

R:BASE Plugin Power Pack 11



Help Manual



R:BASE Plugin Power Pack 11

Manual

by R:BASE Technologies, Inc.

Welcome to the R:BASE Plugin Power Pack 11!

The R:BASE Plugin Power Pack is a collection of exclusive and enhanced R:BASE Plugins to increase the functionality of your R:BASE applications. An R:BASE Plugin is a file containing data used to alter, enhance, or extend the operation of R:BASE.

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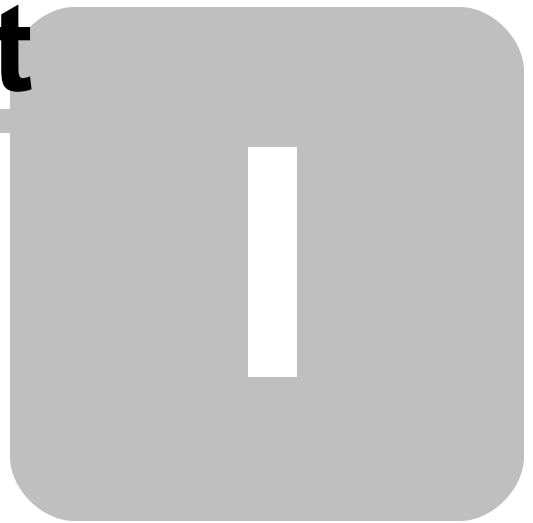
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Part



1 Introduction

1.1 R:BASE Plugin Power Pack 11

The R:BASE Plugin Power Pack is a collection of R:BASE Plugins used to alter, enhance, or extend the operation of R:BASE. R:BASE Plugins are made available through different means. Many Plugins are included with the purchase of R:BASE. Other Plugins are included with R:BASE Technologies, Inc. add-on products such as R:Mail, R:Charts, RBZip, R:PDFWorks, and more.

R:BASE 11 Plugins use the .RBM file extension and are only supported for the R:BASE 11 version.

Many software products now used a technology called a "PLUGIN". This technology is based on API, which is declared by the program creator. A sample of products which use Plugins includes: WinAMP, Adobe Photoshop, ACDSee, etc. It means that the computer programmers can enhance and improve product possibilities using programming languages such as C/C++, Pascal, Delphi, and Basic.

An R:BASE Plugin is a file containing data used to alter, enhance, or extend the operation of R:BASE. R:BASE Plugins are made available through different means. Most Plugins are included with the purchase of R:BASE. Other Plugins are included with R:BASE Technologies, Inc. add on products such as R:Charts, RBZip, R:PDFMerge, and R:Fax.

The Plugins described in this document are files which were created by R:BASE Technologies, Inc.

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First Edition

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- Our support staff deals with advanced issues, therefore the person contacting RBTI for assistance should be the system administrator or have other R:BASE/SQL experience and be able to understand and implement the advice given.
- 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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- To provide a reasonable solution for any resolvable issue. Not all issues are resolvable, and therefore we will acknowledge the existence of known issues or "bugs" which we are presently aware of, that have no reasonable work-around.

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For assistance on your APPLICATIONS, DESIGN, or ADVANCED CONVERSION issues, we offer Technical Support Plans of various types to meet your needs. Please visit the SUPPORT area of our website at www.rbase.com for details and pricing.

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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.

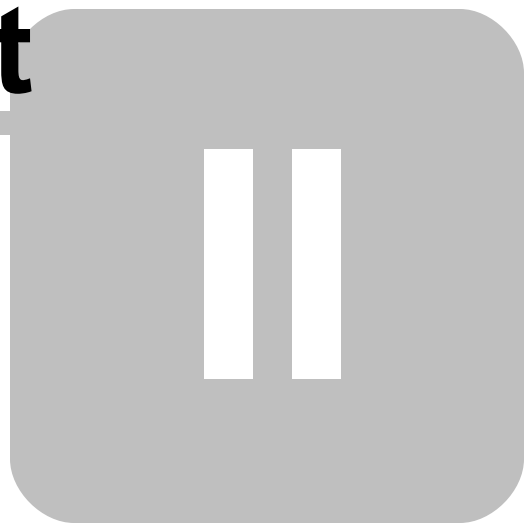
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1. To provide quality assistance in a timely manner to aid in the installation of the product and elementary conversion of database, application, and command files within 30 days of the date of purchase.
2. To provide a reasonable solution for any 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 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.

- 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. 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 the R:BASE Plugin Power Pack 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\RBASEPluginPowerPack11

Files Installed

RBASEPluginPowerPack11.rbm
libeay32.dll
ssleay32.dll
RBASEPluginPowerPack11.pdf
RBASEPluginPowerPack11.chm
License.rtf
Readme.txt

Requirements:

Plugin and DLLs

The R:BASE Plugin Power Pack 11 plugin file (RBASEPluginPowerPack11.rbm) must be placed in the R:BASE 11 program directory (default: C:\RBTI\RBG11) or the runtime/compiled application directory. The SSL DLLs (libeay32.dll, ssleay32.dll) must also be placed in the folder for HTTPS functionality.

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.

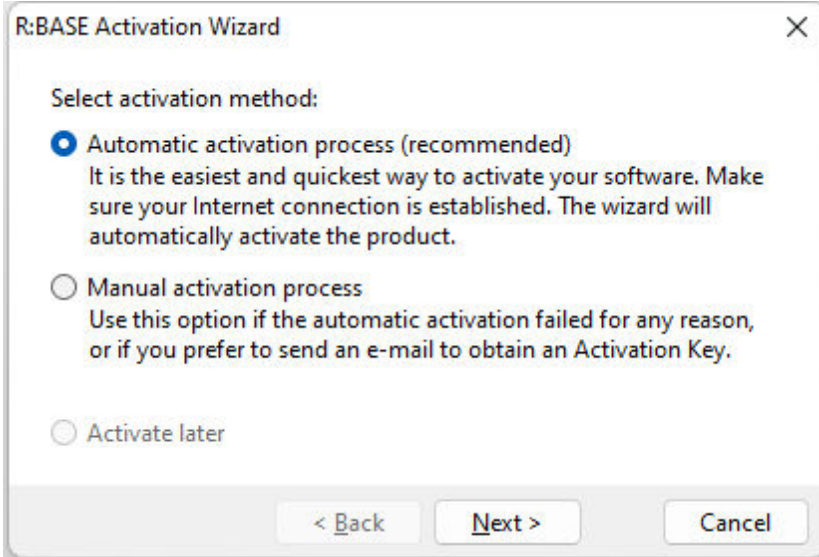
2.4.1 R:BASE

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.

