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Upgrading to Rational 7.1.x for ClearCase and ClearQuest

Upgrading to Rational 7.1.x on the Windows OS is a bit different than it has been in the past. Rational ClearCase and ClearQuest installation can be installed using either a single-user strategy or an enterprise strategy. For illustrative purposes, we have chosen to describe an enterprise install.
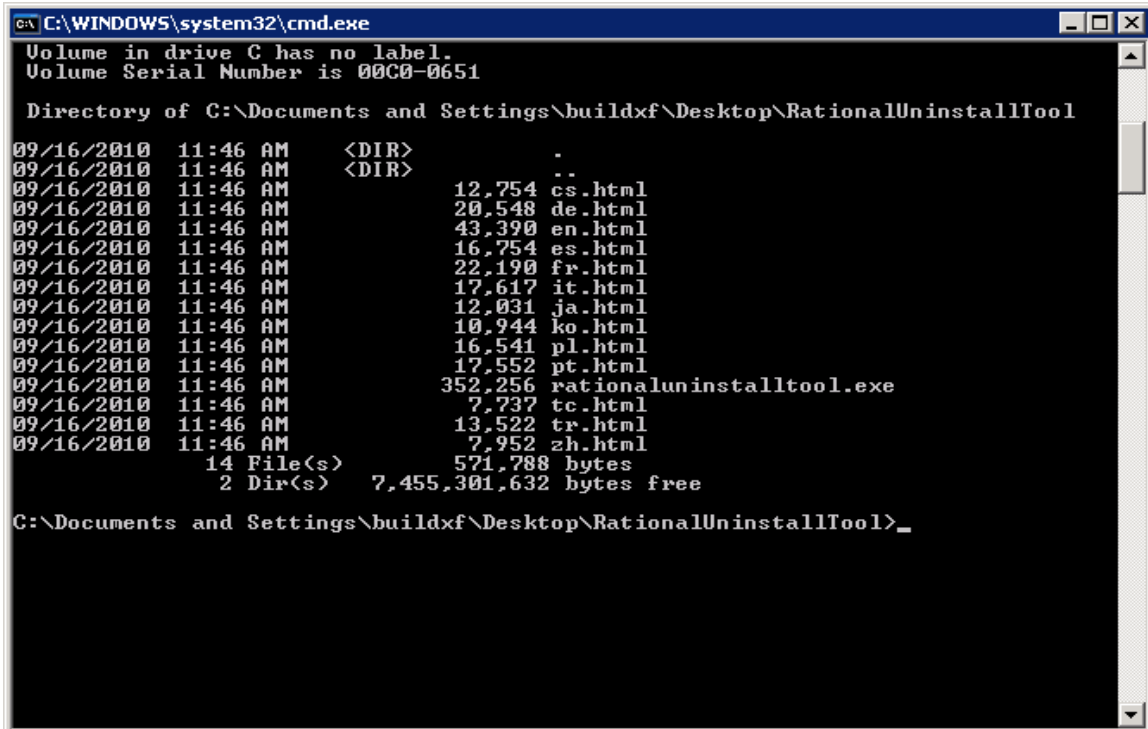
Before beginning, we note that beginning with Rational 7.1.x, the installation method is different. IBM has introduced a new Installation Manager (IM) tool which must be used from this point on to install IBM software products. We note that while it is possible to create response files to automate the use of IM, but we will demonstrate the use of IM without response files to illustrate the use of IM install panels.

Since the new IM must be used for all subsequent installs and upgrades, we note that all products previous to Rational 7.1.x must first be de-installed before use of IM. IBM supplies a custom tool for this purpose of de-installing Rational software that was previously install with the MIS-based install technology: rationaluninstalltool.exe

The tool can be downloaded from:

http://www.ibm.com/support/docview.wss?uid=swg24021131

Download the tool, expand the zip kit, and use the command line to navigate to the uninstall tool folder.

```
C:\WINDOWS\system32\cmd.exe                                          _ □ ×
 Volume in drive C has no label.
 Volume Serial Number is 00C0-0651

 Directory of C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool

09/16/2010  11:46 AM    <DIR>          .
09/16/2010  11:46 AM    <DIR>          ..
09/16/2010  11:46 AM            12,754 cs.html
09/16/2010  11:46 AM            20,548 de.html
09/16/2010  11:46 AM            43,390 en.html
09/16/2010  11:46 AM            16,754 es.html
09/16/2010  11:46 AM            22,190 fr.html
09/16/2010  11:46 AM            17,617 it.html
09/16/2010  11:46 AM            12,031 ja.html
09/16/2010  11:46 AM            10,944 ko.html
09/16/2010  11:46 AM            16,541 pl.html
09/16/2010  11:46 AM            17,552 pt.html
09/16/2010  11:46 AM           352,256 rationaluninstalltool.exe
09/16/2010  11:46 AM             7,737 tc.html
09/16/2010  11:46 AM            13,522 tr.html
09/16/2010  11:46 AM             7,952 zh.html
              14 File(s)        571,788 bytes
               2 Dir(s)   7,455,301,632 bytes free

C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>_
```

There is a mode for a clean uninstall, and also a mode to preserve user modifications. We are using the "-c" option to completely remove all Rational tool artifacts. For server upgrades, this is likely not the mode that should be used.

```
C:\WINDOWS\system32\cmd.exe - rationaluninstalltool.exe C:\temp\uninstall.log -c
C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>
C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>
C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>
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C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>
C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>
C:\Documents and Settings\buildxf\Desktop\RationalUninstallTool>rationaluninstal
ltool.exe C:\temp\uninstall.log -c
Welcome to the Rational Uninstall Tool. This tool will automatically uninstall a
ny Rational products which will be moving to the new Install Manager for 7.1. As
 part of this, your machine may be rebooted. User data will not be preserved fro
m these products.

Number of Rational products found: 2
```

Above, the command is running, and has located two products to uninstall. In the following screen shot, ClearQuest has been removed, and ClearCase is in process of removal. The command results in an automatic reboot of the machine to complete the uninstall, although there are is a command option to suppress this, and allow for a manual reboot.

A reboot has occurred. Next we bring up Windows Explorer and navigate to a location which contains IBM/Rational ClearCase 7.1.x (7.1.1, in this case).
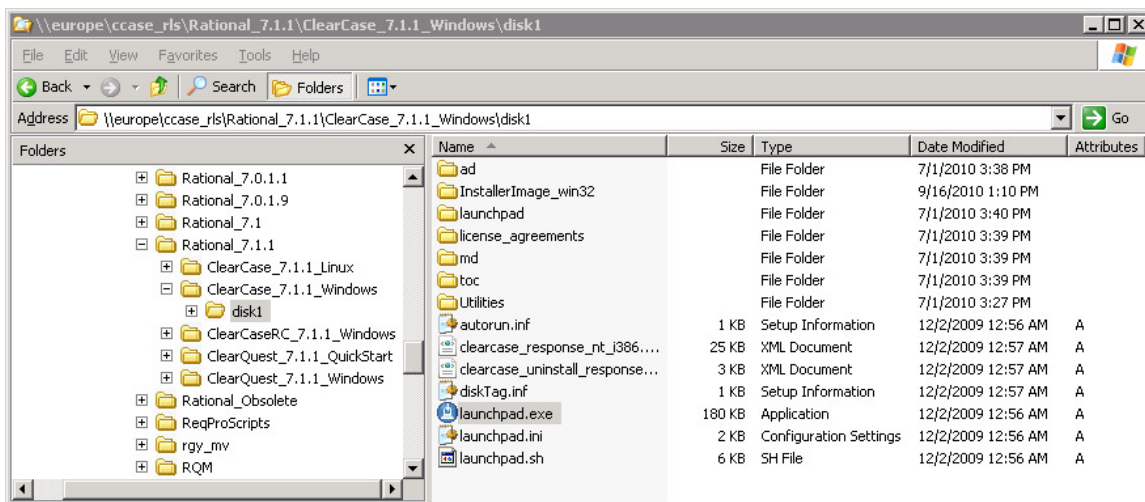
It is possible to setup an install which uses the new Install Manager in an automated manner, but for illustrative purposes, all the upgrade steps will be shown. In the 7.1.x distribution area, we begin by launching an initial, product specific version of Install Manager – launchpad.exe.
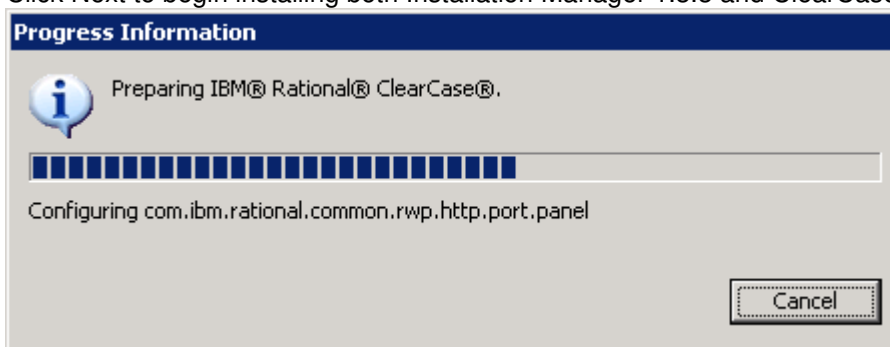
This results in the screen below, which presents the option of installing ClearCase 7.1.1.
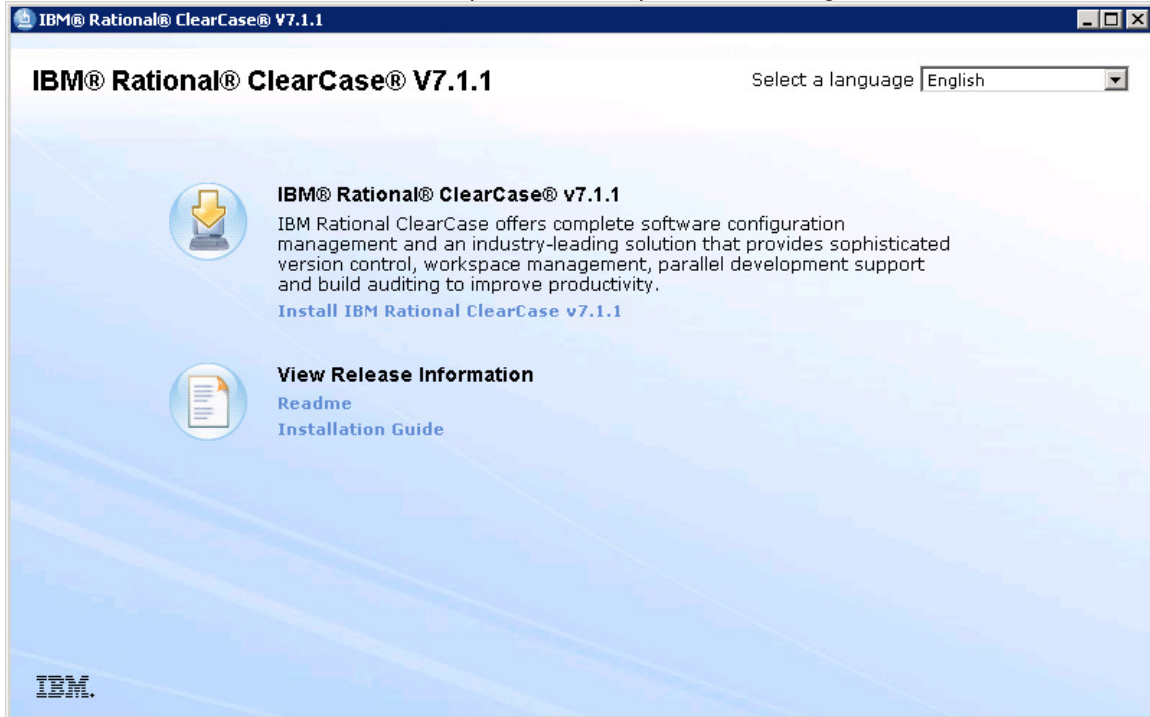
Click on the above link - "Install IBM Rational ClearCase v7.1.1".
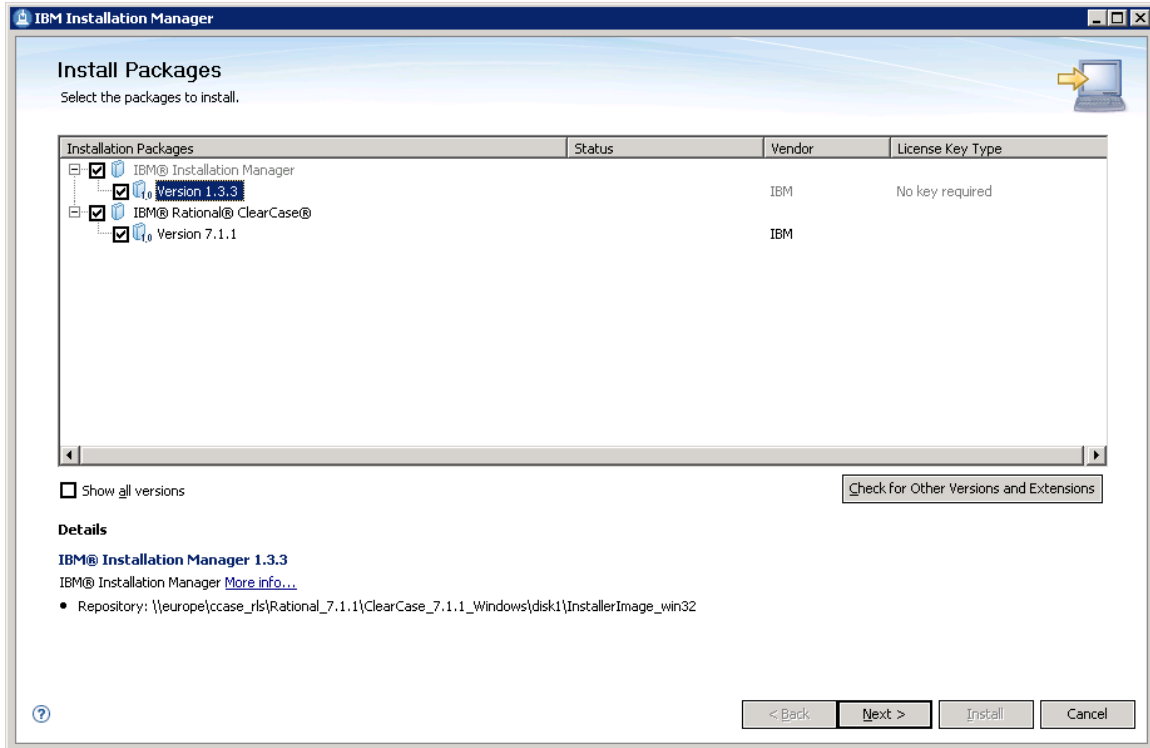
Click Next to begin installing both Installation Manager 1.3.3 and ClearCase 7.1.1.

