

# R:DXF 11



## Help Manual



# R:DXF 11

## Manual

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*by R:BASE Technologies, Inc.*

*Welcome to R:DXF 11!*

*R:DXF is an Plugin for displaying Drawing Exchange Format (DXF) CAD data file format images in R:BASE forms and reports.*

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**Part**



# 1 Introduction

## 1.1 Introducing R:DXF 11

R:DXF is an Plugin for displaying Drawing Exchange Format (DXF) CAD data file format images in R:BASE forms and reports. R:DXF supports the ability to display DXF images within DB Image and Variable Image form controls, as well as Image, DB Image, and Variable Image report controls.

Command syntax options allow images to be displayed with different file types, draw modes, visibility scaling, and display dimensions.

The automatically defined [DXF\\_IMG\\_CTRL\\_SCALE](#) variable allows dynamic image scaling without having to reload forms.

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First Edition

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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.

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## **1.4 Complimentary Support**

### **30 DAY LIMITED COMPLIMENTARY TECHNICAL SUPPORT**

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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.

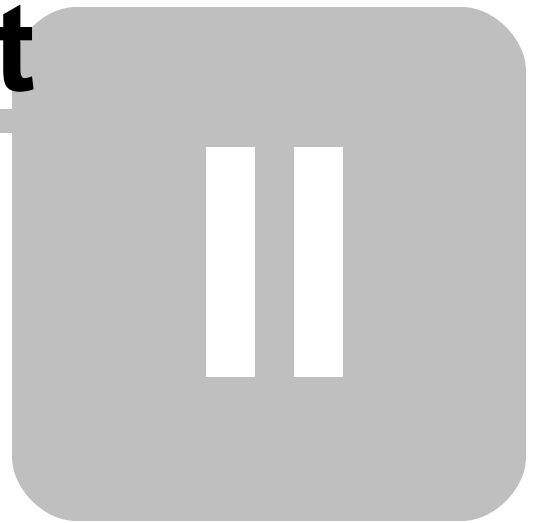
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1. To provide quality assistance in a timely manner to aid in the installation of the product and elementary conversion of database, application, and command files within 30 days of the date of purchase.
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R:BASE 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 2022
- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012, 2012 R2

#### 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:DXF 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\RDXF11

### Files Installed

RDXF11.rbm  
RDXF11.chm  
RDXF11.pdf  
License.rtf  
ReadMe.txt

### Requirements:

#### Plugin and Dictionaries

The R:DXF 11 Plugin file (RDXF11.rbm) must be placed in the R:BASE 11 program directory (default: C:\RBTI\RBG11) or the runtime/compiled application directory.

## 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.

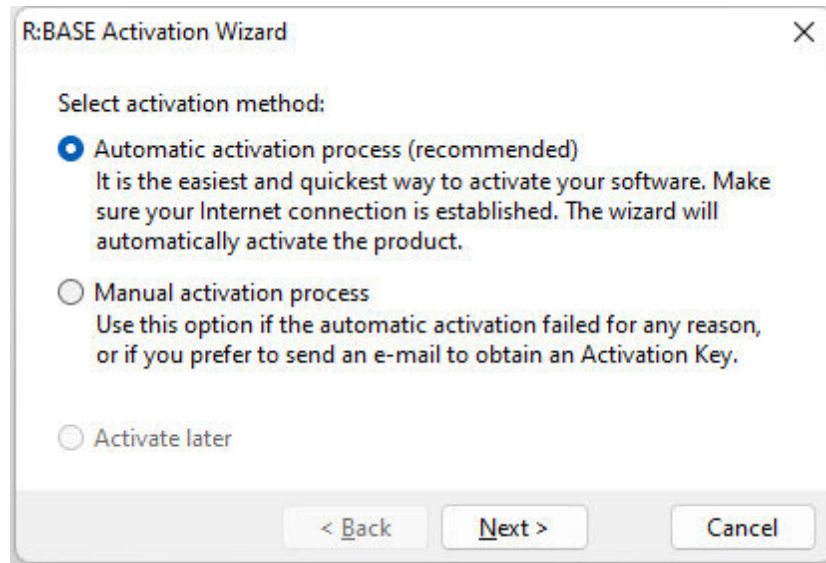
### 2.4.1 R:BASE

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.