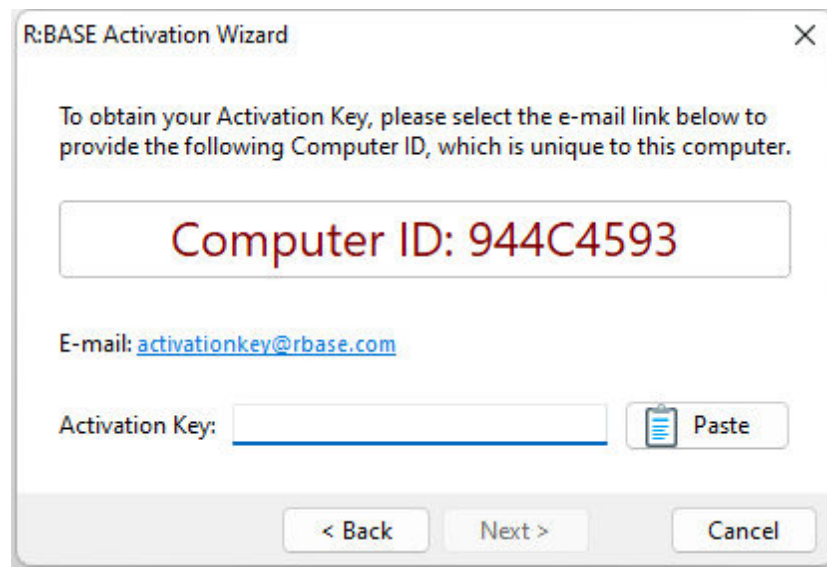
Only "Per Seat" License Keys are valid for this entry screen. All "Runtime" License Keys must be registered within R:Compiler for R:BASE or within Runtime for R:BASE separately.

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. Below the input fields is a "Paste" button with a clipboard icon, and to its right are "OK" and "Cancel" buttons with green and red checkmarks respectively.

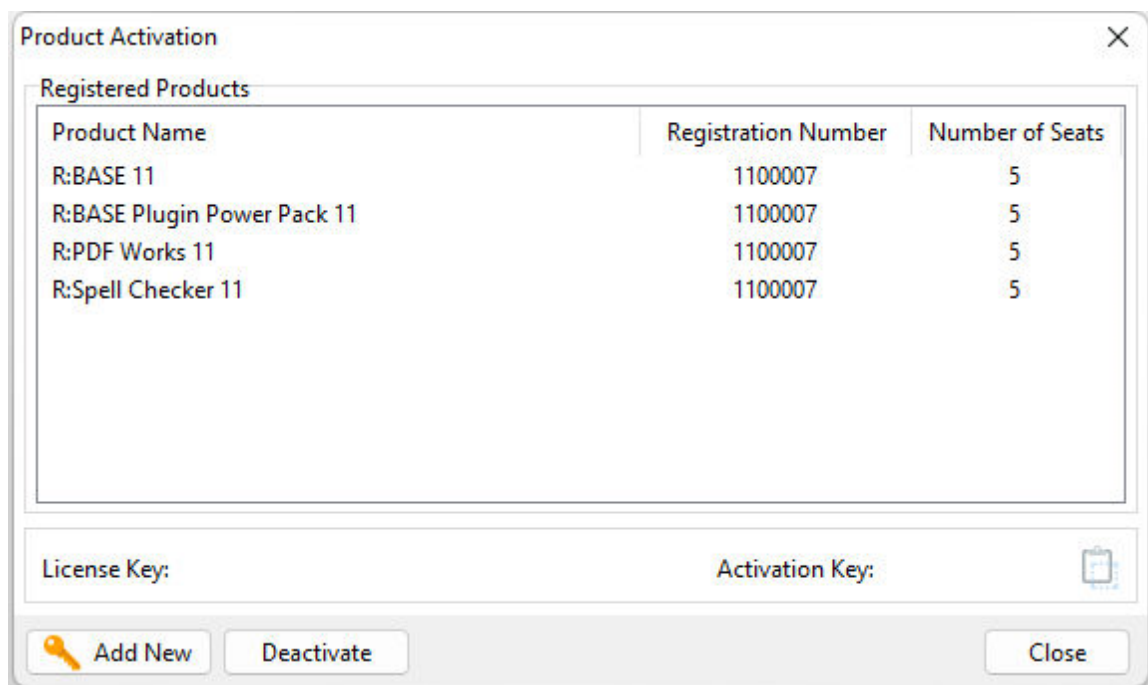
After entering the License Key, you will see a dialog to prompt for your activation method. The software can be activated automatically over the Internet, or manually by retrieving an Activation Key from R:BASE Technologies by email or over the phone. If you select "Later", you will be reminded each 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 are "< Back", "Next >", and "Cancel" buttons.

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.



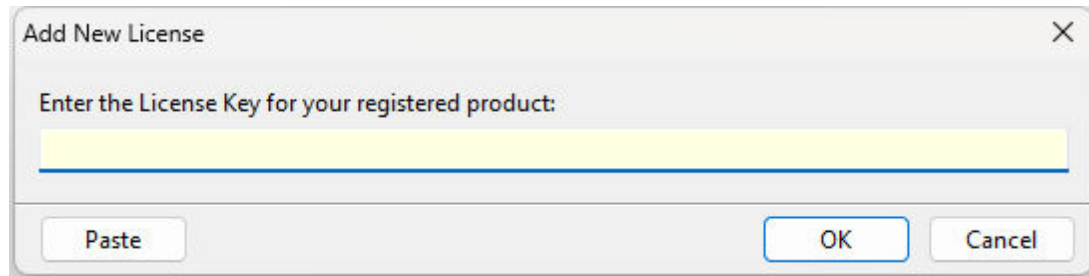
Please be advised that if you are activating multiple workstations, it is highly recommended that you keep records of the computer name, Computer ID and Activation Key for future reference. Access to this information will prove convenient in the event of a hardware failure or license transfer when uninstalling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

