

# R:CAD Viewer 11



## Help Manual



# **R:CAD Viewer 11**

## **Help Manual**

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*by R:BASE Technologies, Inc.*

*Welcome to R:CAD Viewer 11!*

*R:CAD Viewer is an innovative CAD drawing/image viewer for  
R:BASE applications!*

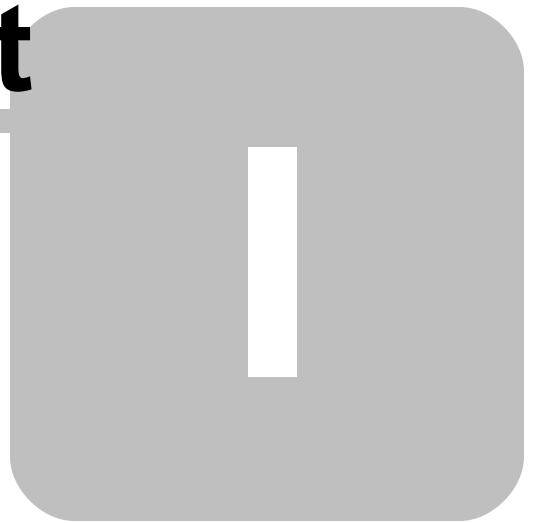
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**Part**



# 1 Introduction

## 1.1 Introducing R:CAD Viewer

R:CAD Viewer is the quick CAD drawing and image file viewer with advanced functions for dragging, zooming, and centering files that will empower your R:BASE application.

Within the file viewer, the following features are available:

- Convert all supported files to BMP, WMF, EMF, and JPEG formats
- Enable/Disable and alter drawing layers
- Switch between black and white backgrounds
- Easy and smart scaling and image dragging
- Orbital rotation of objects
- Display a grid for easier drawing review
- Compatible with all AutoDesk DWG versions including 2008
- Show/Hide X, Y, and Z axes
- Add a bitmap border

Using the R:CAD Viewer plugin, the following features are available:

- Launch the file viewer with initial X, Y, and Z coordinates and scale
- Disable toolbar buttons and menu bar for user control

Supported CAD file formats include:

- dwg
- dxf
- plt
- hgl
- hg
- hpg
- plo
- hp
- hp1
- hp2
- hpgl
- hpgl2
- gl2
- prn
- spl

Supported image file formats include:

- |        |        |
|--------|--------|
| • tif  | • cut  |
| • tiff | • pal  |
| • fax  | • rla  |
| • bw   | • rpf  |
| • rgb  | • psd  |
| • rgba | • pdd  |
| • sgi  | • psp  |
| • cel  | • png  |
| • pic  | • rle  |
| • tga  | • dib  |
| • vst  | • ico  |
| • icb  | • emf  |
| • vda  | • wmf  |
| • win  | • jpg  |
| • pcd  | • jpeg |
| • ppm  | • gif  |
| • pgm  | • pcx  |
| • pbm  | • bmp  |

R:CAD Viewer is version independent and does not require a connection to a database.

R:CAD Viewer allows easy and friendly managing of files for even non-CAD users, but is still powerful enough for professionals.

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First Edition

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- To help us expedite the process and provide high quality assistance, the licensee must provide proof of purchase when calling. Proof of purchase is defined as the following: registration number, purchase date, version and build number, and company or individual to which product is registered.
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- To have the database(s) being converted, safely backed-up before attempting conversion process. RBTI will NOT be held responsible for lost data or corruption as a result of advice given.

**R:BASE TECHNOLOGIES, INC. RESPONSIBILITIES**

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RBTI reserves the right to limit the amount of support time allotted to a maximum of 2 HOURS during the 30-Day Complimentary Technical Support Period. We also reserve the right to limit the quantity of calls from a particular Licensee to 30 MINUTES in a single day. Issues are dealt with on a case-by-case basis, and are handled at the discretion of the support agent assigned to the case. Complimentary Support is limited to INSTALLATION and ELEMENTARY CONVERSION related issues ONLY. Our support hours are from 10am. to 6pm. Eastern Time.

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## 1.4 Complimentary Support

**30 DAY LIMITED COMPLIMENTARY TECHNICAL SUPPORT****A. LICENSEE RESPONSIBILITIES.**

1. To help us expedite the process and provide high quality assistance, the licensee must provide proof of purchase. Proof of purchase is defined as the following: registration number, purchase date, version and build number, and company or individual to which product is registered.
2. To have operating system, workstations, and local network installed and functional. R:BASE Technologies will NOT be responsible for resolving issues not pertaining to the software product.
3. Our support staff deals with advanced issues, therefore the person contacting R:BASE Technologies for assistance should be the system administrator or have other R:BASE/SQL experience and be able to understand and implement the advice given.
4. To have the database, application, and command files being reviewed, safely backed-up before attempting assistance. R:BASE Technologies will NOT be held responsible for lost data or corruption as a result of advice given.

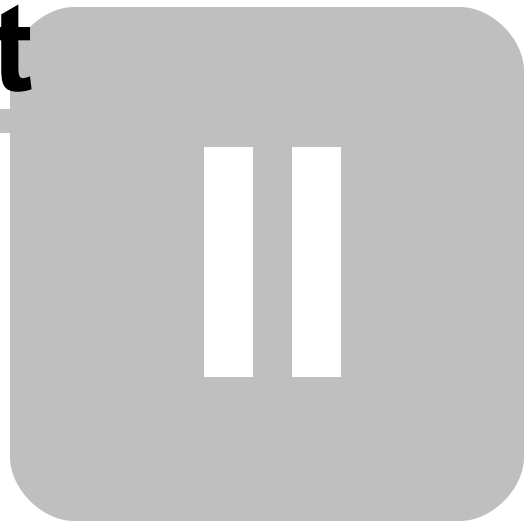
**B. R:BASE TECHNOLOGIES, INC. RESPONSIBILITIES.**

1. To provide quality assistance in a timely manner to aid in the installation of the product and elementary conversion of database, application, and command files within 30 days of the date of purchase.
2. To provide a reasonable solution for any solvable issue. Not all issues may be solved, and therefore we will acknowledge the existence of known issues, or bugs, which we are presently aware of, that have no reasonable work-around.

