese	Korean	Simplified Chinese	Spanish	Traditional Chinese	
?				< Bac	k Next > Install	Cancel
L						

To accept English as the only required language, click Next.



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Install Packages	~
Select the features to install.	
Install Prerequisite Licenses Location Features Summary	
Features	
Command Line Interface CM Library Samples and Documentation Give Server Components Command Line Integration Command Line Integration Command Line Interface CM Library Samples and Documentation Give Server Components	
Show dependencies Show dependencies	Expand All Collapse All Restore Default
Details	
Rational ClearQuest for Windows Client This is the the Microsoft Windows interface to IBM Rational ClearQuest.	
	Rack Navt > Total Case

Here is where we have a chance to adjust what features of each software product will be installed. Expand the hierarchy and select what is needed. In our example above, we have elected to install the optional ClearQuest Windows Client, in addition to the default Rational ClearQuest Client (the Eclipse client). With ClearCase we also selected the Visual Studio Integration option.

We are now ready to move through the next set of installation panels which require input to correctly configure first ClearCase and then ClearQuest. We begin with the next screenshot.



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Install Packages Fill in the configurations for the packages. Install Prerequisite Licenses In	
Common Configurations Source Common Licensing	Common Configurations Common Licensing
Help System Image: The	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 server 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:
	< Back Next > Install Cam

Note that all three products are shown in the configurations panel on the left. Begin by filling in the license server information for your site and click Next. As we move through these panels, note how each completed configuration displays a green checkbox in the left hand panel.



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Install Prerequisite Licenses L	Location Features Summary
Common Configurations Common Licensing Help System	Common Configurations Help System
 Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Atria Licensing IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification 	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 offine, 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. 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 roduct, 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. Access help from a server on your intranet Host:

Unless you have a different preference for accessing the Help documentation, click Next here to get this information from the internet.



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Install Prerequisite Licenses	Location Features Summary
Common Configurations Common Licensing Help System Help System BM08 Rational@ ClearCase@ - Windows 7.1.2.02 Service Account Registry and Mail Servers Remote Administration MVF5 Case Sensitivity MVF5 Settings ClearCase File Server (CCF5) Customize Poo-Up Menu: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Aria Licensing IBM8 Rational@ ClearQuest@ - Windows 7.1.2.02 E-mail Notification	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account Enter the user account for ClearCase server processes. Account domain (required): britain.endo.strykercorp.com Server process user name (required): I Password (required): Confirm password (required): Confirm password (required): I The service account must be a member of the ClearCase Administrator group. ClearCase administrator group (required): Bypass ALBD account check. I

Enter the correct information for ClearCase domain, server process, password, and administrator group. After this is authenticated, the Next button will become un-grayed. Click Next.



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Install Packages Senter a registry server host name. Install Prerequisite Licenses Licenses	ocation Features Summary
Common Configurations Common Configurations Common Licensing Help System Service Account Remote Administration MVF5 Case Sensitivity MVF5 Settings ClearCase File Server (CCF5) Customize Pop-Up Menu: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Atria Licensing IEM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	Configuration for IBM9 Rational@ LlearCase@ - Windows 7.1.2.02 Registry and Mail Servers The registry server stores VOB and view tag information. Begistry server host name (required): A network region defines a namespace of VOB and view tags. Windows registry region (required): UNIX registry region: The SMTP mail server is used to send ClearCase e-mail notifications. SMTP Mail server host name:
	< <u>B</u> ack <u>N</u> ext > Install Cance

Enter the ClearCase registry server, registry regions, and mail server host. Again, the Next button will become un-grayed after these are correctly entered.



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IBM Installation Manager Install Packages Fill in the configurations for the packages.	
Instal Prerequisite Licenses Loc Common Configurations Common Licensing Common Licensing	Cation Features Summary Configuration for IBM® Rational@ ClearCase@ - Windows 7.1.2.02 Remote Administration Do you want to disable remote administration for ClearCase? Ygs, disable remote administration Ng, enable remote administration
0	< <u>B</u> ack <u>N</u> ext > Install Cancel

Make your selection regarding remote administration and click Next.



