

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

Installing a Windows Based License Server for IBM Rational Tools

Ronald D. Ross (rross@spkaa.com)

In this article, we are going to have a look at how to setup a Rational license server on a Windows machine. As of this writing, the latest version or Rational License Key Server (RLKS) is version 8.1.1. There is also an Interim Fix (IFix) 3 which is available for RLKS 8.1.1 and is shown in the following example.

It also turns out that RKLS 8.1.1 is required in order to support Rational tools 7.1.2 and later. When Rational tools (such as ClearCase and ClearQuest) version 7.1.2 are installed, the license client software, also version 8.1.1, is now required to be installed separately (or at least in a separate repository) from the main applications. This client software, Rational License Key Administrator (LKAD), should not be confused with the server software, RLKS.

All of these various software packages, ClearCase/ClearQuest 7.1.2, RLKS 8.1.1, LKAD 8.1.1 are installed using IBM's Installation Manager utility. Installation Manager became available with the release of IBM Rational tools version 7.1. This new installation management methodology now handles all matters related to the installation and patching of IBM Rational software, and in spite of occasional glitches I've found it to be a great improvement from how things were done prior to Rational 7.1.

The first thing to do is to acquire the base version of any software we want to install. These can be downloaded from IBM and are shown in an example screenshot below:

😂 LicAdmin				
File Edit View Favorites Tools Help				
🌀 Back 🝷 🕥 🕘 🏂 🔎 Search 👔	Folders			
Address 🔁 \\europe\ccase_rls\ccase_7.1.2\LicAd	nin			🔽 🛃 Go
Folders	K Name 🔺	Size	Туре	Date Modified
Image: Constraint of the second se	 8.1.1-LKAD-Windows-IFix-003 8.1.1-RLKS-Windows-IFix-003 ratLicenseKeyServer-8-1-1_Windows ratLKAdministrator-8-1-1_Windows RLKS.8.1.1.Red_Hat_Linux_x86 8.1.1-LKAD-Windows-IFix-003.zip 8.1.1-RLKS-Windows-IFix-003.zip 8.1.1-RLKS-Windows-IFix-003.zip endovobeng01_CC2.upd endovobeng01_CC2.upd endovobeng01_CQ2.upd ratLicenseKeyServer-8-1-1_RHEL_x86.tar ratLicenseKeyServer-8-1-1_Windows.zip ratLKAdministrator-8-1-1_Windows.zip ratLKAdministrator-8-1-1_Windows.zip ratLKeyServer-8-1-1_RHEL_IPv6_x86.tar 	2,004 KB 2,003 KB 1 KB 2 KB 89,250 KB 145,553 KB 101,921 KB 89,250 KB	File Folder File Folder File Folder File Folder File Folder Compressed (zippe Rational License Up Rational License Up Visual Pax Archive Compressed (zippe Compressed (zippe Visual Pax Archive	7/20/2011 10:44 AM 7/20/2011 10:33 AM 7/20/2011 10:33 AM 4/26/2011 10:27 AM 4/26/2011 10:31 AM 5/27/2011 12:57 PM 7/20/2011 10:43 AM 5/26/2011 3:46 PM 7/14/2011 2:34 PM 4/19/2011 3:01 PM 7/20/2011 10:26 AM 4/19/2011 3:04 PM
13 objects			419 MB 🥞 L	ocal intranet



SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

We see marked in red, the Windows version of RLKS 8.1.1 (both zipped and unzipped folders) and also fix pack 3 for RLKS 8.1.1 (zipped and unzipped). Notice that similar folders and zip files are also present for the client machine licensing - LKAD 8.1.1.

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

The first step is to bring up Installation Manager (IM), seen in the screenshot above. We assume that this has been installed. If it has not, you might want to consult some of my previously published articles. Or, consult IBM documented sources, for that matter!

Anyway, once IM has been launched, we need to specify the package(s) that we will use IM to install. See the next screenshot.