Installation Manager first does some configuration, and then presents the screen shown below.
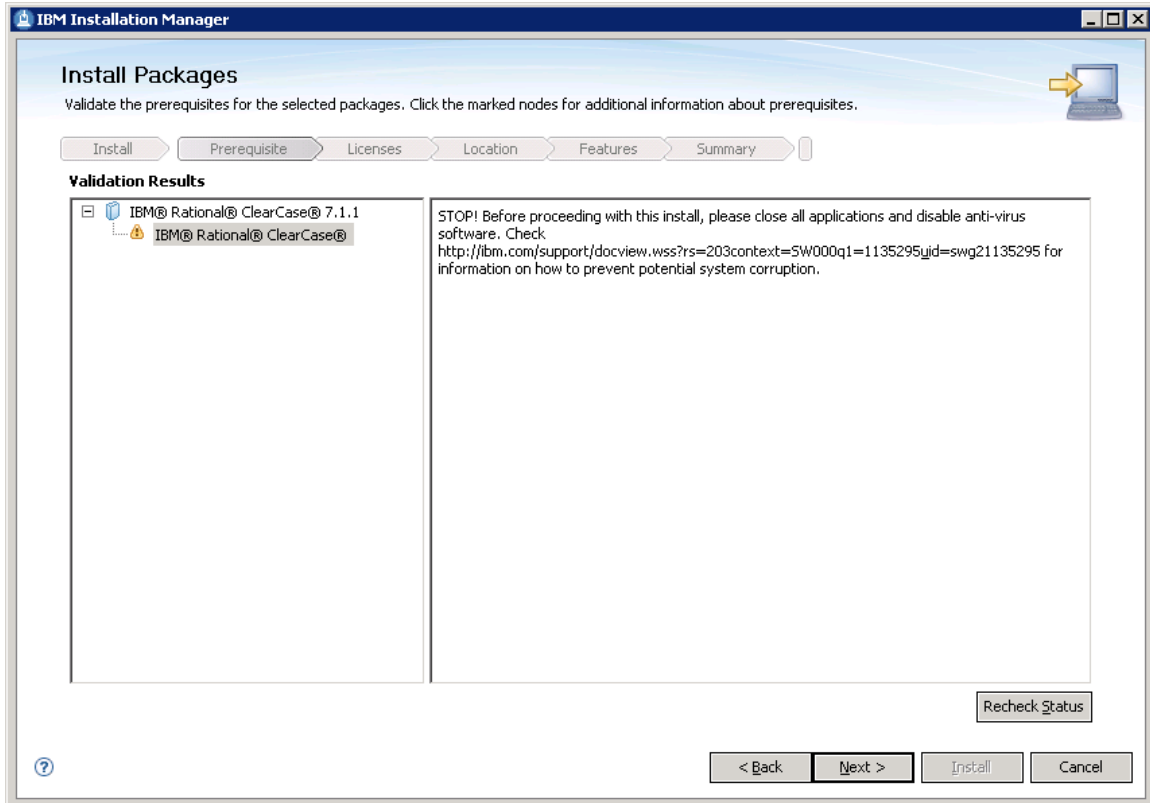
Here we have a check for software conflicts that may affect the install. Sometimes specific issues will be listed, which must then be addressed. The Recheck Status button can be clicked after addressing specific issues to verify the action taken. Click Next to continue.
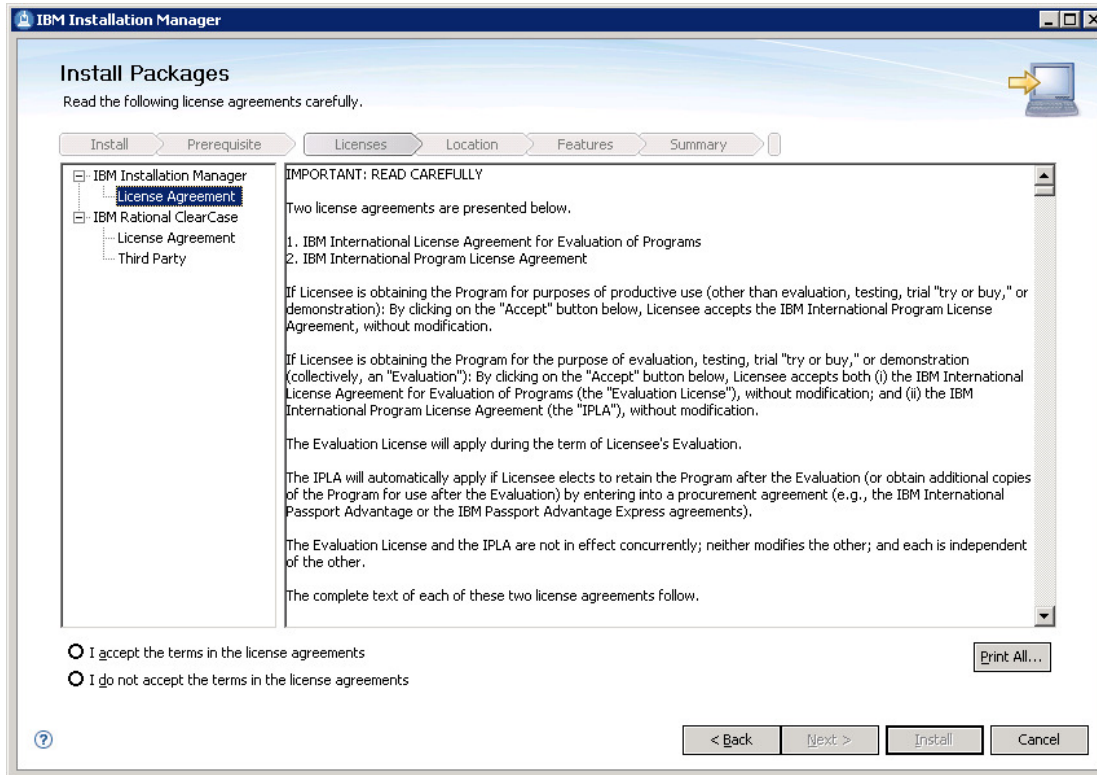
The licensing agreement is shown next.
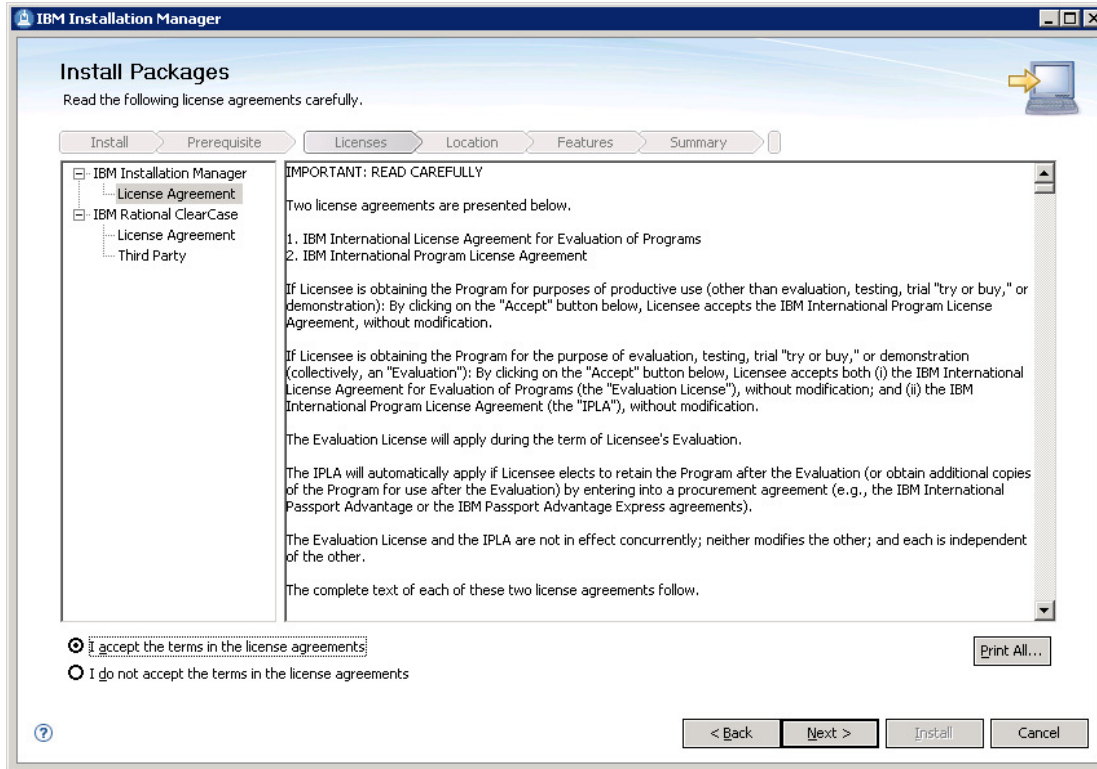
Accept the license agreement, and click Next.
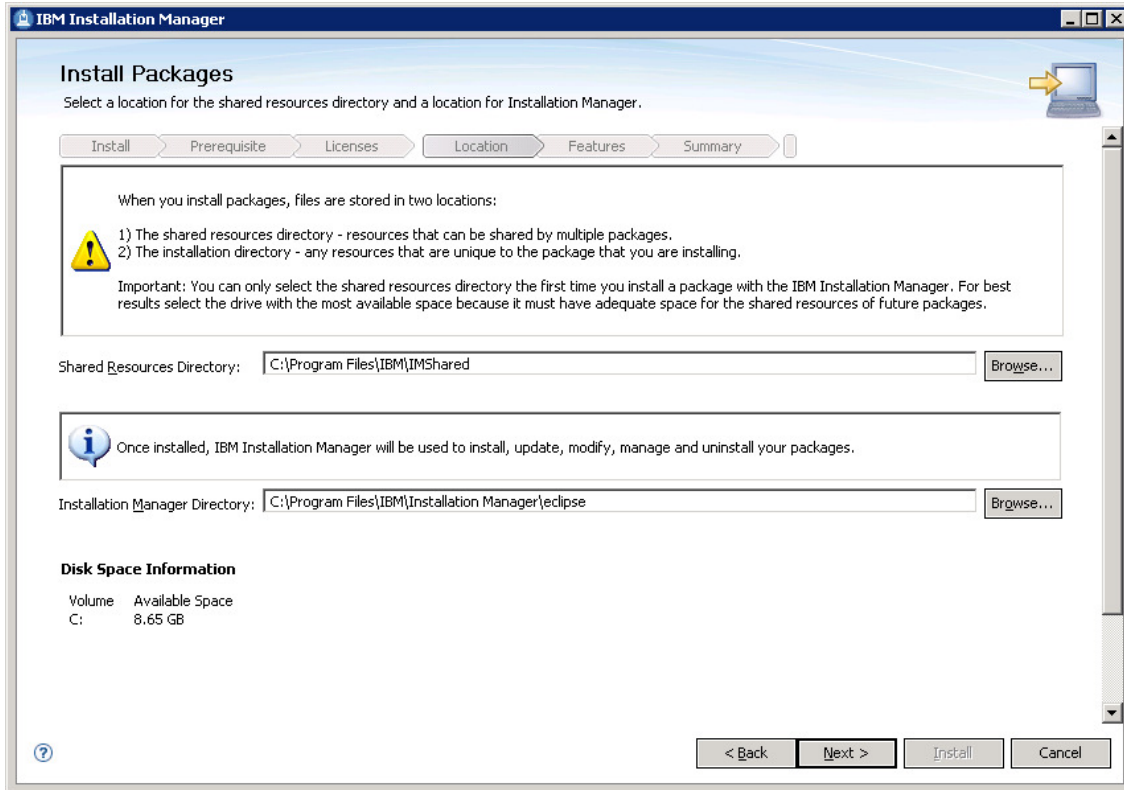
Verify that the install location for Installation Manager is acceptable, and click Next.
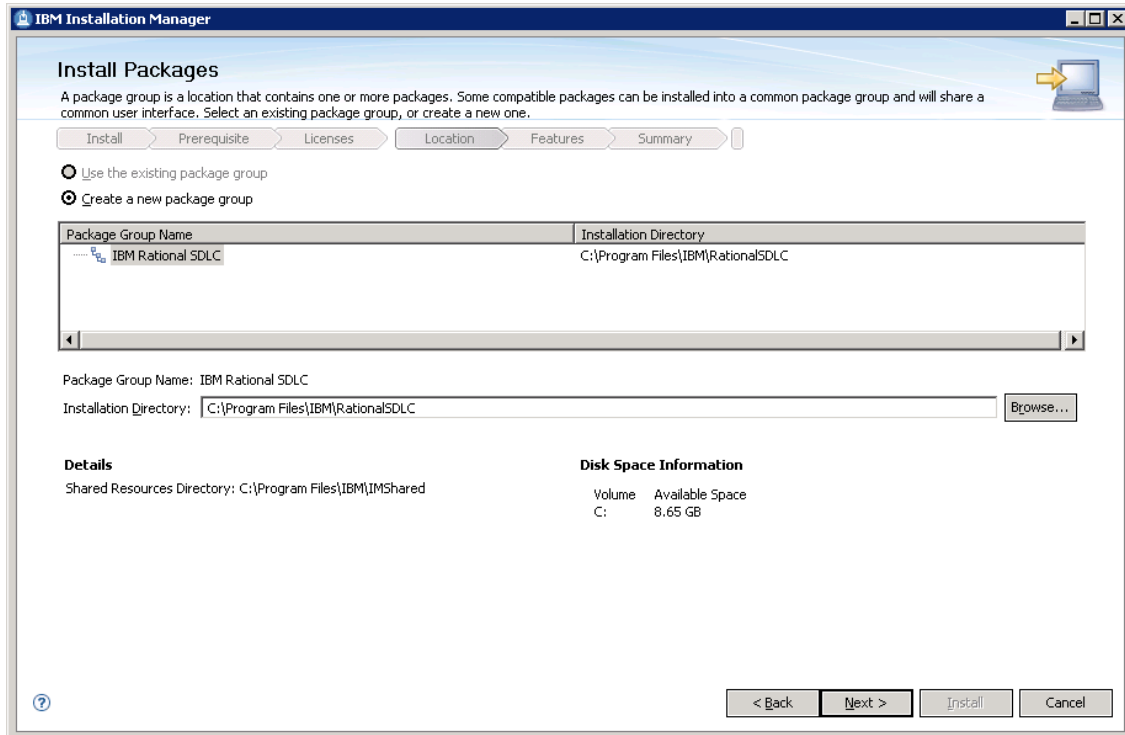
Installation Manager introduces the concept of Package Groups, in which compatible versions of products can be installed.
In our case, both ClearCase and ClearQuest 7.1.1 will be installed in the same Package Group.
If the versions of installed software are not compatible, Install Manager will enforce the creation of a different Package Group. Click Next to continue.
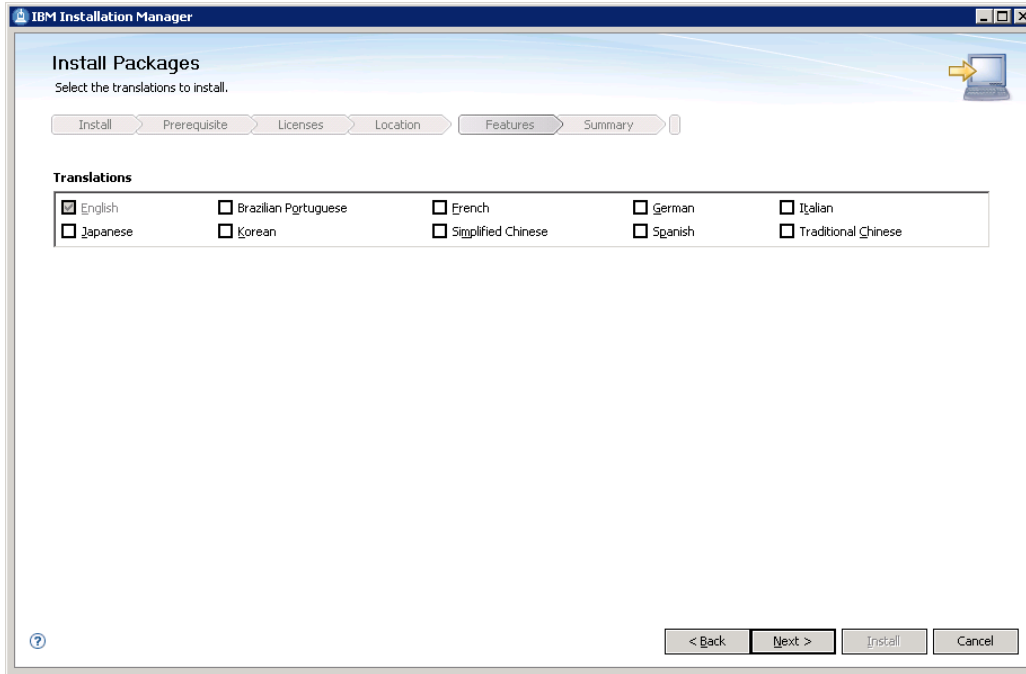
Verify the language and click Next.

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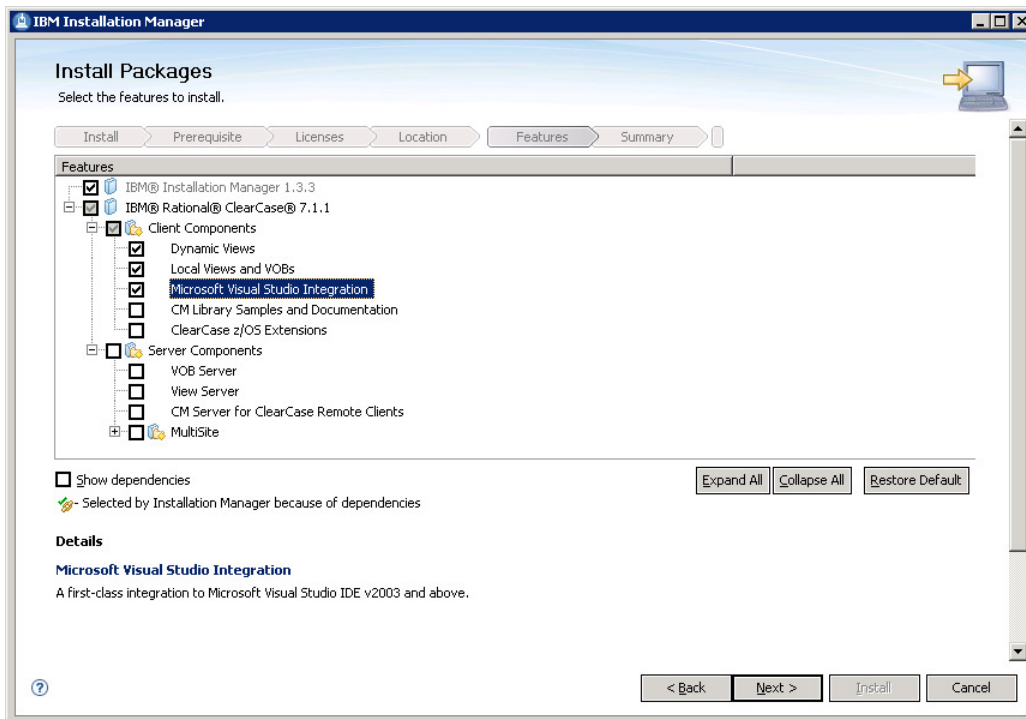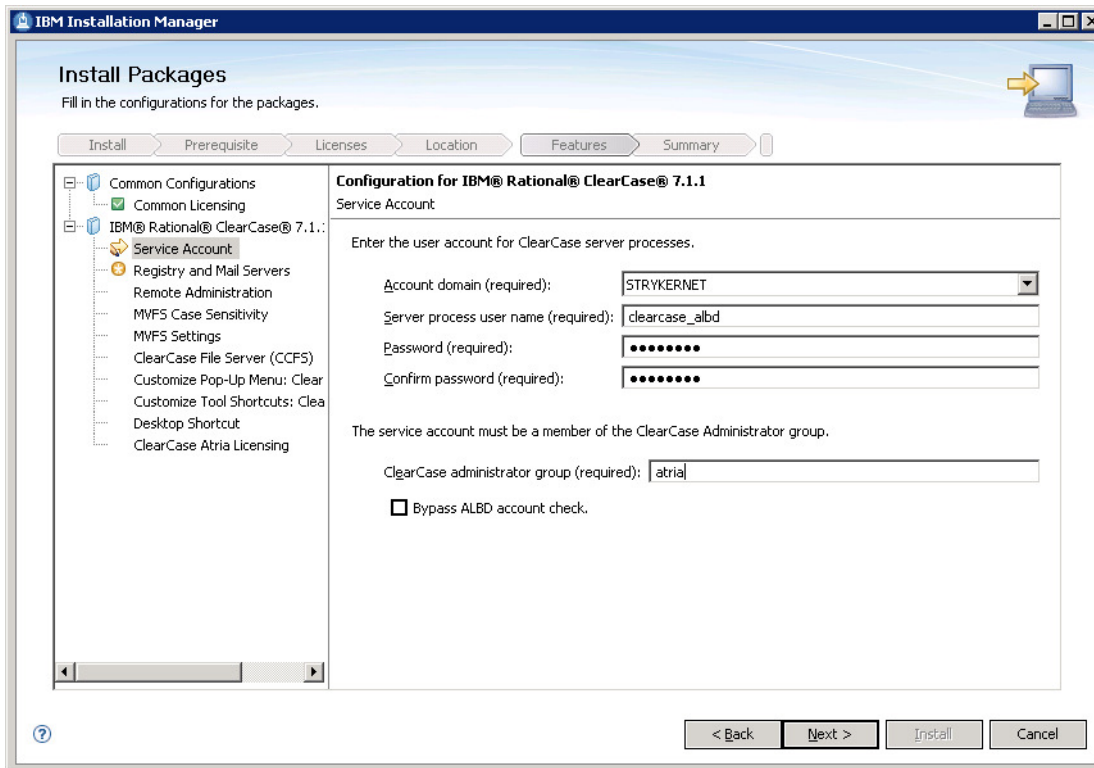
Here it is possible to select items to include or exclude from the install. We have elected to include the Visual Studio integration package in this installation. Click Next.
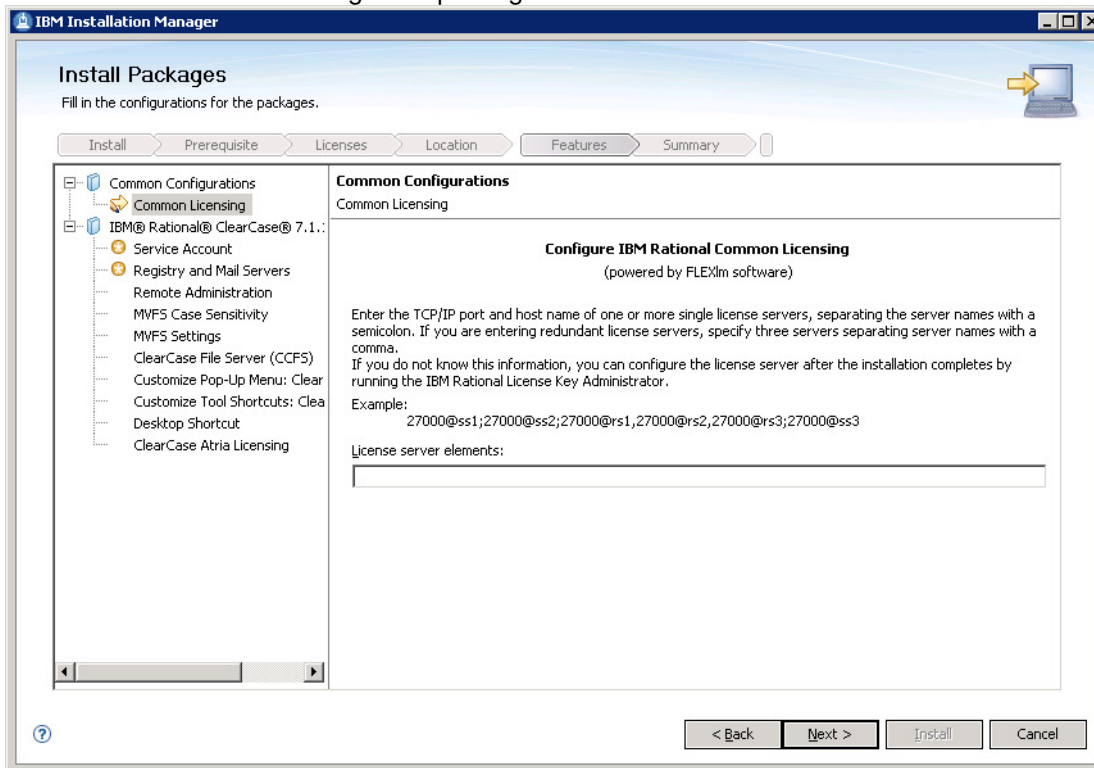
Next to be shown is the flex licensing panel.

Enter the port number and server for any license servers. Click Next.

Verification of ClearCase server processes.