R:BASE Technologies reserves the right to limit the amount of support time allotted to a maximum of 2 HOURS during the 30-Day Complimentary Technical Support period. We also reserve the right to limit the quantity of calls from a particular licensee to 30 MINUTES in a single day. Issues are dealt with on a case-by-case basis, and are handled at the discretion of the support agent assigned to the case. Complimentary Support is limited to INSTALLATION and ELEMENTARY CONVERSION related issues ONLY. Our support hours are Monday through Friday, from 10:00 AM to 6:00 PM (EST).

For application, design, or advanced conversion assistance, R:BASE Technologies offers Technical Support Plans of various types to meet your needs. Please visit the Support page at <https://www.rbase.com/support> for details and pricing.

**Part**



## 2 Installation

### 2.1 System Requirements

The following system specifications are recommended for the optimal use of R:BASE and R:BASE-related software.

#### Workstation Hardware

- 2-Core 2GHz+ CPU
- 2 GB of available RAM (4 GB recommended)
- 2 GB of available hard disk space
- 1024x768 or higher resolution video adapter and display
- Standard mouse or compatible pointing device
- Standard keyboard

#### Server Hardware

- 2-Core 2GHz+ CPU
- 6 GB of available RAM (8 GB recommended)

#### Operating System

- Microsoft Windows 11 (Professional)
- Microsoft Windows 10 (Professional)
- Microsoft Windows Server 2025
- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016

#### Network

- Ethernet infrastructure (Gigabyte recommended)
- Internet connection recommended, but not required, for license activation, software updates, and support
- Anti-virus programs should exclude the R:BASE program, and any add-on product, executable and database files

### 2.2 Things You Will Need

- License Key

Before launching the installer, it is recommended that you have your 32-character License Key readily available. The License Key is provided in a document, with the email message, when the software was originally purchased. If you have lost or misplaced your License Key, please contact our Support Staff by email at [support@rbase.com](mailto:support@rbase.com).

- Internet Access

The computer where the software will be launched should have access to the Internet for activation. The Internet access is used to visit the R:BASE Technologies Web site to provide your required Activation Key.

In instances where the software will be installed on a computer that is not connected to the Internet, you must then contact R:BASE Technologies to provide information displayed on the computer screen. Please contact our Product Activation Staff by email at [activationkey@rbase.com](mailto:activationkey@rbase.com). The Registration Number must be provided. The Registration Number is displayed on the invoice/order slip, and within the email, when the software was originally purchased.

## 2.3 Software Installation

The installation of R:CAD Viewer is fully automated and does not require user intervention for the initial setup.

Run the installer ".exe", provided by download, while physically sitting at the workstation to begin the installation process, and read the installer screens for licensing and other information as the program installs.

### Installation Directory

C:\RBTI\RCADViewer11

### Files Installed

RCADViewer11.exe  
RCADViewer11.rbm  
RCADViewer11.chm  
RCADViewer11.pdf  
License.rtf  
ReadMe.txt

### Requirements:

#### Plugin

The R:CAD Viewer 11 Plugin file (RCADViewer11.rbm) must be placed in the R:BASE 11 program directory (default: C:\RBTI\RBG11) or the runtime/compiled application directory. The RCADViewer11.chm help file, which may be used by R:CAD Viewer, should also be placed with plugin.

## 2.4 Plugin Activation

R:BASE Plugins can be used to enhance, or extend R:BASE operations. Current R:BASE Plugins use the .RBM file extension.

To begin using any plugin product, the plugin must be registered for use.

The license type for R:BASE and R:BASE plugin products must match. The license keys supplied with Single Seat and 5 Seat plugin products will only be accepted within Single Seat and 5 Seat versions of R:BASE, and are not accepted within R:Compiler for R:BASE or Runtime for R:BASE programs. The same license structure is also in place for Runtime License Keys for plugin products, where the key will not be accepted within Single Seat and 5 Seat Licenses R:BASE.

### 2.4.1 R:BASE

To begin using a plugin product, you must register the software within R:BASE by selecting "Help" > "Product Activation" from the main Menu Bar. In this window, select the "Add New" button where you can enter or copy and paste the License Key you received with your product.

Only "Per Seat" License Keys are valid for this entry screen. All "Runtime" License Keys must be registered within R:Compiler for R:BASE or within Runtime for R:BASE separately.

A dialog box titled "License Information" with a close button (X) in the top right corner. It contains a label "Enter License Key:" followed by a series of seven empty text boxes separated by hyphens. At the bottom, there are three buttons: "Paste" with a clipboard icon, "OK" with a green checkmark icon, and "Cancel" with a red X icon.

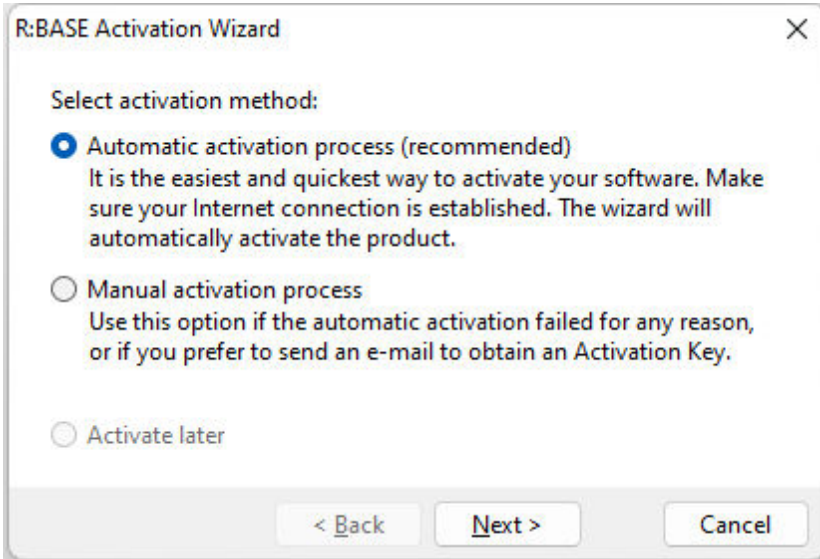
License Information

Enter License Key:

- - - - -

Paste OK Cancel

After entering the License Key, you will see a dialog to prompt for your activation method. The software can be activated automatically over the Internet, or manually by retrieving an Activation Key from R:BASE Technologies by email or over the phone. If you select "Later", you will be reminded each time R:BASE starts to activate your copy.

