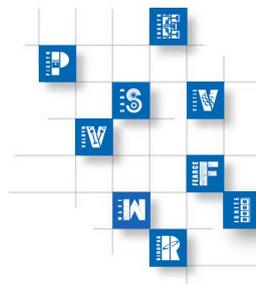


Installation Guide



Version 2018.1

June 2018

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1. Overview

Ricardo Software is available for installation via two methods:

1. Web Download (recommended)
2. Media (e.g. pre-downloaded files or provided DVD media)

To install the software you need simply run a single installation executable (available for download from www.software.ricardo.com) and follow the prompts.

When installing using the web download method, a user account for the Ricardo Software Support website is required and that account must have download privileges. Please contact Ricardo Software Support via e-mail at RS_Support@ricardo.com to request an account. Access through internal proxy servers to download external content is also required (relevant proxy server information).

Upon special request, software may be delivered via DVD or other electronic media or posted for download via an FTP account. Please speak to your Ricardo Software representative to make these requests.

Ricardo Software strongly suggests that you upgrade to the latest version of our software, if you have not already done so.

1.1. Product Software

The Ricardo Software installation executable will install all selected software products. The Ricardo Software products include:

- ENGDYN
- FEARCE
- IGNITE
- PISDYN
- RINGPAK
- SABR
- VALDYN
- VECTIS
- WAVE

A set of common utilities is installed when any of the above products (except SABR) is selected for installation, including:

- ISIS
- RAPID
- R-Desk
- RPlot
- SDFBrowser

Each installed version will create its own sub-directory. An example installation tree is shown below for a Windows installation where the Ricardo Software products are installed into the default directory of `C:\Program Files\Ricardo\`:

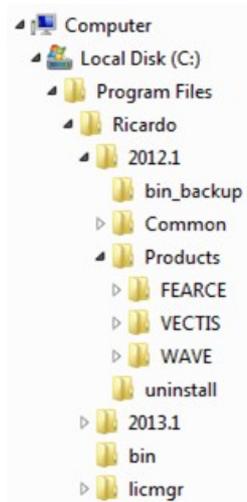


Figure 1.1: Products installed in default directory

The `bin` directory at the top level of the installation directory will always be created when any Ricardo Software product is installed.

The `licmgr` directory at the top level of the installation directory will be created if the license manager software is installed.

1.2. License Manager

The Ricardo Software License Manager (RLM) is a FlexNet-based licensing system that controls the execution of licensed Ricardo Software products. It will run independently of any other existing FlexNet license manager for software products from other vendors.

Each Windows client machine must have the product(s) installed individually, but does not necessarily need the License Manager software. It is only required if the system will be serving licenses.

For license serving, the License Manager software should be installed on a central machine, accessible to every user. In addition, the License Manager software may need to be installed on laptops that are detached from the network and have their own license server.

The Ricardo License Manager will create its own directory upon installation (named `licmgr`). It is recommended that it be installed in the same location as any other Ricardo Software products on the same Windows PC or Linux network.

2. What do you need to install?

There are three typical scenarios for which different Ricardo Software installations are required. Please read the following summaries before proceeding, to better understand what you should install.

1. License Manager only (recommended for centralized servers in a networked environment)

Typically for IT administrators who maintain a central license server to manage Ricardo Software licenses for end users on a group of networked machines. The server on which the license manager itself is installed will not need to run any Ricardo Software programs.

2. Product Software only (recommended for end users in a networked environment)

What the end user should select in a networked environment where a centralized server is used (i.e. Option 1, above) to manage licenses.

3. License Manager + Product Software (recommended for stand-alone users)

Typically for centralized software servers and stand-alone machines (e.g. detachable resources such as laptops) which will be used both to run Ricardo Software products and to manage licenses for itself as well as any networked machines.

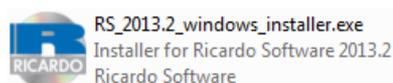
3. Installing Software

3.1. Windows

Warning

Administrator privileges are required to install Ricardo Software products.

The installation executable file name for Microsoft Windows installation is in the following format:



RS_2013.2_windows_installer.exe

RS – Ricardo Software

2013 – Year of release

.2 – Release number in the calendar year

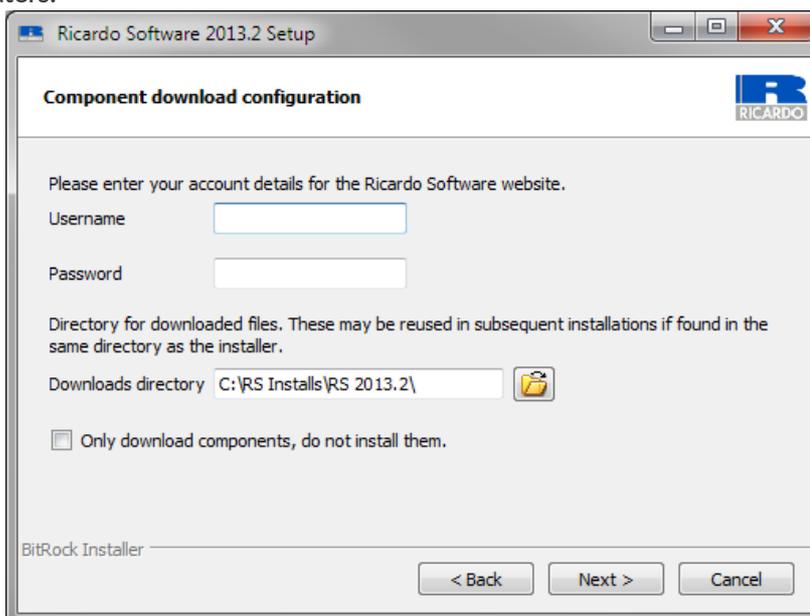
windows – platform of the installer

1. It is **strongly recommended** that you exit all other programs prior to installation. Begin the installation process by either executing the downloaded installation program file or by placing the installation media (CD/DVD) in the drive. For CD/DVD installations, the AutoPlay feature should start the process or, if AutoPlay is disabled, double-click the drive containing the installation media.
2. This is the first screen you will see. Select **Next >** to continue.

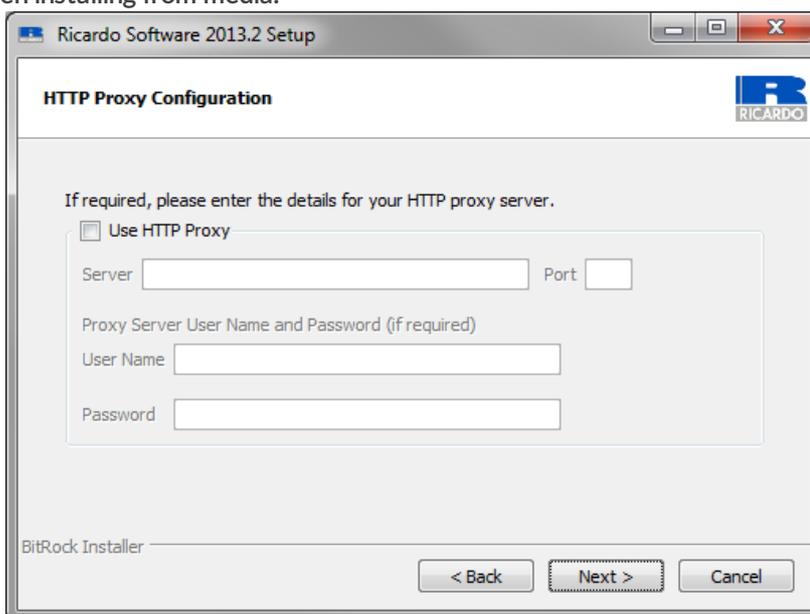


3. Enter your Ricardo Software Support account credentials and specify a directory to which the downloaded files will be saved.
 - If the installer detects previously-downloaded installation files in the current directory, it will assume you are installing from media and this step will be skipped. To re-download any/all components for which you are licensed, run the installer from a directory **not** containing any downloaded component files.
 - The account details provided must allow product downloads.
 - The “Downloads directory” will default to the current directory in which the installer resides. This enables re-running the installer later without having to re-download any installation components.
 - If a “Downloads directory” is entered that doesn’t already exist, it will be created for you.

- Checking the “Only download components, do not install them.” option will continue to download all selected components and then exit without installing any software. This is useful when downloading files to install at a later time or on other computers.