Ph: 888-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

🚇 IBM Installation Manager					
File Help					
Open 🔸					
🥑 View Log	anager				
📃 Installation History					
📃 View Installed Packages					
Preferences Exit		Install Install software packages.			
	R	Update Discover and install updates and fixes to installed software packages.	Ga 🖌	Manage Licenses	
	-		1	Roll Back	
		Modify Change installed software packages by adding or removing features and functions.	~	Uninstall	
IBM.					

Pull down the File menu, and select Preferences to set the repository location(s).

Preferences				
type filter text	Repositories			⇔ - ⇔ - ▼
Repositories Appearance	Repositories:			
Files for Rollback	Location		Connection	Add Repository
 Internet Passport Advantage 				Edit Repository
Updates				Remove Repository
				Move Up
				Move Down
				Clear Credentials
				Test Connections
	Service repositories are remote locations where up	dates or extensions to packages (including the Install	ation Manager itself) are sto	ored. 💌
0			(OK Cancel

Under the Preferences panel, select Repositories in the upper left column, and click the Add Repository button on the right.



P11. 000-310-4340

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

Preferences		
type filter text	Pennsitories	\$ - \$ - -
- Appearance - Files for Rollback - Help - Internet	Add a repository Specify a repository and add to the repository preference list.	Add Repository
- Passport Advantage - Updates	Repository: \leurope\ccase_rls\ccase_7.1.2\LiCAdmin\ratLicenseKeyServer-8-1-1_Windows\RLKSSERVER_SETUP\ V Browse)	Remove Repository Move Up
		Move Down Clear Credentials
		Test Connections
		are stored.
0	OK Cancel	OK Cancel

After the Add button is clicked, a pop-up appears which allows us to browse to the location of the package(s) we are interested in. Usually any package will have a suffix of .inf or .config. Select the required package and click OK on the pop-up.

Preferences			
type filter text Repositories Appearance Files for Rollback Help B. Internet Passport Advantage Updates	Repositories Location V \leurope\ccase_rfs\ccase_7.1.2\LicAdmin\ratLicenseKeyServer-8-1-1_Windows\RLKSSERVER_SETUP\disk1\diskTag.inf V \leurope\ccase_rfs\ccase_7.1.2\LicAdmin\8.1.1-RLKS-Windows-TFix-003\lfitx\yepository.config	Connection	Add Repository Edit Repository Remove Repository Move Up Move Down Clear Credentials Test Connections
	Service repositories are remote locations where updates or extensions to packages (including the Installation Manager itself) are sto	ored.	
0			OK Cancel

Here we have selected both the RLKS package, and its Interim Fix (IFix) 3 package to install along with the main package. Click Test Connections first to insure that all packages are recognized, and then click OK to close Preferences.



P11. 000-3 10-4340

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

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	
	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

Now that we have specified the packages that we want IM to work with, click on the Install button on the main IM console. This will initiate the installation process, and the selected package(s) will be displayed. The next screenshot shows the RLKS package and version that will be used in this installation activity.

M Installation Manager			
Install Packages Select packages to install:			
Installation Packages	Status	Vendor	License Key Type
IBM® Rational® License Key Server Igl (2000) Igl (200		IBM	
		Charles	w Other Uniting String and Subscription
Show all versions		Check fo	r Other Versions, Fixes, and Extensions
Show all versions Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server <u>More info</u>		Check fo	r Other Versions, Fixes, and Extensions
Show all versions Details IBM® Rational@ License Key Server 8.1.1 IBM® Rational@ License Key Server <u>More info</u> • Repository: C:\DOCUME~1\rros\LOCAL5~1\Temp\cicvolcache_rr	ross\com.ibm.rational.license.key.server_8.1.	(Check fo .1.20100805_1553\md	r Other Versions, Fixes, and Extensions
Show all versions Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server <u>More info</u> • Repository: C:\DOCUME~1\rross\LOCAL5~1\Temp\cicvolcache_rr	ross\com.ibm.rational.license.key.server_8.1.	Check fo .1.20100805_1553\md	r Other Versions, Fixes, and Extensions



SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

In the prior screenshot, we saw the RLKS package, along with its version number, which IM is ready to use. Check the boxes next to RLKS and then click on the "Check for Other Versions, Fixes, and Extensions" button. We then see IM search for all the fix packages and other related content.