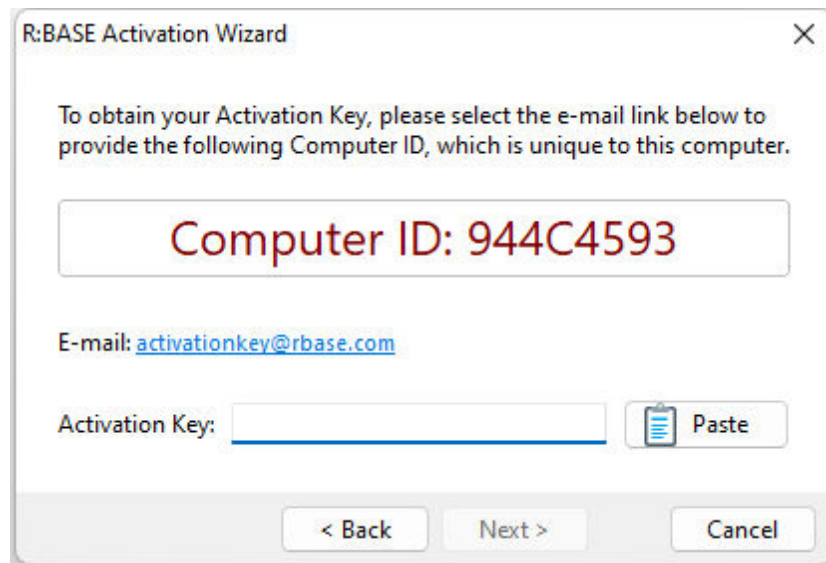
Only "Per Seat" License Keys are valid for this entry screen. All "Runtime" License Keys must be registered within R:Compiler for R:BASE or within Runtime for R:BASE separately.



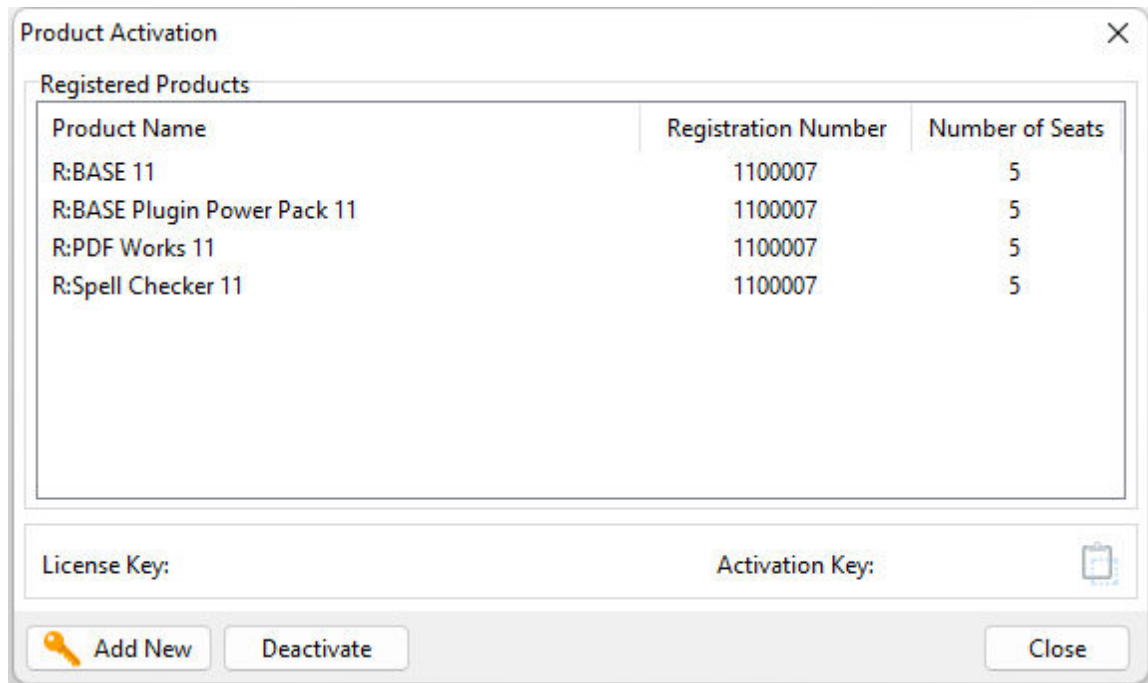
After entering the License Key, you will see a dialog to prompt for your activation method. The software can be activated automatically over the Internet, or manually by retrieving an Activation Key from R:BASE Technologies by email or over the phone. If you select "Later", you will be reminded each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



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.