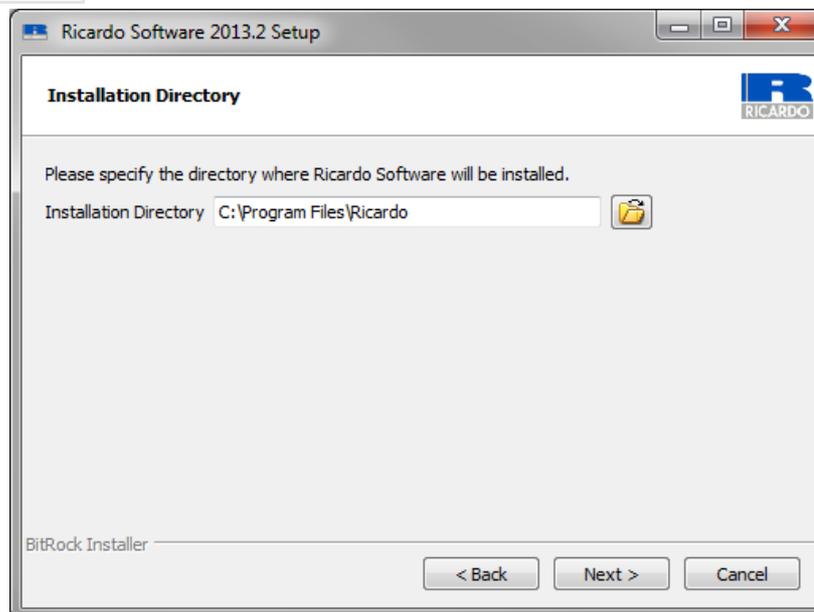
4. If required by your network, enter information for your HTTP proxy server in order to access the internet. For help with determining your proxy information, please see [Determining Proxy Settings](#).
 - This step is skipped when installing from media.



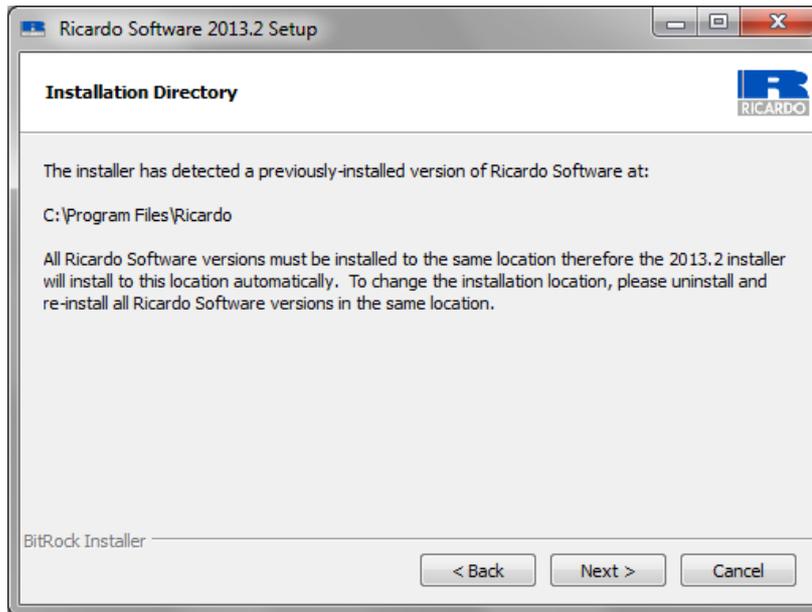
5. It is important that you read and accept the License Agreement presented on this screen. When finished, select **I accept the agreement** to continue with the installation. Selecting **I do not accept the agreement** will not allow you to continue with the installation and will prompt to terminate the installation process.



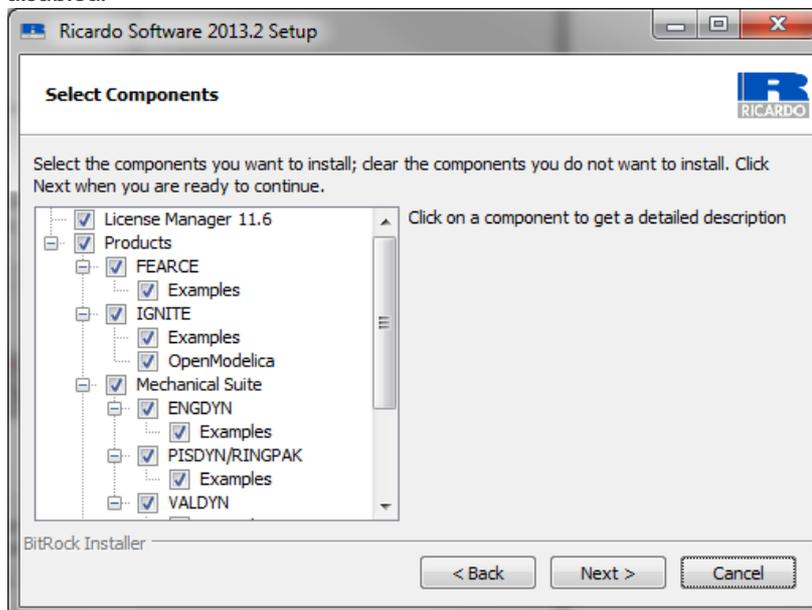
6. Specify where you would like the software to be installed and select **Next >** to continue. By default the installer will select `C:\Program Files\Ricardo`.



If the installer detects any previously-installed Ricardo Software products, it will not allow you to select a different location and will always install to the same location as the previously-installed Ricardo Software products. In that case, the panel will appear as below:



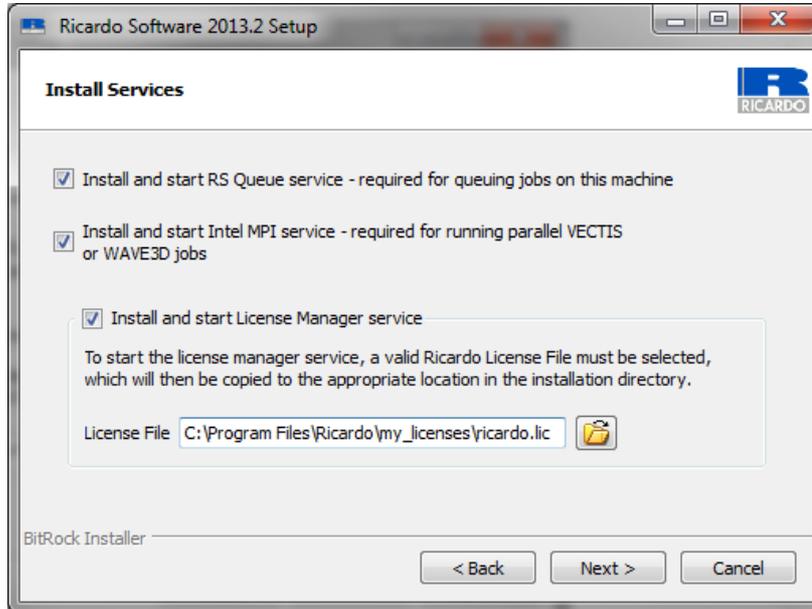
7. Select the software to install and select **Next >** to continue. By default, the License Manager option is deselected and all products are selected.
 - When installing from the internet, only the software products for which you are currently licensed (according to the account used to access the Ricardo Software Support website) are listed.
 - If the installer detects previously-downloaded installation files in the current directory, only those software products which have the relevant components present in the current directory will be displayed. To re-download any/all components for which you are licensed, run the installer from a directory **not** containing any downloaded component files.
 - If the installer detects that the same version of the License Manager is already installed and running, the License Manager option will be disabled.



8. If any product other than SABR is installed, you will be prompted whether or not to install the RS Queuing service (you will not be prompted if *only* SABR is installed).
 If either VECTIS or WAVE products were selected for installation, you will also be prompted whether or not to install the Intel MPI service (required only for running parallel VECTIS or WAVE3D jobs, not required for single-processor jobs).
 If the License Manager was selected for installation, you will also be prompted whether or not to install and start the the License Manager service. If you decide to install the License Manager service, you must also select a Ricardo Software license file which will be copied to the `<INSTALLDIR>\licmgr\licenses` directory in order for the service to start and you can optionally select whether to immediately start the service.