	Status	Ve	ndor	License Key Type
IBM® Rational® License Key Server	Will be i	installed IBM		
Pro	gress Information			
G	Getting packages from repository.			
	r			
		Ca	rel	
Show all versions			Check for Other	Versions, Fixes, and Extensions
etails				
BM® Rational® License Key Server 8.1.1				

Once this process is finished, we see the results in the next screenshot, where these results are announced.



PII. 000-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

Installation Packages		Status	Vendor	License Key Type
IBM® Rational® License Key Ser ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø ↓ Ø	ver	Will be installed	IBM	
	🛎 Search Result		×	
	Click Next to see all I	fixes for the selected packages.	ОК	
			Check for	r Other Versions, Fixes, and Extensions
Show all versions				
			Check for	r Other Versions, Fixes, and E

Above, we see the results of the search. The IFix 3 has been located and will be included in the list of packages to install. Click OK to proceed on to the next step.



FII. 000-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

nstall Packages		
elect the fixes to install.		1
		->L
Fixes	Recommended	Vendor
🖃 🔽 🕼 IBM® Rational® License Key Server 8.1.1		IBM
Show recommended only	Select Reco	mmended Check for Other Fixe
Show recommended only etails	Select Reco	mmended) Check for Other Fixe
]Show recommended only etails IM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Select Reco	mmended) Check for Other Fixe
Show recommended only etails IM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 is is an Interim Fix patch for IBM Rational License Key Server v. 8.1.1.0. <u>More info</u> Reporting Userrook 2012 (Science Fix 2013) (Science Fitz 2013) (Science Fit	Select Reco	mmended Check for Other Fixe
Show recommended only etails IM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 ris is an Interim Fix patch for IBM Rational License Key Server v.8.1.1.0. <u>More info</u> Repository: \\europe\ccase_rls\ccase_7.1.2\LicAdmin\8.1.1-RLKS-Windows-IFix-003\/fix.	Select Reco	mmended) (Check for Other Fixe

Above, both the base package of RLKS 8.1.1, and IFix 3 are located and displayed. Click Next to continue the installation.

IBM Installation Manager Install Packages Validate the prerequisites for the selected packages. Click th	he marked nodes for additional information about prerequisites.	
Install Prerequisite Licenses	Location Features Summary	
Validation Results		_
LUCISE ACY SERVER 0.1.1	SIOPI Before proceeding with this install, please close all applications and disable anti-virus software.	
	Recheck Statu	JS
	<back next=""> Install Ca</back>	ancel

In the screenshot above, make sure there are no outstanding prerequisites before continuing. Here, we might want to shut down any anti-virus software. Click Next.



www.spkaa.com

Ph: 888-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

nistan ruckuges	
Read the rollowing license agreements carefully.	
Install Prerequisite Licenses Location Feature	es Summary
international Program License Agreement	<u>^</u>
Part 1 - General Terms	
3Y DOWNLOADING, INSTALLING, COPVING, ACCESSING, CLICKING ON AN "ACCEPT" AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU R TERMS. IF YOU DO NOT AGREE TO THESE TERMS, DO NOT DOWNLOAD, INSTALL COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OL	BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS (EPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE R LISE THE REOGRAM: AND
DO NOT DOWNLOAD, INSTALL, COFT, ACCESS, CLICK ON AN ACCEST BOTTON, OF	
F THE PROGRAM WAS DOWNLOADED, DESTROY ALL COPIES OF THE PROGRAM.	LEMENT TO THE PARTY FROM WHOM IT WAS OBTAINED FOR A REFUND OF THE AMOUNT PAID.
1. Definitions	
Authorized Use" - the specified level at which Licensee is authorized to execute or run "MSUs"), Processor Value Units ("PVUs"), or other level of use specified by IBM.	the Program. That level may be measured by number of users, millions of service units
'IBM" - International Business Machines Corporation or one of its subsidiaries.	
License Information" ("LI") - a document that provides information and any additional an also be found in the Program's directory, by the use of a system command, or as a	terms specific to a Program. The Program's LI is available at www.ibm.com/software/sla. The LI i booklet included with the Program.
Program" - the following, including the original and all whole or partial copies: 1) maching	ne-readable instructions and data, 2) components, files, and modules, 3) audio-visual content
I accept the terms in the license agreement	Print All.
] I do not accept the terms in the license agreement	

