

IBM Rational License Key Server V8.1.3

Overview of changes in V8.1.3



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This is an overview of the changes in version 8.1.3 of IBM Rational® License Key Server.

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This overview presents specific improvements introduced to Rational License Key Server version 8.1.3, including changes to logging and installation.

Logging improvements (1 of 4)

- Well-structured logging by Rational common licensing clients
- Captures all the important activities going on behind the scene
- Browser viewing with XML output and style sheets
- Easily accessible and readable
- Reduces overhead when troubleshooting licensing problems

In version 8.1.3, detailed logging information is enabled for Rational common licensing clients. Version 8.1.3 of Rational License Key Server captures all the necessary information about background activities that occur when serving the license keys to the clients. Logs are in XML format and are provided with style sheets, making them viewable in web browsers. This allows you to review these logs easily and more efficiently when you must troubleshoot a potential problem.

Logging improvements (2 of 4)

- The configuration file included with products: **RCL_Log_Config.txt**
- Parameter usage explained in the configuration file
 - Location =
 - Product =
 - Version =
 - Size =
 - LogLevel =
 - TraceLevel =
 - MaxFiles =
 - EnableLogging =
 - EnableTracing =

A configuration file controls the logging information for Rational License Key Server. It is included in the installation directory of applicable Rational products. The file contains information on how to use the parameters seen here.

Logging improvements (3 of 4)

- Example configuration parameters:

```
Location = C:\documents  
Product = Rational Clearcase  
Version = 1.0  
Size = 1  
LogLevel =  
TraceLevel =  
MaxFiles = 3  
EnableLogging = 1  
EnableTracing = 0
```

- Format for the file name of the generated log:

```
RCL_API_Log_<Product Name>_<Product Version>_<Process_ID>_<SequenceNo>.xml
```

Here is an example set of parameters for the configuration file, based on IBM Rational ClearCase®. Also seen here is the formatting of the file name for the generated log.

Logging improvements (4 of 4)

- Example log output:

RCL Log for Product "Rational_Clearcase" Version "1_0"

TimeStamp	Event	MessageId	Severity	MessageText	MessageDescription	UserAction
2012-04-05T09:27:03+05:30	t1_CheckDisconnectedUsage	CRALU0031I	Info	Disconnected Usage Check enabled	A check will be done to find if the product can be used when License Server is not available.	None
2012-04-05T09:27:03+05:30	t1_DoHeartbeat	CRALU0016I	Warning	Connection to the license server restored.	Products that require licenses might be available.	None
2012-04-05T09:27:05+05:30	t1_IsFeatureAvailable	CRALU0026E	Error	Feature [testFeat] not served by the license servers	None of the available license servers are serving the feature	Contact your administrator
2012-04-05T09:27:08+05:30	t1_CheckoutName	CRALU0008E	Error	Failed to check-out a license for the feature [testFeat] and version 1.0	You cannot use the feature.	None
2012-04-05T09:27:08+05:30	t1_CheckoutName_ibmRat1	CRALU0011I	Info	Disconnected mode is not allowed.	You can use a license in disconnected mode for three days from the day and time you checked	None

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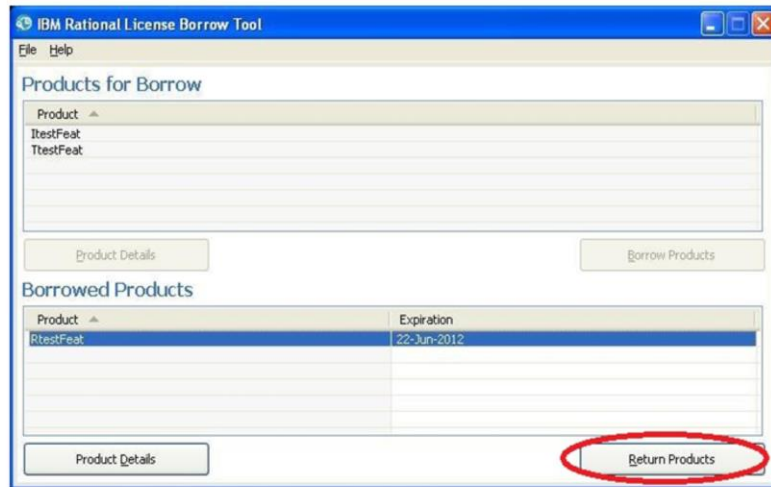
Using the same example, here is the browser view of the log. The log shows what is happening with Rational ClearCase licensing in the background process of the license server.