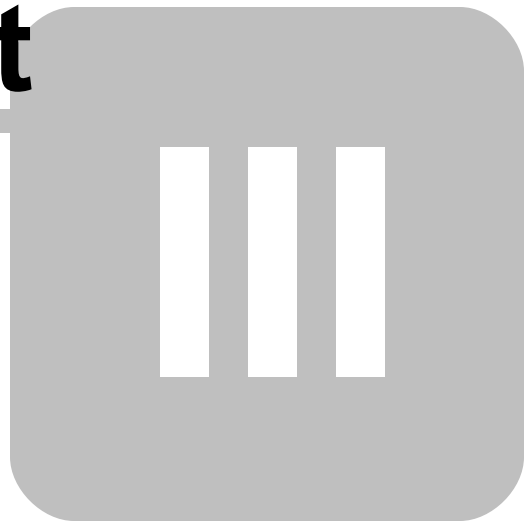
2.4.3 Runtime for R:BASE

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

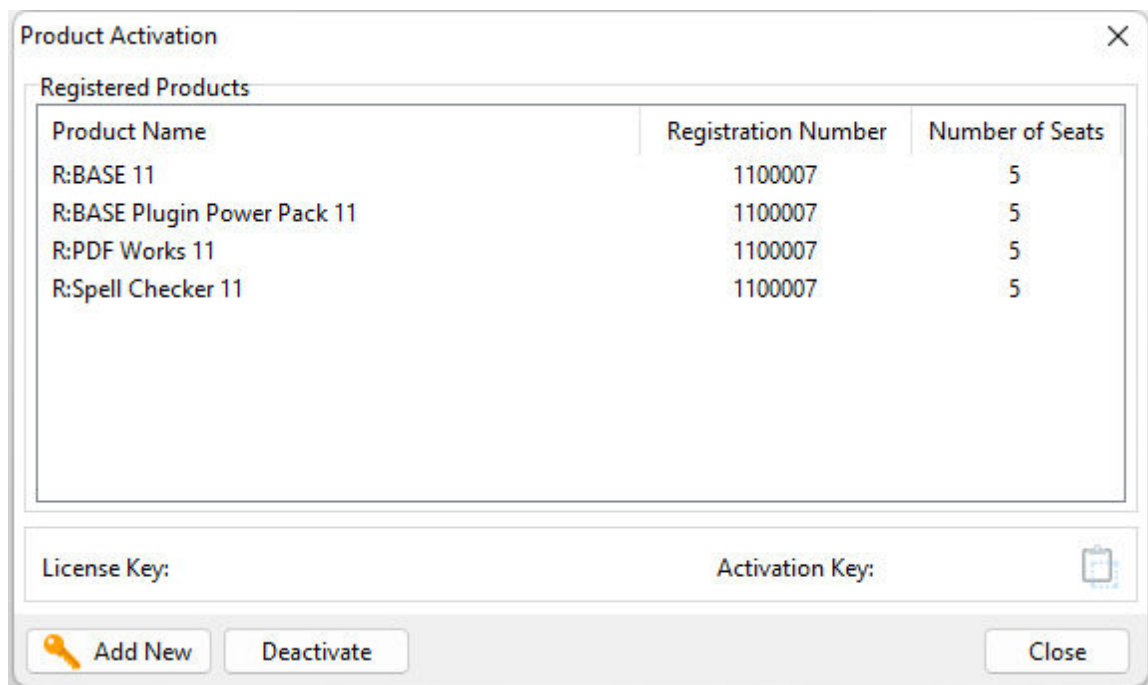
Part



3 Uninstall

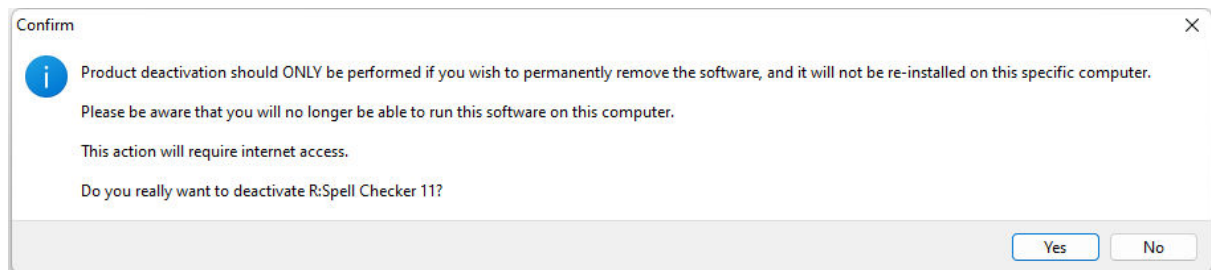
If a computer is no longer using the R:BASE Plugin Power Pack, through license transfer or hardware failure, the Activation Key that was used on that computer must be submitted to R:BASE Technologies so we can then remove the Activation Key from our log. We will disable the Key, which will then free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

IV

4 Plugins

4.1 Embedded Within R:BASE

4.1.1 ExtForm

The ExtForm Plugin is used to capture or assign the version of an external form file.

Syntax:

```
PLUGIN ExtForm VarName|<options>
```

Options:

Option	Value	Description
ACTION	GET_VERSION_NUMBER SET_VERSION_NUMBER	Specifies to capture or assign the version number of an external form file
FILE	value	Specifies the external form file name
VERSION	value	Specifies the version number for the SET_VERSION_NUMBER parameter

Where:

VarName is the variable name to return "OK" or an error message

vRBTFormVer is a generated variable for the GET_VERSION_NUMBER parameter, which holds the version number as an INTEGER value

Notes:

If the external form file does not exist, an error is returned to VarName.

Examples:

```
PLUGIN ExtForm vResult|ACTION GET_VERSION_NUMBER|FILE RRBW20.RFF
```

```
SHOW VAR
vRBTFormVer      = 9          INTEGER
vResult          = OK         TEXT
```

```
PLUGIN ExtForm vResult|ACTION SET_VERSION_NUMBER|FILE TreeView_Sample.RFF|
VERSION 10
```

```
SHOW VAR
vResult          = OK         TEXT
```

4.1.2 GetDBVersion

The GetDBVersion Plugin is used to capture the version for an R:BASE database.

Syntax:

```
PLUGIN GetDBVersion VarName|<Option>
```

Where:

VarName is the variable to return the database version

Option is the path and structure file name (.RX1, .RB1) for the database

Notes:

The returned variable value will be text.

Examples

```
PLUGIN GetDBVersion vVersion|C:\RBTI\USERMGMT.RX1
```

```
SHOW VAR
vVersion          = V11          TEXT
```

4.1.3 LoadDirectoryName

The LoadDirectoryName plugin is used to load a directory path into a variable by displaying a "Browse for Folder" dialog window for a user to browse the operating system. It does not appear in the R:BASE for Windows Plugins Menu. The LoadDirectoryName is included with the purchase of R:BASE.

Syntax:

```
PLUGIN LoadDirectoryName VarName|<parameters>
```

Where:

VarName is the variable to return the text value of the selected directory

Parameters:

Parameter	Value	Description
TITLE	value	Specifies the title caption
PATH_NAME	value	Specifies the starting location
WINDOW_STATE	MAX/MIN/NORMAL	Specifies the window state
HEIGHT	value	Specifies the window height
WIDTH	value	Specifies the window width
SHOW_BUTTONS	ON/OFF	Determines if the "Create Folder" and "Delete" buttons are displayed
CONTEXT_MENUS	ON/OFF	Determines if a menu is displayed when user right clicks
READ_ONLY	ON/OFF	Determines if the folders names can be altered
INCLUDE_NON_FOLDERS	ON/OFF	Determines if only folders will be displayed
OLE_DRAG	ON/OFF	Supports drag and drop
OLE_DROP	ON/OFF	Supports drag and drop
CREATE_FOLDER_ICON	ON/OFF	Determines if the "Create Folder" icon is displayed on the button
DELETE_FOLDER_ICON	ON/OFF	Determines if the "Delete" icon is displayed on the button
VIRTUAL_FOLDERS	ON/OFF	Determines if virtual folders can be seen
SHOW_HIDDEN	ON/OFF	Determines if hidden folders can be seen
OK_BUTTON_CAPTION	value	Specifies the caption for the "OK" button
CANCEL_BUTTON_CAPTION	value	Specifies the caption for the "Cancel" button
EXPAND_INITIAL_FOLDER	ON/CASCADE/OFF	Determines if; the initial folder node is expanded (ON), the initial folder and the sub-folders are expanded (CASCADE), the initial folder is not expanded (OFF, default).
AUTO_EXPAND	ON/OFF	Determines if single click will expand/close a node when clicked. Otherwise double click is used. This

	option is for clicking on nodes, not the tree structure.
--	--

Notes:

- Each option must be separated by pipe "|" character.
- A value of '[Esc]' will be returned if the [Cancel] button or Close Window [x] button of the folder selection dialog is selected.

Example:

```

PLUGIN LoadDirectoryName vDirName+
|PATH_NAME C:\RBTI\ +
|SHOW_BUTTONS ON+
|CREATE_FOLDER_ICON OFF+
|DELETE_FOLDER_ICON OFF+
|WIDTH 500+
|HEIGHT 400+
|READ_ONLY ON+
|INCLUDE_NON_FOLDERS OFF+
|SHOW_HIDDEN OFF+
|OK_BUTTON_CAPTION 'Load Folder'+
|EXPAND_INITIAL_FOLDER CASCADE+
|AUTO_EXPAND ON

```

4.1.4 LoadFileName

The LoadFileName plugin is used to load a file name into a variable by displaying a dialog window for the user to browse the operating system. The LoadFileNamePlus plugin replaced the LoadFileName Plugin with additional options to load a file name. It does not appear in the R:BASE for Windows Plugins Menu. The LoadFileName is included with the purchase of R:BASE.