Accept the license agreement, and then click Next.

	Installation Directory		
	C:\Program Files\IBM\Rationa	IRLKS	
	C:\Program Files\IBM\Packagi	ng Utility	
	C:\Program Hiles\IBM\Rationa	ISDLC	
	Disk Spac	e Information	
Shared	Volume	Available Space	
	C:	15.40 GB	
	NLKS.	Installation Directory C:\Program Files\IBM\Packagi C:\Program Files\IBM\P	Installation Directory C:\Program Files\IBM\RationalRLKS C:\Program Files\IBM\RationalSDLC LKS Disk Space Information Shared Volume Available Space C: 15.40 GB

We see here that RLKS will be installed in a separate package group. Click Next to proceed to the next screen.



PII. 000-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

A Installation Manager	
Install Packages	
Select the features to install.	1
Install Prerequisite Licenses Location Features Summary	
Features	
☐ Show dependencies ☆- Selected by Installation Manager because of dependencies	Expand All Collapse All Restore Default
Show dependencies %- Selected by Installation Manager because of dependencies Details	Expand All Collapse All Restore Default
Show dependencies Show dependencies Selected by Installation Manager because of dependencies Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server	Expand All Collapse All Restore Default
Show dependencies Selected by Installation Manager because of dependencies Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server	Expand All Collapse All Restore Default
Show dependencies Selected by Installation Manager because of dependencies Details IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server	Expand All Collapse All Restore Default

Since RLKS doesn't have any options to include or exclude from an installation, there is nothing further to do here except to click Next.

Install Dackages		-
Review the summary information.		2
Install Prerequisite Licenses Location Feat Target Location Package Group Name: IBM Rational RLKS Installation Directory: C:\Program Files\IBM\Shared	ures Summary	
Packages		
IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server 8.1.1 IBM® Rational@ License Key Server 1.1 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_115	2	
[10M@ Rational@ License Key Server 8.1.1 [10] IBM@ Rational@ License Key Server 8.1.1 [10] IBM@ Rational License Key Server Interim Fix 03 1.0.0.20110214_115	2	
[I] IBM® Rational@ License Key Server 8.1.1 [I] IBM® Rational@ License Key Server 8.1.1 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_15 [I] IBM® Ratinal License Key Server Interim Fix 03 1.0.0.20110214 [I] IBM®	2 Disk Space Information	
[I] IBM@ Rational@ License Key Server 8.1.1 [] IBM@ Rational@ License Key Server 8.1.1 [] IBM@ Rational License Key Server Interim Fix 03 1.0.0.20110214_115 [] IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_115 Environment English	2 Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB Total Download Size: 42.53 MB	
G IDM® Rational@ License Key Server 8.1.1 BM® Rational@ License Key Server 8.1.1 IBM® Rational License Key Server Interim Fix 03 1.0.0.20110214_115 Environment English Repository Information	2 Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB Total Installation Size: 109.03 MB	
IDM® Rational@ License Key Server 8.1.1 IDM® Rational@ License Key Server 8.1.1 IDM Rational@ License Key Server Interim Fix 03 1.0.0.20110214_115 Environment English Repository Information	2 Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB Total Installation Size: 109.03 MB	Caper

We are now ready to proceed with the actual installation of RLKS. Click Install and the process will begin.