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Common Configurations Common Licensing Help System	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02
IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account Registry and Mail Servers Registry and Mail Servers Remote Administration WYFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Aria Licensing IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	MWFS 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

Configure MVFS case sensitivity and click Next.



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Install Packages Fill in the configurations for the packages. Install Prerequisite Licenses Lo Common Configurations Common Licensing Help System	cation Features Summary Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.1 MVFS Settings	02
■ ① IBM® Rational® ClearCase® - Windows 7.1.2.02 ■ Service Account ■ Service Account ■ Registry and Mail Servers ■ Remote Administration ■ MVFS Case Sensitivity ● MVFS Settings □ ClearCase File Server (CCFS) □ Customize Pop-Up Menu: ClearCase Explorer □ Desktop Shortcut □ ClearCase Aria Licensing ■ ① ■ IBM® Rational® ClearQuest® - Windows 7.1.2.02 ■ ① ■ 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: •
)		<back next=""> Install Cancel</back>

Accept the default MVFS settings, or change them, and click Next.



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IBM Install Packages Fill in the configurations for the packages.	
Common Configurations Common Licensing Gervice Account Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Pop-Up Menu: ClearCase Explorer Customize Pool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Atria Licensing IBM® Rational@ ClearQuest@ - Windows 7.1.2.02	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
0	< <u>Back</u> <u>N</u> ext > Install Cancel

Configure CCFS for your site and click Next.



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BM Installation Manager Install Packages Fill in the configurations for the packages. Install Prerequisite Licenses Lo	cation Features Summary
Common Configurations Common Licensing Help System IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Tool Shortcuts: ClearCase Explorer Customize Tool Shortcut ClearCase Artia Licensing IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 Customize Pop-Up Menu: ClearCase Explorer Do you want to specify a pop-up menu customization file for ClearCase Explorer? • Ng, use the default pop-up menu • Yes, use this customization file: • Prowse
0	< Back Mext > Install Cancel

If you have a menu customization for ClearCase Explorer and want to use it, you can enter this now. Click Next.



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IBM Installation Manager Install Packages Fill in the configurations for the packages. Install Prerequisite Licenses Lo	cation Features Summary
Common Configurations Common Licensing Help System IBM® Rational® ClearCase® - Windows 7.1.2.02 Service Account Registry and Mail Servers Remote Administration MVFS Case Sensitivity WVFS Case Sensitivity WVFS Case Sensitivity ClearCase File Server (CCFS) Customize Tool Shortcuts: ClearCase Explorer Desktop Shortcut ClearCase Atria Licensing IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	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? ③ Ng, use the default tool shortcuts ③ Ygs, use this customization file Browse
0	< <u>Back</u> Mext > Install Cancel

The same with tool shortcuts, if there is a customization file you want to use, do so and click Next.



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Install Packages Fill in the configurations for the packages.	ation Features Summary
 Common Configurations Common Licensing Help System IBM® Rational@ ClearCase@ - Windows 7.1.2.02 Service Account Registry and Mal Servers Remote Administration MVFS Case Sensitivity MVFS Settings ClearCase File Server (CCFS) Customize Tool Shortcuts: ClearCase Explorer Customize Tool Shortcut: ClearCase Atria Licensing IBM® Rational@ ClearQuest@ - Windows 7.1.2.02 E-mail Notification 	Configuration for IBM® Rational® ClearCase@ - Windows 7.1.2.02 Desktop Shortcut Do you want to create a shortcut for ClearCase Explorer on your desktop? Ygs, create the shortcut Yg, create the shortcut Ng, do not create the shortcut
0	<back next=""> Install Cancel</back>

Decide if you want that pesky desktop shortcut or not and click Next.