Syntax:

```
PLUGINS LoadFileName VarName|<parameters>
```

Where:

VarName is the variable name to return the text value of the selected file

Parameters:

Parameter	Value	Description
FULLPATH	ON/OFF	Determines if the full path for the selected file is returned with the file name
TITLE	value	Specifies the title caption
FILTER	value	Filters the display files (Example: Text Files (*.txt)*.txt)
INITIAL_DIR	value	Specifies the initial directory when launched
NO_CHANGE_DIR	ON/OFF	Determines if the directory changes when the file is selected
MULTISELECT	ON/OFF	Determines if multiple files can be selected
SHOW_HIDDEN	ON/OFF	Determines if hidden files can be seen
NO_LONG_NAMES	ON/OFF	Determines if files not using the 8.3 naming convention are displayed. This is only supported with the OLD_STYLE parameter.
NO_NETWORK_BUTTON	ON/OFF	Determines if the network button is displayed. This is only supported with the OLD_STYLE parameter.
HIDE_READ_ONLY	ON/OFF	Determines if the "Open as Read Only" check box is displayed
NO_DEREFERENCE_LINKS	ON/OFF	Determines if shortcut links are valid or are de-referenced
DONT_ADD_TO_RECENT	ON/OFF	Determines if file selection is added to recently opened documents

ENABLE_SIZING	ON/OFF	Determines if the dialog window can be resized
OLD_STYLE	ON/OFF	Determines if the "old style" window is displayed
NO_VALIDATE	ON/OFF	Determines if validation for invalid characters is used

Notes:

- Each option must be separated by pipe "|" character.
- A value of '[Esc]' will be returned if the [Cancel] button or Close Window [x] button of the folder selection dialog is selected.

Example:

```

PLUGIN LoadFileName vFileName+
| INITIAL_DIR C:\RBTI\ +
| TITLE 'Select file to load' +
| FULLPATH ON+
| NO_CHANGE_DIR ON+
| FILTER JPG Files (*.jpg)#*.jpg+
| HIDE_READ_ONLY ON+
| MULTISELECT ON+
| SHOW_HIDDEN OFF+
| ENABLE_SIZING ON

```

4.1.5 LoadFileNamePlus

The LoadFileNamePlus plugin is used to load a file name into a variable by displaying a dialog window for the user to browse the operating system. The LoadFileNamePlus plugin was added with additional options to load a file name. It does not appear in the R:BASE for Windows Plugins Menu. The LoadFileNamePlus is included with the purchase of R:BASE.

Syntax:

```
PLUGINS LoadFileNamePlus VarName|<parameters>
```

Where:

VarName is the variable name to return the text value of the selected file

Parameters:

Parameter	Value	Description
FULLPATH	ON/OFF	Determines if the full path for the selected file is returned with the file name
TITLE	value	Specifies the title caption
FILTER	value	Filters the display files (Example: Text Files (*.txt)#*.txt)
INITIAL_DIR	value	Specifies the initial directory when launched
NO_CHANGE_DIR	ON/OFF	Determines if the directory changes when the file is selected
MULTISELECT	ON/OFF	Determines if multiple files can be selected
SHOW_HIDDEN	ON/OFF	Determines if hidden files can be seen
NO_LONG_NAMES	ON/OFF	Determines if files not using the 8.3 naming convention are displayed. This is only supported with the OLD_STYLE parameter.
NO_NETWORK_BUTTON	ON/OFF	Determines if the network button is displayed. This is only supported with the OLD_STYLE parameter.
HIDE_READ_ONLY	ON/OFF	Determines if the "Open as Read Only" check box is displayed
NO_DEREFERENCE_LINKS	ON/OFF	Determines if shortcut links are valid or are de-referenced
DONT_ADD_TO_RECENT	ON/OFF	Determines if file selection is added to recently opened documents
ENABLE_SIZING	ON/OFF	Determines if the dialog window can be resized
OLD_STYLE	ON/OFF	Determines if the "old style" window is displayed

NO_VALIDATE	ON/OFF	Determines if validation for invalid characters is used
VIEW_MODE	THUMBNAILS TILES ICONS (Default) LIST DETAILS	Determines the view mode for the dialog window

Notes:

- Each option must be separated by pipe "|" character.
- A value of '[Esc]' will be returned if the [Cancel] button or Close Window [x] button of the folder selection dialog is selected.

Example:

```

PLUGIN LoadFileNamePlus vFileName+
| INITIAL_DIR C:\RBTI\ +
| TITLE 'Select file' +
| FULLPATH ON +
| NO_CHANGE_DIR ON +
| FILTER PDF Files (*.pdf)#*.pdf +
| HIDE_READ_ONLY ON +
| MULTISELECT ON +
| SHOW_HIDDEN OFF +
| ENABLE_SIZING ON +
| VIEW_MODE LIST

```

4.1.6 R:Calculator

The R:Calculator plugin is used to launch a calculator to perform any of the standard operations for which you would normally use a hand-held calculator. An optional theme can be added to the calculator window. The R:Calculator plugin does not appear in the R:BASE for Windows Plugins Menu. The R:Calculator plugin is included with the purchase of R:BASE.

Syntax:

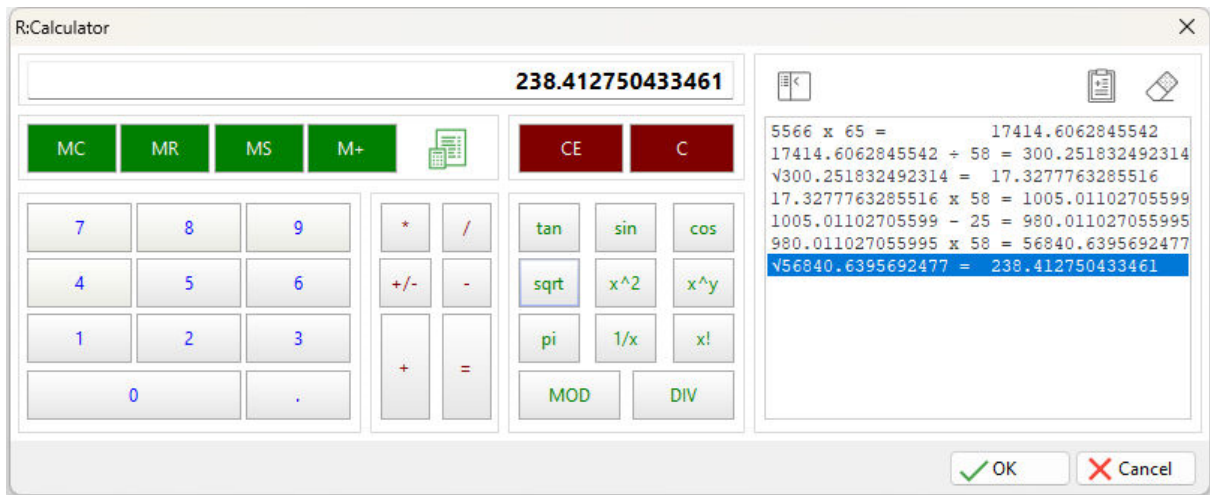
```
PLUGIN RCalculator vResult|THEMENAME Themename
```

Where:

- vResult is the variable to return the value of the calculated result
- Themename will display the calculator using a specified theme

Notes:

The returned variable value will be the correct data type of the calculated result (INTEGER, DOUBLE, REAL).