A dialog box titled "R:BASE Activation Wizard" with a close button (X) in the top right corner. It contains a label "Select activation method:" followed by three radio button options. The first option, "Automatic activation process (recommended)", is selected and includes a description: "It is the easiest and quickest way to activate your software. Make sure your Internet connection is established. The wizard will automatically activate the product." The second option is "Manual activation process" with the description: "Use this option if the automatic activation failed for any reason, or if you prefer to send an e-mail to obtain an Activation Key." The third option is "Activate later". At the bottom, there are three buttons: "< Back", "Next >", and "Cancel".

R:BASE Activation Wizard

Select activation method:

☒ Automatic activation process (recommended)  
It is the easiest and quickest way to activate your software. Make sure your Internet connection is established. The wizard will automatically activate the product.

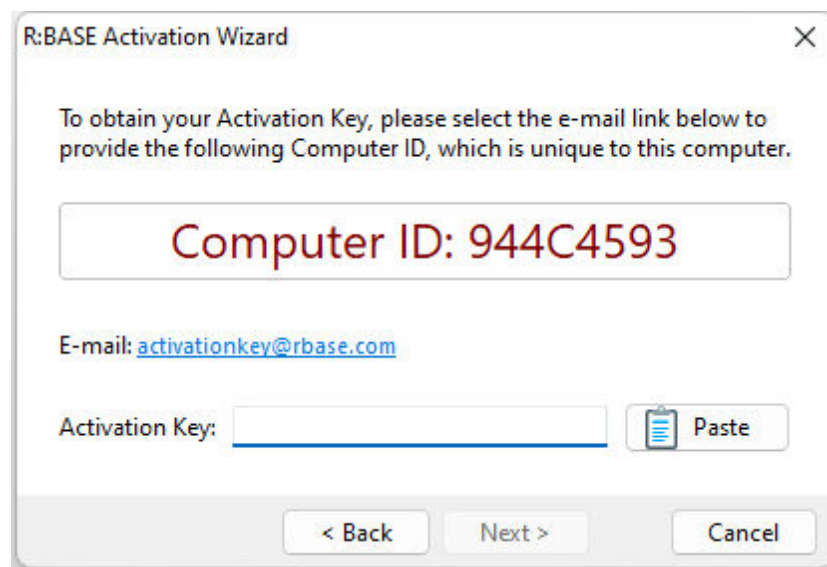
☐ Manual activation process  
Use this option if the automatic activation failed for any reason, or if you prefer to send an e-mail to obtain an Activation Key.

☐ Activate later

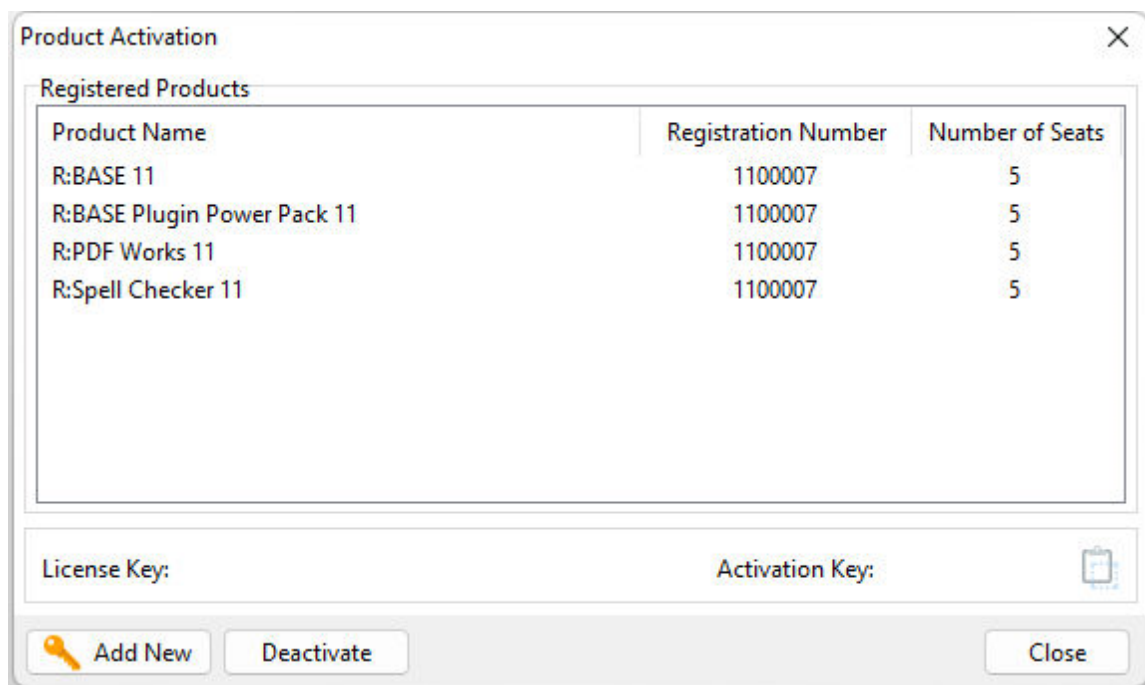
< Back Next > Cancel

When activating the software manually, you select the e-mail link to launch your email client and send a pre-formatted message to R:BASE Technologies that will contain your License Key and the displayed Computer ID. You will need to provide your R:BASE Registration Number and Computer ID.





At any time, you can review your product information by starting R:BASE, and from the Menu Bar clicking on "Help" > "Product Activation". Your R:BASE Registration Number is displayed on the window. You can also enter additional License Keys for R:BASE add-on products.



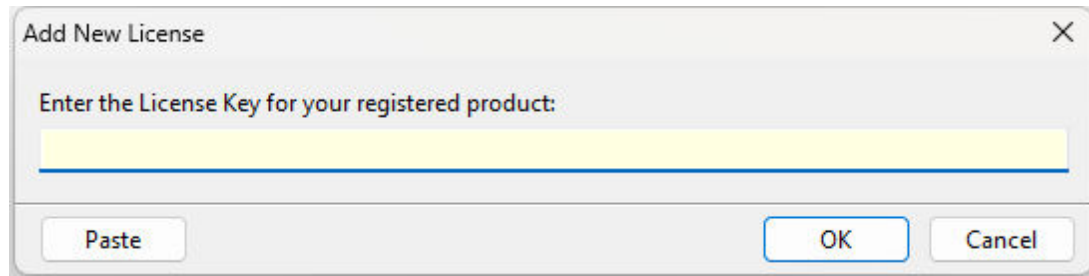
**Please be advised that if you are activating multiple workstations, it is highly recommended that you keep records of the computer name, Computer ID and Activation Key for future reference. Access to this information will prove convenient in the event of a hardware failure or license transfer when uninstalling R:BASE.**

**Please see:** [Uninstall/Reinstall](#)

## 2.4.2 R:Compiler for R:BASE

### Runtime License Key

Runtime license keys for an R:BASE Plugin must be stored within the compiled executable. A specific Runtime License Key would be provided after your purchase of the Runtime software product. Adding a Runtime License to your project can be done by selecting the "Add License" button, and pasting the appropriate Runtime License Key into the displayed dialog window.