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Install Prerequisite Licenses Lo Common Configurations Common Licensing Help System C IBM® Rational® ClearCase® - Windows 7.1.2.02	Cation Features Summary Configuration for IBM® Rational® ClearCase® - Windows 7.1.2.02 ClearCase Atria Licensing Selecting Atria Licensing overrides common licensing in Rational ClearCase. Use ClearCase Atria Licensing	
Registry and Mal Servers MVFS Case Sensitivity MVFS Case Sensitivity MVFS Case Sensitivity ClearCase File Server (CCFS) Customize Pop-Up Menu: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer Customize Tool Shortcuts: ClearCase Explorer ClearCase Aria Licensing ClearCase Aria Licensing IBM® Rational® ClearQuest® - Windows 7.1.2.02 E-mail Notification	Use ClearCase Auto Licensing Where is your license server? On a remote host Enter remote host On my local host Enter license keys (required):	< >

Likely we have already decided on Flex licensing, but if you have an old style Atria license server to use, it can be configured here. Click Next.



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Fill in the configurations for the packages. Install Prerequisite Licenses L Common Configurations	.ocation Features Summary Configuration for IBM® Rational® ClearQuest® - Windows 7.1.2.02
Common Licensing Help System Hill Bild ClearCase(®) - Windows 7.1.2.02 Service Account Capital Administration MVFS Case Sensitivity MVFS Settings Case Sensitivity Case Sensitivity Case Sensitivity Case Case File Server (CCFS) Customize Pop-Up Menu: ClearCase Explorer Customize Pop-Up Menu: ClearCase Explorer Customize Tool Shortcuts:	E-mail Notification Configure the Simple Mail Transport Protocol (SMTP). Qutgoing SMTP server (required): Iext to use as the E-mail "From" field (required):

Notice that all the ClearCase configuration items now have a green checkbox. This last configuration is for ClearQuest email notification. Configure this, or not, and click Next.



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BM Installation Manager	
Install Packages Review the summary information.	
Install Prerequisite Licenses Location Feature	ures Summary
Shared Resources Directory: :::\Program Files\IBM\Shared Packages	
Packages	Installation Directory
□ % IBM® Rational SDLC □ ① IBM® Rational® ClearCase® - Windows 7.1.2.02 □ ① IBM® Rational® ClearQuest® - Windows 7.1.2.02 □ ① IBM® Rational® LICS □ ① IBM® Rational® License Key Administrator 8.1.1	C:\Program Files\IBM\RationalSDLC C:\Program Files\IBM\RationalRLKS
Environment	Disk Space Information
English	Total Available Space C: 17.25 GB Total Download Size: 702.08 MB Total Installation Size: 1.47 GB
Repository Information	
)	< <u>Back</u> Next > Install Cancel

Again, we are ready to go. Click Install to begin installing all three software products.



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M Installation Manager	
Install Packages	
Review the summary information.	
Install Prerequisite Licenses Location Features	Summary
Target Location	
Shared Resources Directory: C:\Program Files\IBM\Shared	
Packages	
Packages	Installation Directory
■ - % IBM Rational SDLC ■ - ① IBM® Rational® ClearCase® - Windows 7.1.2.02 ♥ ☆ Client Components □ ① IBM® Rational® ClearQuest® - Windows 7.1.2.02 ♥ ☆ Client Components	C:\Program Files\IBM\RationalSDLC
IBM® Rational RLKS └─ 🗊 IBM® Rational® License Key Administrator 8.1.1	C:\Program Files\IBM\RationalRLKS
Environment	Disk Space Information
English	Total Available Space C: 17.25 GB Total Download Size: 702.08 MB
	Total Installation Size: 1.47 GB
Repository Information	
alling : Retrieving files, 9,9 MB of 692 MB (2%) completed	
	Pause Download

Here we are in process. Again we need to wait for everything to complete.



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Everything was successfully installed. A reboot will be needed which you can do immediately, or later. Click Finish to conclude this effort.

You may agree that this is a pretty handy way to package up multiple applications into a single install. We could have included RequisitePro, Team Concert, or other products as well. In fact, any number of role specific installations can be created for users needing a different mix of products. As they say, your only limit is your imagination (and disk space, I guess).

As you may have noted, each install takes a great many configuration items. Do we need to specify this for each and every machine installed? As you may have guessed, the answer is no! IBM provides an additional methodology – response files, to automate product installs. But this document is way too long to begin talking about this. This will have to wait for a subsequent document!