3. Installing Software

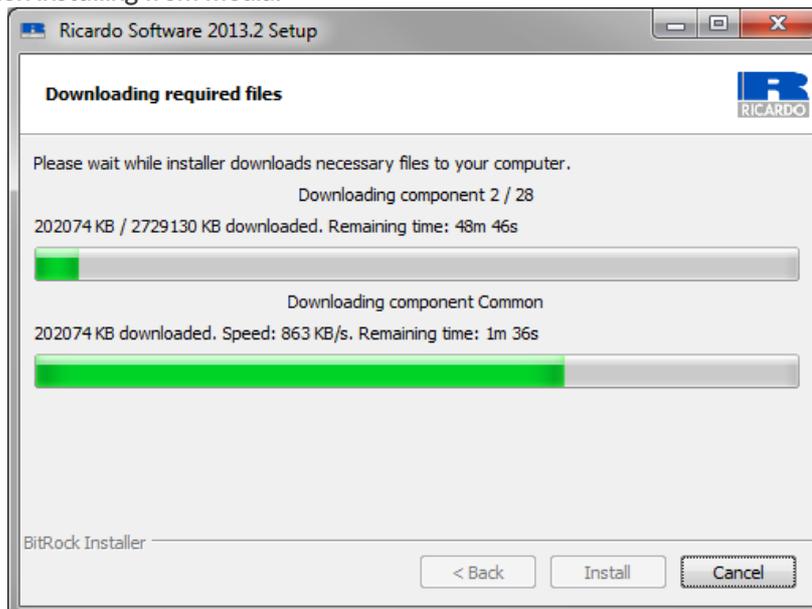
- This step is skipped when the selection of items to install doesn't warrant installation of any services.
- When installed, all of the services are configured to start automatically when Windows starts.
- If not installed now, you can manually install the License Manager Windows service later by typing `rlmsetuprestart` at a command prompt.
- If you don't yet have a Ricardo Software license file, please refer to [Requesting a Ricardo Software License File](#) for information required when requesting a license.



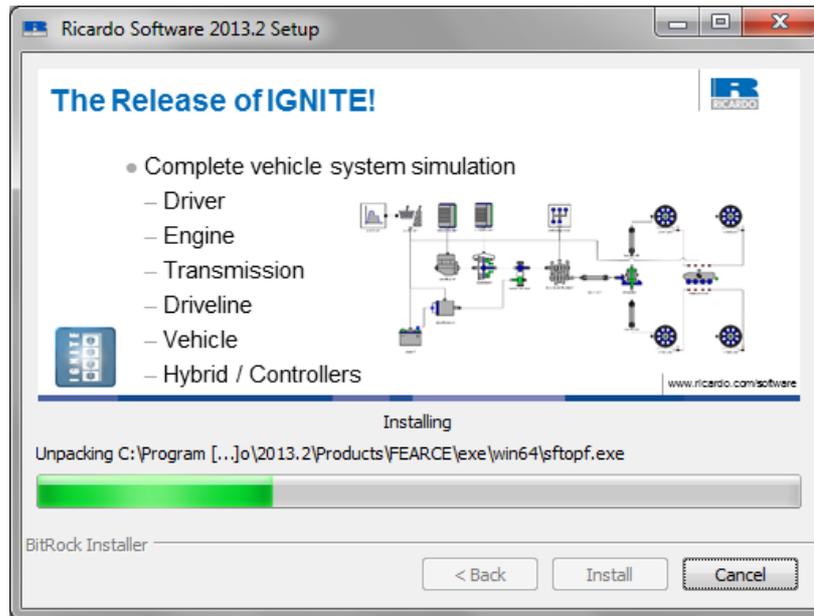
Note

Installation of the RS Queue service allows queuing of jobs both on the local machine and from remote hosts. This will open port 5180 (by default) for use by the RS Queuing system. If you have a firewall installed, you will need to allow incoming connections on this port to use the queue. Please ensure that RS Queue configuration is completed, post install, to properly secure your installation. See the ISIS manual for more details on configuration.

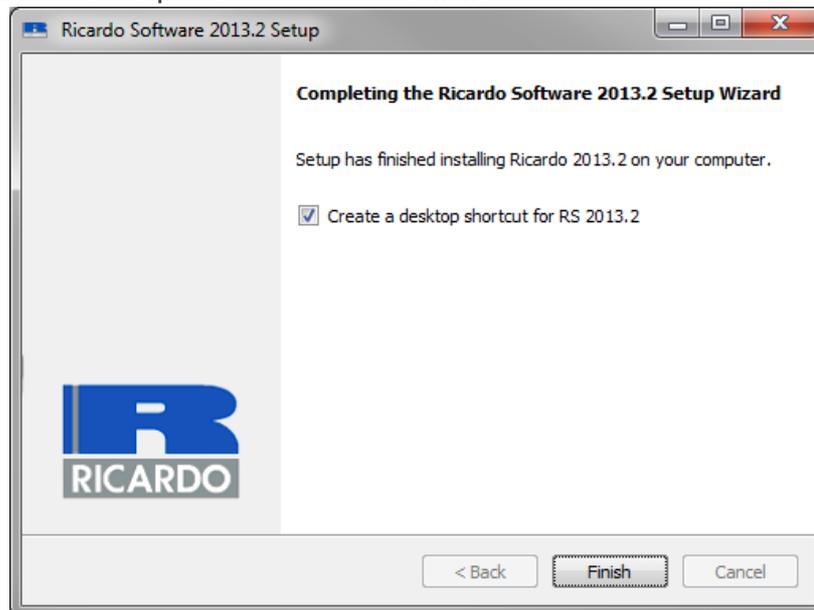
9. The overall download progress and download progress for each selected component will show while the software is downloaded from the Ricardo Software Support website.
- This step is skipped when installing from media.



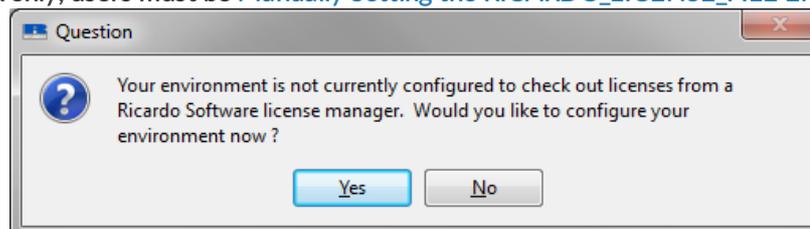
10. The overall software installation progress will show.



- 1. The installation and setup is now complete. By default, the installer will put a shortcut to launch the R-Desk program on your Desktop – you can de-select this option if desired. Click **Finish** to exit the installer.



- 2. If any products have been installed other than SABR, the installer checks to make sure that the current environment is configured to check licenses out from the Ricardo Software License Manager (confirms that the RICARDO_LICENSE_FILE environment variable is already set). If not, you are prompted to set it as this is required in order to run any of the installed Ricardo Software products. Selecting **Yes** will launch the Ricardo License Manager Control Panel, as described in appendix_0 .
 - This step is skipped when no products (i.e. only the License Manager) are installed or when only SABR is installed. When installing SABR only, users must be [Manually Setting the RICARDO_LICENSE_FILE Environment Variable](#) .



3.2. Linux

Note

Please note that one or more of the following RPM packages may need to be manually installed to run Ricardo Software products on Linux:

- libstdc++
- MesaGLw
- openmotif-libs
- libXp
- libFreeType

Please choose the version that is available on your installation media.

The installation executable file name for Linux installation is in the following format:

 RS_2013.2_linux-x64_installer.run

RS_2013.2_linux-x64_installer.run

RS – Ricardo Software

2013 – Year of release

.2 – Release number in the calendar year

linux-x64 – platform of the installer

1. Begin the installation process by either executing the downloaded installation program file or by placing the installation media (CD/DVD) in the drive. If you need to change permissions for the installer to make it executable, running the command `chmod 755 RS_2013.2_linux-x64_installer.run` will set the permissions to make it executable by everyone.
2. This is the first screen you will see. Select **Next >** to continue.



3. Enter your Ricardo Software Support account credentials and specify a directory to which the temporary downloaded files will be saved.
 - If the installer detects previously-downloaded installation files in the current directory, it will assume you are installing from media and this step will be skipped. To re-download any/all components for which you are licensed, run the installer from a directory **not** containing any downloaded component files.

- The account details provided must allow product downloads.
- The “Downloads directory” will default to the current directory in which the installer resides. This enables re-running the installer later without having to re-download any installation components.
- If a “Downloads directory” is entered that doesn’t already exist, it will be created for you.
- Checking the “Only download components, do not install them.” option will continue to download all selected components and then exit without installing any software. This is useful when downloading files to install at a later time or on other computers.



The screenshot shows the 'Component download configuration' window of the Ricardo Software 2013.2 Setup. The window title is 'Ricardo Software 2013.2 Setup'. The main heading is 'Component download configuration'. Below the heading, there is a Ricardo logo. The text reads: 'Please enter your account details for the Ricardo Software website.' There are two input fields: 'Username' and 'Password'. Below these is a text label: 'Directory for downloaded files. These may be reused in subsequent installations if found in the same directory as the installer.' The 'Downloads directory' is set to '/local/RS_Installs/RS_2013.2/' with a folder icon button to its right. There is a checkbox labeled 'Only download components, do not install them.' which is currently unchecked. At the bottom left, it says 'BitRock Installer'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

4. If required by your network, enter information for your HTTP proxy server in order to access the internet.
 - This step is skipped when installing from media.