Enter ALBD process name, password, and administrator group. Again, this can be automated, but is shown here for illustration. Click Next.
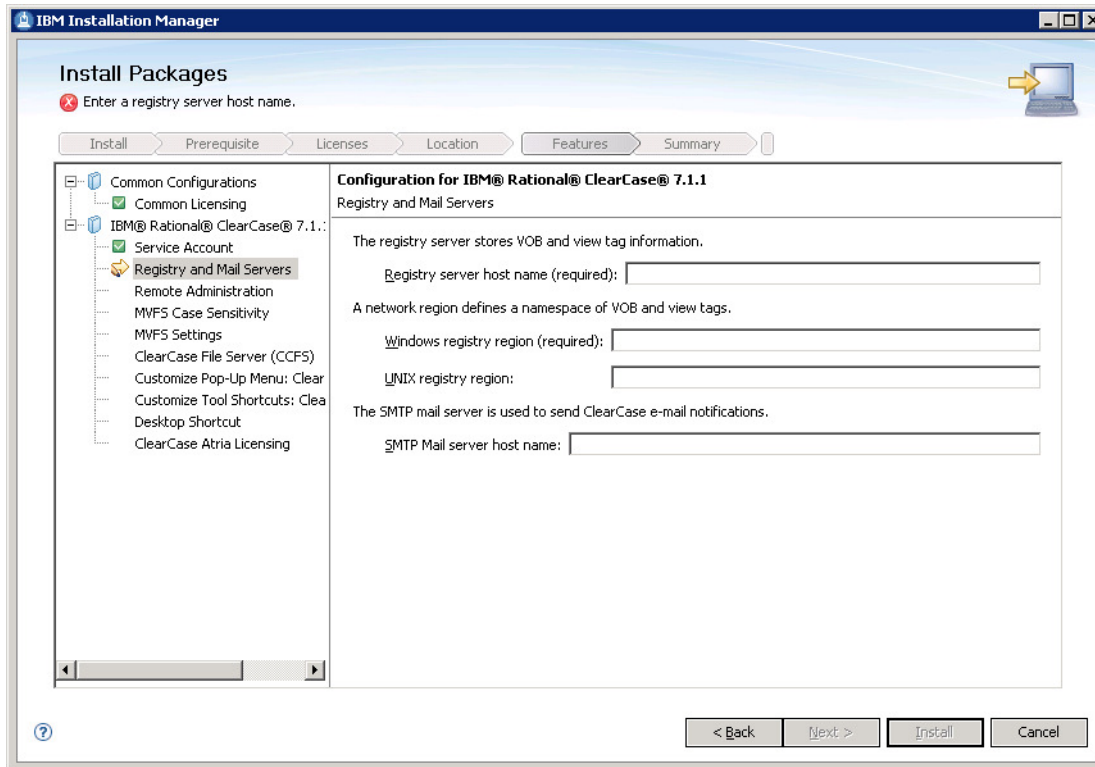
Panel for recording registry server, and registry regions.

Record registry server, regions, etc. Click Next to continue.

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Panel for remote administration.

Select option for remote administration, and click Next to continue.
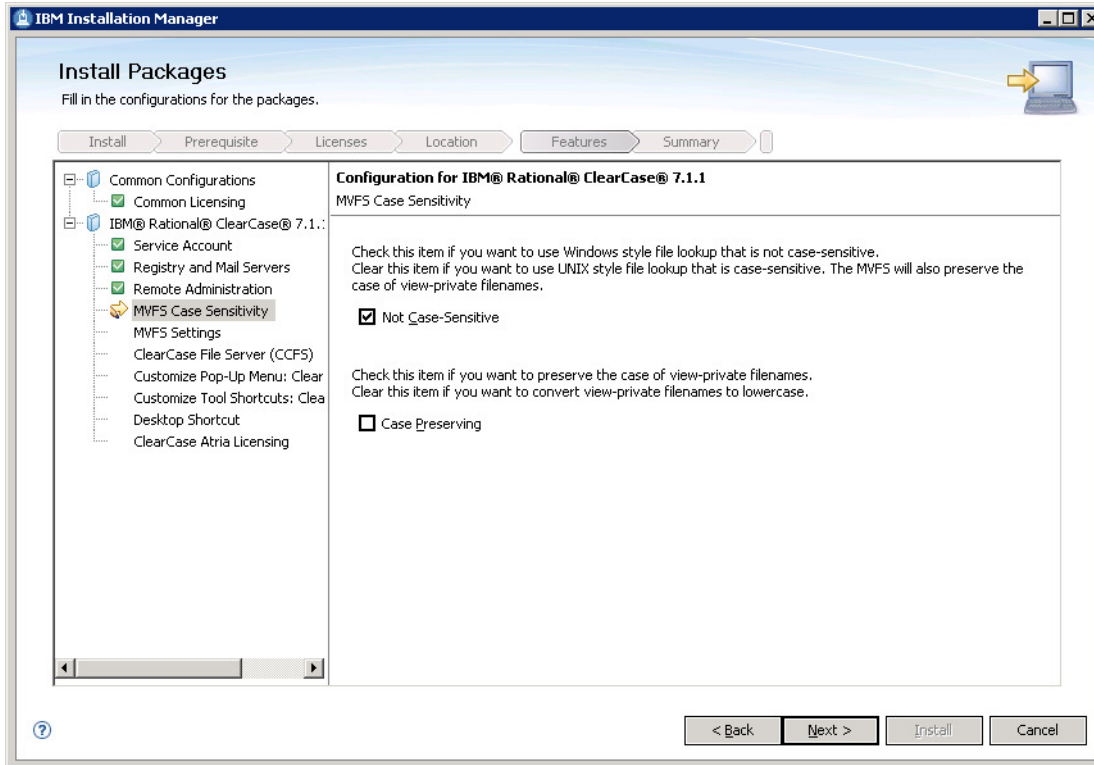
Panel for specifying file case sensitivity.

Select file case sensitivity to be applied, and click Next to Continue.
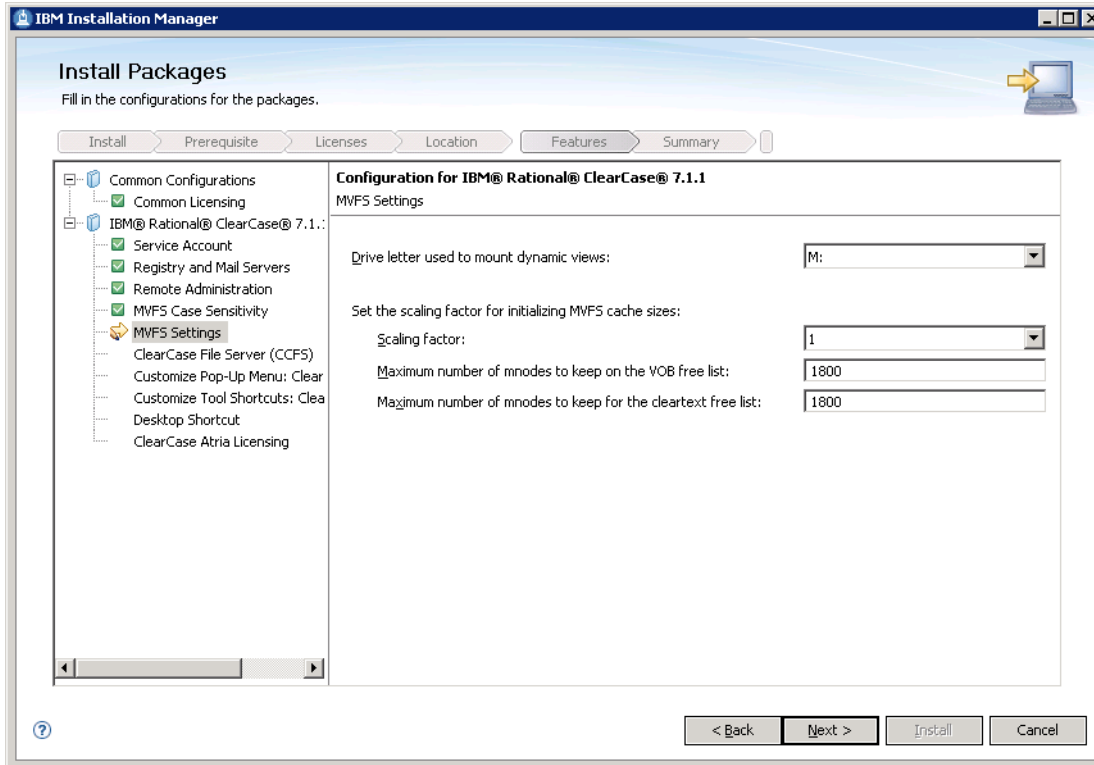
ClearCase configuration panel. Make any changes, or none, and click Next.

CCFS configuration panel.
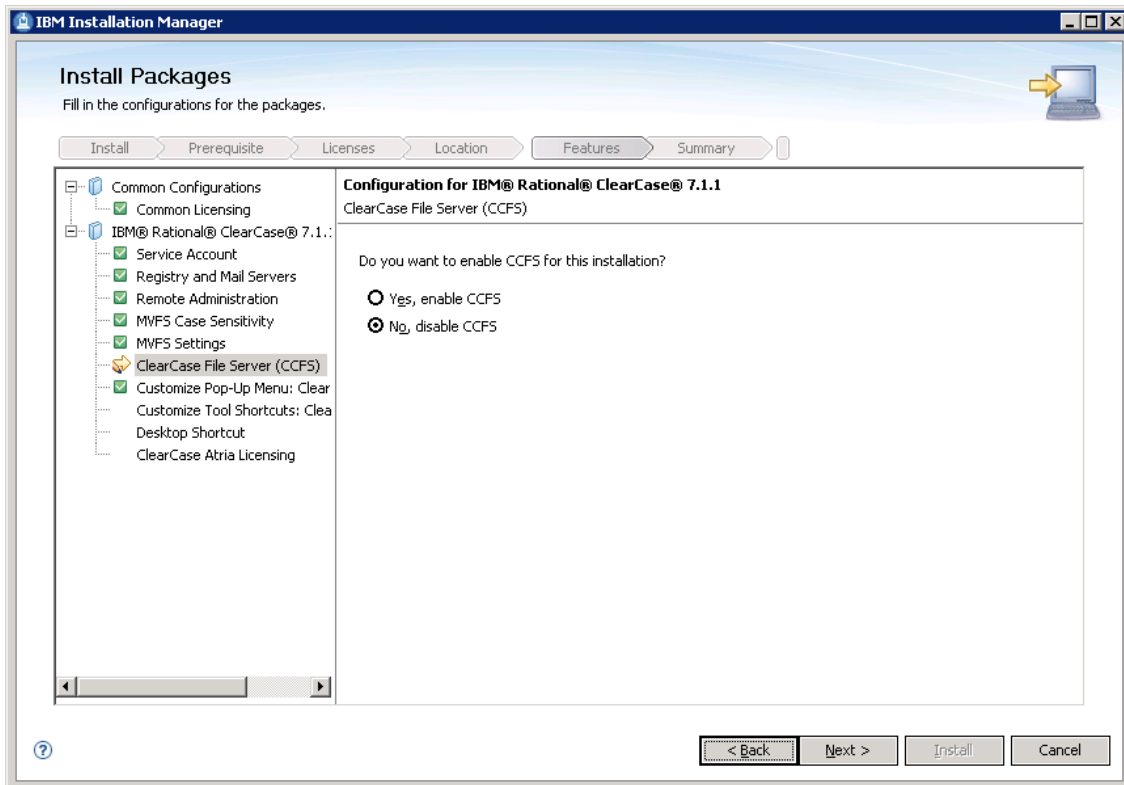
Set CCFS configuration for your installation and click Next.
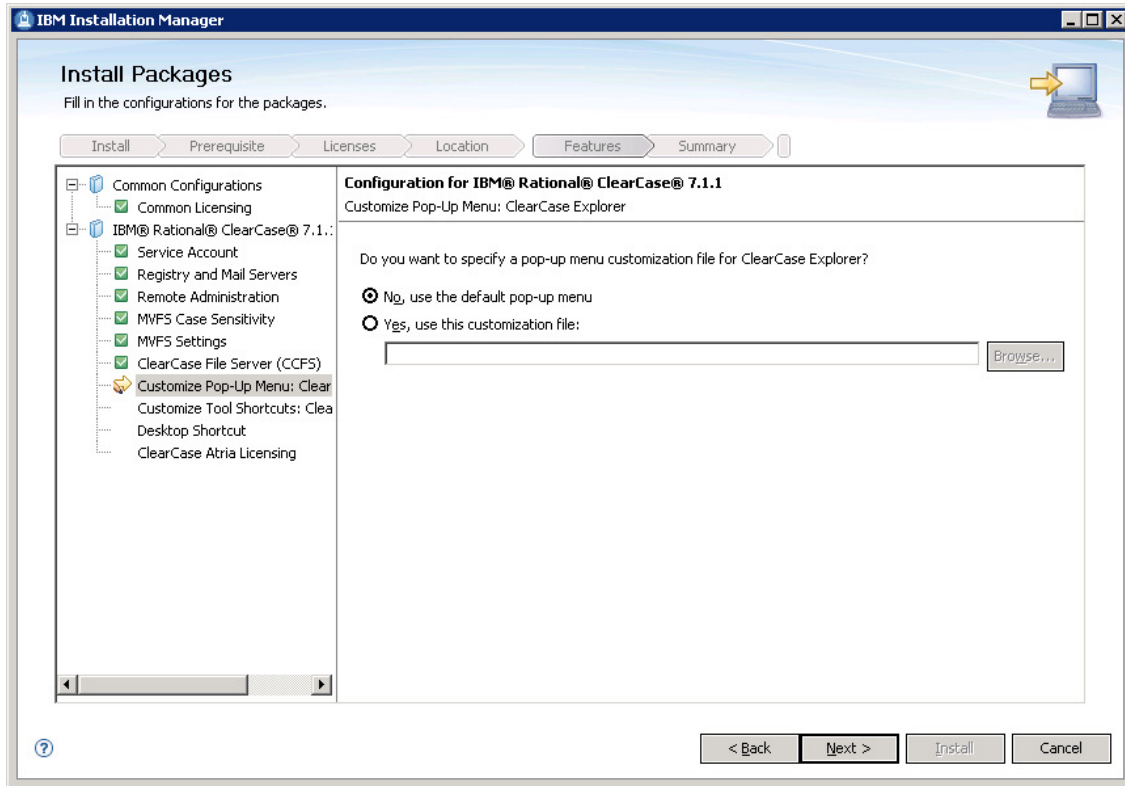
ClearCase Explorer customization panel.