FII. 000-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

Install Packages Review the summary information.		
Install Prerequisite Licenses Location Features	Summary	-
Target Location Package Group Name: IBM Rational RLKS Installation Directory: C:\Program Files\IBM\RationalRLKS Shared Resources Directory: C:\Program Files\IBM\Shared Packages		
Packages		-
IDM® Rational@ License Key Server 8.1.1 Imm® Rational@ License Key Server 8.1.1 Imm® Rational@ License Key Server 8.1.1 Imm® IDM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152		
 □ [1] IBM® Rational® License Key Server 8.1.1 ● [6] IBM® Rational® License Key Server 8.1.1 □ [7] IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 		
IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server Interim Fix 03 1.0.0.20110214_1152 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152	Disk Space Information	
IBM® Rational@ License Key Server 8.1.1 IBM® Rational@ License Key Server 8.1.1 IBM® Rational@ License Key Server Interim Fix 03 1.0.0.20110214_1152 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 Environment English	Disk Space Information Total Available Space C: 15,40 GB	
IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server 8.1.1 IBM® Rational® License Key Server Interim Fix 03 1.0.0.20110214_1152 IBM Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 Environment English	Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 12.53 MB Total Installation Size: 109.03 MB	
Torman Server 8.1.1 Torman Server 8.1.1 Torman Server 8.1.1 Torman Server 8.1.1 Torman Server Interim Fix 03 1.0.0.20110214_1152 Environment English Repository Information	Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB Total Installation Size: 109.03 MB	
Tervironment English Repository Information	Disk Space Information Total Available Space C: 15.40 GB Total Download Size: 42.53 MB Total Installation Size: 109.03 MB	

Here we see the installation process proceeding as depicted in the bar graph. This will continue until the install has completed, as shown in the next screenshot.

BM Installation Manager	
Install Packages	-
The packages are installed. <u>View Log File</u>	
The following packages were installed:	
 ➡ %_ IBM Rational RLKS ➡ 10 IBM @ Rational@ License Key Server 8.1.1 ■ 10 IBM @ Rational License Key Server Interim Fix 03 1.0.0.20110214_1152 	
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

The install for RLKS 8.1.1 and Interim Fix 3 has completed. Click Finish to proceed.



P11. 000-310-4340

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

IBM Installation Manager File Help			_ 🗆 🗙
IBM Installation Manager			
2	Install Install software packages.		
	Update Discover and install updates and fixes to installed software packages.	Manage Licenses	
P	Modify Change installed software packages by adding or removing features and functions.	Uninstall	
IBM.			

Once the installation in question has been completed, we return to the original IM screen. We are done with the install, so we can now exit IM.

The next set of screenshots depicts how to use the RLKS which we have just installed to actually setup and serve licenses to client machines. In our present example, the same machine will be used as both the server and client, but the mechanics are identical regardless of whether the client machine serves licenses to itself, or if the licenses are served to the client from some other machine.

What this means is that both RLKS and LKAD are active on the client machine. We will see examples of the use of both the server and client software, respectively, in the upcoming screenshots.



www.spkaa.com

Ph: 888-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008



The first thing to do is to start up the RLKS software. The screenshot above shows both RLKS (License Tools) and LKAD (License Key Administrator) in the same folder. We will launch RLKS.



SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

LMTOOLS by Flexera Software, Inc.
File Edit Mode Help
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing
Services allow FLEXnet Servers to run in the background.
C Configuration using License File
Configuration using Services FLEXIM License Manager LMTOOLS ignores license file path environment variables

Above we see RLKS 8.1.1 after it is launched. As of yet we have no license file to use in serving licenses, and we must request a license file from the vendor. First, click on the System Settings tab to obtain the necessary information for the vendor to issue licenses.