4.1.7 R:Choose Builder Plugin

The R:Choose Builder Plugin is a syntax builder for the CHOOSE command. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The R:Choose Builder Plugin is included with the purchase of R:BASE.

Using this plugin you can easily create choose windows to prompt end users for information within your R:BASE application.

R:Choose Builder Plugin

General Information Options Ext Options Syntax

CHOOSE type

#COLUMNS in Table/View

Tables/Views

Table/View Name ^

- SalesDataByCompany
- SalesInf
- SecurityTable
- Staff
- StaffByDept
- StateAbr
- SYS_COLUMNS
- SYS_COMMENTS
- SYS_CONSTRAINTS
- SYS_DEFAULTS
- SYS_FORMS
- SYS_FORMS2

Check

☒ None ☐ CHKBBOX ☐ CHKSORT Choices: 0

Lines: 5 ☐ Formatted

Caption/Title

Caption: CHOOSE Caption Here...

Title: CHOOSE TITLE Here...

Variable

vChoose

Test Build Close

R:Choose Builder Plugin

General Information Options Ext Options Syntax

☒ List Options

Font Color: AaBbYyZz Background Color: Button Face

☒ Title Options

Font Color: AaBbYyZz Background Color: Button Face

☒ Window

☐ No Caption ☐ Small Caption ☒ Normal Caption

☐ Show "Select All" Button ☐ Single Click

☒ Transparency

255

☒ Buttons

OK Caption: OK Back Color: Default

Cancel Caption: Cancel Button Color: Default

Font Color: AaBbYyZz Size (W x H): 75 x 75

☐ Show Glyph

☒ Other

Left: 10 Top: 50

Theme Name:

☐ Initial Values

List Position: Add... Edit... Delete Clear

List Content: Add... Edit... Delete Clear

Test Build Close

R:Choose Builder Plugin

General Information Options Ext Options Syntax

Grid Options

☒ Zebra Stripe

Odd Color: ☐ 3D Light

Even Color: ☐ Window

☒ Show Horizontal Lines

☒ Show Vertical Lines

Line Color Color: ☐ 3D Light

Vertical Line Breaks:

Headers:

Text Breaks:

Test Build Close



4.1.8 R:Dialog Builder Plugin

The Dialog Builder plugin is a syntax builder for the DIALOG command. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The Dialog Builder is included with the purchase of R:BASE.

Using this plugin you can easily create dialog windows to prompt end users for information within your R:BASE application.

The screenshot shows the 'R:Dialog Builder Plugin' window with three tabs: 'General Information', 'Options', and 'Syntax'. The 'General Information' tab is active. It contains the following sections:

- Message Text:** A text box with the placeholder 'Type Message Here ...' and a checked checkbox labeled 'Show Accelerator Character'.
- Variables:** Two text boxes labeled 'Response:' and 'End Key:'. 'Response:' contains 'vResponse' and 'End Key:' contains 'vEndKey'.
- Lines/Password:** A radio button group with 'Lines' selected (value 1) and 'Password' unselected.
- Show ROSK Button:** An unchecked checkbox.
- Caption:** A text box with the placeholder 'Type Caption Here ...'.
- DIALOG Icons:** A grid of 12 icons with radio buttons:
 - Application (gears icon)
 - Attention (triangle with exclamation mark)
 - Confirmation (checkmark icon)
 - Error (red X icon)
 - Help (globe icon)
 - Information (blue 'i' icon) - **Selected**
 - Question (question mark icon)
 - Serious (blue triangle with exclamation mark)
 - Stop (red octagon with exclamation mark)
 - Warning (yellow triangle with exclamation mark)
 - Windows (blue square icon)

At the bottom, there are three buttons: 'Test', 'Build' (with a green checkmark), and 'Close' (with a red X).

R:Dialog Builder Plugin

General Information Options Syntax

☒ Message

Font Color: Default

Background Color: Button Face

Font Name: MS Sans Serif Size: 10

☐ Bold ☐ Italic ☐ Underline ☐ Strikeout

☒ Buttons

OK Caption: &OK Cancel Caption: &Cancel

OK Button Color: Defau Cancel Button Color: Defaul

OK Button Width: 75 Cancel Button Width: 75

OK Button Font: OK Cancel Button Font: Cancel

Background Color: Butto ☐ Show Glyph

Button Height: 25


☒ Window

☐ No Caption ☐ Small Caption ☒ Normal Caption

Background Color: Button Face

☐ Transparency 255

Icon File Name

☐ Use 

☐ Resize Icon

☒ Other

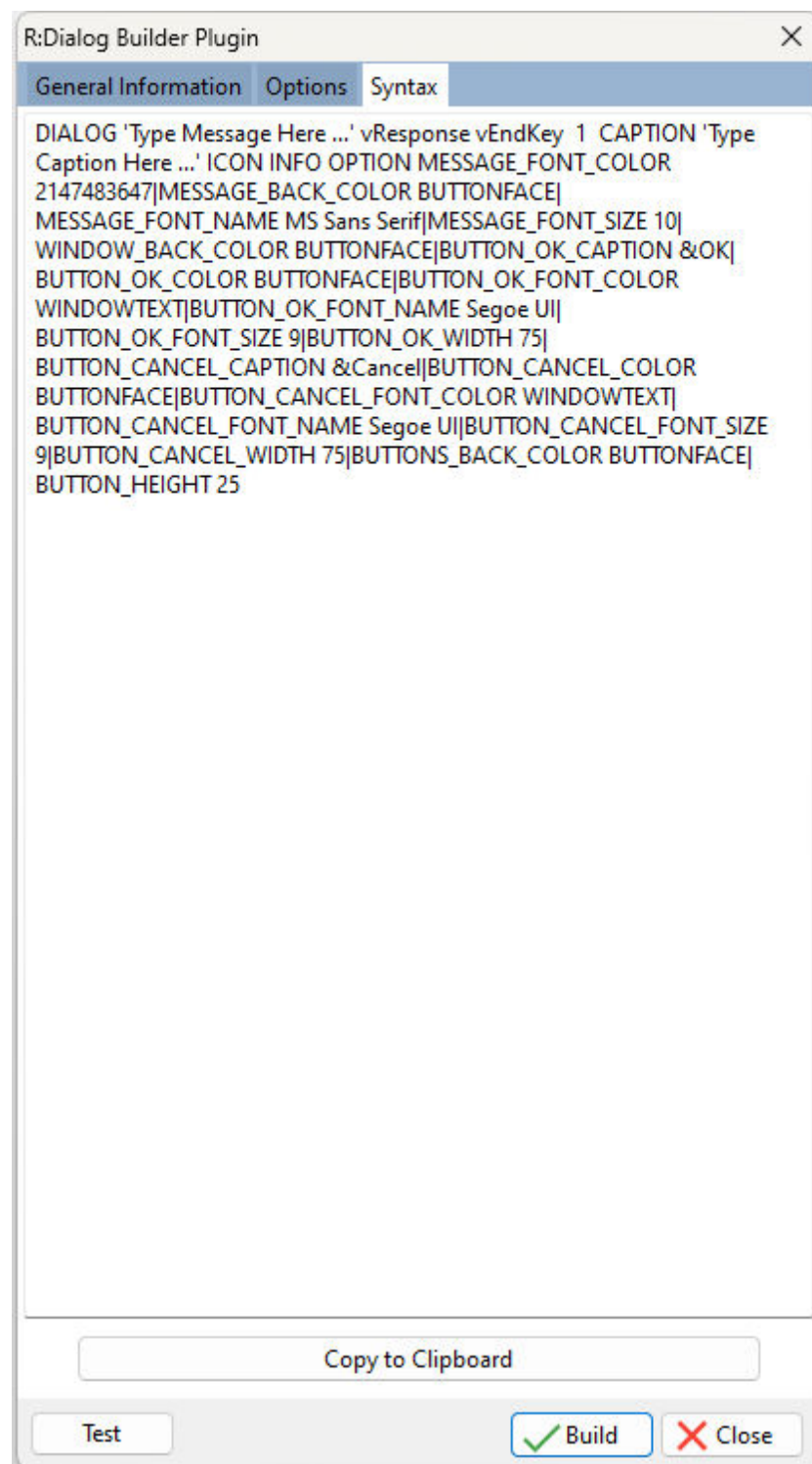
Left: -1 Top: -1 Right: -1 Bottom: -1

Theme Name:

☐ Use Modern Look

☐ Disable Generation of Custom Formats

Test Build Close



4.1.9 R:Dialog with Buttons Builder Plugin

The Dialog with Button Builder plugin is a syntax builder for the DIALOG command. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The Dialog with Button Builder plugin is included with the purchase of R:BASE.

Using this plugin you can easily create dialog windows with buttons for end users to select within your R:BASE application.

The screenshot shows a dialog box titled "R:Dialog with Buttons Builder Plugin" with a close button (X) in the top right corner. The dialog has three tabs: "General Information" (selected), "Options", and "Syntax".

General Information Tab:

- Message Text:** A text box containing "Type Message Here ...". Below it is a checked checkbox labeled "Show Accelerator Character".
- Variables:** Two text boxes: "Response:" with "vResponse" and "End Key:" with "vEndKey".
- Default Button:** Two radio buttons: "Yes" (selected) and "No".
- Caption:** A text box containing "Type Caption Here ...".
- DIALOG Icons:** A grid of 12 icons with corresponding radio buttons:
 - Application (gears) - Radio button
 - Help (globe) - Radio button
 - Stop (red octagon) - Radio button
 - Attention (warning triangle) - Radio button
 - Information (blue 'i') - Radio button (selected)
 - Warning (yellow triangle) - Radio button
 - Confirmation (green checkmark) - Radio button
 - Question (grey question mark) - Radio button
 - Windows (blue square) - Radio button
 - Error (red X) - Radio button
 - Serious (blue triangle) - Radio button

Bottom Buttons: "Test", "Build" (with a green checkmark icon), and "Close" (with a red X icon).

R:Dialog with Buttons Builder Plugin

General Information Options Syntax

☒ Message

Font Color: Default

Background Color: Button Face

Font Name: Segoe UI Size 9

☐ Bold ☐ Italic ☐ Underline ☐ Strikeout

☒ Window

☐ No Caption ☐ Small Caption ☒ Normal Caption

Background Color: Button Face

☒ Buttons

Yes Caption: &Yes No Caption: &No

Yes Button Color: Default No Button Color: Default


Yes Button Width: 75 No Button Width: 75

Yes Button Font: Yes No Button Font: No

Button Height: 25

☐ Transparency 255

Icon File Name

☐ Use 

☐ Resize Icon

☒ Other

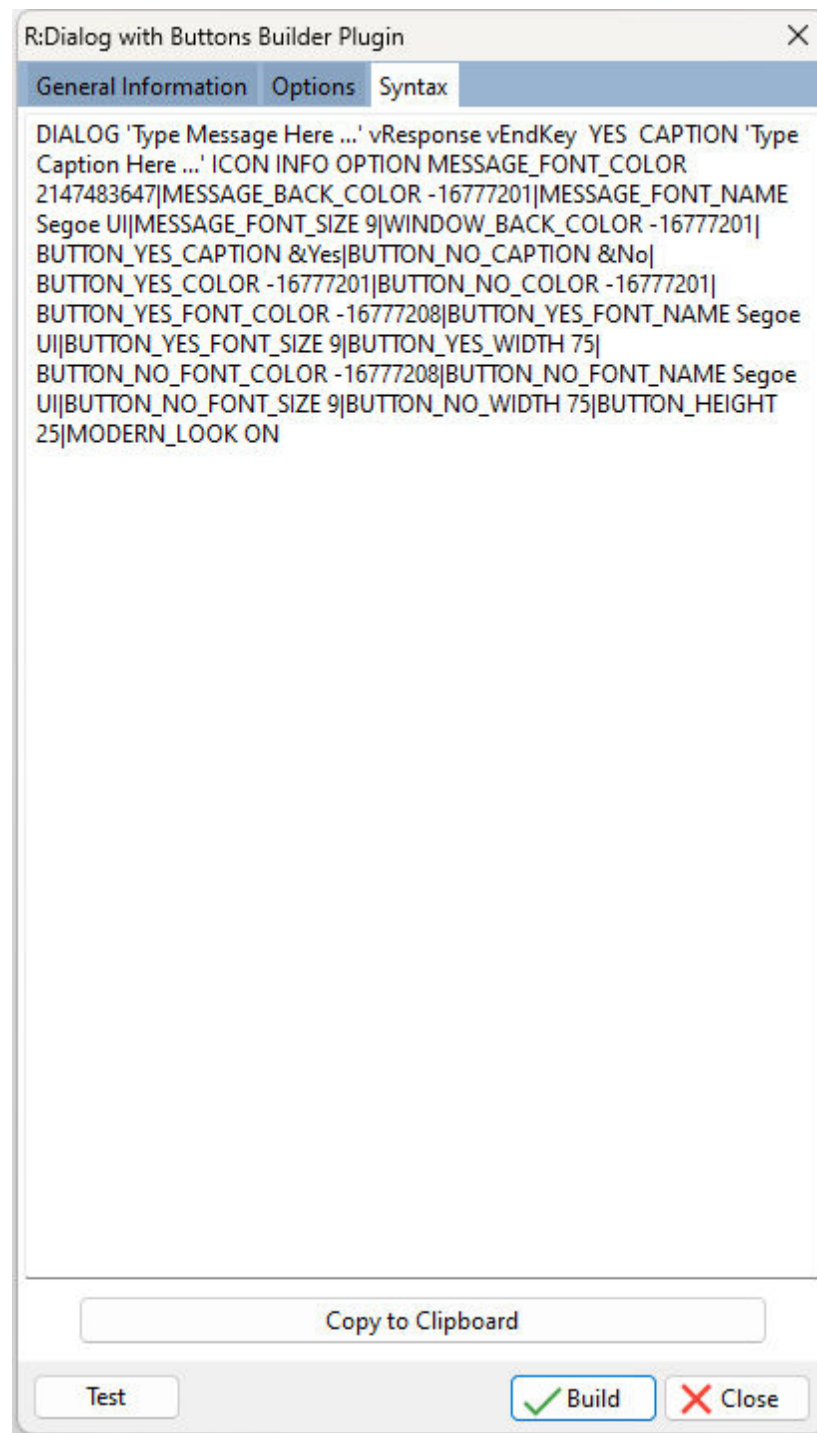
Left: -1 Top: -1 Right: -1 Bottom: -1

Theme Name:

☒ Use Modern Look

☐ Disable Generation of Custom Formats

Test Build Close



4.1.10 R:MAPI Mail Plugin

The R:MAPI Mail Plugin is a utility to send a message through your email client program. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The R:MAPI Mail Plugin is included with the purchase of R:BASE.