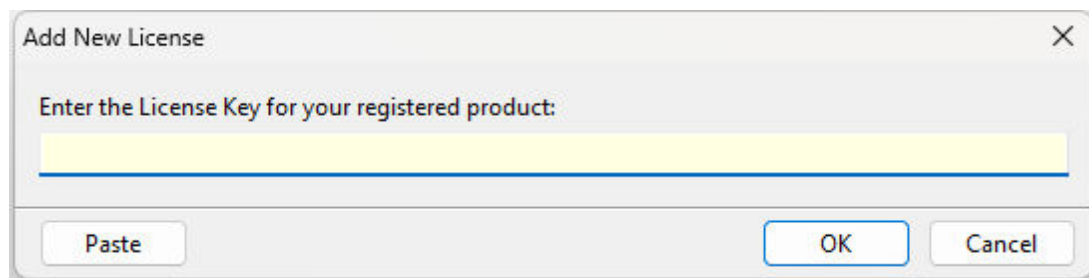
**Please be advised that if you are activating multiple workstations, it is highly recommended that you keep records of the computer name, Computer ID and Activation Key for future reference. Access to this information will prove convenient in the event of a hardware failure or license transfer when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

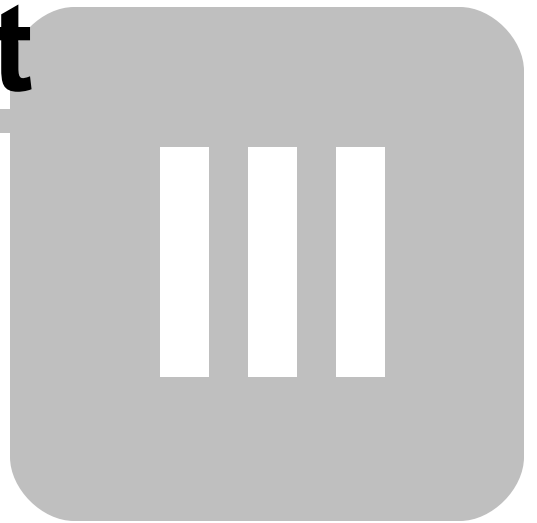
After R:BASE Plugins are acquired for Runtime for R:BASE applications, the Plugin file must be included in the Runtime application folder, to be loaded when the Runtime application launches.