LMTOOLS by Flexera Software, Inc.	
File Edit Mode Help	
Service/License File System Settings Utilities Start/Stop/R	eread Server Status Server Diags Config Services Borrowing
Hostid Settings	Time Settings
Computer/Hostname Britain	System Time Zone Pacific Standard Time
Username rross	GMT Time Fri Jul 22 15:05:04 2011
CPU ID	Difference From UCT 480
IP Address 10.22.10.78	MSDOS Time 08:05:04
Disk Volume Serial	Local Time 1311347104
Number FLEXID	Windows Directory C:\WINDOWS
	Save HOSTID Info to a File

The vendor will need both the hostname and Ethernet address to generate a license. Pass these along to the vendor, and wait to receive a license file.



www.spkaa.com

Ph: 888-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008



Above we see the file received from the vendor, and the location in which it was installed to be referenced later by RLKS.

🖡 BRITAIN.upd - Notepad	
File Edit Format View Help	
<pre>####################################</pre>	~
INCREMENT ClearCase rational 1.00000 17-jun-2012 2 627B90A14043 \ VENDOR_STRING="0 Floating 0 ClearCase:1.0" DUP_GROUP=U \ vendor_info="0 IBM Rational ClearCase Floating License Key \ (FLEX1m license manager) 0" ISSUED=22-jul-2011 NOTICE="Sales Order Number: 0081005170 for Sirius Computer Solutions, Inc." ck=72 SN=5721178	
	>

Here are the contents of the license file. Note that both the hostname and Ethernet address are a necessary part of the license file structure.



1 11. 000-310-4340

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

LMTOOLS by Flexera Software, Inc.
File Edit Mode Help
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing
Configure Service Service Service Remove Service
Path to the Imgrd.exe file m Files\IBM\RationalRLKS\common\Imgrd.exe Browse
Path to the license file ationalRLKS\common\rational_server_temp dat Browse
Path to the debug log file C:\Program Files\IBM\RationalRLKS\common\I Browse View Log Close Log
Start Server at Power Up

Click on the RLKS Config Services tab. Enter the name of the new vendor license file.

LMTOOLS by Flexera Software, Inc.	
File Edit Mode Help	
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Bo	rrowing
Configure Service Save Service Save Service Remove Service Remove Service	e
Path to the Imgrd.exe file m Files\IBM\RationalRLKS\common\Imgrd.exe Browse	
Path to the license file liles\IBM\RationalRLKS\common\BRITAIN.upd Browse	
Path to the debug log file C:\Program Files\IBM\RationalRLKS\common\I Browse View Log	ise Log
I Start Server at Power Up I Ise Services	

Once we have the correct license file specified, click Save Service to commit the change.



1 11. 000-010-4040

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

LMTOOLS by Flexera Softwa	ire, Inc.					
File Edit Mode Help						
Service/License File System Se	tings Utilities Start/Stop/Reread Server Status Server Diags Confi	g Services Borrowing				
Configure Service Service Name	FLEXIm License Manager	Save Service Remove Service				
Path to the Imgrd.exe file	C:\Program Files\IBM\RationalRLKS\common\] Browse					
Path to the license file	iles\IBM\RationalRLKS\common\BRITAIN.upd					
Path to the debug log file	C:\Program Files\IBM\RationalRLKS\common\1 Browse View	v Log Close Log				
J✔ Start Server at Po	wer Up Would you like to save the settings for the service: FLEX	OOLS by Flexera Software, Inc.				
	Yes No Canc	el				

Give assent to the changes by clicking Yes on the pop-up that appears.

LMTOOLS by Flexe	era Software, Inc.						
File Edit Mode He	elp						
Service/License File	System Settings Utilities	Start/Stop/Reread	Server Status	Server Diags	Config Services	Borrowing	
FLEXnet license services installed on this computer							
	Start Server	Stop 9	erver	ReRe	ad License File		
	Advanced settings >>	☐ Force Se NOTE: This when license	rver Shutdown box must be cheo s are borrowed.	Left to shut do	own a license servi	J er	
Using License File: C:\Program Files\IBM\RationalRLKS\common\BRITAIN.upd							

Then click on the Start/Stop/Reread tab, and click ReRead License File. This will cause the licenses to be imported into RLKS, after which they can be served out to client machines.