After a Runtime License is added as a resource, it will be assigned a "Resource ID". This ID consists of the word "License" and an incrementing value for the number of licenses added to the executable.

### Plugin File (.RBM)

R:BASE Plugin files can be added and stored within the compiled executable or included within the R:BASE application directory. The Runtime license key pertaining to the R:BASE Plugin must be stored in the compiled executable.

Adding a Plugin to the list of resources can be performed by selecting the "Add Plugin" button on the Tool Bar. You will be prompted to locate the appropriate Plugin file with the .RBM file extension. After a Plugin file is added as a resource, it will be assigned a "Resource ID". This ID consists of the Plugin file name.

## 2.4.3 Runtime for R:BASE

After R:BASE Plugins are acquired for Runtime for R:BASE applications, the Plugin file must be included in the Runtime application folder, to be loaded when the Runtime application launches.

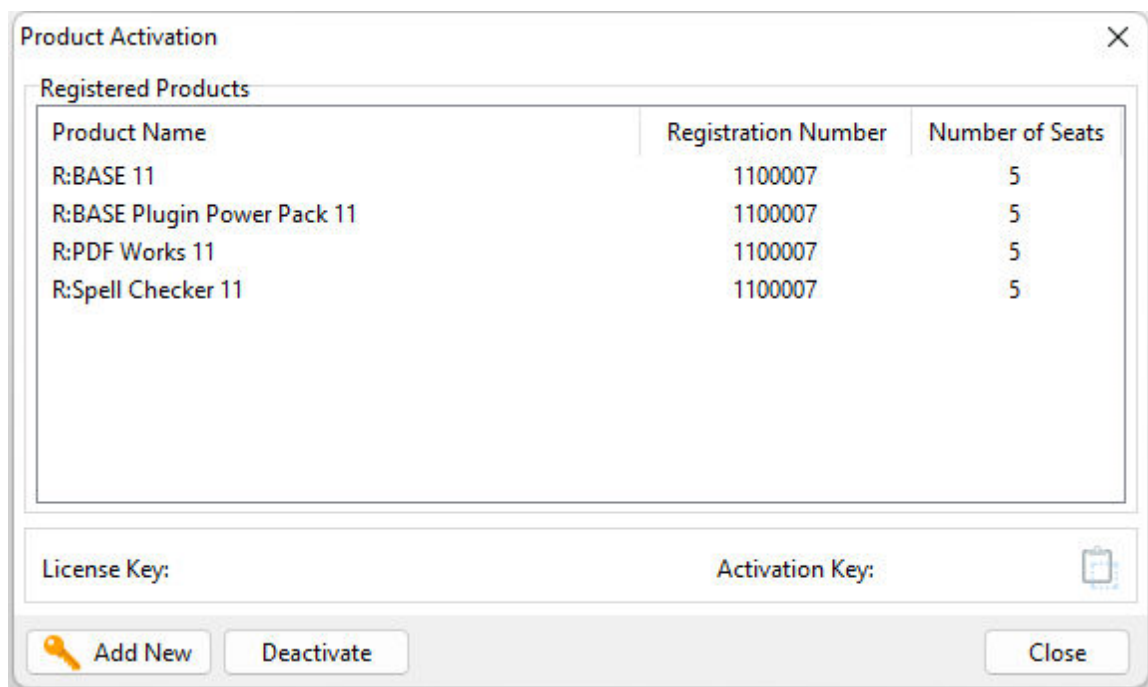
To load the Plugin, the License Key must be included into the Runtime for R:BASE session by adding the following PROPERTY command within the application startup file:

```
PROPERTY ADD_LICENSE #####-#####-#####-#####-#####-#####-#####-##### ' '
```

## 2.5 Uninstall

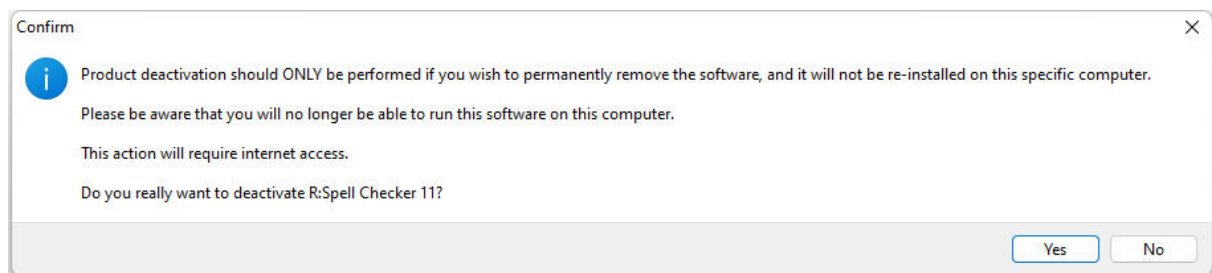
If a computer is no longer using R:Documenter, through license transfer or hardware failure, the Activation Key that was used on that computer must be submitted to R:BASE Technologies so we can then remove the Activation Key from our log. We will disable the Key, which will then free up that used activation. Once a key is reported to us as no longer in use and deactivated, it can no longer be used on that computer.

Product deactivation can be performed automatically from within R:BASE. To review your product information select "Help" > "Product Activation" from the Menu Bar. Here, the License Key and Activation Key for a selected product is available for review.



If the License Key for your product is not readily available for the license transfer, select the "Copy License Key" button to send your License Key to the clipboard.

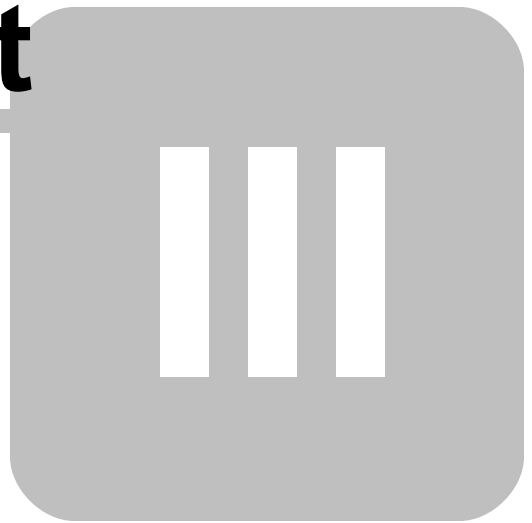
To deactivate a listed product, select it and press the "Deactivate" button. The below confirmation dialog will appear. After selecting "Yes", the product will be removed from the list.