The screenshot shows the 'HTTP Proxy Configuration' window of the Ricardo Software 2013.2 Setup. The window title is 'Ricardo Software 2013.2 Setup'. The main heading is 'HTTP Proxy Configuration'. Below the heading, there is a Ricardo logo. The text reads: 'If required, please enter the details for your HTTP proxy server.' There is a checkbox labeled 'use HTTP Proxy' which is currently unchecked. Below this is a group box containing: 'Server' and 'Port' input fields; 'Proxy Server User Name and Password (if required)' section with 'User Name' and 'Password' input fields. At the bottom left, it says 'BitRock Installer'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

5. It is important that you read and accept the License Agreement presented on this screen. When finished, select **I accept the agreement** to continue with the installation. Selecting **I do not accept the agreement** will not allow you to continue with the installation and will prompt to terminate the installation process.



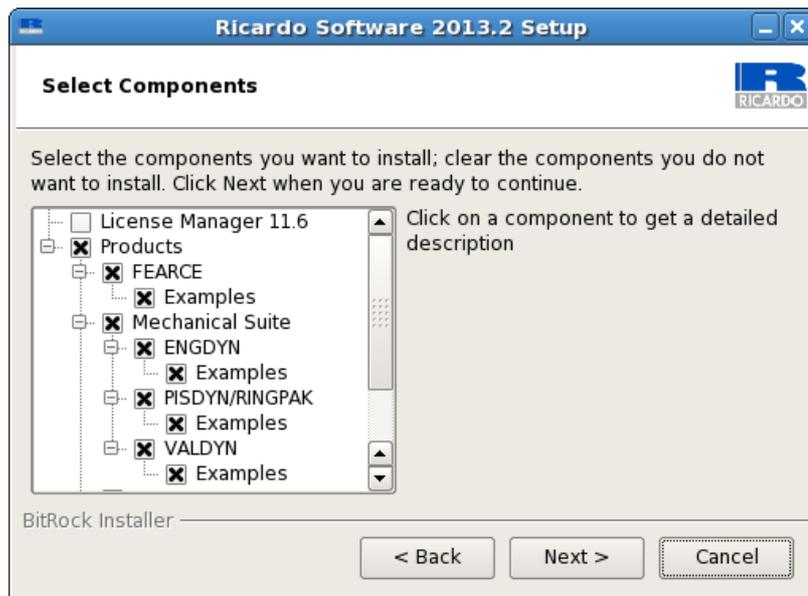
6. Specify where you would like the software to be installed and select **Next >** to continue. By default the installer will select `/opt/Ricardo`.



Warning

For shared installations on a Linux network, all versions of Ricardo Software products should be installed into the same directory.

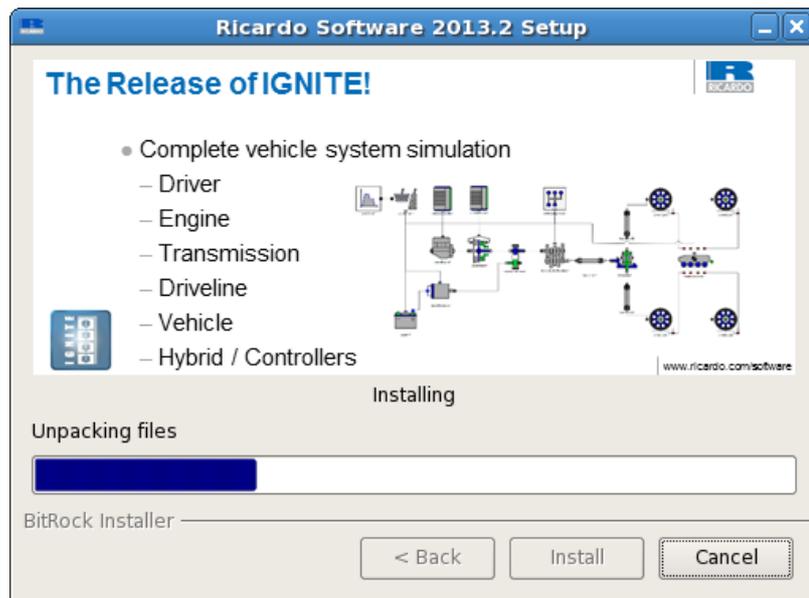
7. Select the software to install and select **Next >** to continue. By default, the License Manager option is deselected and all products are selected.
- When installing from the internet, only the software products for which you are currently licensed (according to the account used to access the Ricardo Software Support website) are listed.
 - If the installer detects previously-downloaded installation files in the current directory, only those software products which have the relevant components present in the current directory will be displayed. To re-download any/all components for which you are licensed, run the installer from a directory **not** containing any downloaded component files.



8. The overall download progress and download progress for each selected component will show while the software is downloaded from the Ricardo Software Support website.
- This step is skipped when installing from media.



9. The overall software installation progress will show.



10. The installation and setup is now complete. This panel will remind you to have all users of Ricardo Software update their **PATH** environment variable to include the "bin" directory containing the startup scripts for the newly installed software.



To set the path for C Shell (csh), use the command:

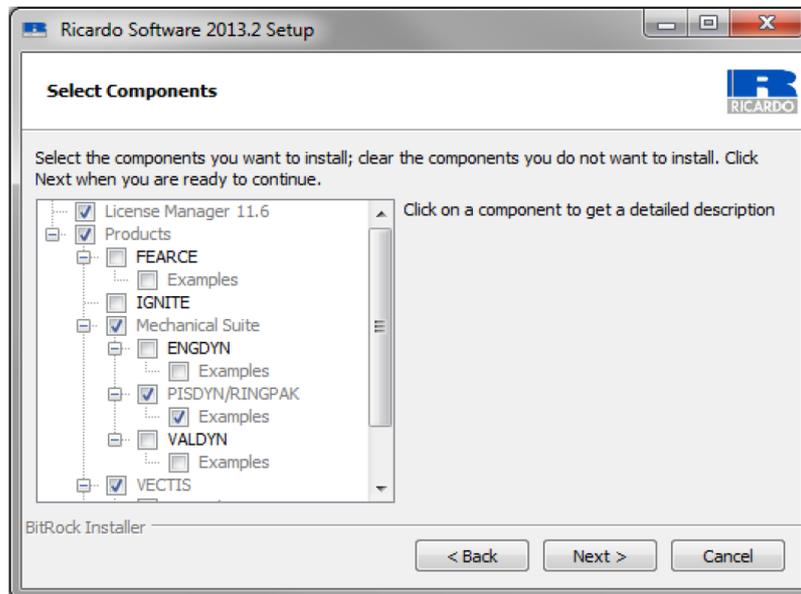
```
setenv PATH $PATH:/opt/Ricardo/bin
```

To set the path for Bourne Shell (sh), K Shell (ksh) and Bourne Again Shell (bash), the syntax would be as follows:

```
PATH=$PATH:/opt/Ricardo/bin
export PATH
```

4. Adding Products to an Installation

To install additional products for a specific version of Ricardo Software for which some products have already been installed on a computer/network, simply run the installer again. Previously-installed products will show up as selected on the “Select Components” page during installation and will be un-editable. Products which are not currently installed can be selected for installation.



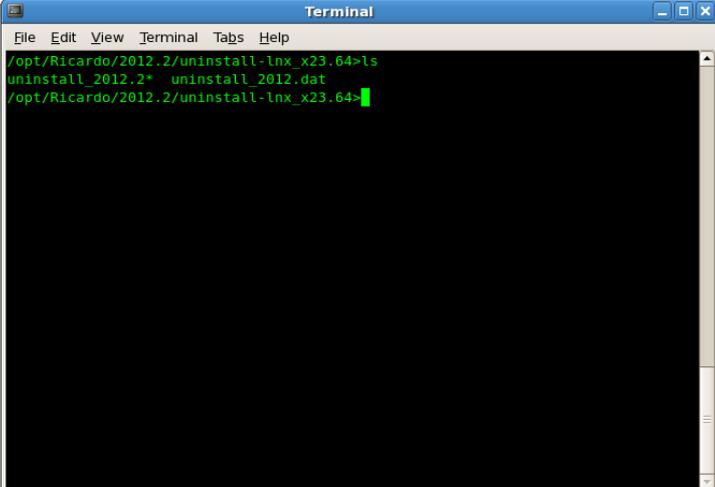
5. Uninstalling Software

When uninstalling Ricardo Software, you can either select to uninstall one or more specific products within an installation or remove the entire installation of that version.