1 11: 000 010 4040

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

LMTOOLS by Flexera Software, I	nc. 📮 🗖 🔀
File Edit Mode Help Service/License File System Settings	Utilities Start/Stop/Reread Server Status Server Diags Config Services Borrowing FLEXnet license services installed on this computer FLEXING License Manager
Start Server Advanced setting Reread Server License File Completed	Stop Server ReRead License File Force Server Shutdown NOTE: This box must be checked to shut down a license server when licenses are borrowed.

Note the text outlined in red, which acknowledges that we have reread the license file. We are now ready to start the license server and inspect the client LKAD software for the presence of valid licenses.

LMTOOLS by Flexera Software, Inc.							
File Edit Mode Help							
Service/License File System Settings Utilities Start/Stop/Reread Server Status Server Diags Config Services Borro	wing						
FLEXnet license services installed on this computer FLEXIm License Manager							
Start Server Stop Server ReRead License File Advanced settings >> Force Server Shutdown NOTE: This box must be checked to shut down a license server when licenses are borrowed.							
Server Start Successful.	_						

Click on Start Server, and note that RLKS started successfully.



PII. 000-310-4540

SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

S IBM Rational License Key Administ	rator						
File View License Keys Settings Help							
Product		License Typ	e	Expiration	License Term	Qty	
Client/Server Configuration			×				
I Use License Server Search Order:	Settings:	Watara					
	Server Type	Single					
Down	Server Name	britain					
	Port	27001					
			Server License	s			X
Add Server	Sho	w Licenses	Server Licenses of Server	an only be modifie	d from the License	Administrator runni	ng on the License
Remove Server	or	Connel	This read-only dis	play is here for you	r information only.	Lissues Tures	Contration
			2 IBM Ra	tional ClearCase Fl	loating License	Floating	17-jun-2012
			<				>
					Close]	
Ready			DISPLAT F	ILTER IS OFF			

Above we have the client machine LKAD panel. Pull down the Settings menu, and select Client/Server Configuration. We first configure the server and port number in LKAD. We then click on Show Licenses and we can see in the subsequent pop-up the licenses that were contained in the license file that we received from the vendor and imported.

N IBM Rational License Key Administrator				
File View License Keys Settings Help				
<u> 4 Se 6 19 ?</u>				
Product	License Type	Expiration	License Term	Qty
BM Rational ClearCase Floating License Key (FLEXIm license manager)	Served by britain	17-JUN-2012	Temporary	2
Ready	DISPLAY FILTER	is OFF		

Close all the pop-ups, and now we see the licenses that the client machine recognizes.



SPK and Associates 900 E Hamilton Ave, Ste.100 Campbell, CA 95008

If there were multiple servers available, LKAD could be configured to use any available servers, and the results would be displayed in the main window for the application.

This concludes our topic on setting up RLKS 8.1.1, along with a few tips on LKAD 8.1.1. Both can be on a single machine, which would make the machine both server and client, as shown in our example. Perhaps more common would be the case where RLKS is installed on a generic license server, which contains license software for other vendors and products, the machine being dedicated only to the task of serving licenses.

LKAD is required when installing Rational tools on a client machine. This is the communications link to the license server, and the Rational applications (ClearCase, ClearQuest, etc) communicate with LKAD in order to access the licenses which are being provided by the RLKS server.

As stated earlier, prior to version 8.1.1, LKAD was installed as part of the application package group. With the arrival of Rational 7.1.2, LKAD has been separated out and is now installed in its own package group. This is probably a better idea, since application packages can be installed and removed without affecting the LKAD which is installed on the client machine.