After completing the deactivation of the product, it can be successfully reinstalled and activated.

# Part

---



## 3 Menu Bar

### File

- [Open...](#) - allows you to select and open DXF/DWG/BMP, etc. files
- [Recent Files](#) - provides a history of previously opened files
- [Save as...](#) - saves to BMP/JPG/EMF/WMF
- [Save as Big EMF](#) - saves a large EMF
- [Close](#) - closes the current file
- [Print](#) - opens the Print dialog to print the current image
- [Exit](#) - exits R:CAD Viewer

### View

- [Scale](#) - sets the zoom scale factor
- [Show Point...](#) - displays a necessary point on the CAD drawing
- [Find Text...](#) - locates text on the CAD drawing
- [Reopen CAD file with Same View](#) - reloads the CAD drawing to the original view
- [Reopen CAD file with SW Isometric View](#) - reloads the CAD drawing with a southwest isometric view
- [Fonts](#) - allows you to specify SFX fonts

### Image Colors

- [Colors Disabled](#) - displays the CAD drawing with no colors (gray)
- [Black and White](#) - displays the CAD drawing in black and white
- [Draw all Colors](#) - displays the CAD drawing with colors

### Snap

- [Snap All...](#) - places a focus square when the mouse cursor hovers over intersections























### Help

- [Help](#) - displays the R:CAD Viewer in-line help documentation
- [About...](#) - displays current information about your product such as version

**Part**

**IV**

## 4 Tool Bar

Button	Description
	Opens a file
	Saves changes
	Prints the current file
	Closes a opened file
	Zooms in
	Zooms Out
	Zooms the drawing to fit the window
	Specifies the zoom pan
	Displays the drawing's specific colored layers
	Displays the drawing without the border
	Displays the drawing colors, with colors disabled, only black and white, and all colors, with white and black background options
	Specifies line weight options
	Specifies arcs options
	Specifies font options
	Specifies right half display
	Allows orbital rotation mode
	Displays the X, Y, and Z axes
	Displays a grid
	Adds a bitmap border to a drawing
	Displays the help documentation
	Displays the product information
	Exits R:CAD Viewer

**Part**

**V**



## 5 Layers

The layers defined for the current document may be reviewed. Selecting the blue check mark or red X for each layer name within the corresponding column will alter the display on the drawing.

### On

Switches the layer display on and off, in order to have a better visibility of the drawing.

### Freeze

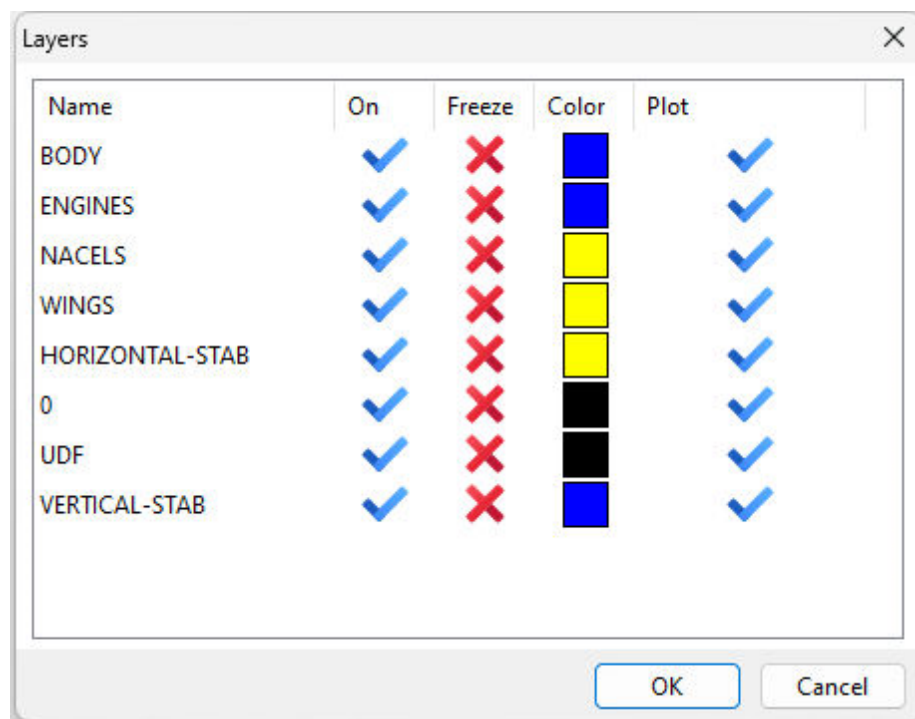
Freezes up the layer in order to ensure that nothing is overwritten or changed in the particular layer. If a layer is frozen, everything is freed/released. If you will be showing/hiding a layer frequently, use the "On" column to show/hide the layer. Otherwise, you can Freeze the layer and save memory.

### Color

Specifies the color for the layer.

### Plot

Switches the layer on and off for plotting.