Set ClearCase Explorer customization script, if any, and click Next.
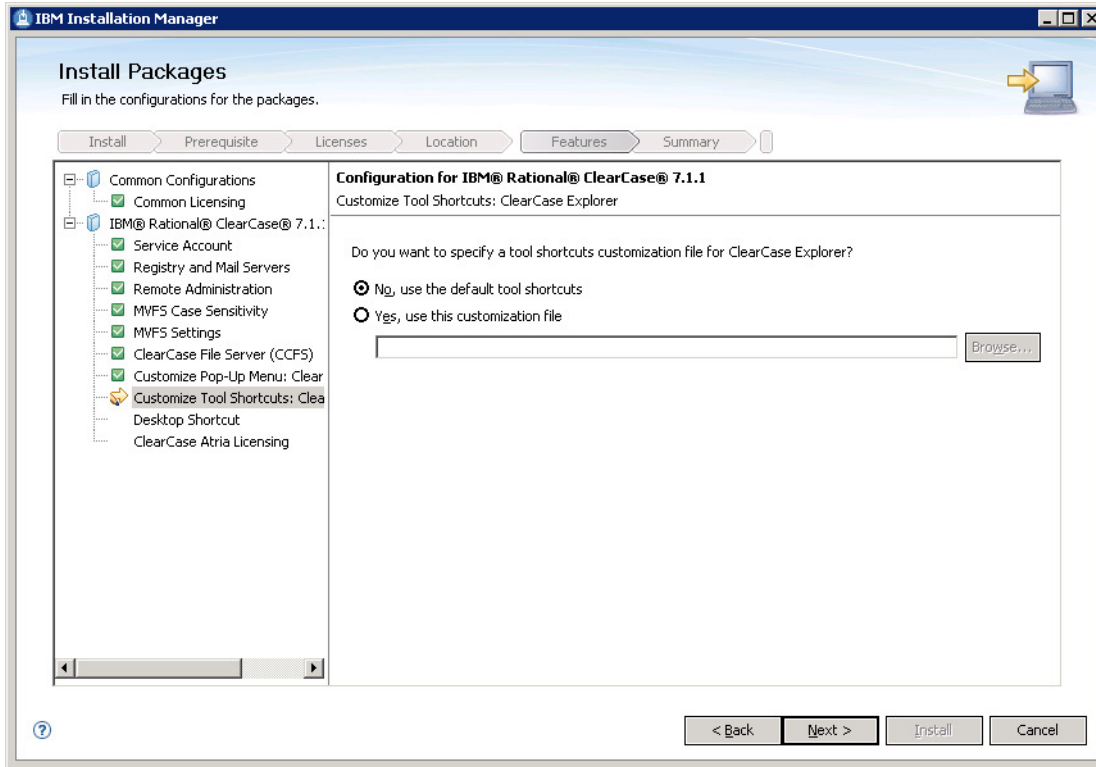
Set ClearCase Explorer shortcut customization, if any, and click Next.
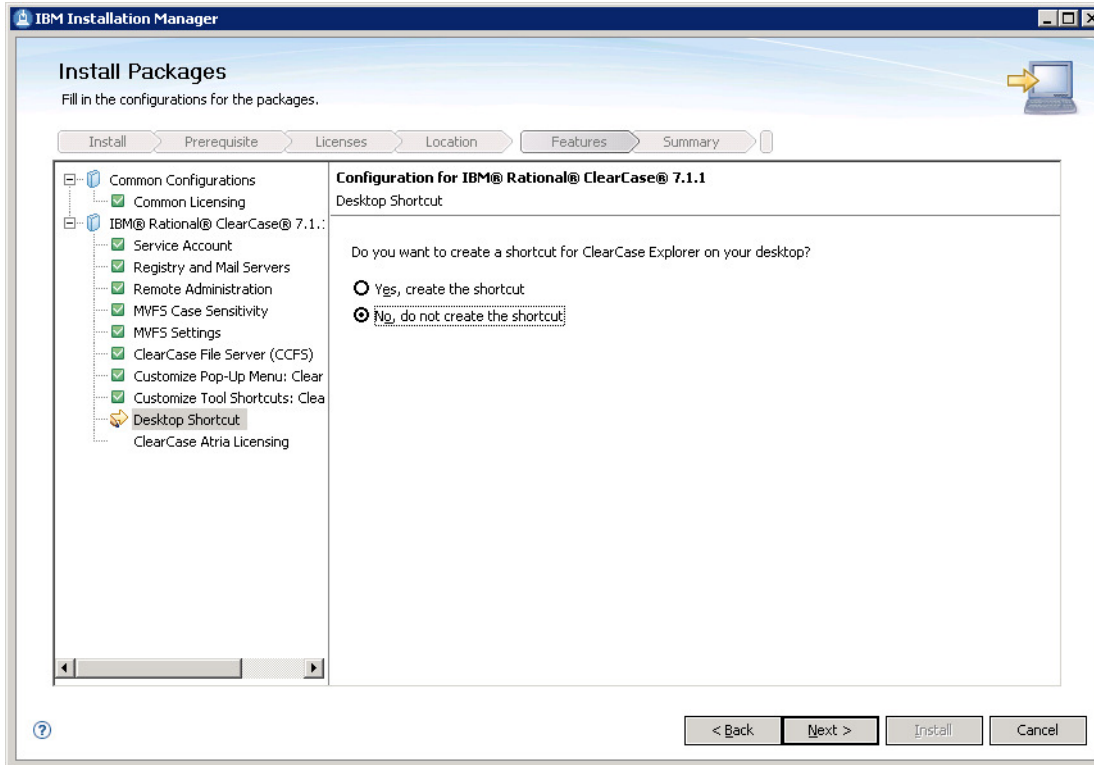
Set desktop shortcut link preference, and click Next.
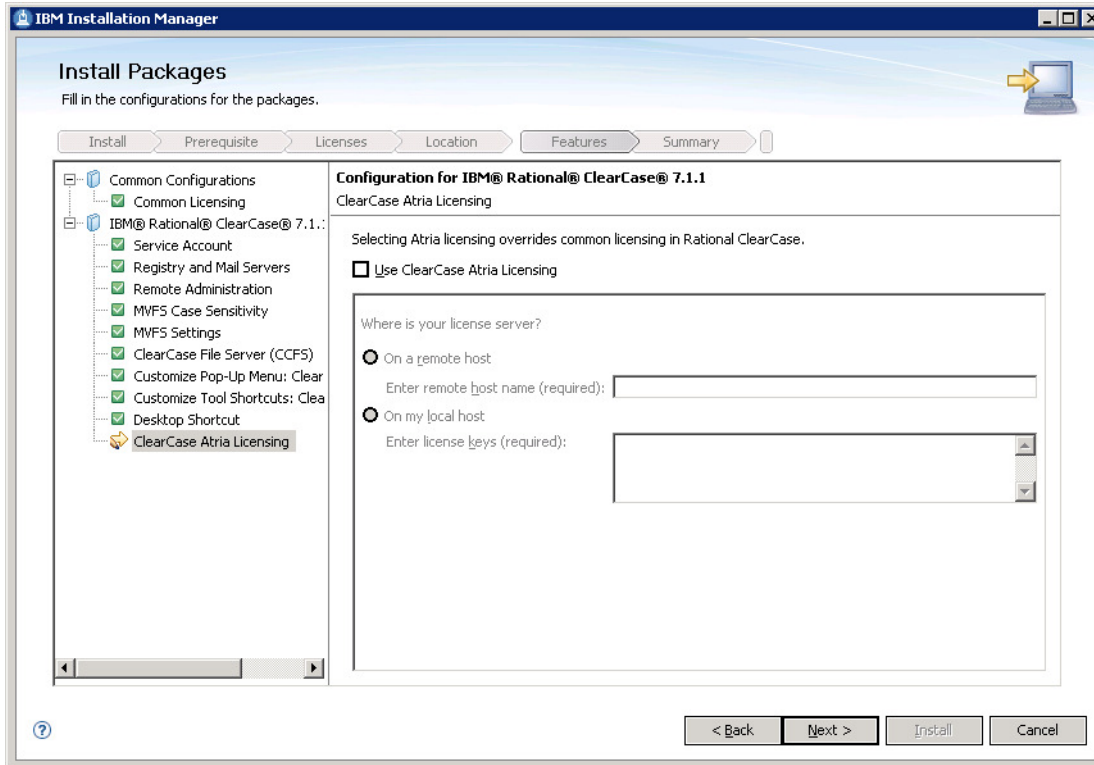
Opportunity to use ClearCase Atria style licensing. Configure, or not, and click Next.
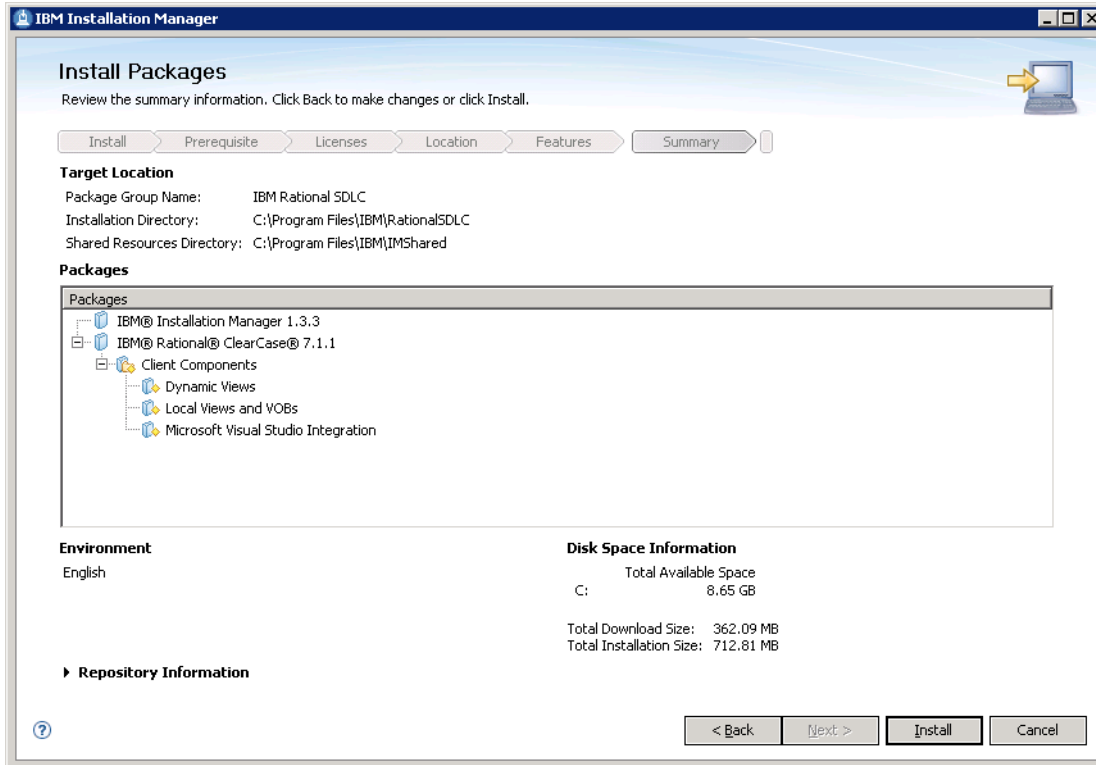
Summary of packages to be installed. Click Install to begin.
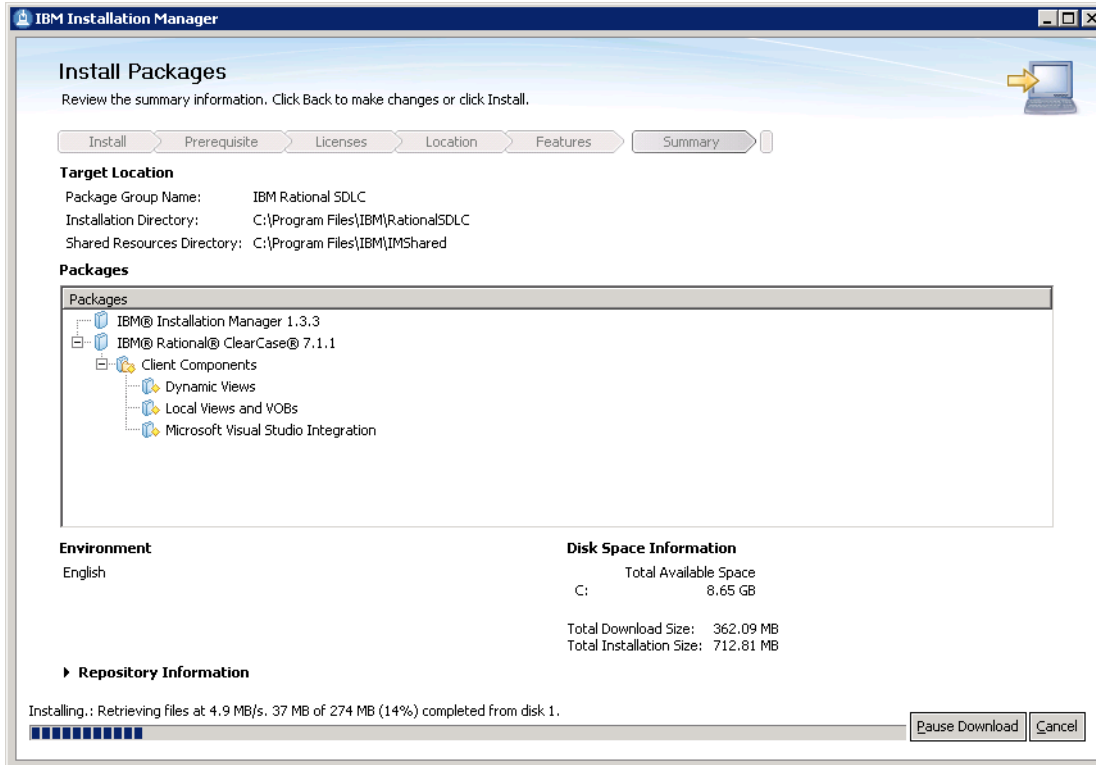
Bar graph reflects installation progress. Can be paused if desired.
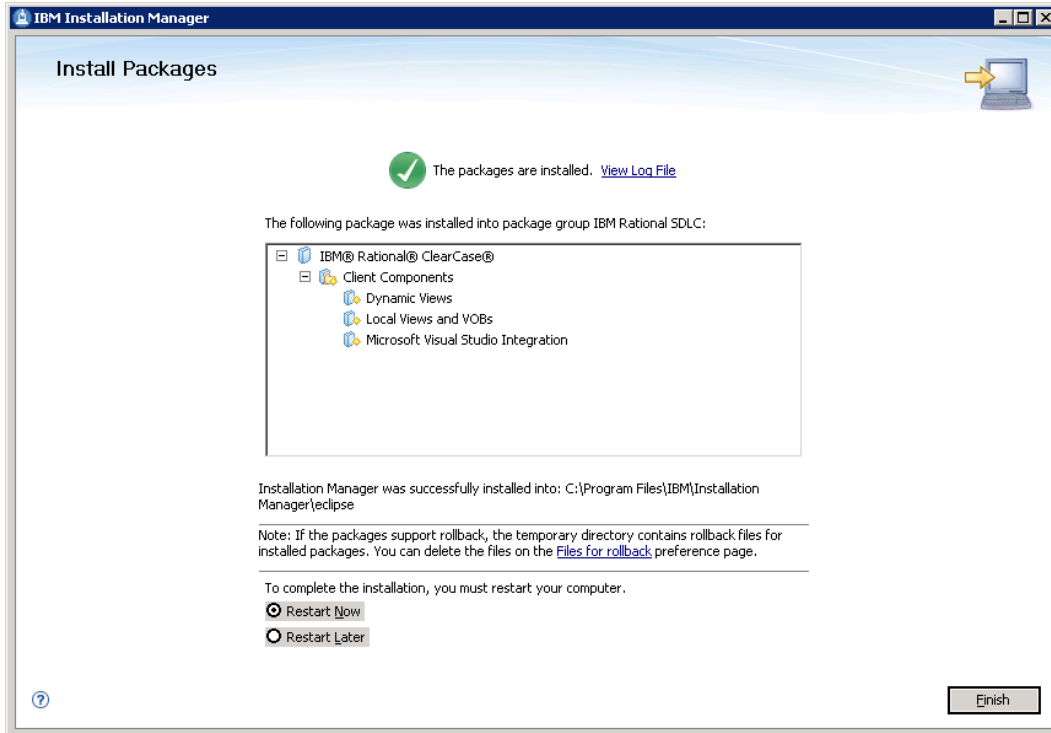
Click on Finish to initiate an immediate reboot of the machine. Upon startup, ClearCase Doctor will initiate:
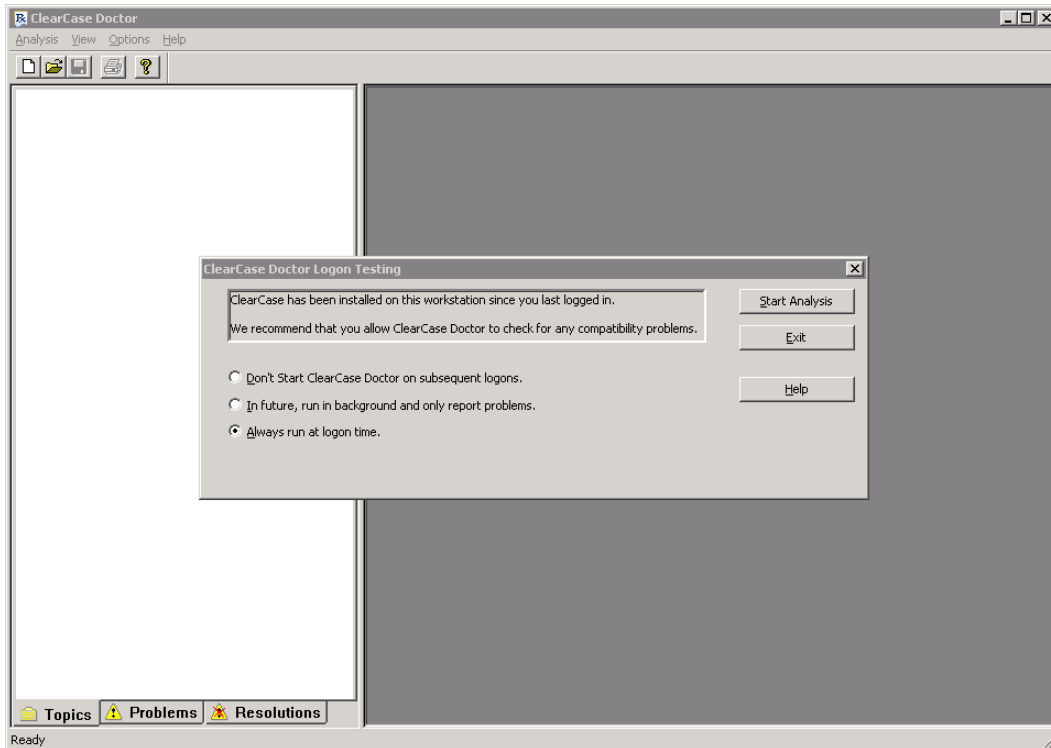
Set preference for ClearCase Doctor, and run it. ClearCase 7.1.1 is now installed!
OK, now that we've installed a version of ClearCase, we would like to make sure that it is the latest version, and also install the corresponding version of ClearQuest. The first thing to do is bring up the newly installed version of Installation Manager. It will now be in your Start -> All Programs menu. Start it up and choose Preferences from the File menu.
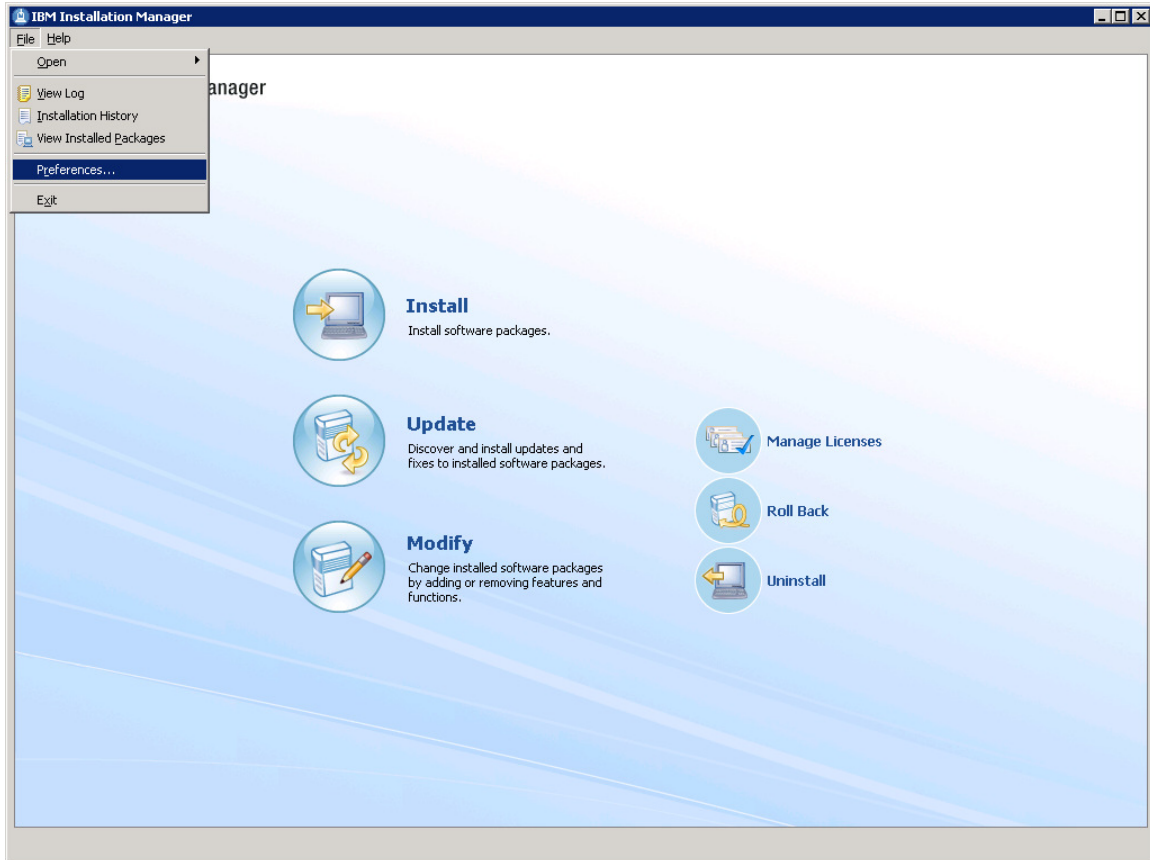
The intent is to populate the repositories list with the locations of both the ClearCase and ClearQuest install areas.
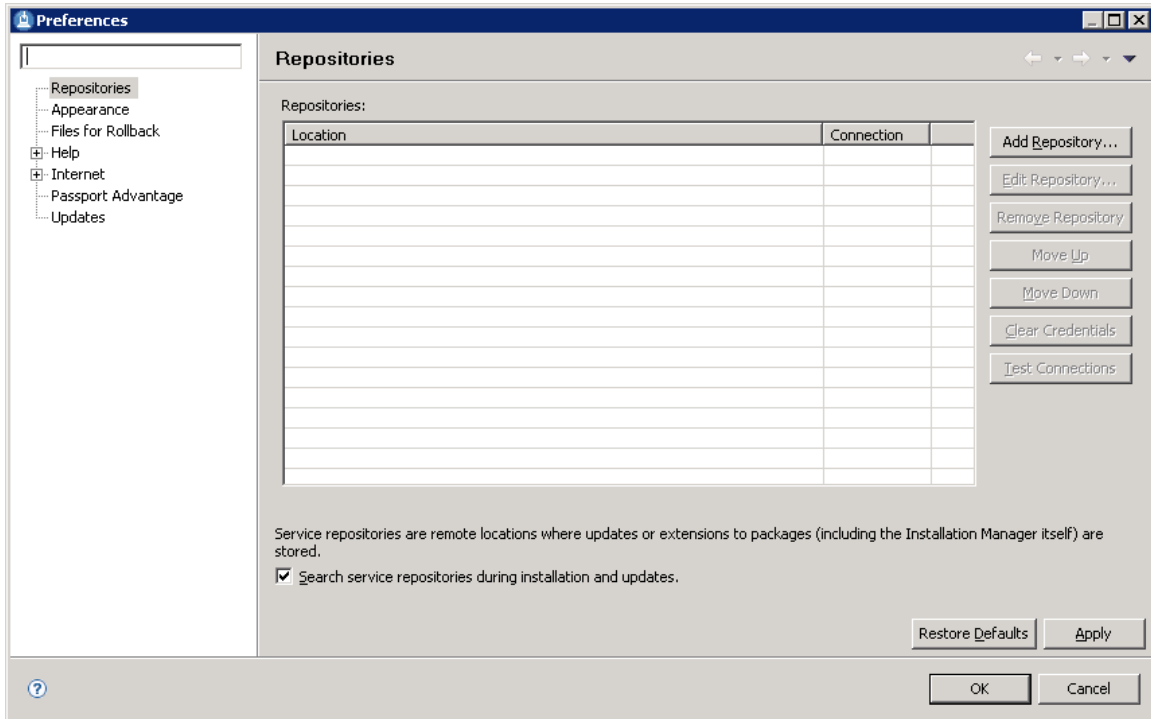
Here we have the Repositories preference page. We will populate this with ClearCase and ClearQuest. Click the Add Repository button, and navigate to the install areas for the products.
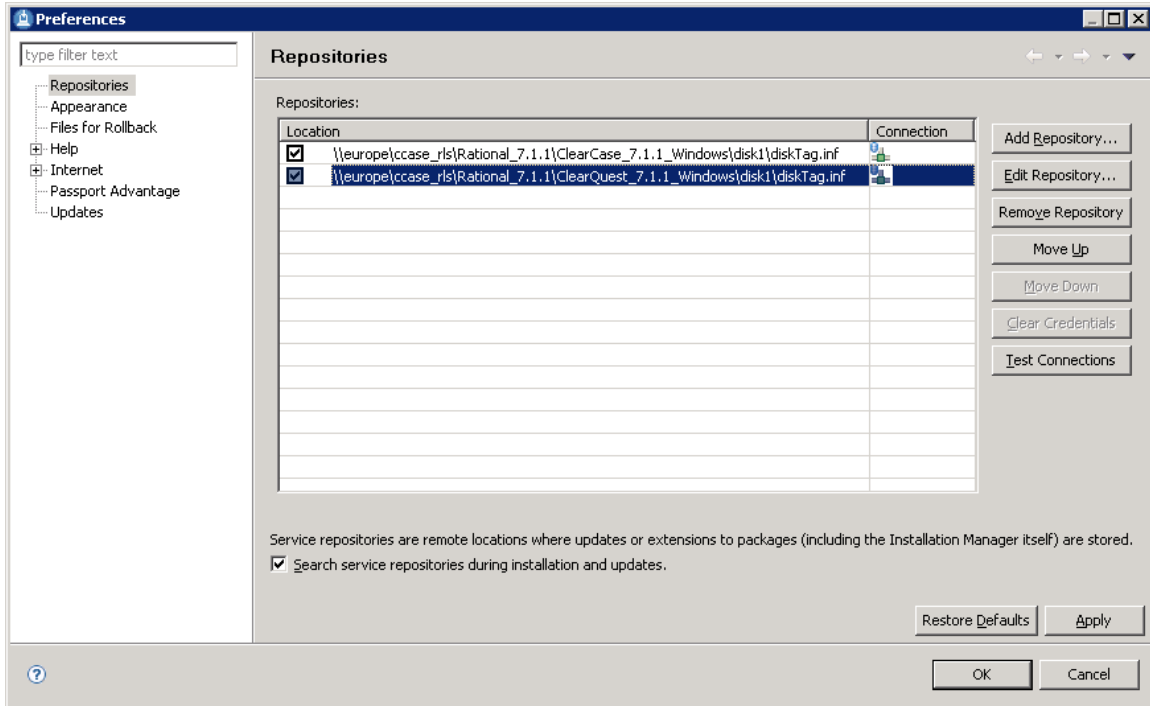
Notice that the Tag.inf file is selected as the choice to represent each install repository. Click on the Test Connections button to see if communication with each repository is valid.
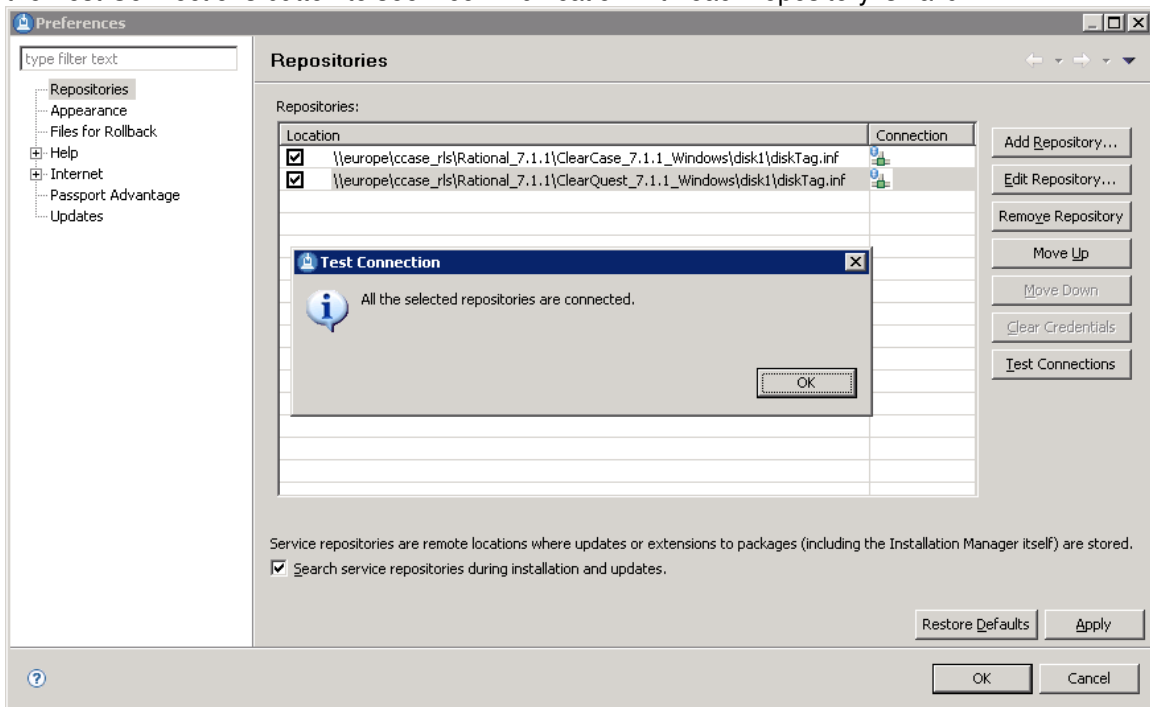
Connections are valid. Click OK on the popup, then click OK to return to Installation Manager.

