

ASReml-R Version 4 Installation Guide

Please note: This documentation is specific to **ASReml-R 4** only. ASReml-4 Standalone (**not** the R version) has its own separate licensing and documentation, which can be found here:

<https://asreml.kb.vsnr.co.uk/knowledge-base/asreml-installation-guide/>

ASReml-R 4 uses a new license system with different requirements from previous versions. You can find further information about this at:

<https://asreml.kb.vsnr.co.uk/knowledge-base/vsnr-new-licensing/>

1. Download ASReml-R 4

Go to the following page <https://asreml.kb.vsnr.co.uk/knowledge-base/asreml-r-4-download/>

Download the appropriate version of ASReml-R 4 for your operating system.

- For Windows, the download will be a .zip file.
- For Linux and Mac the download will be a .tar file.

2. Install Packages

Before installing ASReml-R 4 you will need to install the following packages:

- data.table
- ggplot2
- jsonlite

These are available for installation from the CRAN website <https://cran.r-project.org/>.

Start an R session and install the packages above.

3. Install ASReml-R 4

Install ASReml-R 4 using one of the following commands as appropriate for your operating system.

Note: You will need to replace the filepath with the correct path on your computer, and also replace `asreml_4.x.x.x` with the downloaded file name e.g. `asreml_4.0.1.7.tar`.

This will install ASReml into a default location dependant on your R configuration.

Alternatively, use the standard package loading facilities available within an R interface such as RStudio or R Gui.

For Windows:

```
install.packages("C:/Users/<your_username>/Downloads/asreml_4.x.x.x.zip", repos = NULL,  
type = "win.binary")
```

For Linux:

```
install.packages("/home/<your_username>/asreml_4.x.x.x.tar.gz", repos = NULL)
```

Note: If you encounter problems we have built a deb and rpm package to troubleshoot the install. Refer to the Troubleshooting section at the end of this document. The Linux distributions we have tested are Ubuntu and Centos 7.

For Mac:

```
install.packages("/Users/<your_username>/Downloads/asreml_4.x.x.x.tar", repos = NULL,  
type = "source")
```

4. Load the Package

Load ASReml-R 4 using the following command:

```
library(asreml)
```

R will search its known library trees to find ASReml.

5. Activate your License

You must be connected to the Internet before attempting to activate your license.

You will receive an activation code from us after we have received payment.

Type the following command:

```
asreml.license.activate()
```

The response will be:

```
Please enter your activation code (RET or 0 to exit):
```

Copy and paste the activation code from your email then wait for a response - *this may take some time*.

The response will look similar to the following:

```
License activation successful  
Licensed to VSNI QA Group  
Ref: VOF123456 Expires: 22-feb-2018, 361 days.
```

This completes the installation process. You can now run ASReml-R 4.

If your License Activation is Unsuccessful

If you see the message below:

```
License activation unsuccessful
```

Try the following:

- Ensure that you are connected to the Internet and that the correct ports are open.
- Close and re-open your R session before loading ASReml-R again.

Using a license offline

(replaces node and floating licenses used in ASReml-R 3)

You can use ASReml-R version 4 without an Internet connection for up to 30 days by taking your ASReml-R 4 license offline.

Ensure you have an Internet connection so that you can connect to the RLM license server then run the following command:

```
asreml.license.offline(X)
```

X equals the number of days you want to take the license offline (from 1 to 30 days).

Once the specified number of days has elapsed the license will automatically return to Online mode if an Internet connection is available. (If no connection is available ASReml –R 4 will cease to function until you connect to the Internet).

To put your license back online before the period is up, connect to the Internet then run the following command:

```
asreml.license.online()
```

ASReml-R Documentation

If you have installed ASReml-R in the default location, all documentation bundled with the package will be found in (for Windows version):

```
C:\Users\<your name>\Documents\R\win-library\X.X\asreml\doc
```

where X.X is the ASReml-R version number.

Alternatively, you can find these documents (and more resources) on the ASReml Knowledge Base.

<https://asreml.kb.vsnr.co.uk/article-categories/asreml-r-resources/>

Troubleshooting

Most licensing problems are caused by not having an Internet connection. VSNi applications need to request the RLM license connection details from the RLM license server via the Internet. Please ensure that you have an Internet connection before attempting to put a license into Offline mode.

Deb and rpm package installer

Installation on Ubuntu16 or Ubuntu18 based platforms may use the following installation command to verify if that system can run the latest version of ASReml-R (deb and rpm packages only available in 4.1.0.105 or above).

Note: You will need to replace ASremlR-Ubuntu-18-x86_64-R3.5.1-4.XXXXX with the downloaded file name.

```
sudo apt install ./ASremlR-Ubuntu-18-x86_64-R3.5.1-4.XXXXX-Linux.deb
```

Now launch a new R session to complete the installation as described previously in section 4.

CentOS-7 Redhat package installer

Installation on a CentOS-7 platform may use the following installation command to verify if that system can run the latest build of ASReml-R.

Note: You will need to replace ASremlR-CentOS-7-x86_64-R3.5.1-4.XXXX with the downloaded file name.

```
sudo yum install ./ASremlR-CentOS-7-x86_64-R3.5.1-4.XXXXX-Linux.rpm
```

Now launch a new R session to complete the installation as described previously in section 4.