Note

If uninstalling the entire installation for a version, the entire contents of that version's installation directory will be deleted upon completion, including any files created/placed there after the installation. If it is desirable to keep these files, they should be copied out of the version's installation directory prior to running the uninstall program.

As the last step of installation for any given version, an uninstaller program is created and placed in the installation directory under a sub-directory of the version named `uninstall` on Windows, or `uninstall- platform` on Linux.



```
Terminal
File Edit View Terminal Tabs Help
/opt/Ricardo/2012.2/uninstall-lnx_x23.64>ls
uninstall_2012.2*  uninstall_2012.dat
/opt/Ricardo/2012.2/uninstall-lnx_x23.64>
```

Figure 5.1: The uninstall sub-directory on Linux for version 2012.2

To uninstall programs or the full installation, run the uninstaller program located in this sub-directory.

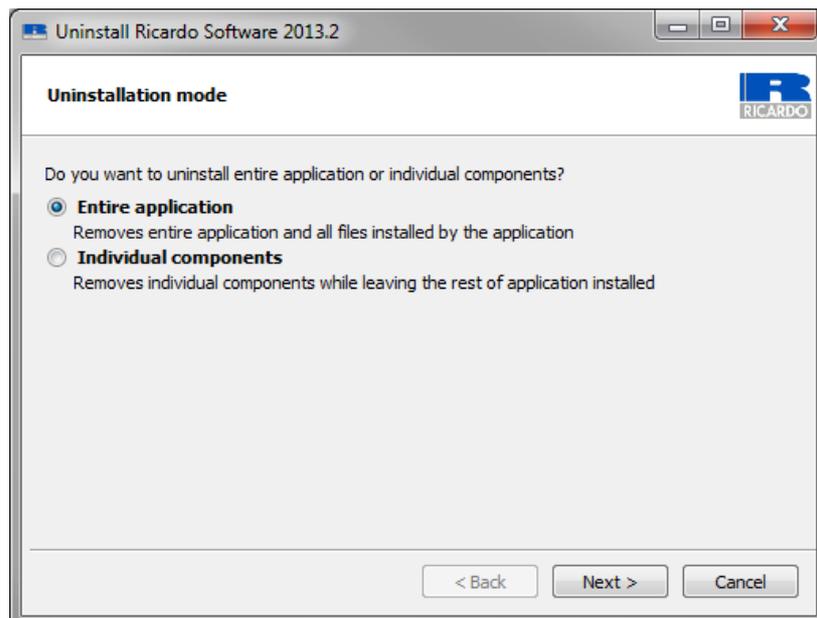


Figure 5.2: The uninstaller on Windows for version 2013.2

Note

On Windows, this uninstaller is also accessible via the Start menu and the “Programs and Features” panel.

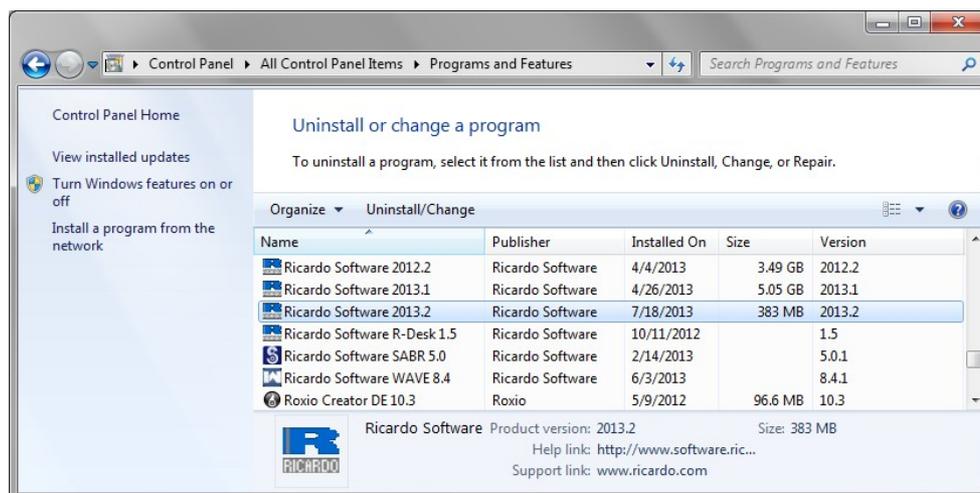


Figure 5.3: Ricardo Software 2013.2 as listed in Window’s 7 “Programs and Features” panel

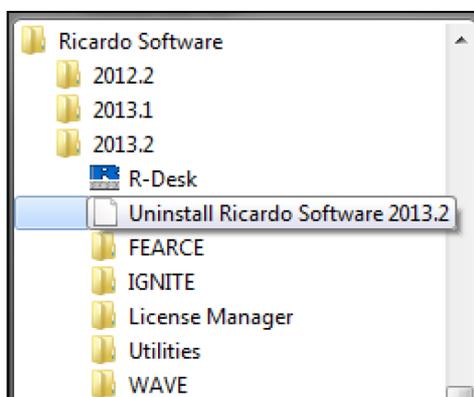


Figure 5.4: Ricardo Software 2013.2 uninstaller in the Windows Start menu**

The installer **cannot** be run in a “Repair” mode to fix a broken installation. In order to repair problems with an installation, the product(s) must be uninstalled and re-installed.

Fully uninstalling an entire version will render all Ricardo Software versions unusable until the most recent version is manually repaired. To do so, copy the entire contents from the most recent version’s “bin_backup” directory to the “... \Ricardo\bin” directory.

6. Setting the RICARDO_LICENSE_FILE Environment Variable

In order to run any Ricardo Software Products, an environment variable named `RICARDO_LICENSE_FILE` must be set in the user's environment. This environment variable identifies the machine(s) running the Ricardo Software License Manager.

On Windows, the environment variable can be set one of two ways – [R-Desk Graphical User Interface \(GUI\)](#) or [Manually](#).

On Linux, the environment variable is automatically set by the startup scripts, assuming that a license file is located in the installation location's `licmgr/licenses` directory (named `ricardo.lic`). If not, then the user must manually set the `RICARDO_LICENSE_FILE` environment variable.

Note

Before proceeding, make sure that you have the following information available (consult your network administrator if you don't have this information):

- Hostname of machine(s) on which the Ricardo Software License Manager is running – this may be a single machine or may be a collection of three machines (for redundancy reasons).
- Port number used on the license server for communication. The port number is optional for a single server configuration and required for a triple server configuration. *This port must be opened; not be blocked by a proxy/firewall.*

```
# Ricardo Software FLEXlm License File
# Created for: Customer
# Created: 01:36pm, 16 Nov 2011
#-----
# This file should be placed in the Ricardo Software installation
# tree in the <INSTALLDIR>/licmgr/licenses directory. Please see
# the Ricardo Software License Manager Setup Guide for further
# information.
#-----
SERVER server1 0079A9C339BD 1522
VENDOR RICARDO
...
```

Figure 6.1: Sample Ricardo License File (`ricardo.lic`) with hostname and port number highlighted

Advanced License Service Ports Setting - Windows 10 Firewall:

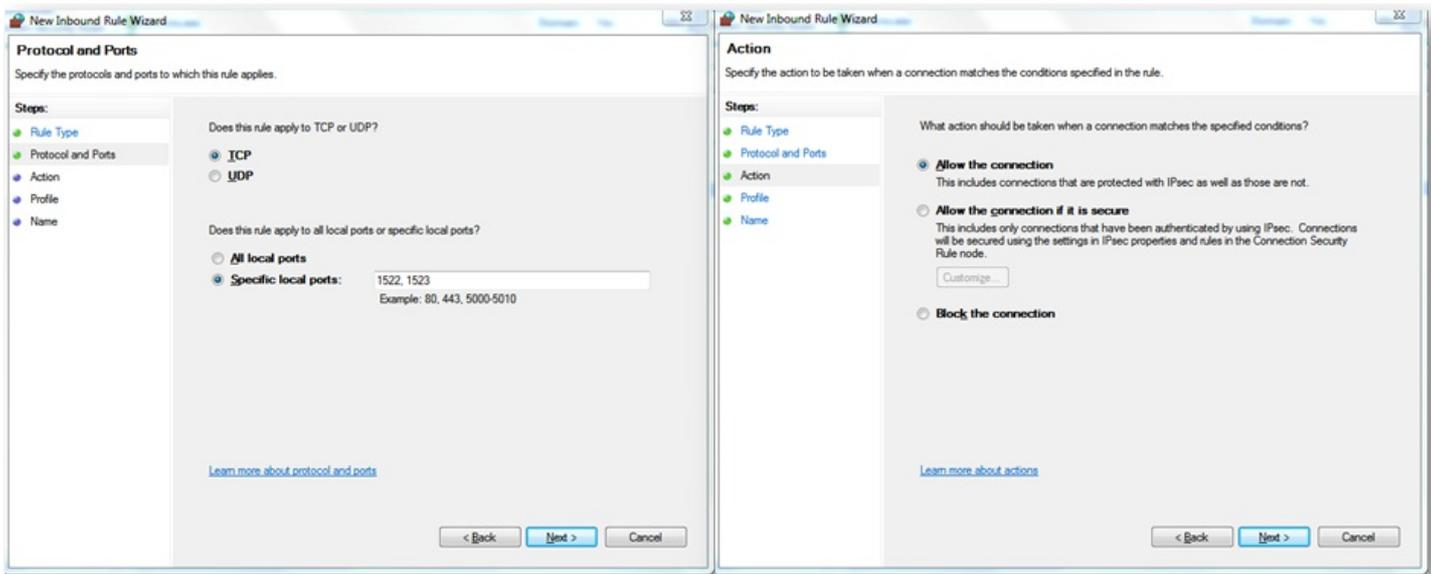
As it is shown in figure above, the license service can be started on a specified port - typically 1522. This port is used for a communication between user computer and server. It must be opened (allowed) for a communication on the server, if a Firewall is used.