Click Update in Installation Manager to begin the ClearCase update process and also install ClearQuest. The screen below should be displayed.
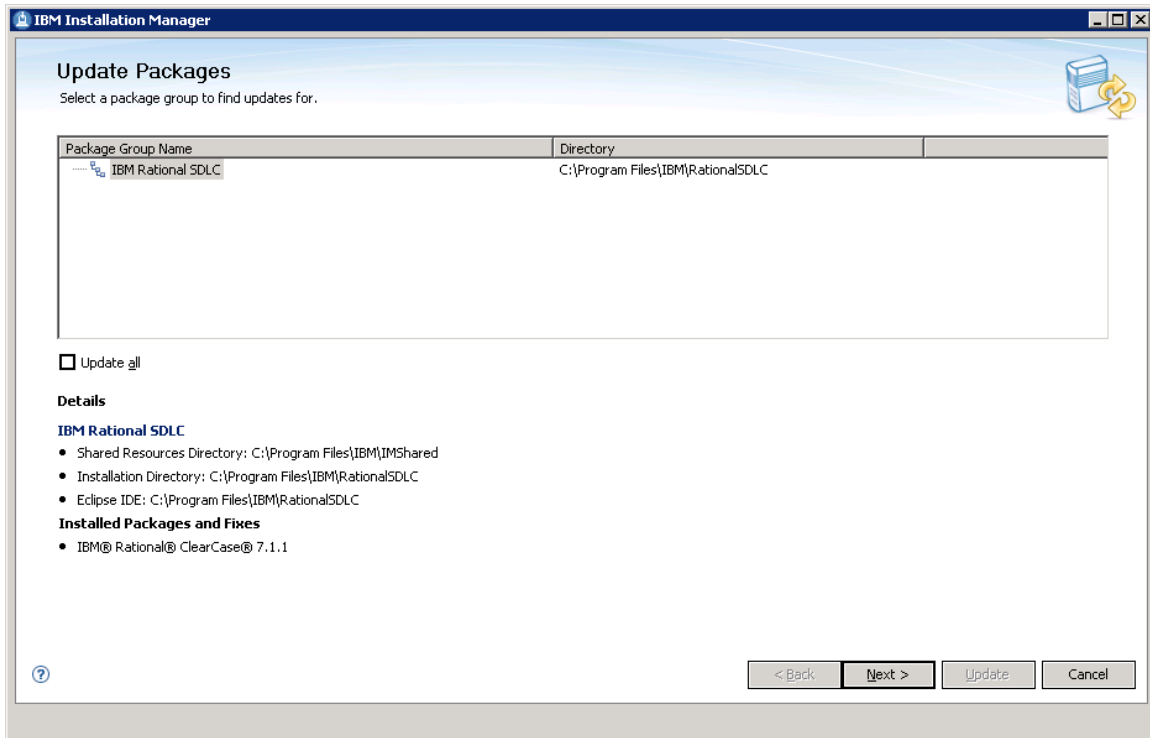
Click Next to proceed with updating the Package Group containing ClearCase. Most likely, the current version of Installation Manager will need to be upgrade, and the pop-up below will display.
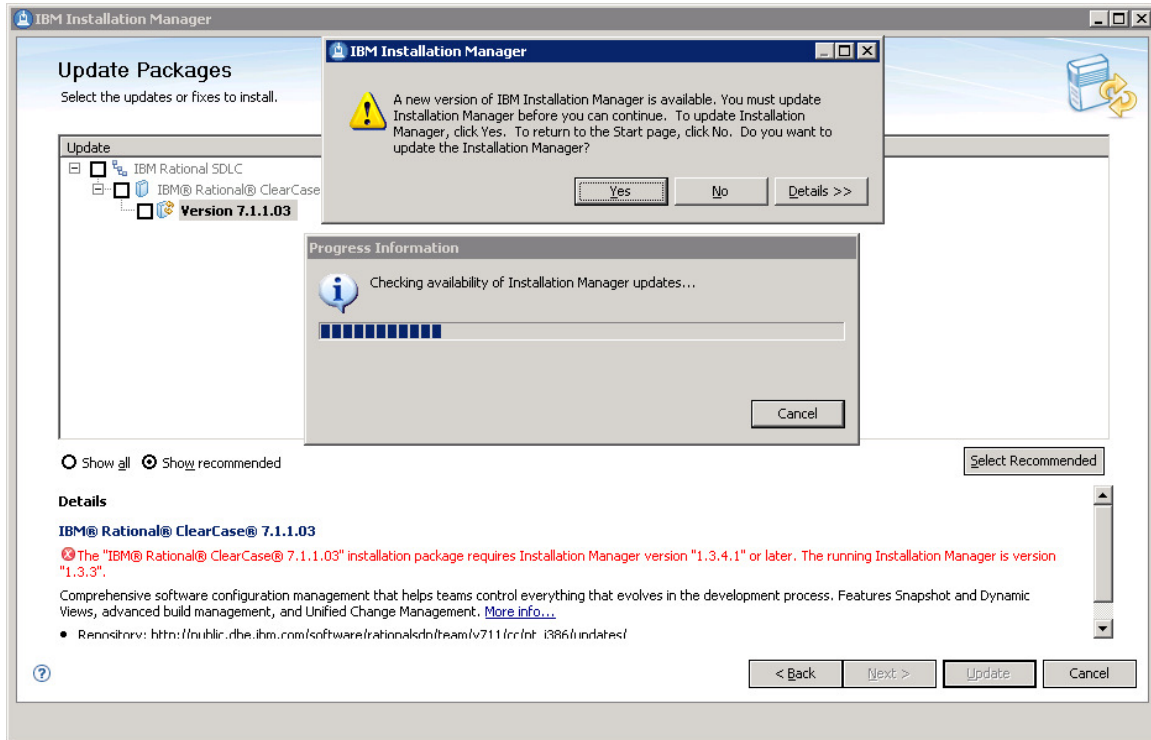
Click Yes to proceed with the upgrade to Installation Manager.
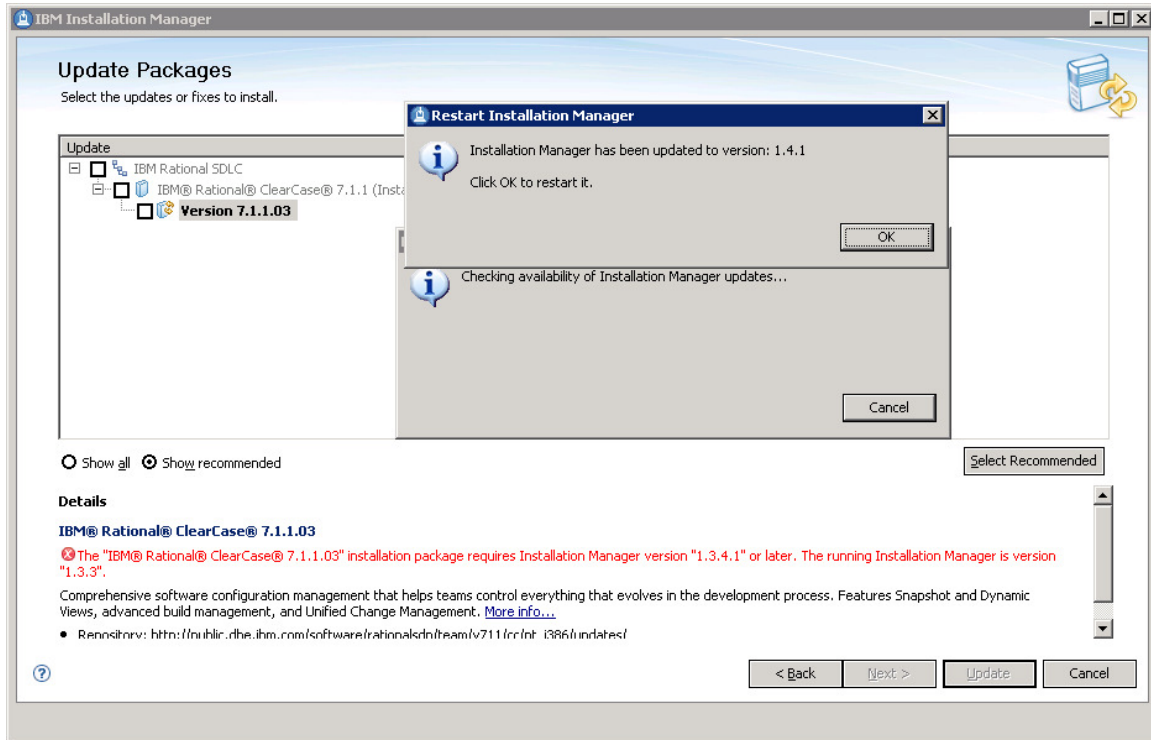
The upgrade of Installation Manager will complete. Click OK to restart Installation Manager. The new version should start, and present as the following screen shot. Click on the Install link.