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 #####-#####-#####-#####-#####-#####-#####-##### ' '
```



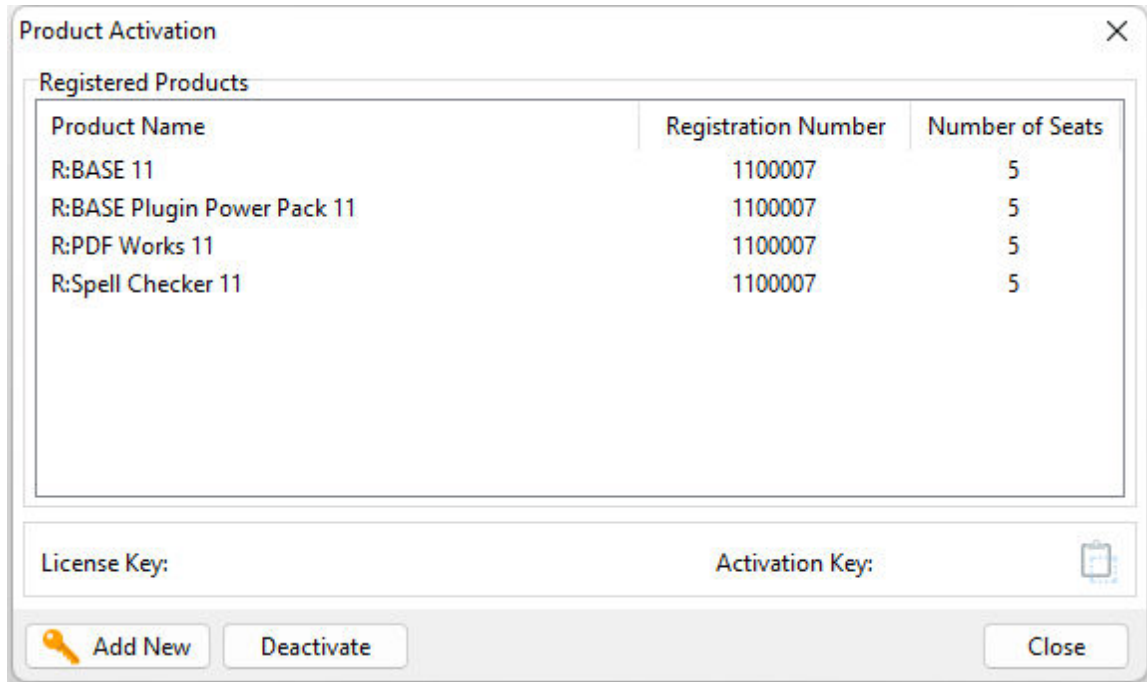
**Part**



### 3 Uninstall

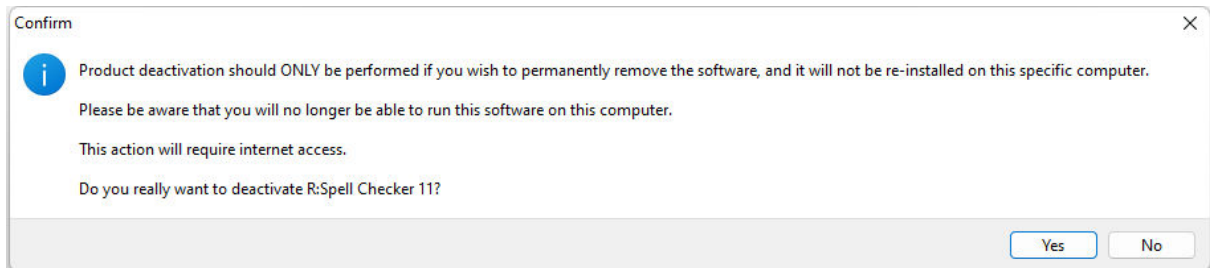
If a computer is no longer using R:DXF, through license transfer or hardware failure, the Activation Key that was used on that computer must be submitted to R:BASE Technologies so we can then remove the Activation Key from our log. We will disable the Key, which will then free up that used activation. 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**



## 4 Command Syntax

The R:DXF options can be initialized by assigning each of the options with the PLUGIN command.

### Syntax:

```
PLUGIN RDXF VarbitVarName|<parameter> <value>
```

### Where:

"**VarName**" is the resulting variable, which will return a NULL value.

"**Parameter**" is the available option recognized by the plugin.

"**Value**" is the specific value used by the available parameter.

### Parameters:

Parameter	Values	Description
INPUT_FILE	file name, with extension	Specifies the DXF file name
DRAW_MODE	SCALE CLIP STRETCH GROW CENTER	Specifies the draw mode for the output image file
SCALE	1.0 (default)	Specifies the amount of detail for the image. Recommended values are between 0.1 and 2.0.  A value too low will result in a pixilated image. A value too high will result in very thin lines and eventual loss of detail.
OUT_FORMAT	BMP (default) JPG PNG WMF EMF	Specifies the output image file. BMP is the default
DIM	LEFT TOP RIGHT BOTTOM	Specifies the dimensions for the output image file

### Notes:

- Each option must be separated by the pipe "|" character.
- The INPUT\_FILE and DRAW\_MODE parameters are required.

**Part**



## 5 DXF Images In Forms

R:DXF supports the ability to display DXF images within DB Image and Variable Image form controls.

### **Image Scale Variable**

An automatically defined variable, DXF\_IMG\_CTRL\_SCALE (double), is generated when a form image control loads DXF images. The displayed image will use the specified [SCALE](#) value used in the PLUGIN command, or the default value (1.0). If the DXF\_IMG\_CTRL\_SCALE value is changed on the form, the variables can be recalculated to modify the image scale, without having to reload the form.

### **Stretch DXF**

Within the controls, a "Stretch DXF" property is available. Setting the value to false will render the image using the correct aspect ratio.

DB Image Properties

Properties Effects EEPs Variable Links

Size and Coordinates

Left: 232 Width: 105

Top: 40 Height: 105

Align:  None

Hint

Table and Field

Table Name: Customer (Customer Information)

Data Field:

Background Color

Window

Image Number

0

Attributes

- Read Only
- Tab Stop
- Center
- Stretch
- Proportional
- Show Hint
- Transparent
- Stretch DXF
- Force Opaque
- Low Resolution View Finder

Component ID

RImage1

? OK Cancel Apply

**Part**

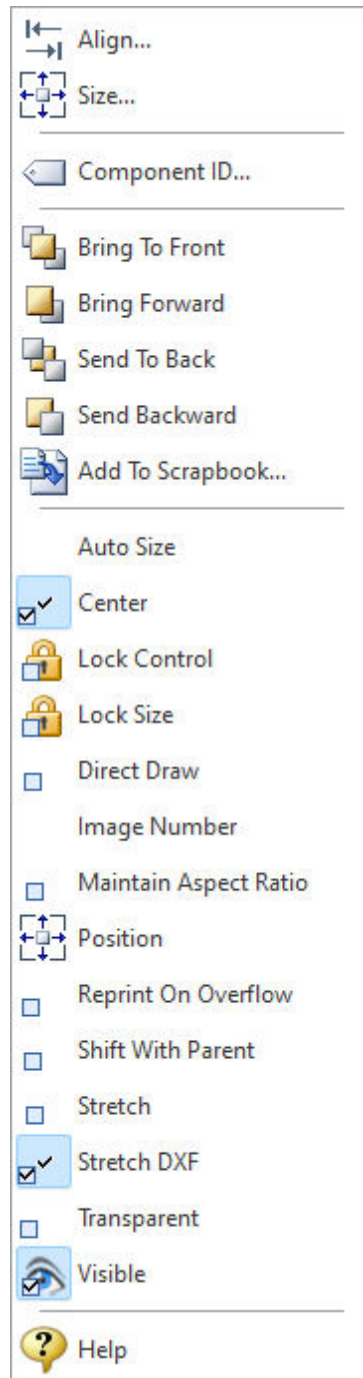




## 6 DXF Images In Reports/Labels

R:DXF supports the ability to display DXF images within Image, DB Image, and Variable Image report controls.

Within the controls, a "Stretch DXF" property is available. Setting the value to false will render the image using the correct aspect ratio.



**Part**



## 7 Examples

**Example 01:**

-- Specifies the house248.dxf file to be displayed on a form as a JPG, in scale draw mode, with the scale value of 0.8

```
PLUGIN RDXF vDXF_File +
| INPUT_FILE=house248.dxf +
| DRAW_MODE=SCALE +
| OUT_FORMAT=JPG +
| SCALE=0.8
```

**Example 02:**

-- Specifies the gate833.dxf file to be displayed on a form as a PNG, in center draw mode, with the 0,0,640,480 dimensions

```
PLUGIN RDXF vDXF_File +
| INPUT_FILE=gate833.dxf +
| DRAW_MODE=CENTER +
| OUT_FORMAT=JPG +
| DIM=0,0,640,480
```

**Part**



## 8 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/>

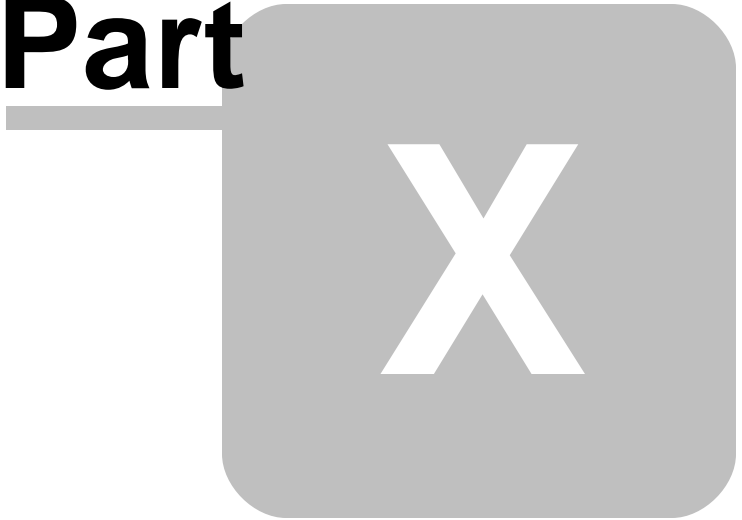
**Part**

**IX**

## 9 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**





## 10 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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