However, in special cases when several different FlexLM services run on the server or if default Windows 10 firewall is used (higher network security), it is necessary to run the licensing service on a specified port additionally e.g. 1523.

The license file `ricardo.lic` and its line 10 (typically) should be adjusted for this purpose as shown below.

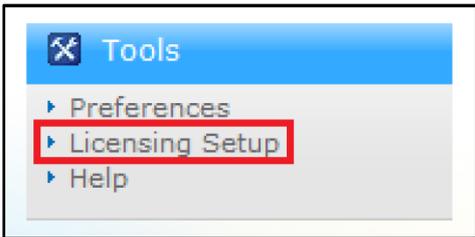
```
# Ricardo Software FLEXlm License File
# Created for: customer
# Created: 04:47pm, 10 Nov 2016
#-----
# This file should be placed in the Ricardo Software installation
# tree in the <INSTALLDIR>/licmgr/licenses directory. Please see
# the Ricardo Software License Manager Setup Guide for further
# information.
#-----
SERVER server1 34E6D743DFD5 1522
VENDOR RICARDO "C:\Program
Files\Ricardo\licmgr\11.6\exe\win64\RICARDO.exe" PORT=1523
...|
```

Tip
To open specified port in Windows 10 go to: Windows Firewall > Advanced Settings > Inbound Rules > New Rule > Name (e.g. Ricardo_Software) and allow ports 1522 and 1523.



6.1. Using the Ricardo License Manager Control Panel

On a Windows PC, the environment variable can be set using the License Manager Control Panel. It can be accessed either from the Start menu (Ricardo Software > Version > License Manager > Control Panel 11.6) or from the R-Desk Start Screen by selecting "Licensing Setup" under the list of "Tools":



Select the **License Server(s)** option and enter the hostname of the single license server (and, optionally, port number), or hostnames of the license triad and port number.

In general, the use of the **License Server(s)** specification is recommended over the **License File** as the former uses cached information on the server, allowing the use of diagnostic tools and logging of events for troubleshooting licensing problems. You may optionally include a port number if required by your site. This port number must also then be located in the `ricardo.lic` file on the `SERVER` line as an optional fourth field. For a triple license server arrangement, a **Port Number** *must* be specified. The default value of 1522 is reserved by the Ricardo Software License Manager (see [Registered Port Numbers](#)).

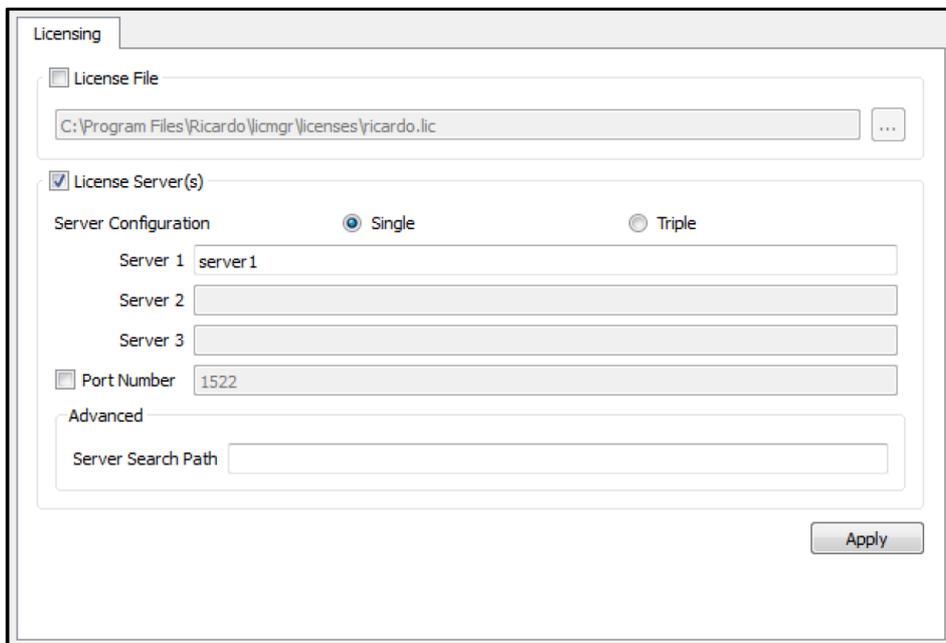


Figure 6.5: Configured to use a “Single” license server, “server1” is the license server’s hostname

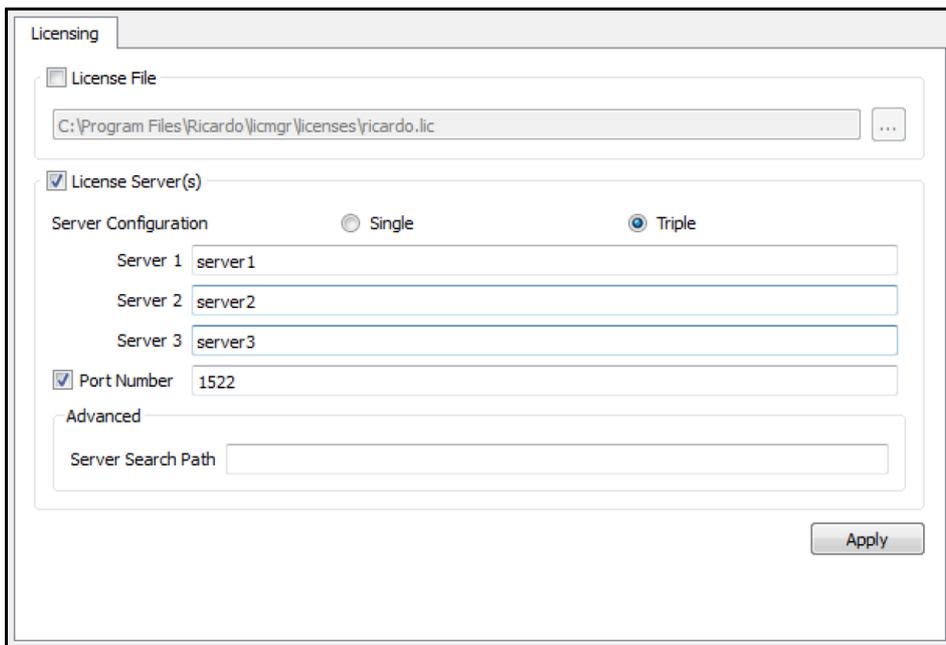
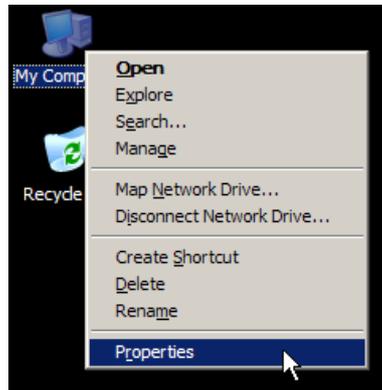


Figure 6.6: Configured to use a “Triple” license server, “server1”, “server2”, and “server3” are the license servers’ hostnames