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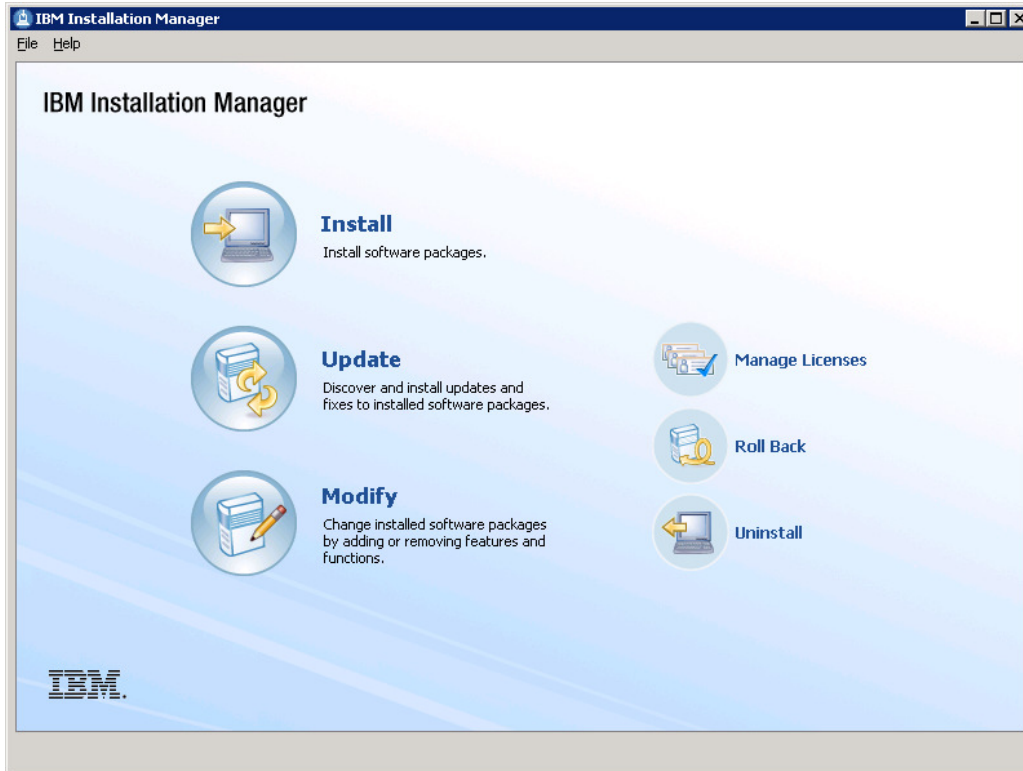
Install link brings up the following panel. Notice ClearCase is already marked as installed.
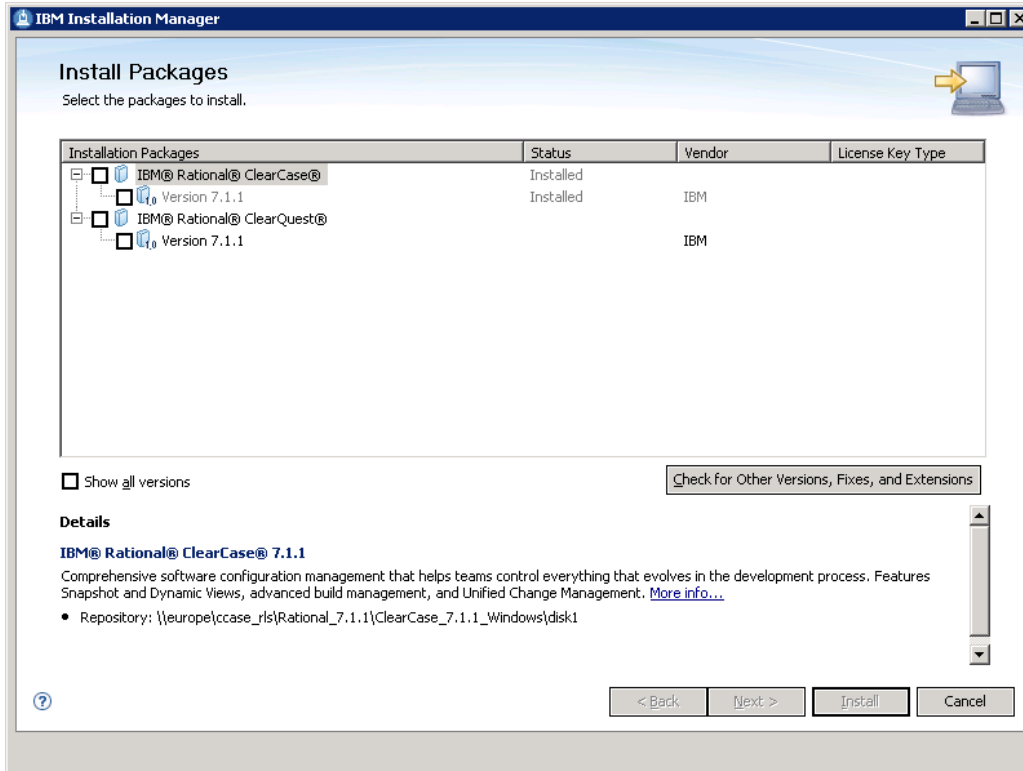
Check the boxes for ClearQuest so that it will be the next product installed.
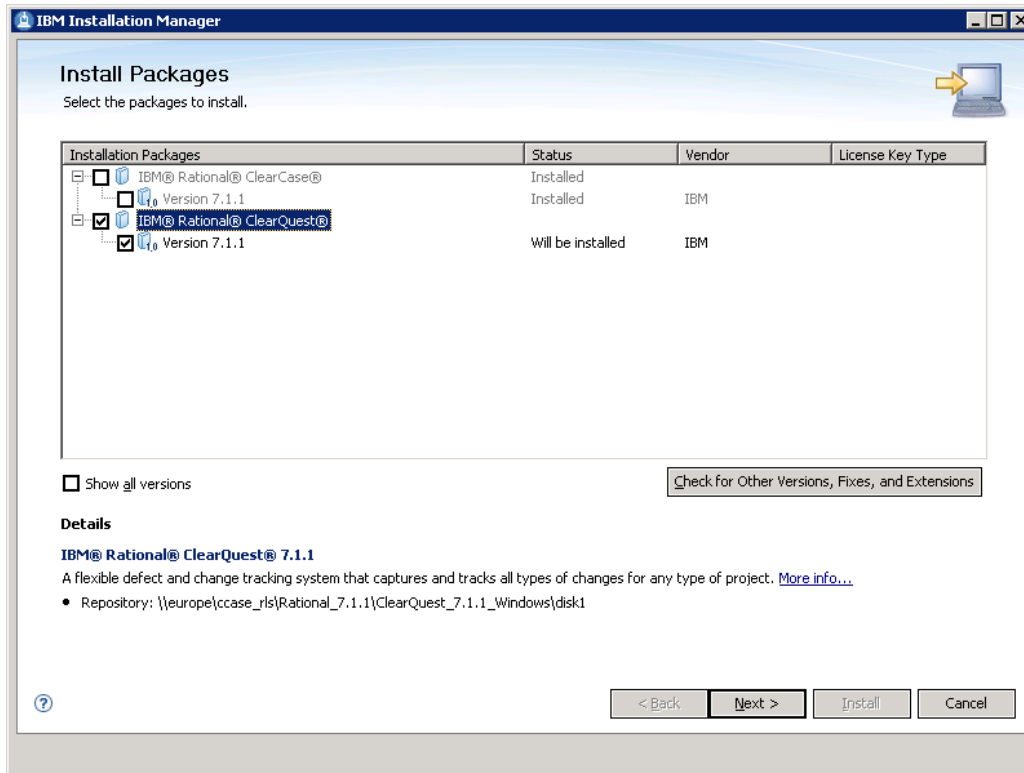
ClearQuest is selected for install, click Next.
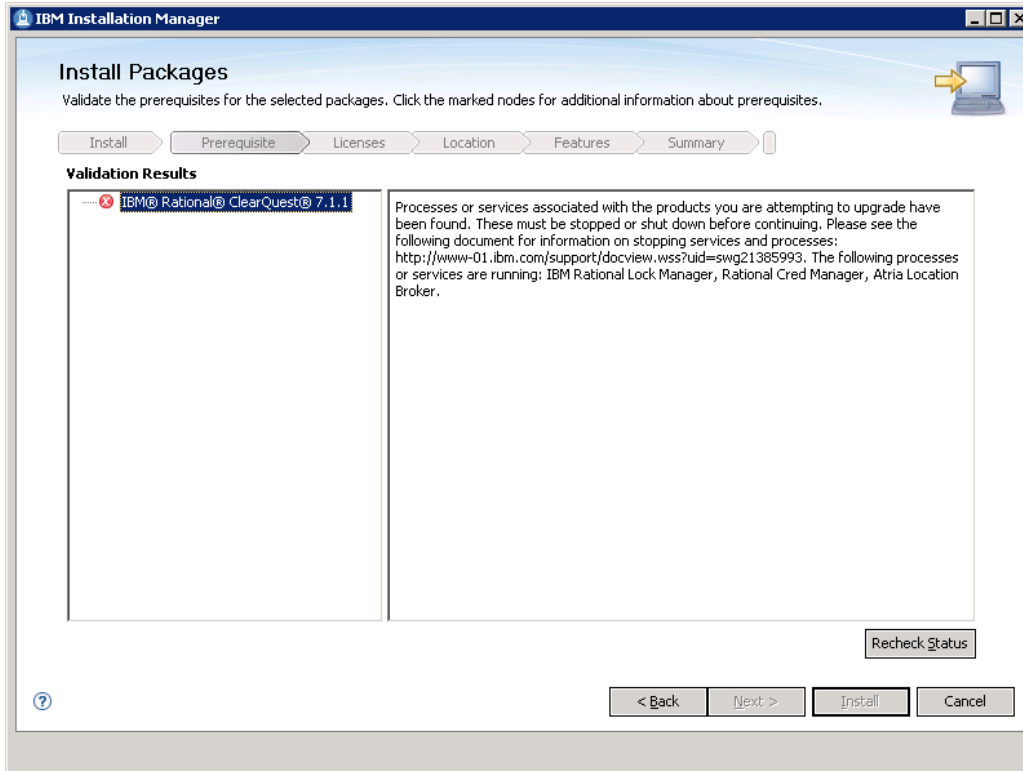
Existing process need shutdown. Bring up ClearCase Home Base and halt ClearCase.
Click Recheck Status after halting ClearCase. Next button should now be un-grayed.
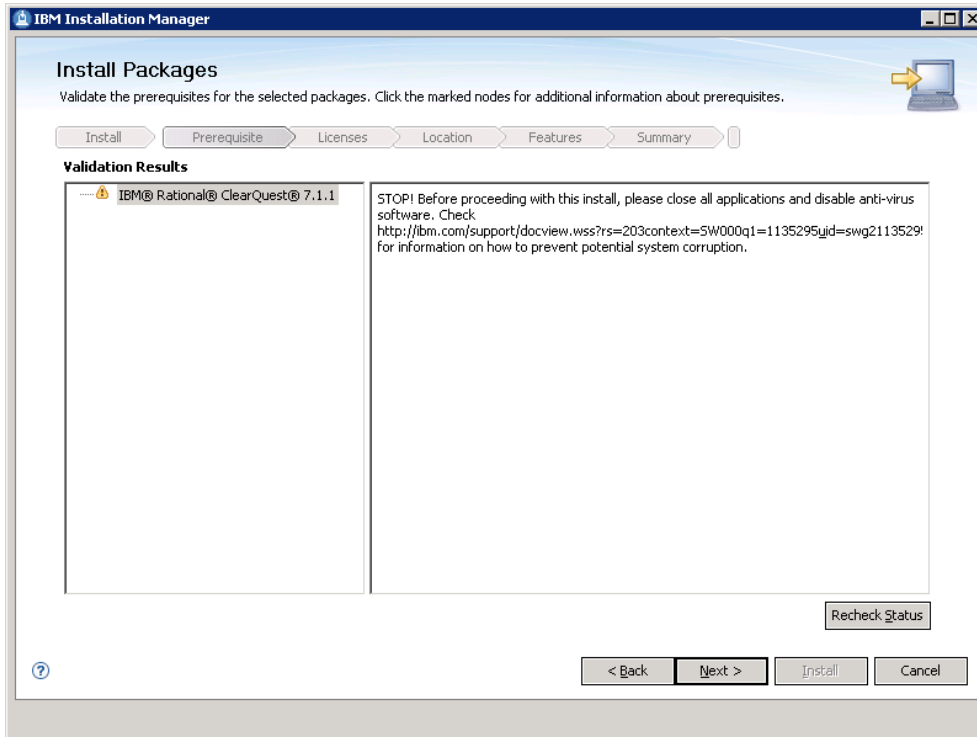
Click Next to continue with ClearQuest install.
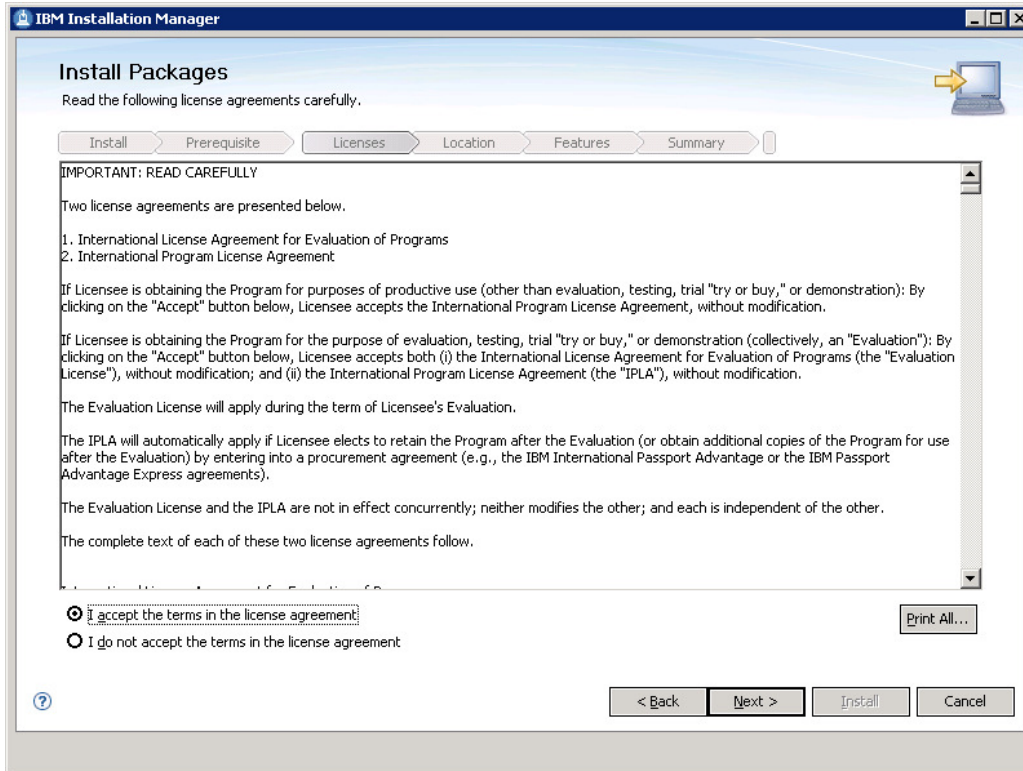
Accept license agreement and click Next.
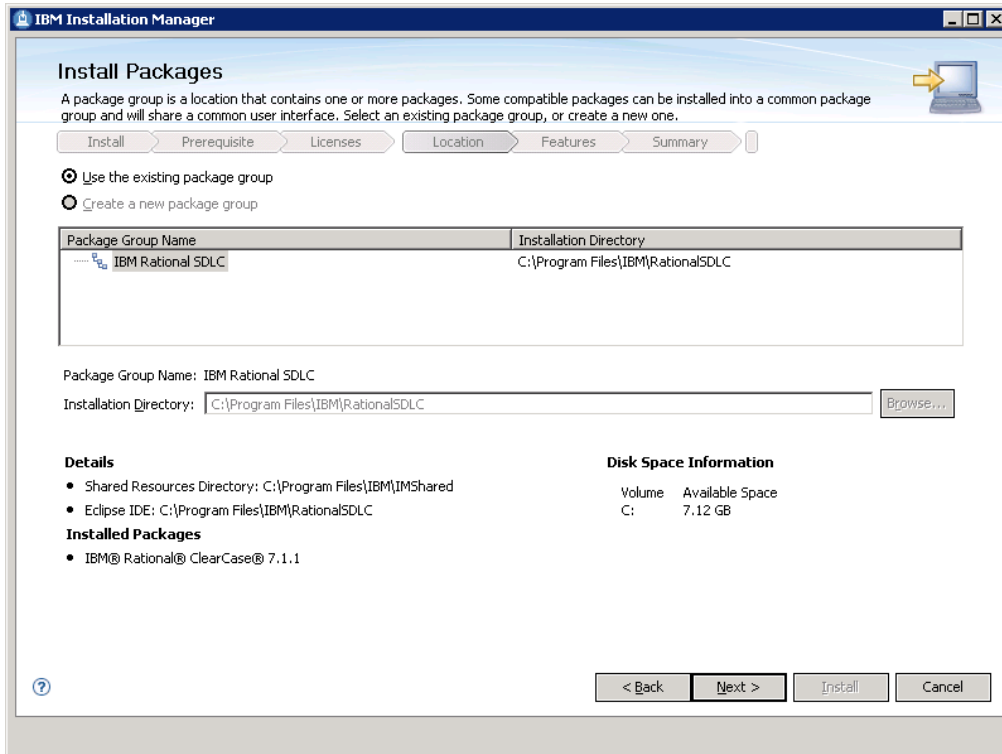
Click Next to acknowledge use of existing Package Group.
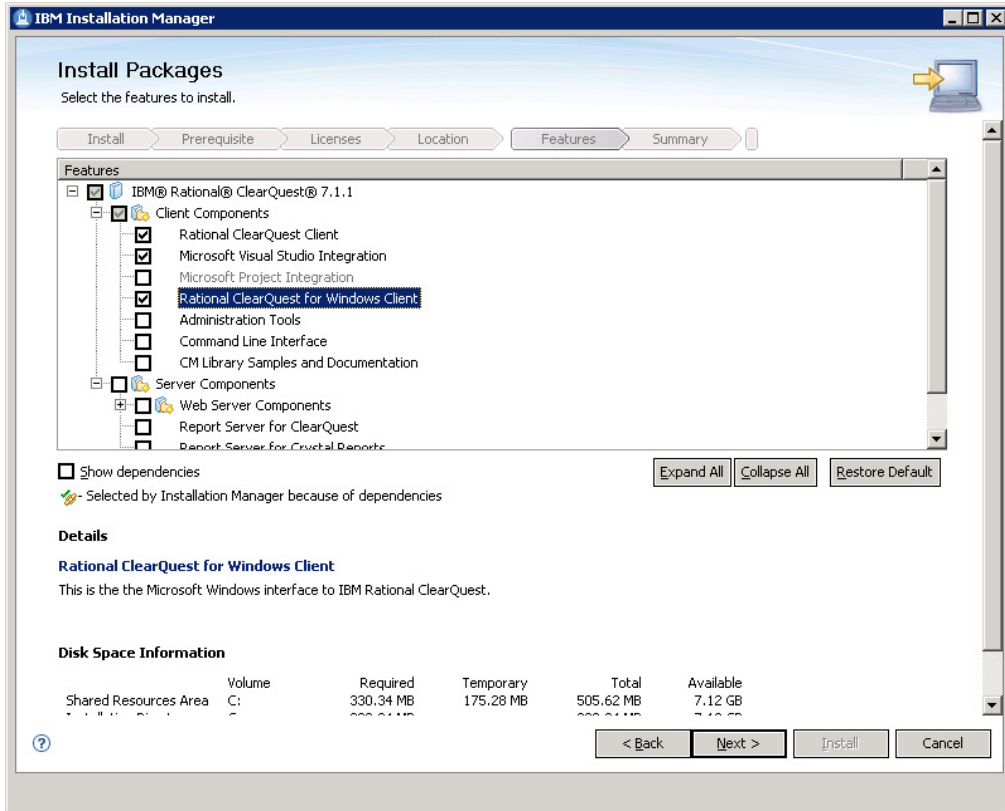
Select additional packages needed, and click Next to continue.
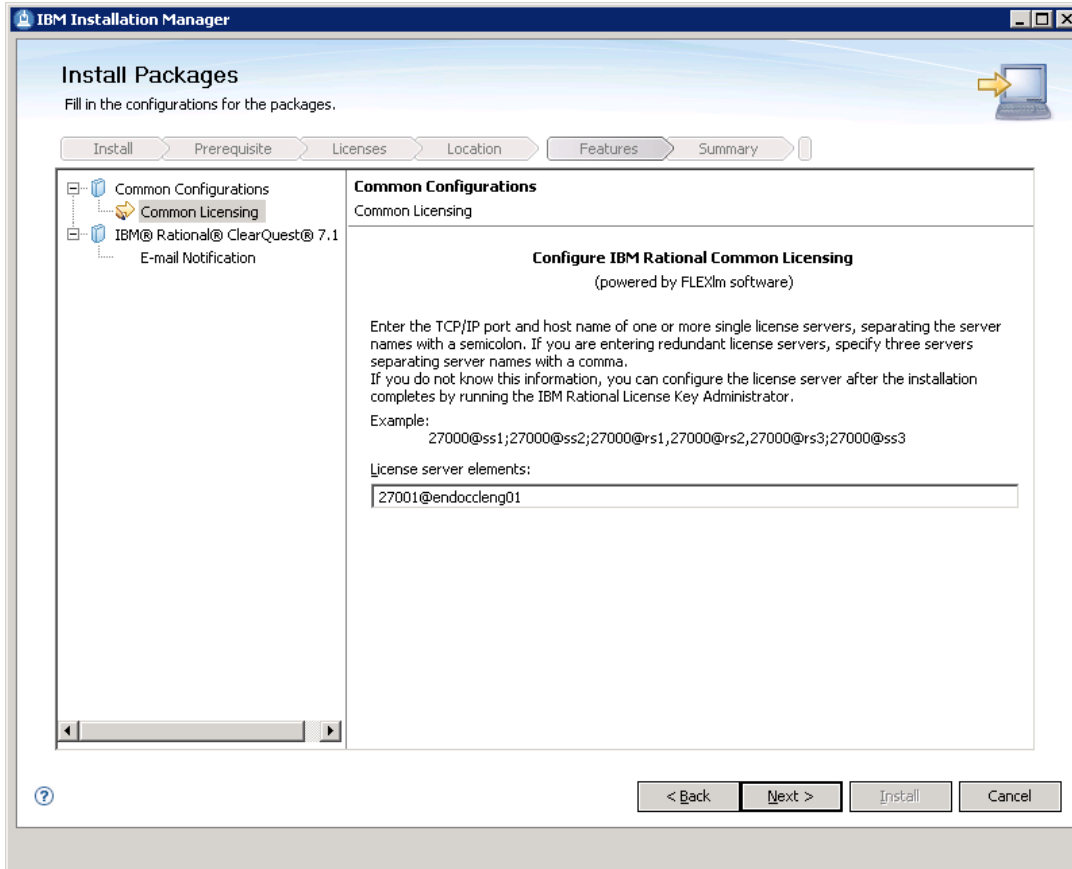
Click Next to accept existing license server.
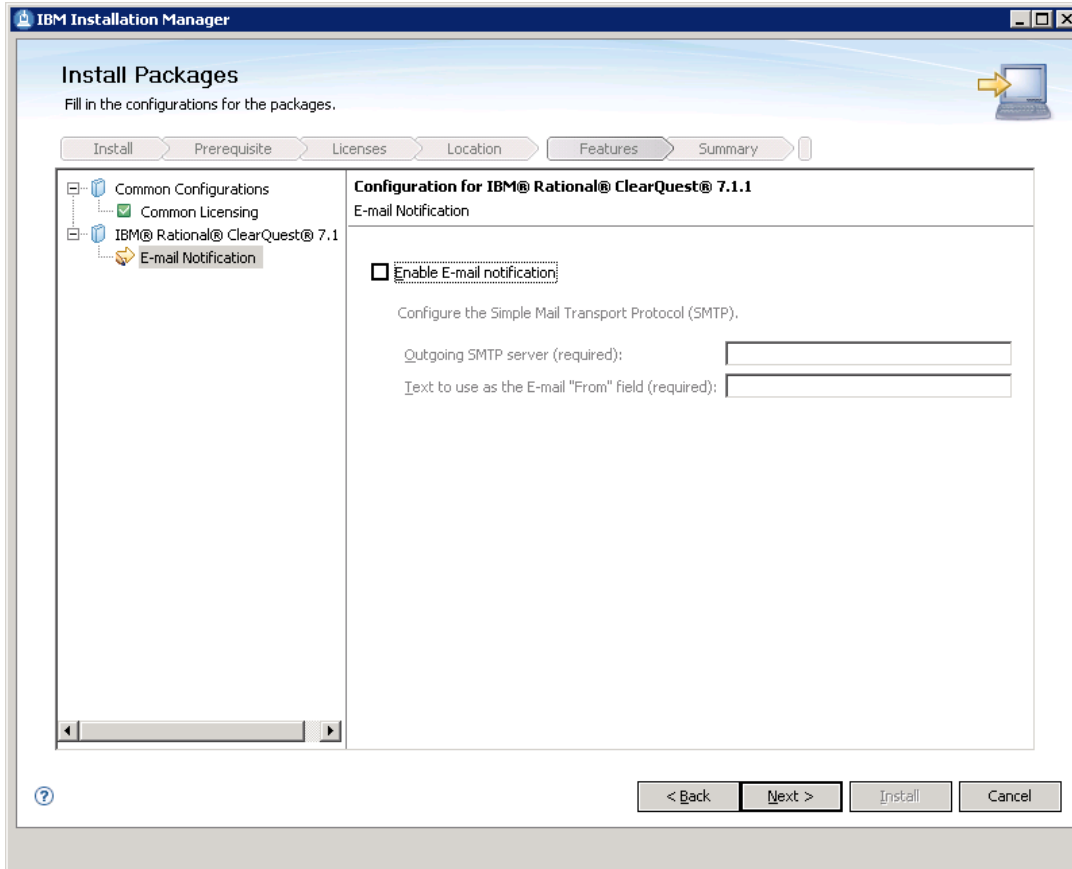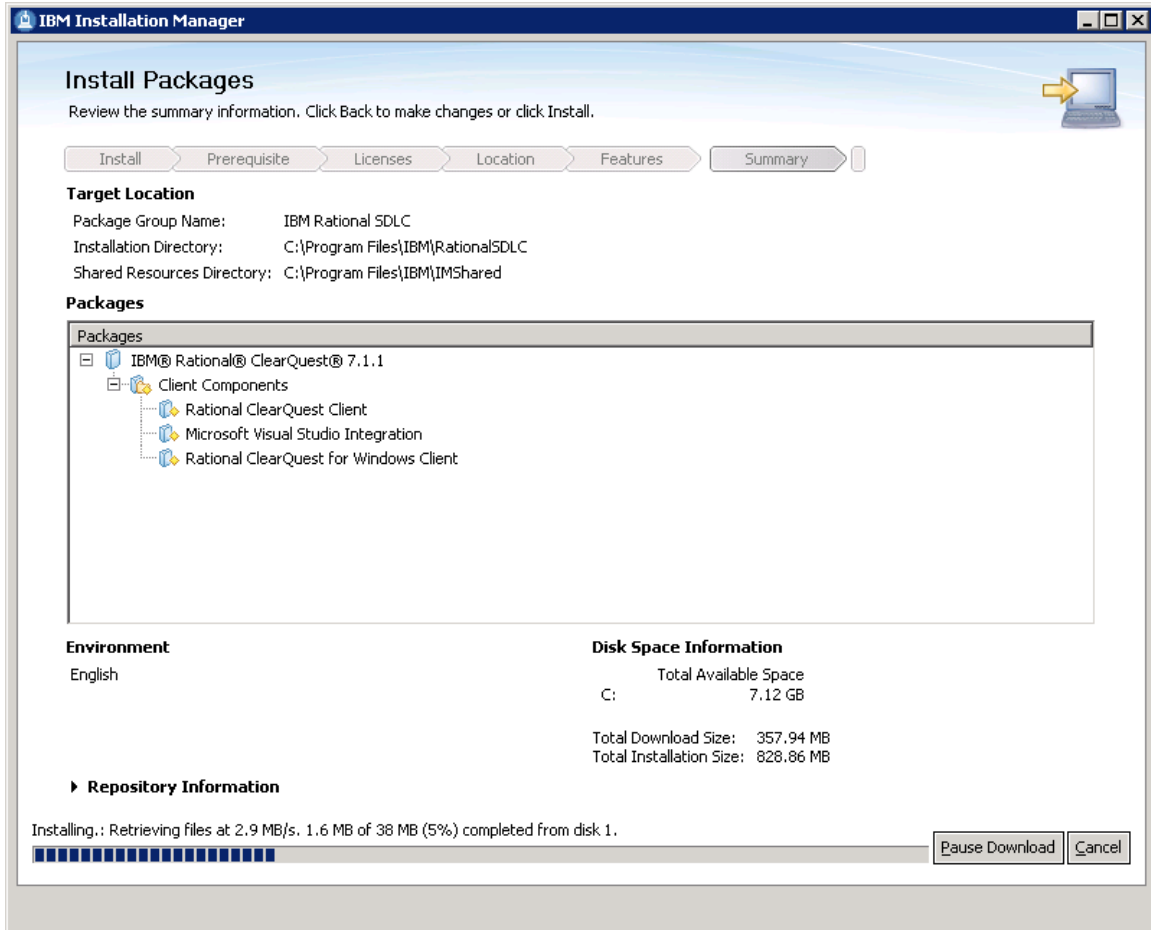
Default e-mail notification panel.