The screenshot shows a Windows-style dialog box titled "R:MAPI Mail Plugin". It contains several sections: "Account Settings" with fields for "Account Name:" and "Password:"; "Address Settings" with fields for "To:", "Cc:", "Bcc:", and "Subject:", each with a small up/down arrow on the right; a large "Message" text area; and an "Attachments" section with a list box. Below the list box are two buttons: "+ Attach File(s)" and "- Remove Attachment". At the bottom, there are two checkboxes: "Send Directly" and "Resolve Names", followed by "Send" and "Cancel" buttons with checkmark and X icons respectively.

4.1.11 R:Pause Builder Plugin

The R:Pause Builder Plugin is a syntax builder for the PAUSE command. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The R:Pause Builder Plugin is included with the purchase of R:BASE.

Using this plugin you can easily create message windows to display information within your R:BASE application.

R:Pause Builder Plugin

General Information Options More Options Syntax

PAUSE Type

☐ 1 ☒ 2 ☐ 3 ☐ 4












Message Text

Message Text

Caption

Caption Text

PAUSE Icons

 <input type="radio"/> Application	 <input type="radio"/> Help	 <input type="radio"/> Stop
 <input type="radio"/> Attention	 <input checked="" type="radio"/> Information	 <input type="radio"/> Warning
 <input type="radio"/> Confirmation	 <input type="radio"/> Question	 <input type="radio"/> Windows
 <input type="radio"/> Error	 <input type="radio"/> Serious	

Button Text

Button Text

Test Build Close

R:Pause Builder Plugin

General Information Options More Options Syntax

Icon File Name
☐ Use

Pause Window Background Color
☒ Use

Message Color
☒ Use

☒ Message Font
Name
Color Size
☐ Bold ☐ Italic ☐ Underline ☐ Strikeout

Button Color
☒ Use
☐ Width ☐ Height

☒ Button Font
Name
Color Size
☐ Bold ☐ Italic ☐ Underline ☐ Strikeout

Transparency
☐ Use


☒ Other
Left: Top:
Theme Name:

Test Build Close

R:Pause Builder Plugin

General Information Options More Options Syntax

☒ Gauge


Color  Default Interval


☒ Meter


Type


Value


Maximum Value


Font Color  Default


Back Color  Default

Bar Color  Default

Off Color  Default

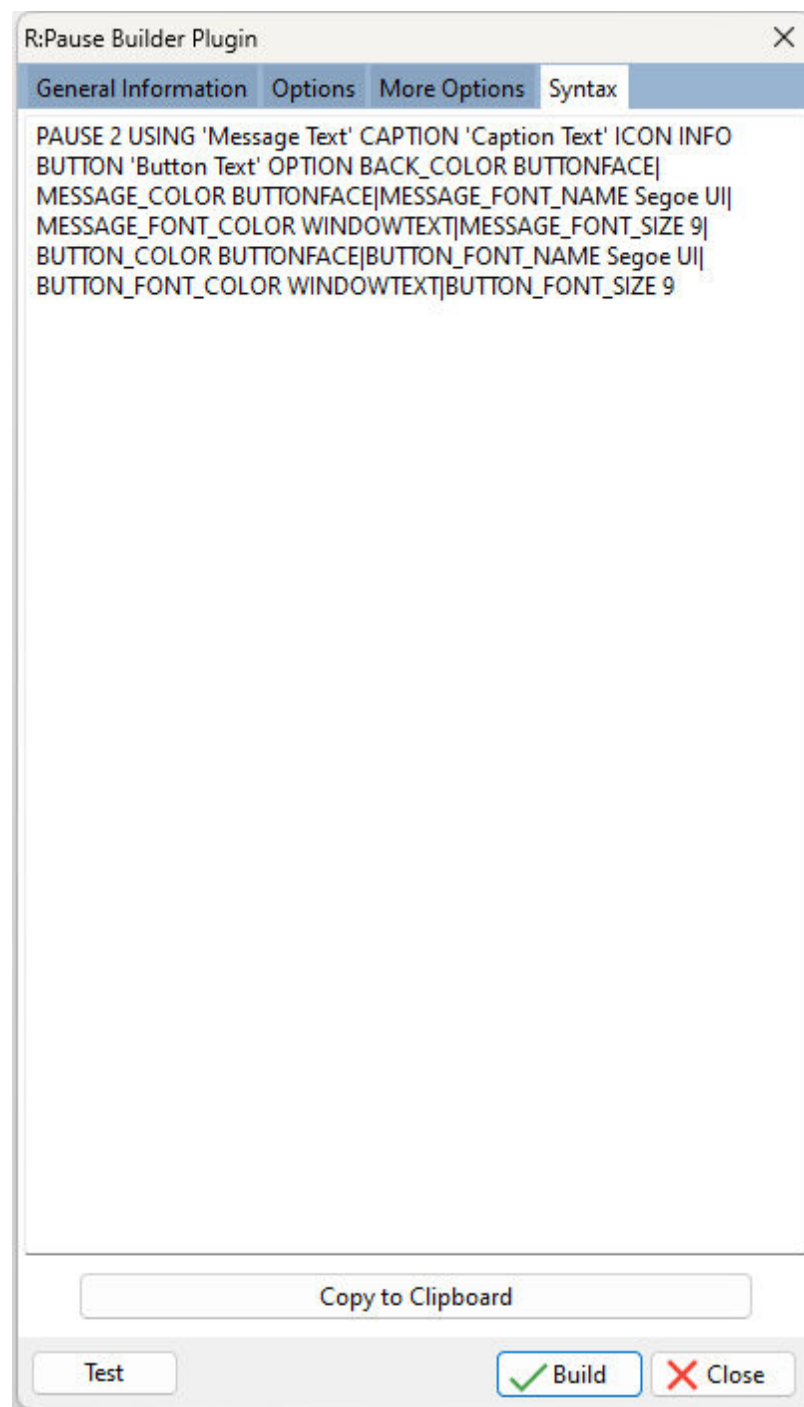
Color 1  Default

Color 2  Default

Color 3  Default

☐ No Focus

Test



4.1.12 R:SysDialog Builder Plugin

The R:SysDialog Builder Plugin is a syntax builder for the creating system dialogs. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The [SysDialog](#) syntax can be modified as needed.

Using the plugin dialog windows can be easily created with several buttons, for end users to select within your R:BASE application. The dialog can display several provided icon images, and a default button can

be assigned. The dialog window displays as per the native operating system environment and allows no customized display features.

R:SysDialog Builder Plugin

General Information | **Syntax**

Return Variable
vResponse

Caption
Message

Message
Please confirm to proceed!

