



## Quick Installation Guide – for individual licenses on Linux

### Section A: Purchase from webstore

1. Purchase and download msanova from the [webstore](#).
2. You will receive an email containing an Activation code (a string of numbers and letters), and a link to download the software. Keep your activation code handy as you will need it to license msanova once you have installed the product. You will also need an active internet connection to license the software.
3. Download the software and note where you saved the download.

Please note: installing msanova is a two-step process.

Step 1 is to install msanova to your local system. See section B.

Step 2 is to launch msanova from within a R command line session. See section C.

Step 3 is to license (activate) msanova. See section D.

### Section B: Installing msanova locally to your system

```
msanova RPM installation on CentOS

[user@server ~]$ ls -l Downloads/msanova*rpm
-rw-rw-r--. 1 jimt jimt 11420364 Mar  4 12:30 Downloads/msanova-1.0.17568-1.x86_64.rpm
[user@server ~]$ sudo yum install -y Downloads/msanova-1.0.17568-1.x86_64.rpm
Loaded plugins: fastestmirror
Setting up Install Process
Examining Downloads/msanova-1.0.17568-1.x86_64.rpm: msanova-1.0.17568-1.x86_64
Marking Downloads/msanova-1.0.17568-1.x86_64.rpm to be installed
Resolving Dependencies
--> Running transaction check
--> Package msanova.x86_64 0:1.0.17568-1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                Arch          Version        Repository      Size
=====
Installing:
msanova                 x86_64        1.0.17568-1   /msanova-1.0.17568-1.x86_64 33 M
=====

Transaction Summary
=====
Install      1 Package(s)

Total size: 33 M
Installed size: 33 M
Downloading Packages:
Running rpm_check_debug
Running Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing : msanova-1.0.17568-1.x86_64                                1/1
The Package has now been installed in /opt/vsni/msanova/latest.
  Verifying  : msanova-1.0.17568-1.x86_64                                1/1

Installed:
  msanova.x86_64 0:1.0.17568-1

Complete!
[user@server ~]$
```

## Section C: msanova R package installation:

Launch an R command line session to install the msanova R package:

```
msanova R package installation, activation and test

R version 3.1.2 (2014-10-31) -- "Pumpkin Helmet"
Copyright (C) 2014 The R Foundation for Statistical Computing
Platform: x86_64-redhat-linux-gnu (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
> install.packages("/opt/vsni/msanova/latest/R-package/msanova_1.0-17568.tar.gz", repos = NULL, type = "source")
Installing package into '/usr/lib64/R/library'
(as 'lib' is unspecified)
Warning in install.packages("/opt/vsni/msanova/latest/R-package/msanova_1.0-17568.tar.gz", :
  'lib = "/usr/lib64/R/library"' is not writable
Would you like to use a personal library instead? (y/n) y
Would you like to create a personal library
~/R/x86_64-redhat-linux-gnu-library/3.1
to install packages into? (y/n) y
* installing *source* package 'msanova' ...
** R
** data
*** moving datasets to lazyload DB
** demo
** inst
** preparing package for lazy loading
** help
*** installing help indices
```

```
finding HTML links ... done
Canola          html
Fabric          html
Forage         html
Heights        html
Lattice         html
Lettuce        html
Meat           html
Nematode       html
Oats           html
Octane         html
Plankton       html
Potatoes       html
Rat            html
Ratfactorial   html
Ratlitters     html
Ratmuscles    html
Rice           html
Wheatstrains  html
Wine          html
acheck        html
aconfidence   html
adpolynomial  html
afieldresiduals html
Rd warning: /tmp/Rtmp5iECw/R.INSTALLc14416081918/msanova/man/afieldresiduals.Rd:23: missing file link 'lattice'
afmeans       html
agraph        html
Rd warning: /tmp/Rtmp5iECw/R.INSTALLc14416081918/msanova/man/agraph.Rd:104: missing file link 'lattice'
amcomparison  html
aov2asreml    html
apermtest     html
aplot         html
Rd warning: /tmp/Rtmp5iECw/R.INSTALLc14416081918/msanova/man/aplot.Rd:30: missing file link 'lattice'
apolynomial   html
apower        html
coef.msanova  html
fitted.msanova html
model.tables.msanova html
msanova-package html
msanova       html
msanova.activate html
msanova.islicensed html
```



```

gcc -m64 -std=gnu99 -I/usr/include/R -DNDEBUG -Iyajl -Iyajl/api -I. -I/usr/local/include -fpic -O2 -g -pipe -Wall -Wp,-D_FORT
gcc -m64 -std=gnu99 -I/usr/include/R -DNDEBUG -Iyajl -Iyajl/api -I. -I/usr/local/include -fpic -O2 -g -pipe -Wall -Wp,-D_FORT
gcc -m64 -std=gnu99 -shared -L/usr/lib64/R/lib -L/usr/local/lib64 -o jsonlite.so yajl/yajl.o yajl/yajl_alloc.o yajl/yajl_buf.o ya
installing to /home/duncan/R/x86_64-redhat-linux-gnu-library/3.1/jsonlite/libs
** R
** inst
** preparing package for lazy loading
** help
*** installing help indices
converting help for package 'jsonlite'
finding HTML links ... done
flatten          html
fromJSON         html
prettify         html
rbind.pages      html
Rd warning: /tmp/RtmpvZKuLF/R.INSTALLc14d3b9f97cf/jsonlite/man/rbind.pages.Rd:21: missing file link 'rbind'
serializeJSON   html
stream_in       html
unbox           html
validate        html
** building package indices
** installing vignettes
** testing if installed package can be loaded
* DONE (jsonlite)

The downloaded source packages are in
  '/tmp/RtmpGZX3t/downloaded_packages'
+++++
+
+ msanova R package is unlicensed
+
+ No valid license found.
+++++
* DONE (msanova)

```

### Loading the msanova R library

```

library(msanova)
Loading required package: lattice
msanova Attached from /home/duncan/R/x86_64-redhat-linux-gnu-library/3.1
+++++
+
+ msanova R package is unlicensed
+
+ No valid license found.
+++++
No valid license found. The msanova package can be activated from an interactive R session by
manually invoking the msanova.activate() function.
This will require the entry of an activation code received within a VSNi email message.
>

```

## Section D: msanova activation and test:

### Apply your Activation code

```
> msanova.activate()
+++++++
+
+ msanova R package is unlicensed
+
+ No valid license found.
+++++++
No valid license found. Initiating the license activation process now.
Does this system have a connection to the Internet and do you have
a VSNi msanova product activation code ready (Yes/No/Quit)?
1: y
Please enter your activation code and press ENTER:
1: xxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxx
The activation process has been successful.
>
```

## Test the installation

```
> msanova.test()
Analysis of variance table
=====

Variate: yield

              d.f.  s.s.  m.s.  v.r.  F  pr.
blocks stratum          5 15875  3175  5.28

blocks:wplots stratum
variety              2  1786   893  1.49  0.272
Residual            10  6013   601  3.40

blocks:wplots:subplots stratum
nitrogen              3 20020  6674 37.69 <1e-04
nitrogen:variety      6   322    54  0.30  0.932
Residual             45  7969   177

Total                71 51986

> msanova.showLicense()
+++++
+
+ msanova R package
+
+   Licensed to : VSN International
+   Expiry Date : 31-mar-2017
+   Serial Number : zzzzzzzzzz-zzzz-zzzz-zzzz-zzzzzzzzzzzz
+   System id : vvvvvvvvvv
+   Hostname : your.system.name
+   User : your.user.name
+
+
+++++
>
```