Fill in e-mail notification fields, and click Next to continue.
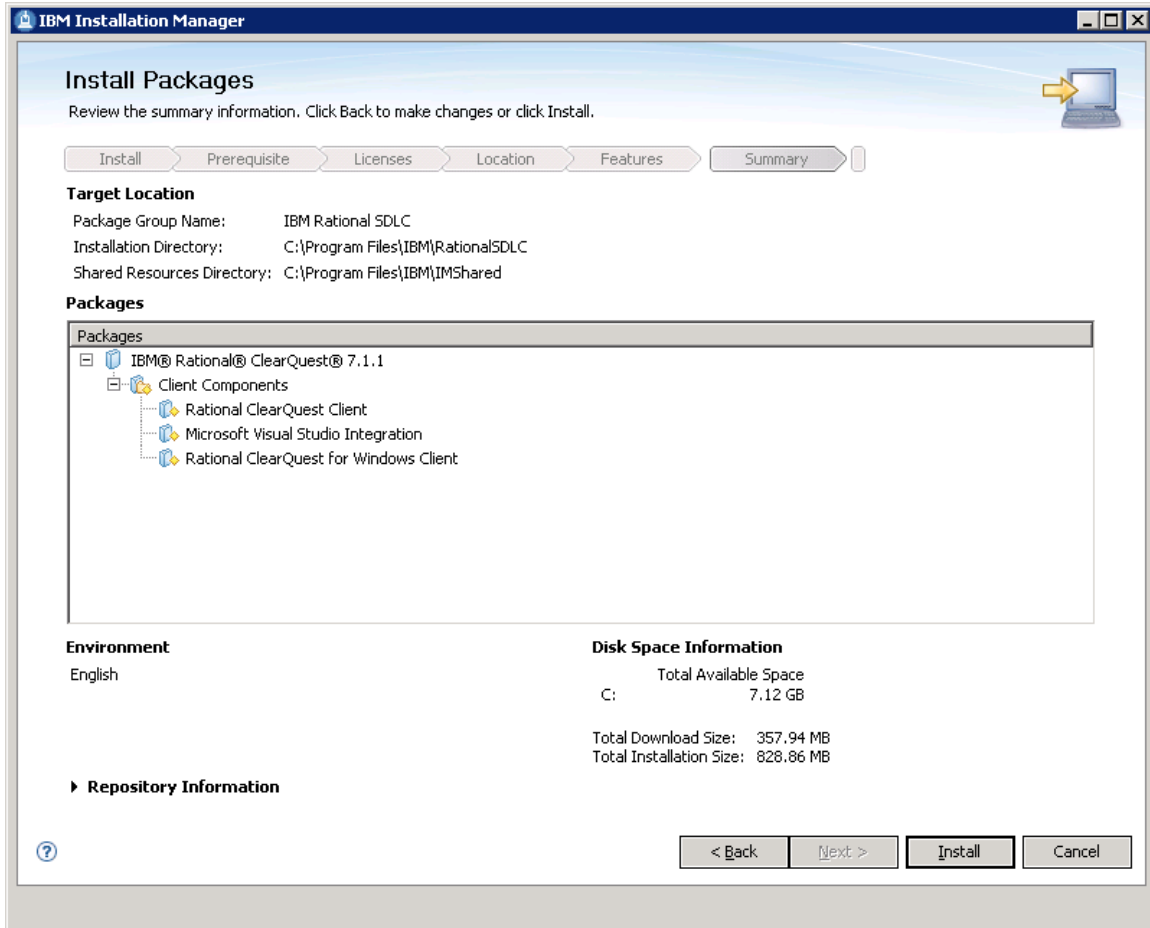
Click Install to proceed with ClearQuest installation.

Install is proceeding with bar graph displaying progress. Pause can be used if needed.
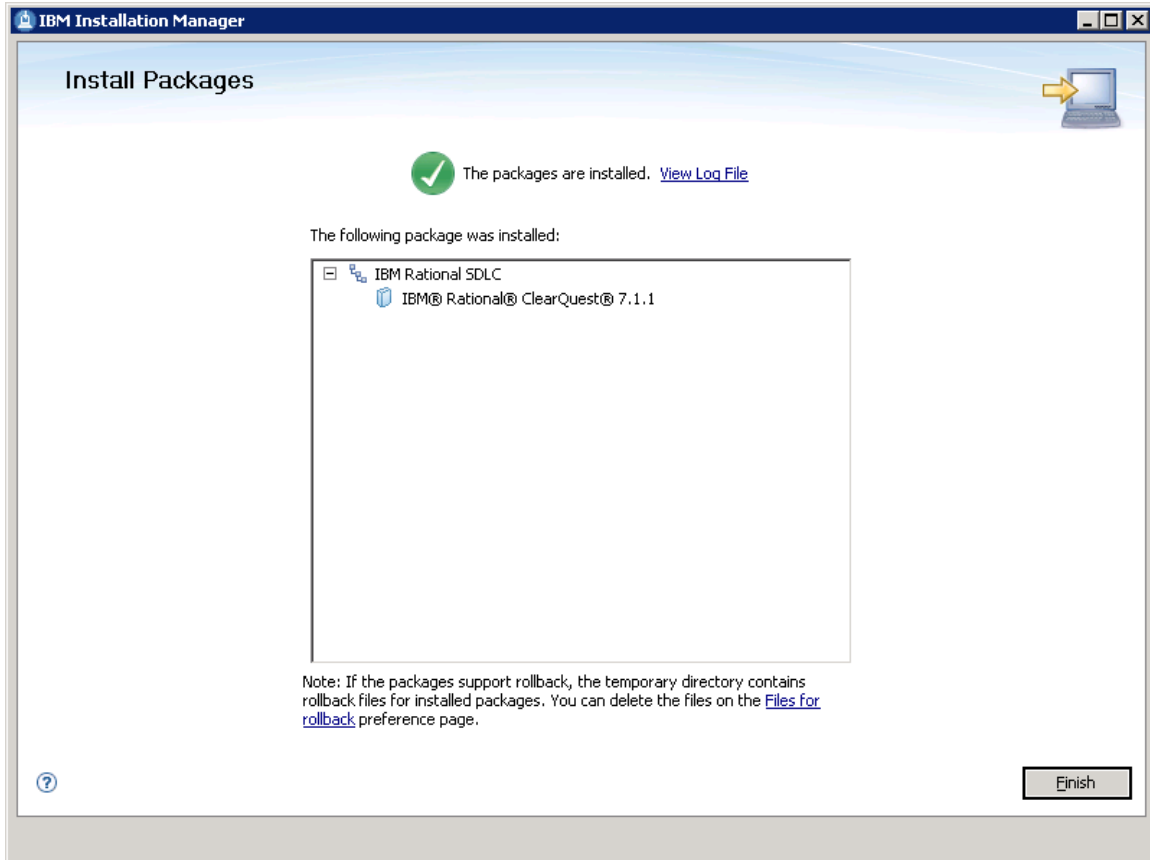
ClearQuest install has now completed. Click Finish to complete the process.