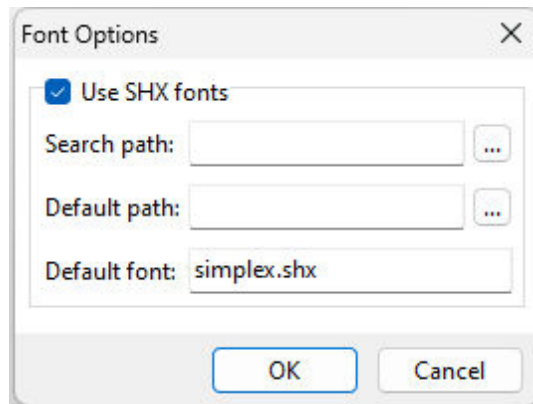


**Part**

**VI**

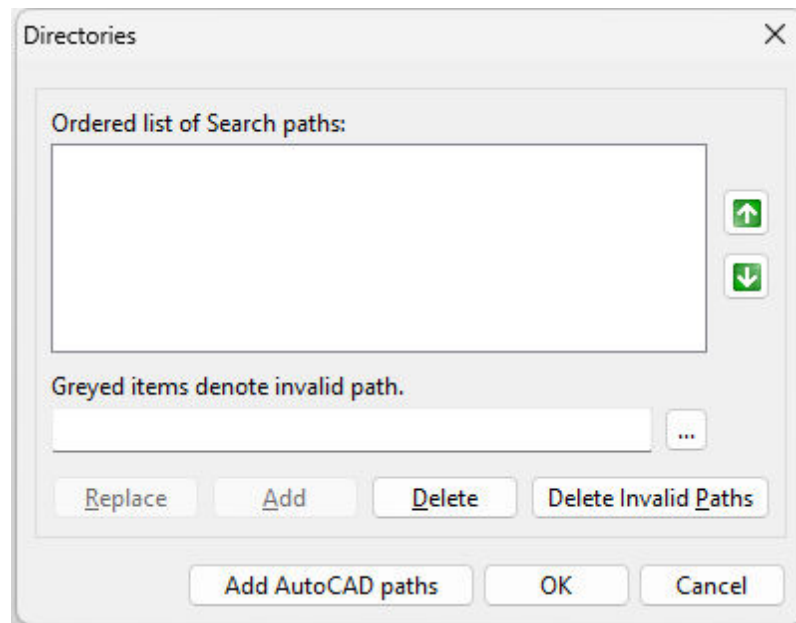
## 6 Fonts

SHX fonts can be used for drawings. Select the "..." button to add folders containing SHX fonts.



The "Directories" dialog helps manage what can be lengthy lists of paths, directories, and names of SHX units. Use this dialog box to add, replace, and delete path strings from a semicolon-delimited list. As you scroll through the list, the text box beneath the list displays the selected path. You can:

Add a new path to the list by clicking the "..." button, selecting a path, and clicking the Add button. Replace the selected entry by clicking the "..." button, selecting a path, and clicking the Replace button. Delete the selected entry by clicking the Delete button. The Add AutoCAD paths button provides SHX fonts from AutoCAD's SHX fonts folder.



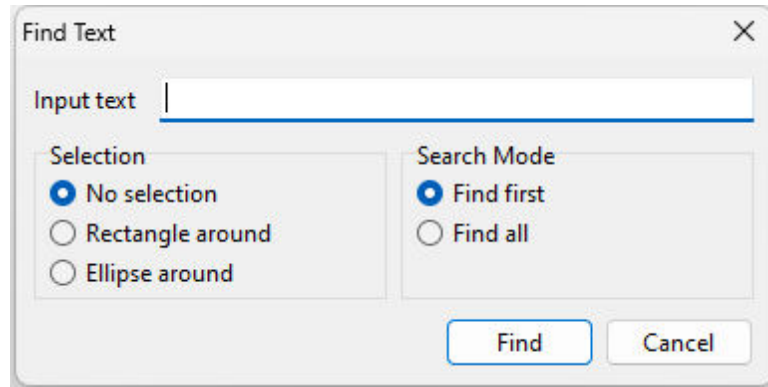
**Part**

---

**VII**

## 7 Find Text

Text can be located on drawings, with selection and search mode options to highlight matches.

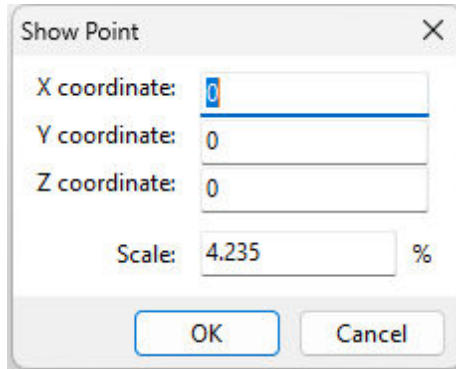


**Part**

**VIII**

## 8 Show Point

A location point can be identified and focused where the X, Y, and Z coordinate values and Scale fields can be specified.



The image shows a 'Show Point' dialog box with a close button (X) in the top right corner. It contains four input fields: 'X coordinate' with the value '0', 'Y coordinate' with the value '0', 'Z coordinate' with the value '0', and 'Scale' with the value '4.235' followed by a '%' symbol. At the bottom, there are two buttons: 'OK' and 'Cancel'.

Field	Value
X coordinate	0
Y coordinate	0
Z coordinate	0
Scale	4.235 %

**Part**

**IX**



## 9 Viewing Documents

In addition to the buttons, the mouse can also be used to navigate a drawing image.

- Right click and hold will allow you to move a drawing object
- The wheel button will allow you to zoom in and out when viewing a drawing object

**Part**

**X**

## 10 Command Syntax

### Syntax:

```
PLUGIN RCADViewer vResult | <parameter> <value>
```

### Where:

vResult is the text variable to return the status, such as 'OK' or the exact -ERROR- message

### Parameters:

Parameter	Value	Description
LOAD_FILE_NAME	value	specifies the complete path and file name to load a file
MENU_BAR	ON (default) OFF	shows/hides the main menu
TOOL_BAR	ON (default) OFF	shows/hides the full toolbar
FILE_BUTTONS	ON (default) OFF	shows/hides the Open, Save, Print, Close buttons
ZOOM_BUTTONS	ON (default) OFF	shows/hides the zoom related buttons
TOOL_BUTTONS	ON (default) OFF	shows/hides the rest of the toolbar buttons
INIT_X	value	specifies the X coordinate value for an initial location point
INIT_Y	value	specifies the Y coordinate value for an initial location point
INIT_Z	value	specifies the Z coordinate value for an initial location point
INIT_SCALE	value	specifies the scale percent value for an initial location point

### Note:

- When specifying a file to load, you MUST specify the full path to the file.
- Returned variable name and the parameters must be separated by a "|" pipe character.
- If the TOOL\_BAR parameter is OFF, the entire toolbar is hidden and settings for the individual button groups are ignored.