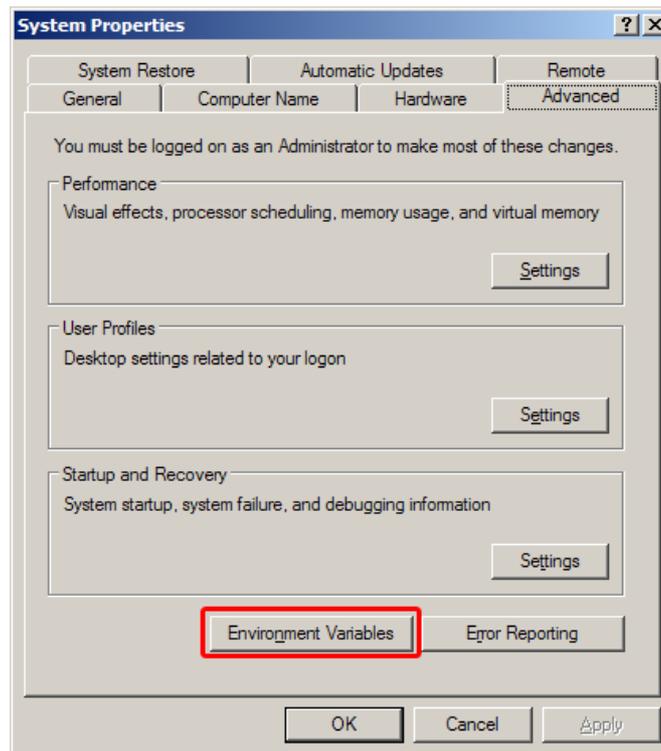
6.2. Manually Setting the RICARDO_LICENSE_FILE Environment Variable

6.2.1. Windows

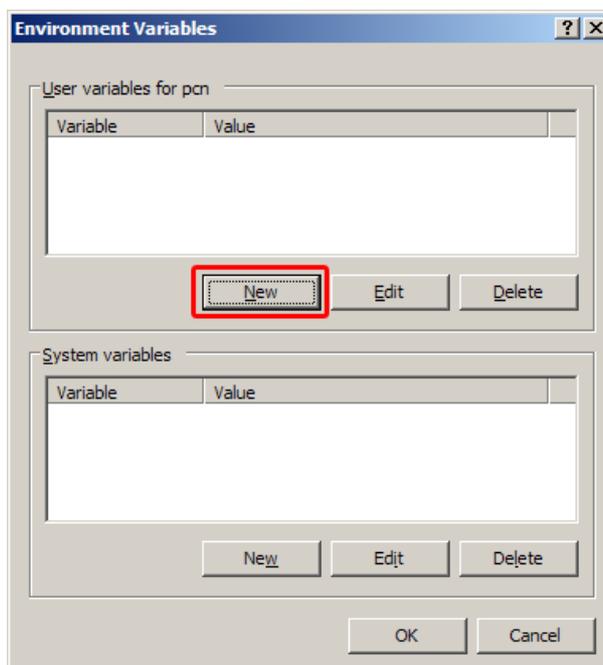
Right click **My Computer** located on the desktop and select **Properties**.



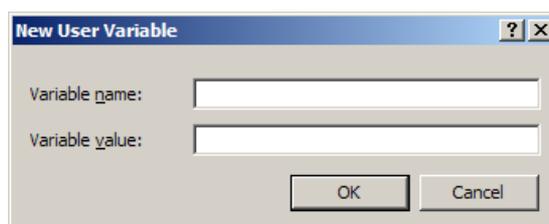
Go to the **Advanced** tab and click the **Environment Variables** button.



Click the **New** button in the **User variables** section



You will see the following window:



Set the environment variable as follows:

Variable name:

`RICARDO_LICENSE_FILE`

Variable value:

For single license servers with no specified port: `@server1`
where `server1` is the hostname of the networked license server machine.

For single license server with a specified port: `1522@server1`
where `1522` is the port number specified in the license file and `server1` is the hostname of the networked license server machine.

For triple license servers: `1522@server1;1522@server2;1522@server3`
where `1522` is the port number specified in the license file and `server1`, `server2`, and `server3` are the hostnames of the networked license server machines.

6.2.2. Linux

If the license manager has been installed on the network, a typical installation doesn't require individual users to set the `RICARDO_LICENSE_FILE` environment variable – an installed script, `rlmgetservers`, is invoked every time a Ricardo Software program is run and it will extract the server name(s) from the `ricardo.lic` license file, assuming that file is located in the correct place within the installation location.

6. Setting the RICARDO_LICENSE_FILE Environment Variable

If not, however, the environment variable can be set by the user:

The `RICARDO_LICENSE_FILE` environment variable must be set manually, as outlined below:

1. Direct path to `ricardo.lic` file, for example:

```
setenv RICARDO_LICENSE_FILE <INSTALLDIR>/licmgr/licenses/ricardo.lic
```

2. Single license server name, for example:

```
setenv RICARDO_LICENSE_FILE @server
```

3. List of three license server names, for example:

```
setenv RICARDO_LICENSE_FILE 1522@server1:1522@server2:1522@server3
```

The **1522@** is required and corresponds to the port number of the Ricardo Software License Server. **This number may be different for your site.**

The above assumes C shell (csh) syntax and should be put in the user's `.cshrc` file located in their home directory.

For Bourne (sh), K Shell (ksh) and Bourne Again Shell (bash), the syntax would be as follows:

1. Direct path to `ricardo.lic` file, for example:

```
RICARDO_LICENSE_FILE=<INSTALLDIR>/licmgr/licenses/ricardo.lic  
export RICARDO_LICENSE_FILE
```

2. Single license server name, for example:

```
RICARDO_LICENSE_FILE=@server  
export RICARDO_LICENSE_FILE
```

3. List of three license server names, for example:

```
RICARDO_LICENSE_FILE=1522@server1:1522@server2:1522@server3  
export RICARDO_LICENSE_FILE
```

When using the above shells, the `RICARDO_LICENSE_FILE` environment variable would use the `.profile` file located in the user's home directory.

7. Appendices

7.1. Version Numbers

Ricardo Software versions are denoted using a `CalendarYear.ReleaseNumber` naming convention. Each installed version will create its own sub-directory within the Ricardo directory. This allows for multiple versions to be installed and accessed on one machine/network.

An example installation tree is shown below for a Windows installation where multiple versions of Ricardo

Software products are installed into the default directory of `C:\Program Files\Ricardo`:



Figure 7.1: Two versions (2012.1 and 2013.1) of Ricardo Software products installed.

Note

Installations of BETA releases of any software will create a version number directory appended with a `bZ`, where `Z` is the BETA number (e.g. `2013.1b1`)

Warning

On any one Windows PC, or for shared installations on a Linux network, all versions of Ricardo Software products should be installed into the same directory.

7.2. Patches

Patches will overwrite the existing files of the version being patched. As such, the original full version release of the software product being patched must be installed before a patch installation can be installed.

Patches are cumulative; only the latest patch is required when updating your software.

When a program executable is updated in a patch, the third digit of the program's version number is updated to match the patch number (the program version number is echoed to output for solvers and can be found in the Help > About panel for GUIs). Only the individual executables that were updated in a patch will display an updated version number.

For example, a software product is released as version 2012.1, containing programs `a`, `b`, and `c`. All programs have a version number of 2012.1.

Product version 2012.1	
Program	Version #
a	2012.1
b	2012.1
c	2012.1

If a patch, p1, is released, updating only program `c`, then the version numbers will be as follows (note that only program `c` displays an updated version number):

Product version 2012.1p1	
Program	Version #
a	2012.1
b	2012.1
c	2012.1.1

If a second patch, p2, is released, updating programs `a` and `c`, then the version numbers will be as follows (note that program `a` skips 2012.1.1 and goes straight to 2012.1.2):

Product version 2012.1p2	
Program	Version #
a	2012.1.2
b	2012.1
c	2012.1.2

If a third patch, p3, is released, updating programs `a` and `b`, then the version numbers will be as follows (note that program `c` remains at version 2012.1.2 because it was not patched in p3):

Product version 2012.1p3	
Program	Version #
a	2012.1.3
b	2012.1.3
c	2012.1.2

7.3. Requesting a Ricardo Software License File

When requesting a license file from Ricardo Software, there are two basic pieces of information required from the machine on which the License Manager will be run:

1. The hostname
2. The FlexNet Host ID

The hostname can be obtained on any platform prior to installing the Ricardo License Manager software by executing the command `hostname` at a command prompt.

The FlexNet Host ID can be obtained on Windows prior to installing the Ricardo License Manager software by executing the command `ipconfig /all > license_info.txt` at a command prompt. This command will create a text file in the current directory named `license_info.txt` which should be sent, along with the hostname, to Ricardo Software via e-mail at RS_Support@ricardo.com.

The FlexNet Host ID can be obtained on Linux only *after* the Ricardo License Manager software has been installed by executing the command `rlmhostid > license_info.txt` at a command prompt. As on Windows, this will create a text file in the current directory named `license_info.txt` which should be sent, along with the hostname, to Ricardo Software via e-mail at RS_Support@ricardo.com.