We now have compatible versions (7.1.1) of both ClearCase and ClearQuest installed. The next action we want to take is to update these tools to the latest patch level. From the Installation Manager starting page, click Update.
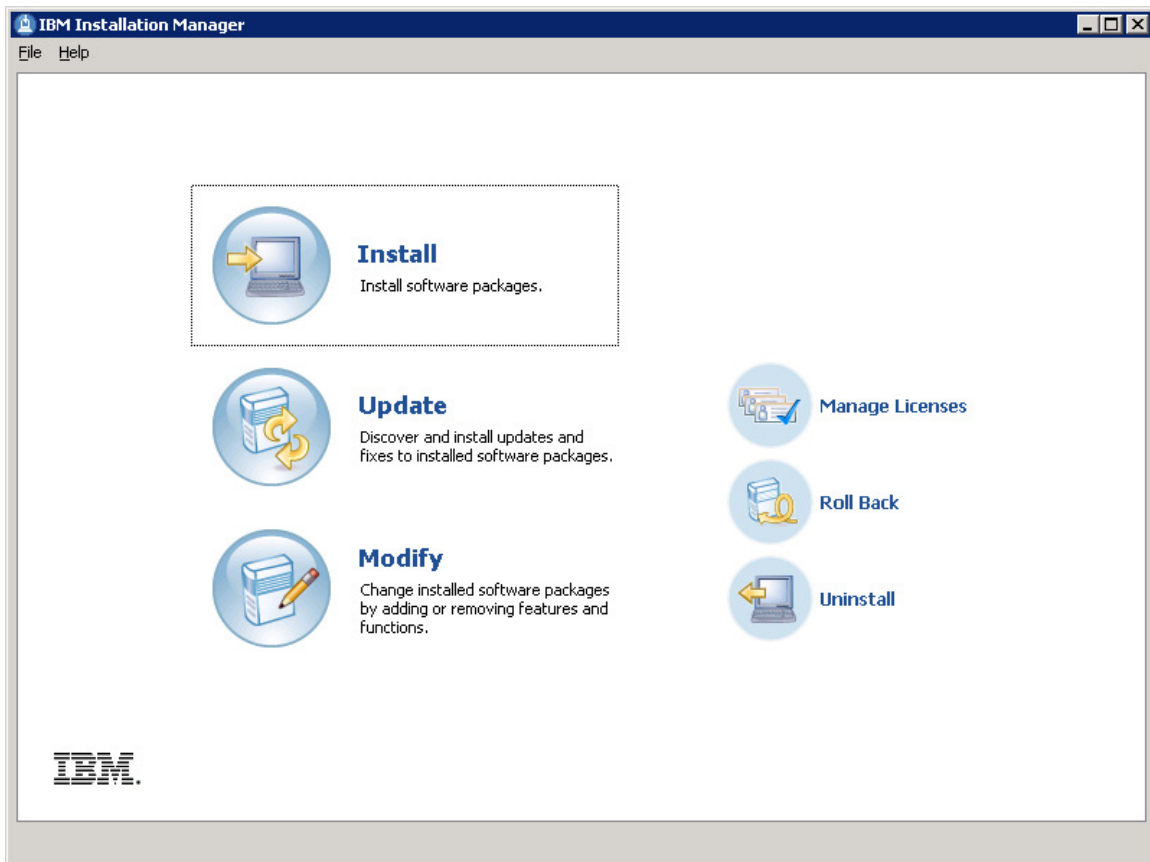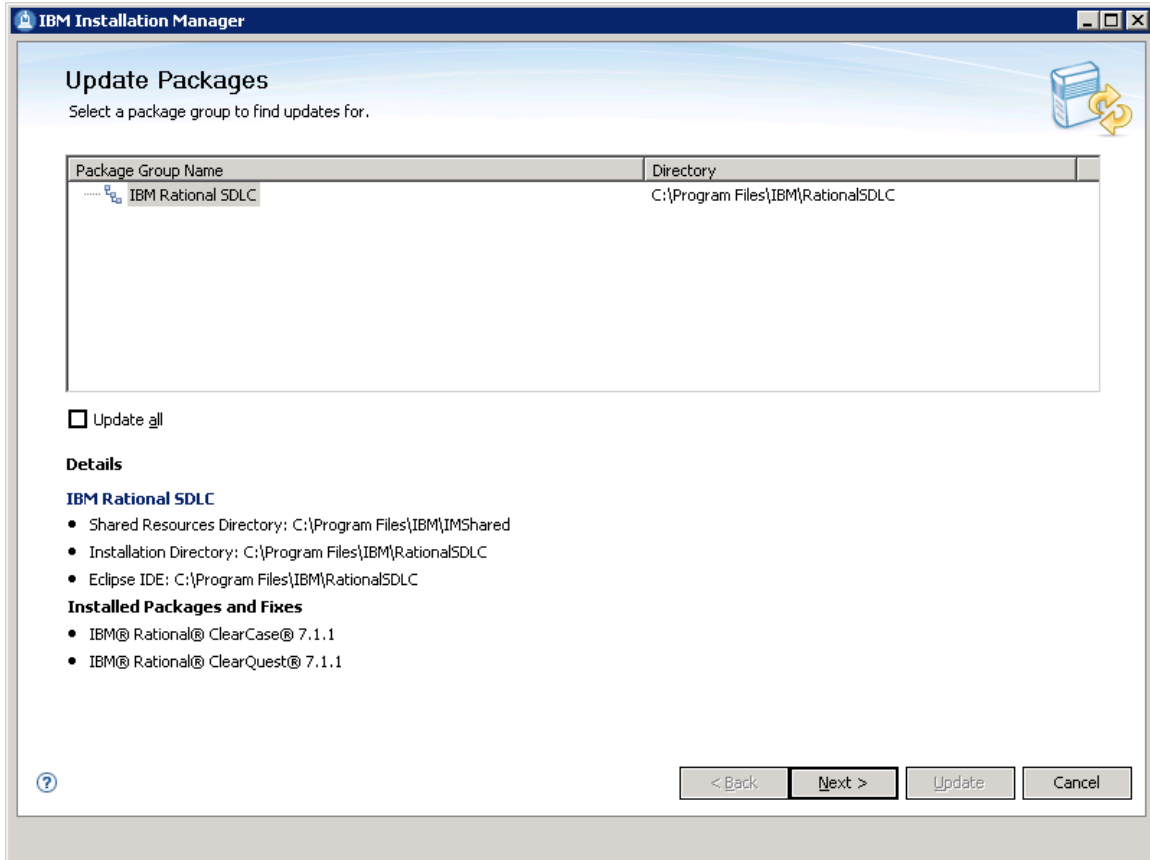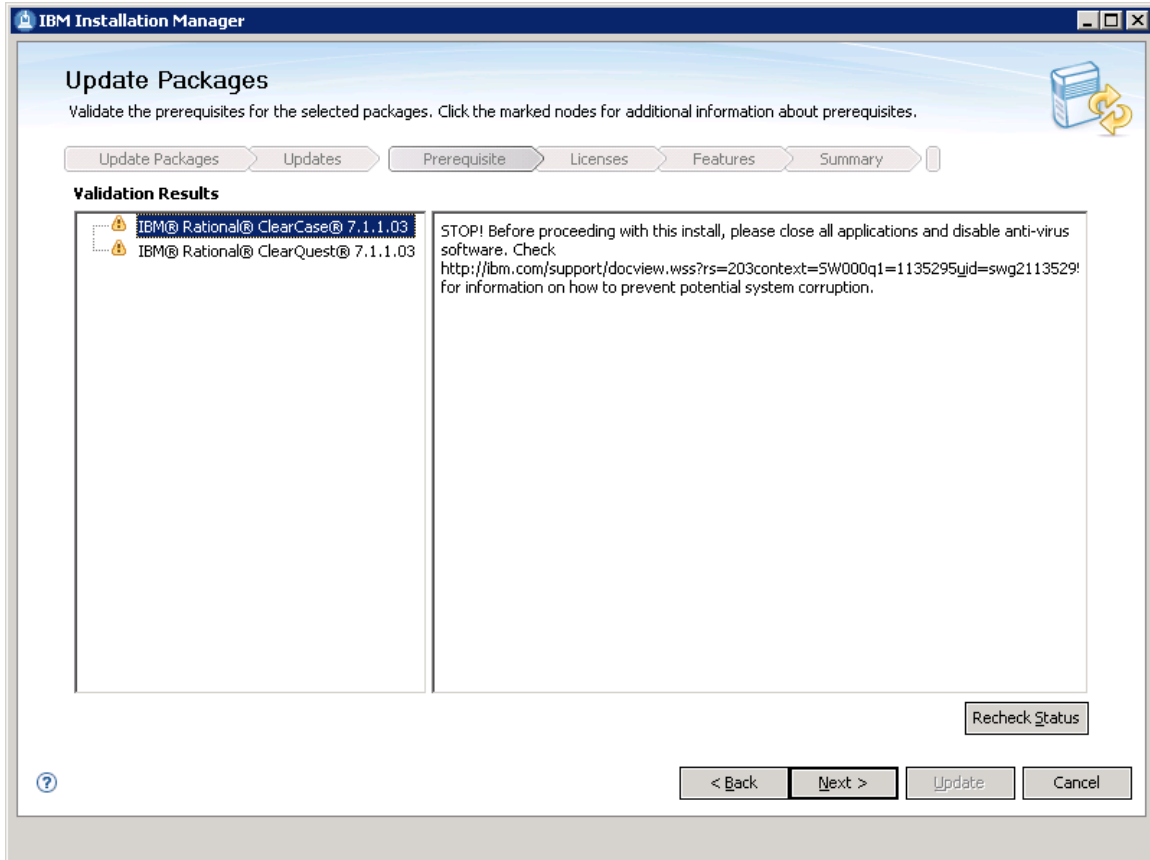
We only have one Package Group, so there is nothing to select here. Click Next to continue.
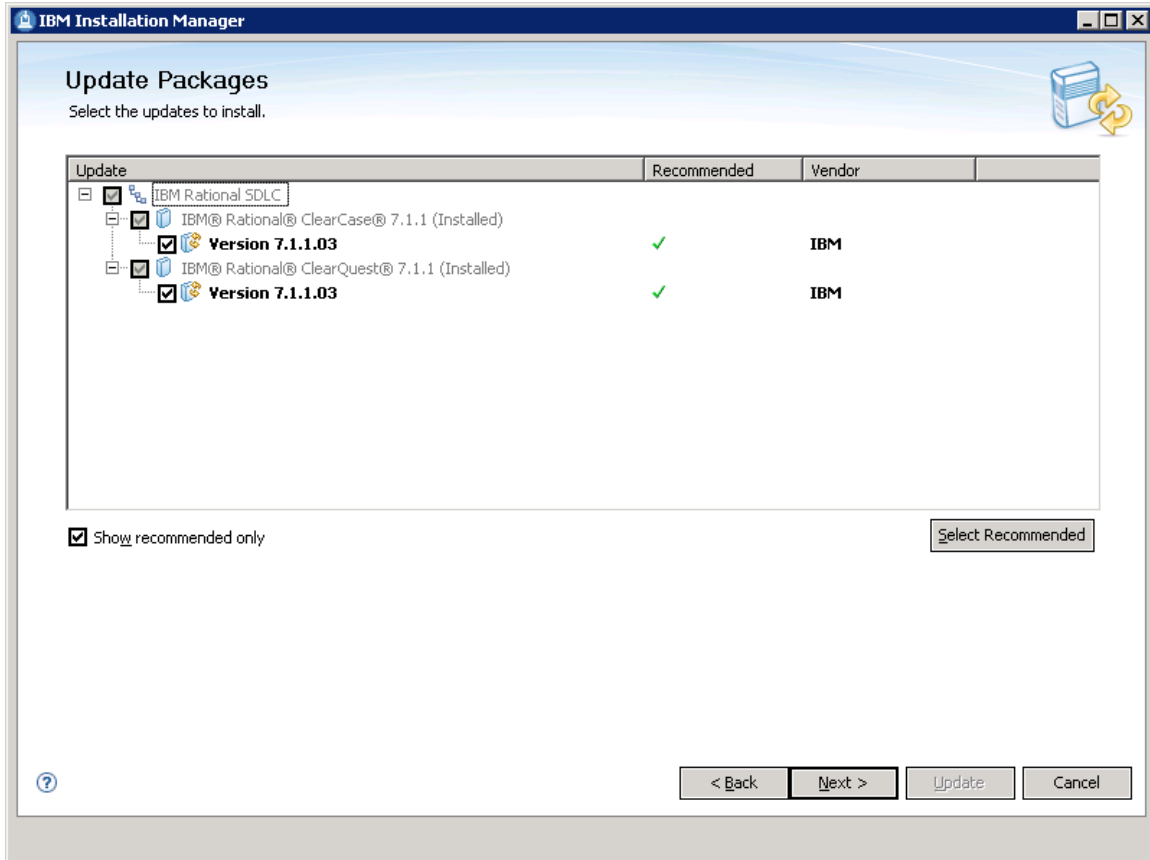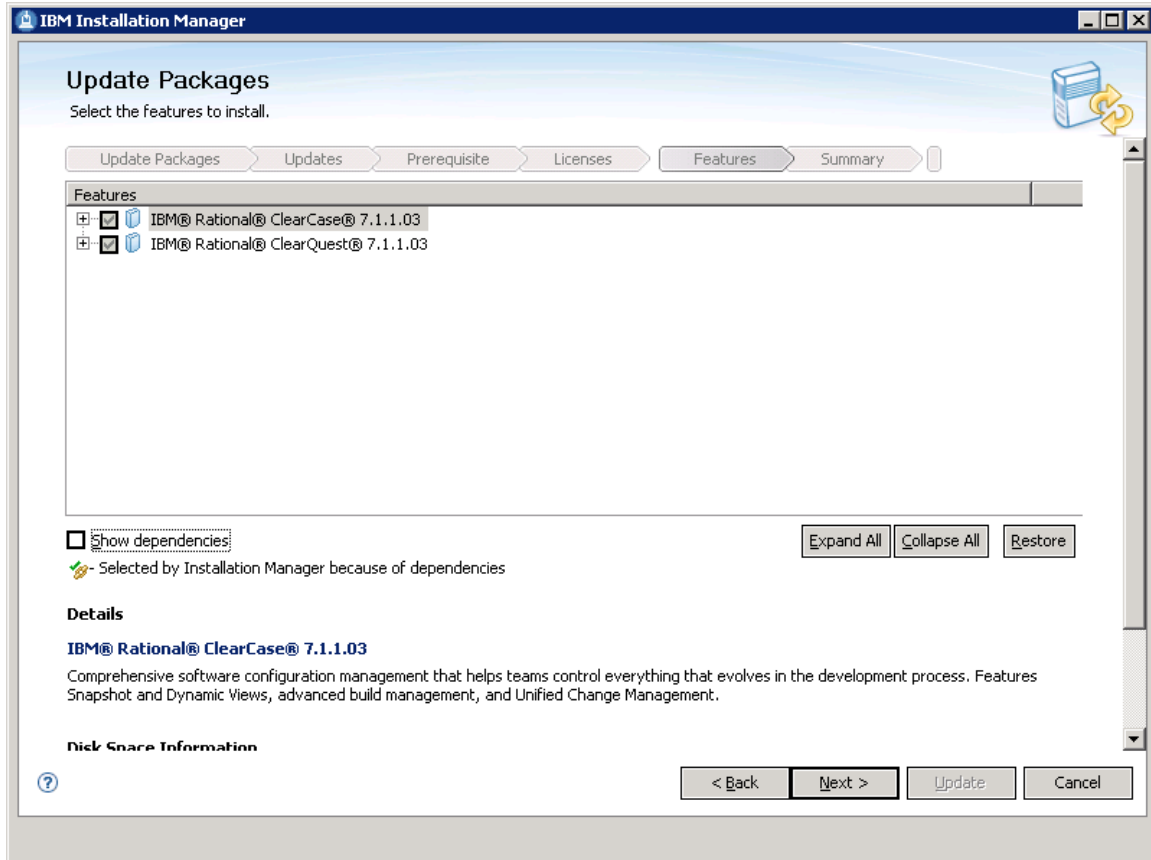
After clicking the Select Recommended button, the latest patch level will be selected for download and install. In this case, version 7.1.1.3 is available, and selected for install.
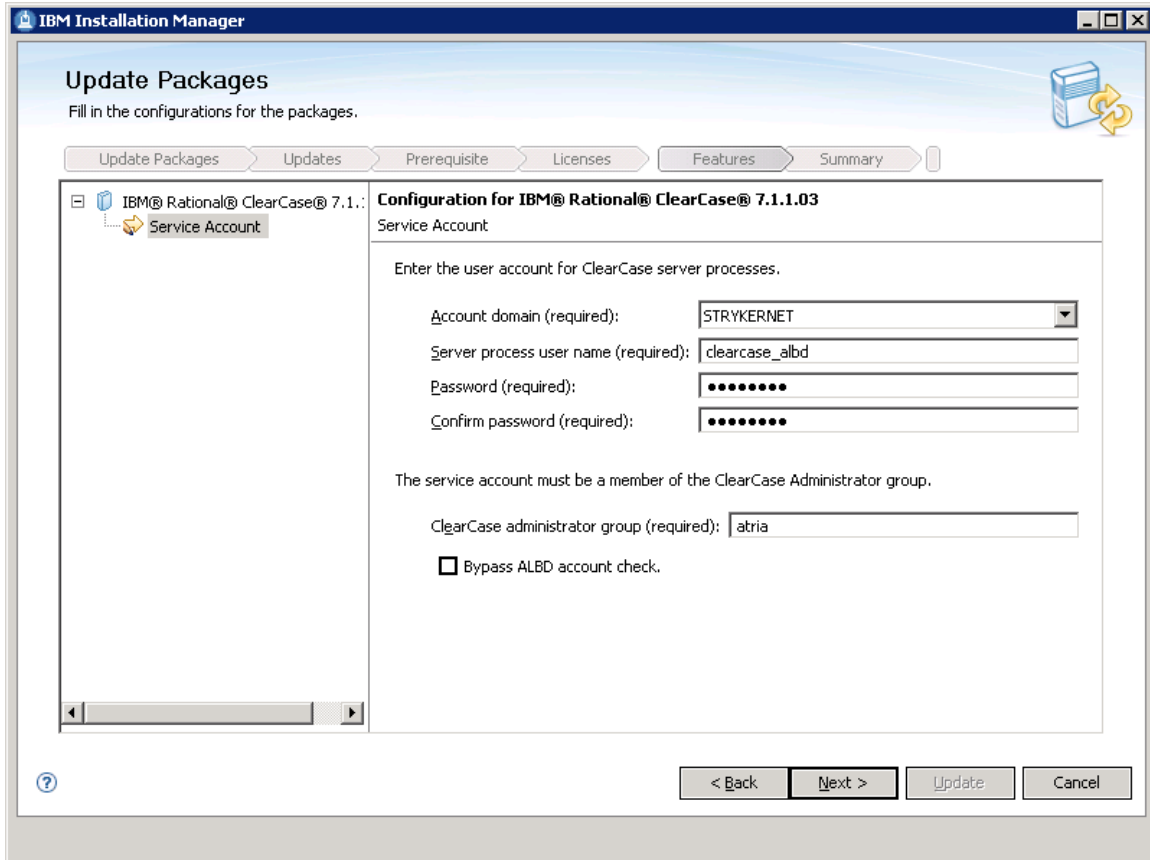
Respond to any warning about active applications causing a conflict with the install, and click Next.
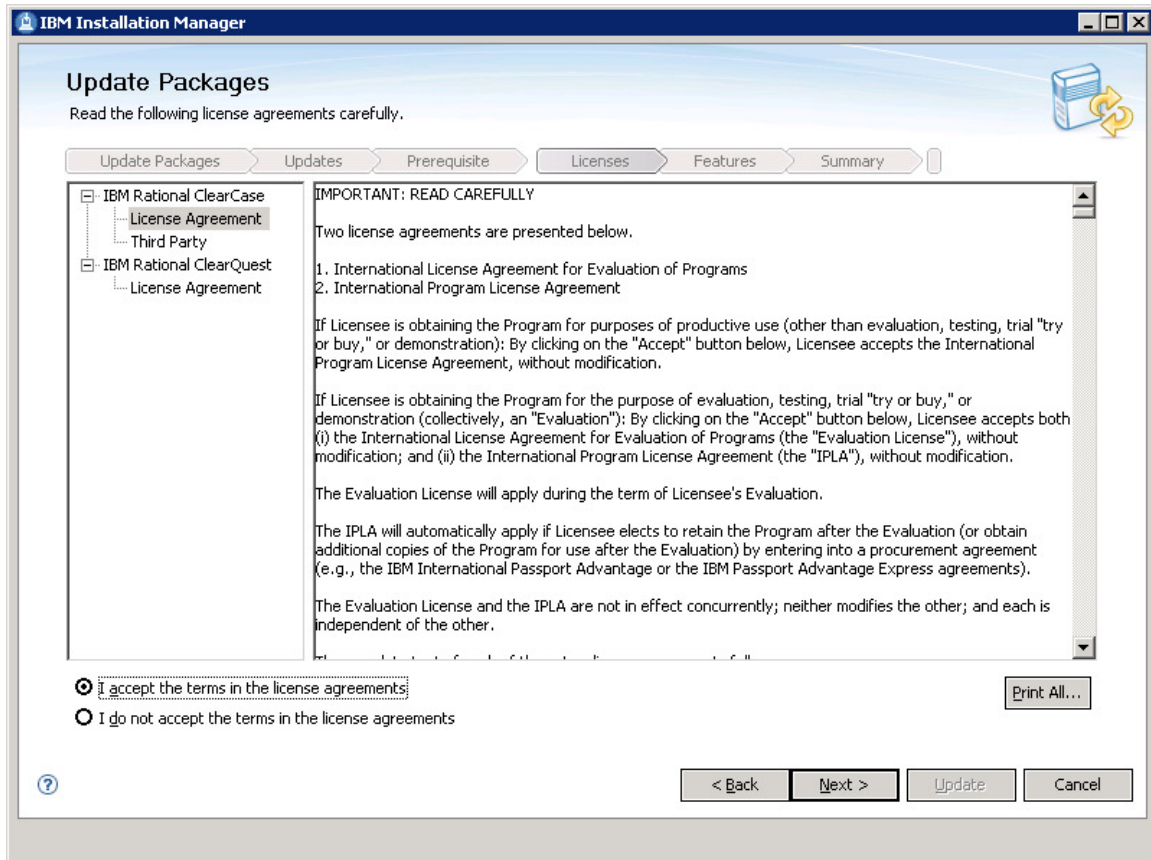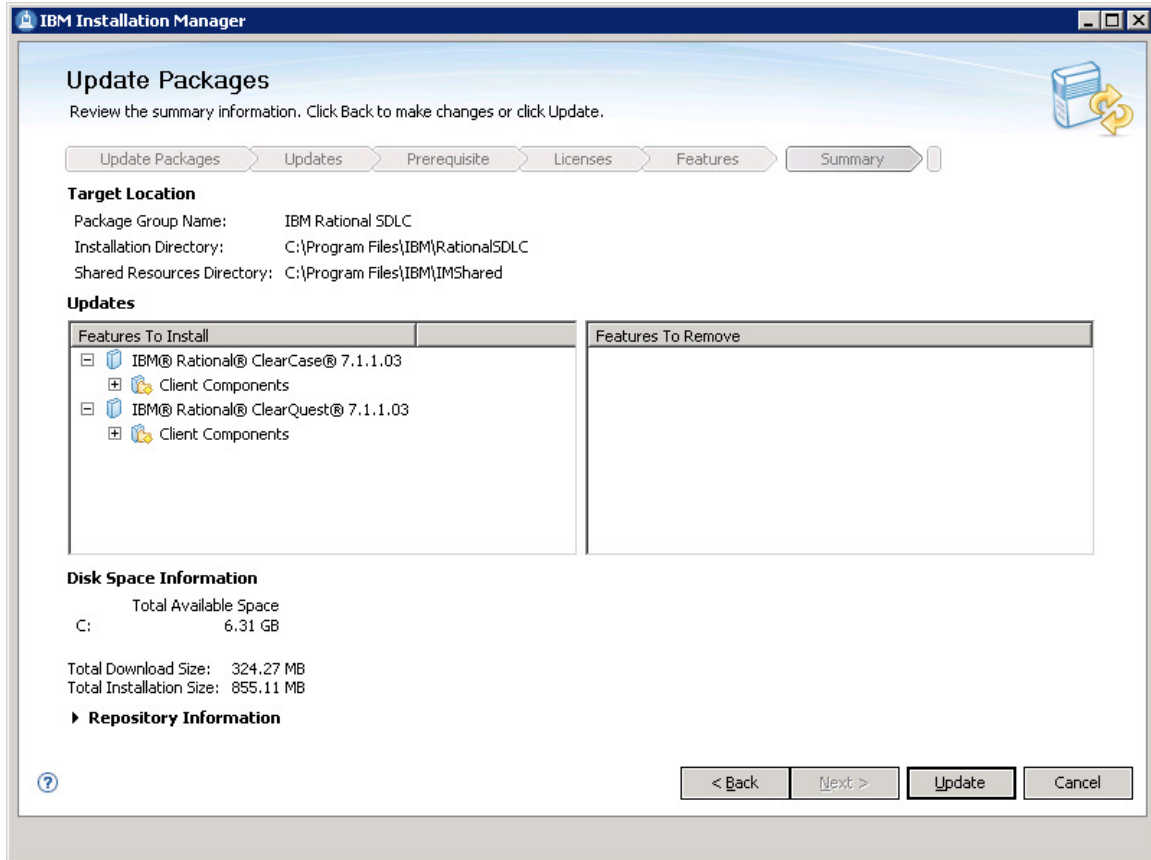
Accept the license agreements, and click Next.

It is possible to adjust which package features will be installed, or uninstalled. For our purposes, we will go with what has been previously selected. Click Next to continue.
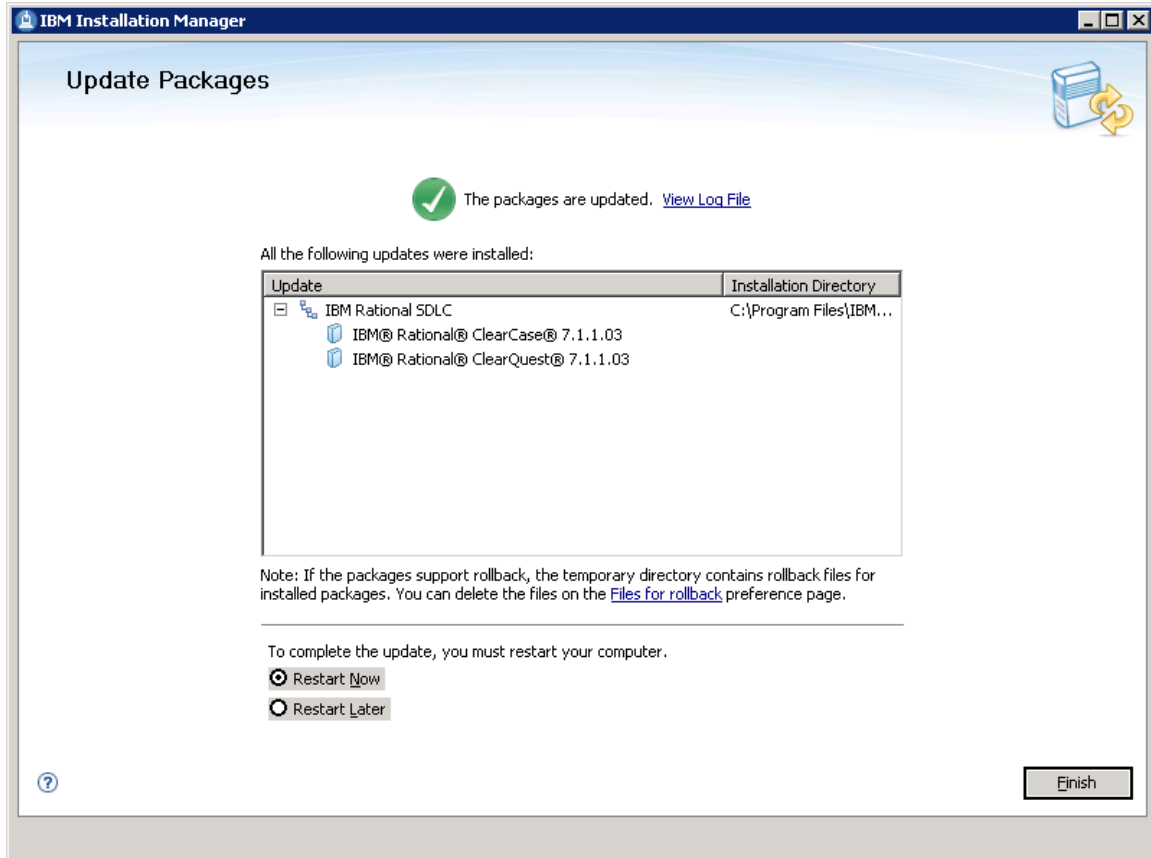
Click Next to accept the previously entered configuration information, and to continue.

Click Update to begin the install of the new patch levels.
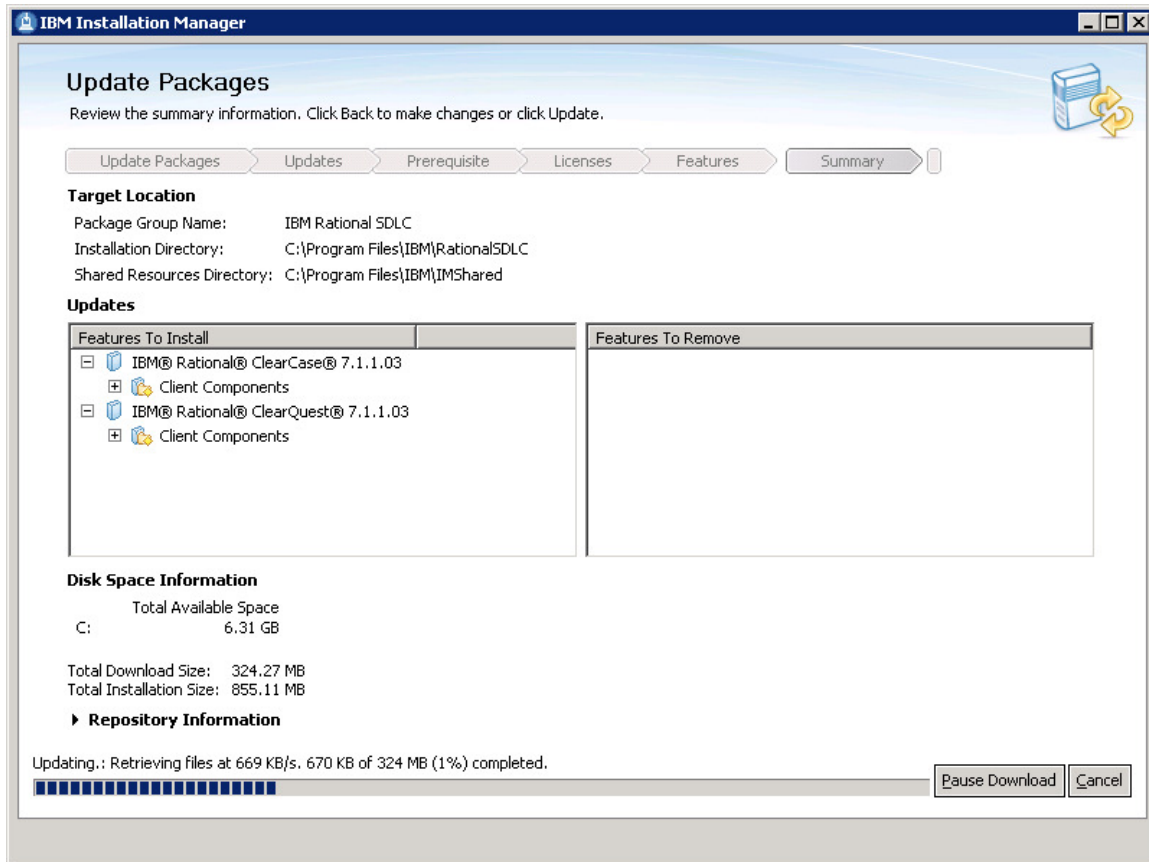
As before, the bar graph displays the progress with the update.

The update to Rational patch level 7.1.1.3 has completed. A system restart will be needed to finalize everything, which can be selected now, or postponed. In our case, click Finish to restart the machine.

We have now gone through the upgrade process to get us to Rational version 7.1.x from a version prior to 7.1. Other products can also be installed along with ClearCase and ClearQuest. This would make the example longer than it is, and the benefit would not be enhanced.

Also, as has been previously stated, much of this can be automated with response files, and a custom install area, tailored to the particular site. What we have viewed here constitutes a general upgrade case.