**Part**

**XI**

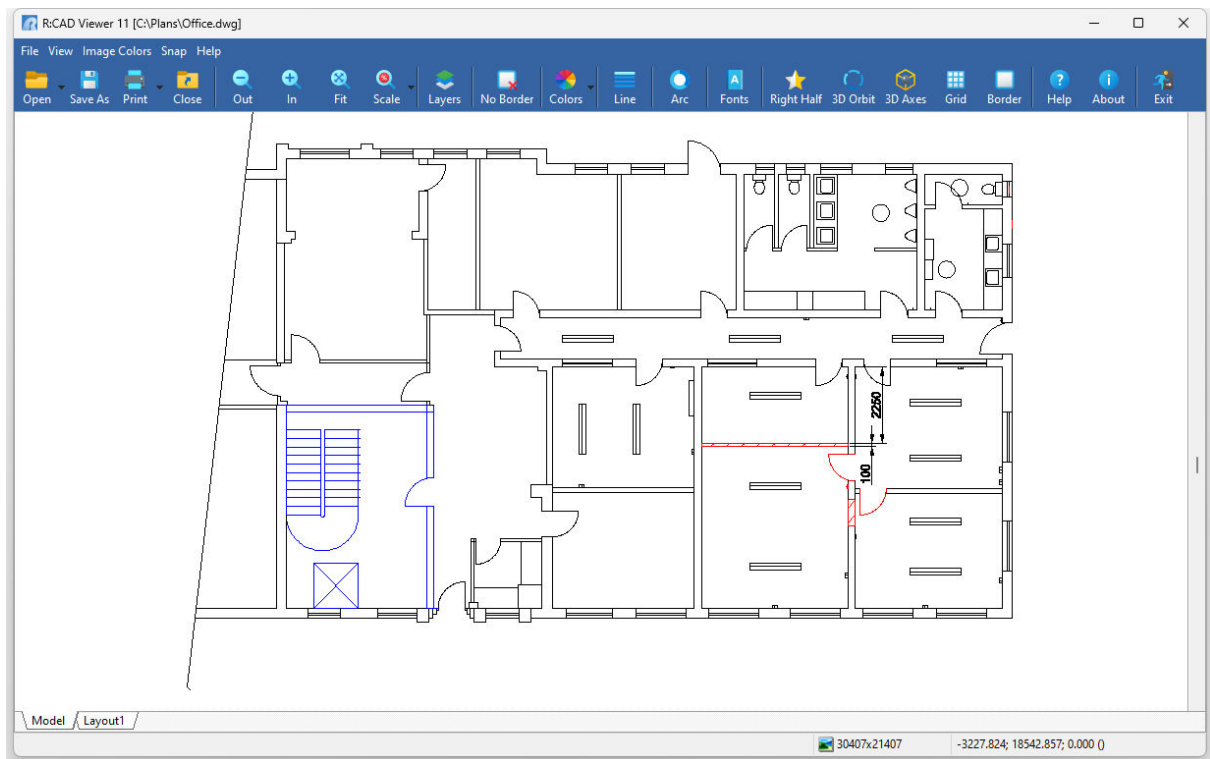
## 11 Examples

### Example 01:

-- The following example will launch R:CAD Viewer  
PLUGIN RCADViewer vResult

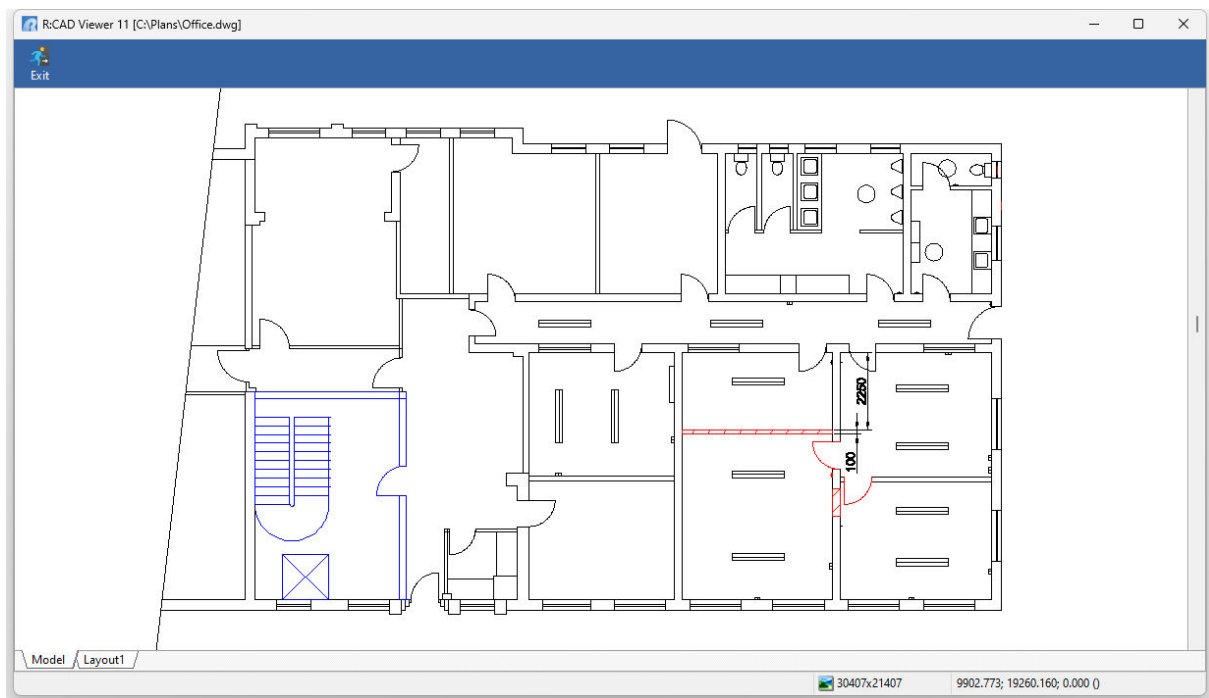
### Example 02:

-- The following example will launch R:CAD Viewer and loads a .DWG file  
PLUGIN RCADViewer vResult|LOAD\_FILE\_NAME C:\Plans\Office.dwg