7.4. Unattended and Customized Installations

The installer can be customized with user-specific default input values and optionally specified to run in an unattended or “silent” mode. All options can either be specified by running the installer on the command line with arguments specified on the command line or in an options file. To see the entire list of command line arguments available, run the installer with the `--help` command line argument, for example:

```
RS_2013.2_windows_installer.exe --help
```

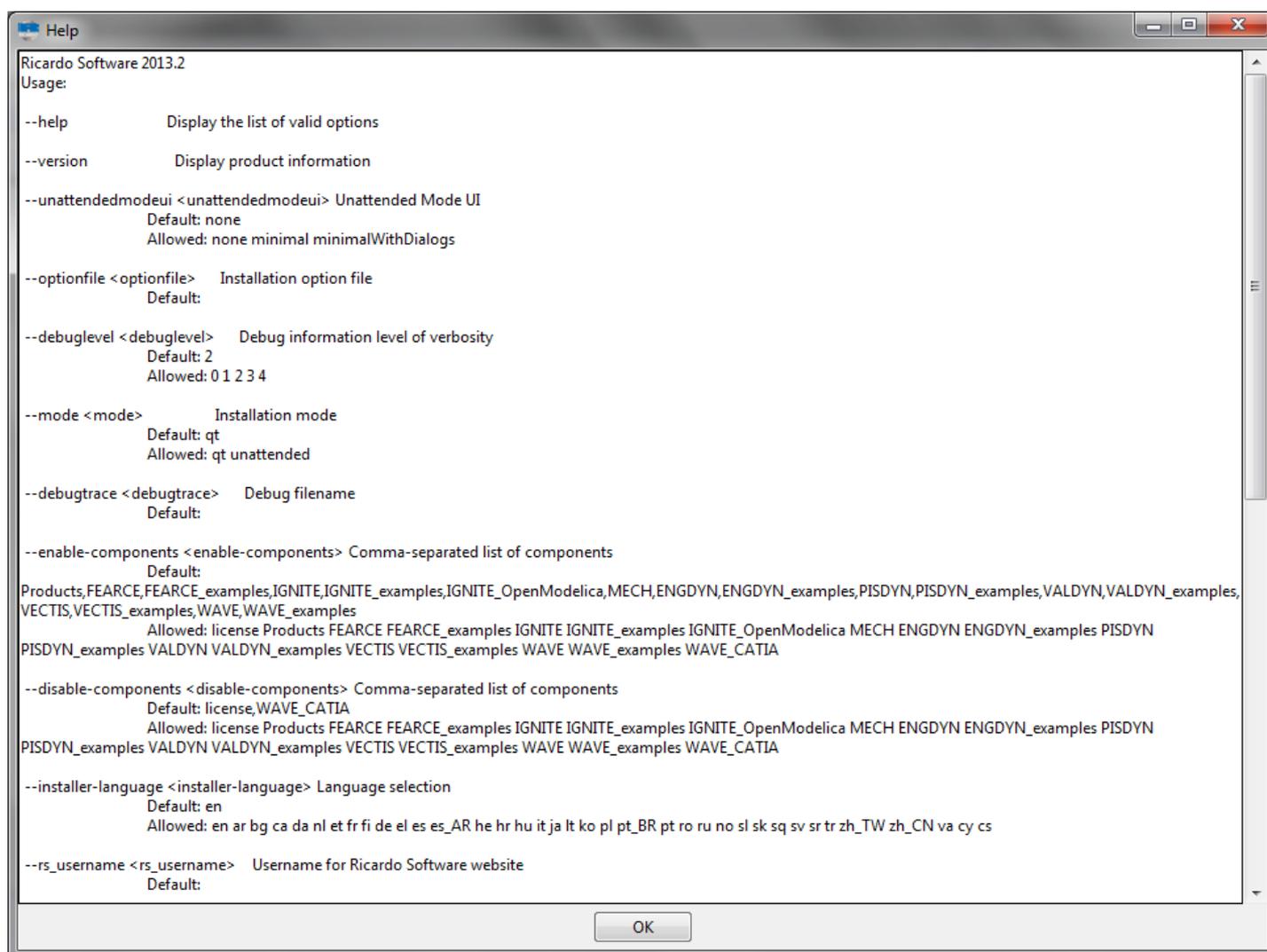


Figure 7.2: Display of available command options for the RS 2013.2 installer

Some examples of unattended installations include:

```
RS_2013.2_windows_installer.exe --mode unattended --rs_username your_username --rs_password your_password --licenseFile "C:\ricardo.lic" -
-startISISD 1 --startMPI 1
```

The above will run the RS 2013.2 Windows installer in an unattended mode (non-interactive), downloading all products licensed for the user account `your_username` and installing and starting all services, including the license manager using the license file originally located at `C:\ricardo.lic`.

```
RS_2013.2_windows_installer.exe --mode unattended --unattendedmodeui minimal --rs_username your_username --rs_password your_password --
download_only 1
```

The above will run the RS 2013.2 Windows installer in an unattended mode (non-interactive) but with some minimal dialogs showing progress, downloading all products licenses for the user account `your_username` and stopping after downloading all products (not installing anything).

7.5. Determining Proxy Settings

Some organizations require that users route internet traffic through a proxy server. Without entering the relevant proxy information during installation via web download, the installer will not be able to download the installer packages as required.

There are various ways to try to determine the local proxy settings from your machine, but they work inconsistently, depending on how IT administrators maintain their network. **The best way to determine the correct proxy server settings to use it to ask your relevant IT representative for the information.** Alternatively the following method can be tried to determine it on your computer directly on a Windows PC:

- Open the settings for “Internet Connections” in the Windows Control Panel (example from Windows 7 shown below)

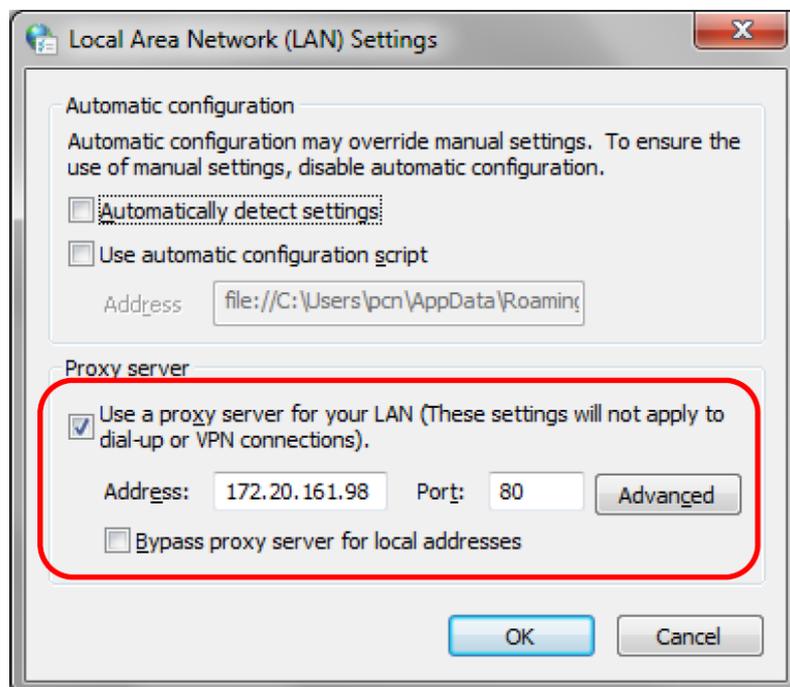


Figure 7.3: Determining proxy settings on a Windows PC from “Internet Connections”

7.6. Creating a CD/DVD ISO Image

As of the 2013.2 release, Ricardo Software no longer packages installation files in a CD/DVD ISO format for download. It is most convenient to simply move the required files (installer program and associated installation package files) to a centrally-located directory on the company network from which users can access them to install the software.

However, if an ISO image is required, the installer program can be used to download all required installation packages for a given platform which can then be packaged by the user for internal circulation on CD/DVD media.

On Windows, the user should download the Windows installer and use it to download all Windows installation packages for their licensed products. Various software products can then be used to burn the files in an ISO format onto media, including [Roxio](#), [Magic ISO Maker](#), and [ImgBurn](#).

On Linux, the following simple script can be executed (copy/paste this into a script on the Linux system and execute it).

```
#!/bin/sh
#
# Put the required .pak files and installer setup exes in a folder called
# "input".Run this script from the folder above "input".
#
INPUT_FILES=./input
VERSION=2013.2
ISOFILE=../RS_${VERSION}.iso

cd ${INPUT_FILES}

# Create ISO9660 + Joliet/Rockridge image
mkisofs -r -J -U -v -V Ricardo_${VERSION} -o ${ISOFILE} .
```