Early return of borrowed licenses (1 of 3)

- IBM Rational License Borrow Tool updated for V8.1.3
 - Early Return of Borrowed products
 - Supported for 'Borrow enabled' floating licenses
- Works with Rational License Key Server V8.1.2 and later

Version 8.1.3 of Rational common licensing supports the early return of borrowed license keys. In case you have borrowed a license key for a greater duration than you require, the Rational License Borrow Tool for version 8.1.3 provides you the option to return the license. You do not have to wait until the borrow end date for the license to be checked back in to the license pool.

Early return of borrowed licenses (2 of 3)



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The version 8.1.3 Rational License Borrow Tool has the “Return Product” button enabled and available when you select one borrowed product from “Borrowed Products” table. Clicking this will ask you to confirm the action before completing the check in.

Early return of borrowed licenses (3 of 3)

```
1 #Evaluation
2 SERVER this_host ANY 27000
3 VENDOR ibmratl
4 VENDOR telelogic
5 VENDOR rational
6 INCREMENT TtestFeat telelogic 1.00 1-jan-2013 5 ISSUER=IBM \
7   ISSUED=17-Sep-2010 BORROW=2160 SIGN2="1E04 86C9 19F0 56EA 9BBA \
8   61CB 97A5 00B9 0DF5 31D3 06D1 8C5D 3E79 6D75 287D 104E 6AF4 \
9   B0C3 EBB6 3AED AE76 95DD C662 1E5C 4696 16E2 88AB 18CF FAA9 \
10  0AA3"
11 INCREMENT RtestFeat rational 1.00 1-jan-2013 5 B893243A7806 \
12   ISSUER=IBM ISSUED=17-Sep-2010 BORROW=2160
13 INCREMENT ItestFeat ibmratl 1.00 1-jan-2013 5 ISSUER=IBM \
14   ISSUED=17-Sep-2010 BORROW=2160 SIGN="008E 85B1 F88C D17F E212 \
15   707C E562 A600 0B62 63B1 2354 6197 1E13 157E A6F3"
16 EXCLUDE_BORROW TtestFeat
17
```

This is a sample floating license key that supports the borrowing feature. Circled parameters show that the borrow value is 2160. That value is in hours, so the borrowing period for the license is 90 days.

Install on UNIX platforms using IBM Installation Manager (1 of 3)

- IBM Installation Manager based install of Rational License Key Server on UNIX
- Replaces command line installation, though it is still available
- Affects both installation and uninstallation
- Requires at least Installation Manager V1.5.2

Starting in version 8.1.3, you can use IBM Installation Manager to install and uninstall Rational License Key Server on UNIX platforms. While this is now the primary installation method, the command line install script is still available.

Install on UNIX platforms using IBM Installation Manager (2 of 3)

- Only one Rational License Key Server on one UNIX server
- Option to start the license server at the end of the installation
- Desktop menu links for server start and stop on KDE or GNOME
- Xterm window shows server start or stop status

You can only have one instance of Rational License Key Server installed on the server host. At the end of the IBM Installation Manager based install process, you are prompted to automatically start the server. Another advantage of using IBM Installation Manager is the menu links for server starting and stopping available on KDE and GNOME desktops. When starting or stopping the server, an Xterm window shows you the status.

Install on UNIX platforms using IBM Installation Manager (3 of 3)

- Upgrading to Rational License Key Server V8.1.3
 - No automatic upgrade process
 - Backup the license key file used by older version
 - Uninstall the older version of Rational License Key Server
 - Start the installation of V8.1.3 with IBM Installation Manager
 - Use the backed up license file in the **Configuration** section the V8.1.3 installation

If you are intending to upgrade your license server from a previous version to version 8.1.3, know that there is no automatic upgrade process. You must first backup the license file and uninstall the older version. When you install Rational License Key Server version 8.1.3 using IBM Installation Manager, you can restore the backed up license key file in the “Configuration” section of the installation process.

Changes to supported platforms and fixed defects

- Newly Added Platform: **IBM AIX® 7.1**
- **HP RISC** no longer supported as of V8.1.3:
<http://www.ibm.com/support/docview.wss?uid=swg21591603>
- Defect fixed:
 - Usage of permanent licenses with no expiration date on Rational License Key Server V8.1.3 for UNIX causes the license server to show the license as expired
 - Fixed in V8.1.3-iFix01:
<http://www.ibm.com/support/docview.wss?uid=swg24033026>

Starting in version 8.1.3, there is support for the IBM AIX version 7.1 operating system. As of this release, there is no longer support for HP RISC. There is an iFix01 update that fixes an issue regarding permanent licenses with no expiration date. See the Technotes linked here for more information on these changes.

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