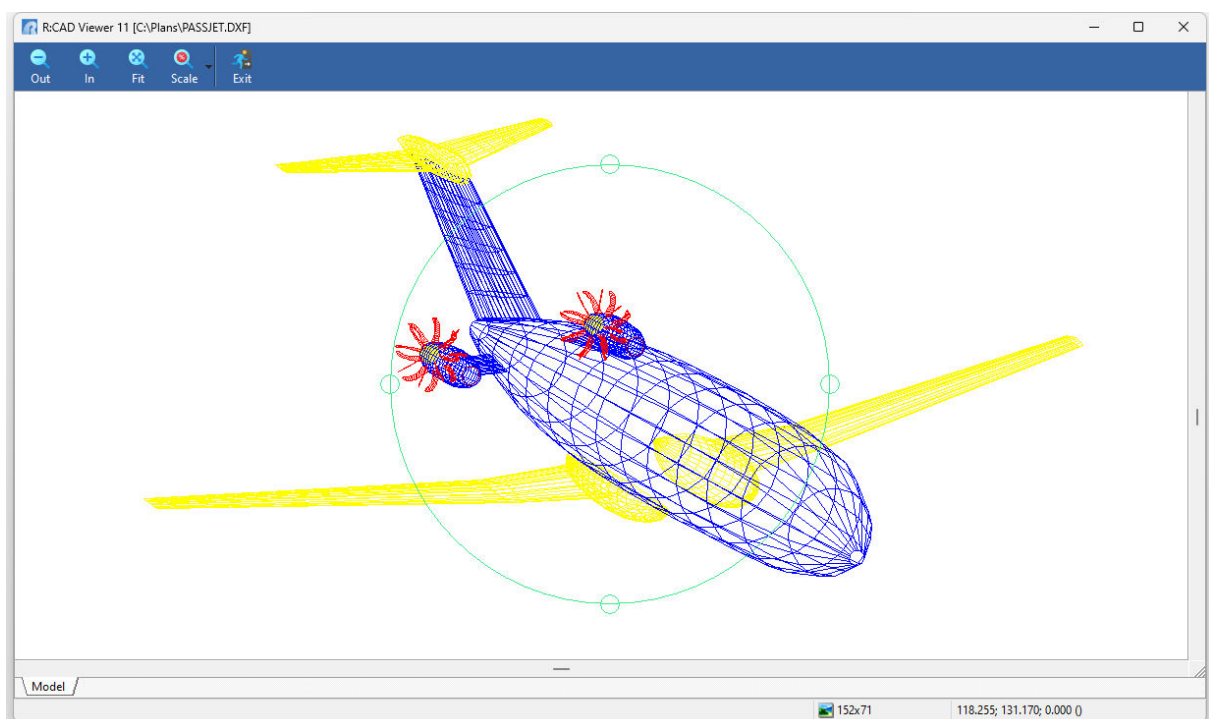


### Example 03:

-- The following example will launch R:CAD Viewer and loads a .DWG file with the drawing only:  
PLUGIN RCADViewer vResult|LOAD\_FILE\_NAME C:\Plans\Office.dwg|MENU\_BAR  
OFF|TOOL\_BAR OFF

**Example 04:**

-- The following example will launch R:CAD Viewer and loads a .DWG file  
 -- with just the zoom buttons, and defines the initial view by coordinates and scale  
 PLUGIN RCADViewer vResult|LOAD\_FILE\_NAME C:\Plans\PASSJET.DXF +  
 |INIT\_X -75|INIT\_Y 20|INIT\_Z 10|INIT\_SCALE 200 +  
 |MENU\_BAR OFF|FILE\_BUTTONS OFF|TOOL\_BUTTONS OFF





**Part**

---

**XII**



## 12 Technical Support

Please read over the help documentation at least once before seeking support. We have worked very hard to make the help documentation clear and useful, but concise. It is suggested that you reread these instructions once you have become accustomed to using the software, as new uses will become apparent.

If you have further questions, and cannot find the answers in the documentation, you can obtain information from the below sources:

- Email our Technical Support Staff at: [support@rbase.com](mailto:support@rbase.com)
- Access the R:BASE Technologies Support home page online at <https://www.rbase.com/support>

You may be required to purchase a technical support plan. Several support plans are available to suit the needs of all users. [Available Technical Support Plans](#)

Please be prepared to provide the following:

- The product registration number, which is located on the invoice/order slip for the purchased product
- The type of operating system and hardware in use
- Details regarding your operating environment; such as available memory, disk space, your version of R:BASE, local area network, special drivers, related database structures, application files, and other files that are used or accessed by your application

All provide information will be used to better assist you.

R:BASE Technologies has a number of different services available for R:BASE products. As a registered user, you will receive information about new features for R:BASE and other R:BASE Technologies products. Please remember to register your software. <https://www.rbase.com/register/>

**Part**

**XIII**

## 13 Useful Resources

- . R:BASE Home Page: <https://www.rbase.com>
- . Up-to-Date R:BASE Updates: <https://www.rbaseupdates.com>
- . Current Product Details and Documentation: <https://www.rbase.com/rbg11>
- . Support Home Page: <https://www.rbase.com/support>
- . Product Registration: <https://www.rbase.com/register>
- . Official R:BASE Facebook Page: <https://www.facebook.com/rbase>
- . Sample Applications: <https://www.razzak.com/sampleapplications>
- . Technical Documents (From the Edge): <https://www.razzak.com/fte>
- . Education and Training: <https://www.rbase.com/training>
- . Product News: <https://www.rbase.com/news>
- . Upcoming Events: <https://www.rbase.com/events>
- . R:BASE Online Help Manual: <https://www.rbase.com/support/rsyntax>
- . Form Properties Documentation: <https://www.rbase.com/support/FormProperties.pdf>
- . R:BASE Beginners Tutorial: <https://www.rbase.com/support/rtutorial>
- . R:BASE Solutions (Vertical Market Applications): <https://www.rbase.com/products/rbasesolutions>

**Part**

**XIV**

## 14 Feedback

### **Suggestions and Enhancement Requests:**

From time to time, everyone comes up with an idea for something they'd like a software product to do differently.

If you come across an idea that you think might make a nice enhancement, your input is always welcome.

Please submit your suggestion and/or enhancement request to the R:BASE Developers' Corner Crew (R:DCC) and describe what you think might make an ideal enhancement. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the request. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted enhancement request.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to [rdcc@rbase.com](mailto:rdcc@rbase.com).

### **Reporting Bugs:**

If you experience something you think might be a bug, please report it to the R:BASE Developers' Corner Crew. In R:BASE, the R:DCC Client is fully integrated to communicate with the R:BASE development team. From the main menu bar, choose "Help" > "R:DCC Client". If you do not have a login profile, select "New User" to create one.

You will need to describe:

- What you did, what happened, and what you expected to happen
- The product version and build
- Any error message displayed
- The operating system in use
- Anything else you think might be relevant

If you have a sample you wish to provide, have the files prepared within a zip archive prior to initiating the bug report. You will be prompted to upload any attachments during the submission process.

Unless additional information is needed, you will not receive a direct response. You can periodically check the status of your submitted bug.

If you are experiencing any difficulties with the R:DCC Client, please send an e-mail to [rdcc@rbase.com](mailto:rdcc@rbase.com).

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