Icon

☒ Information ☒ Confirmation
☐ Warning ☐ Error

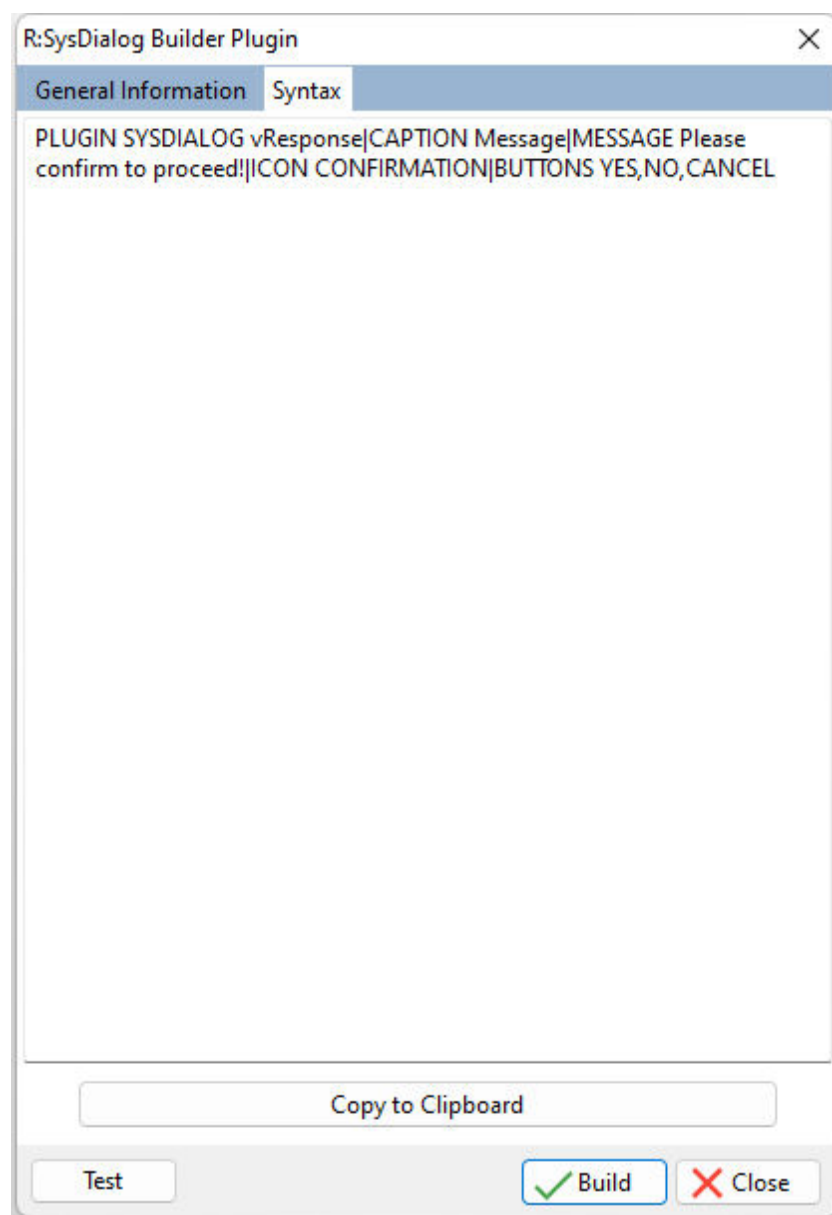
Buttons

☒ YES ☐ RETRY
☒ NO ☐ IGNORE
☐ OK ☐ ALL
☒ CANCEL ☐ NO TO ALL
☐ ABORT ☐ YES TO ALL

Default Button

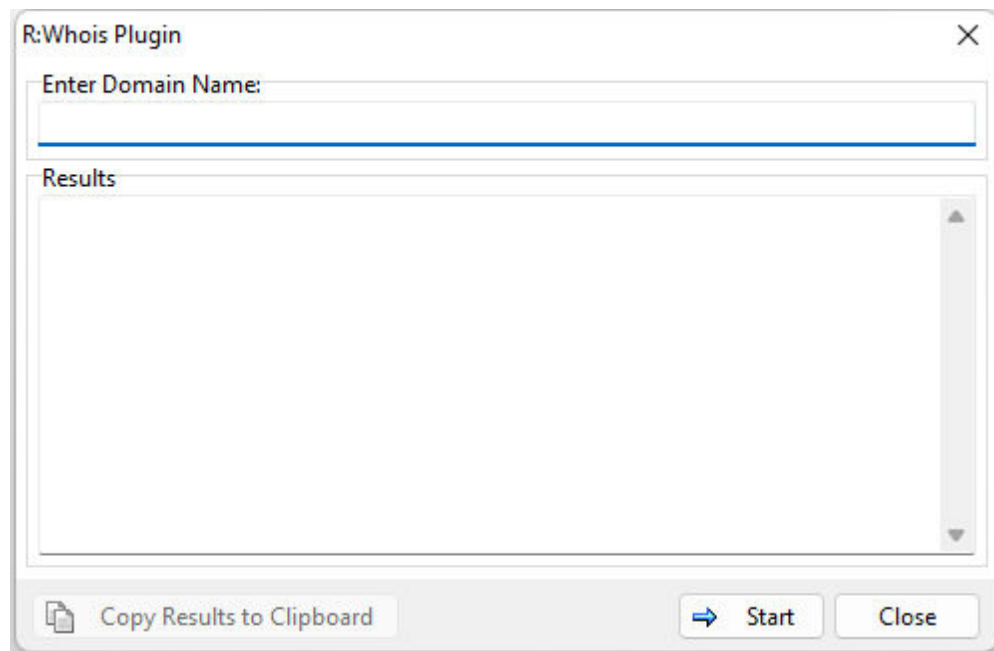
☒ YES ☐ RETRY
☐ NO ☐ IGNORE
☐ OK ☐ ALL
☐ CANCEL ☐ NO TO ALL
☐ ABORT ☐ YES TO ALL

Test **Build** **Close**



4.1.13 R:Whois Plugin

The RWhois plugin will find out who registered a domain name and view additional registration and Web site data. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins".



4.1.14 SendKeys

The SendKeys plugin sends one or more keystrokes to the active control, as if typed at the keyboard. A syntax builder for the plugin is available within the R:BASE for Windows Menu Bar under "Utilities" > "Plugins".

Syntax:

```
PLUGIN SendKeys vResult|<Options>
```

Options:

Option	Value	Description
KEYS	value	Specifies the keys to be simulated, or code for special keys that aren't displayed when you press a key
WINDOW_NAME	value	Specifies the text that appears in the target window's title bar. The value can be left empty.
WAIT	ON OFF (Default)	Specifies the wait for the keys to be processed by the recipient before returning control

Where:

vResult is the variable name to return "OK" or an error message

Notes:

- Each option must be separated by the pipe "|" character.
- It is advised to be very careful with the SendKeys plugin capability. If the sequence of commands gets interrupted by another process, and the focus is changed, unpredictable results may occur.
- Special keys are enclosed in braces. As braces are used to enclose comments in R:BASE, quote the text so it is not interpreted as a comment.

Special Keys

Key	Code
BACKSPACE	{BACKSPACE}, {BS}, or {BKSP}
BREAK	{BREAK}
CAPS LOCK	{CAPSLOCK}
DEL or DELETE	{DELETE} or {DEL}
DOWN ARROW	{DOWN}
END	{END}
ENTER	{ENTER} or ~
ESC	{ESC}
HELP	{HELP}
HOME	{HOME}
INS or INSERT	{INSERT} or {INS}
LEFT ARROW	{LEFT}
NUM LOCK	{NUMLOCK}
PAGE DOWN	{PGDN}
PAGE UP	{PGUP}
PRINT SCREEN	{PRTSC}
RIGHT ARROW	{RIGHT}
SCROLL LOCK	{SCROLLLOCK}
TAB	{TAB}
UP ARROW	{UP}
F1	{F1}
F2	{F2}
F3	{F3}
F4	{F4}
F5	{F5}
F6	{F6}
F7	{F7}
F8	{F8}
F9	{F9}
F10	{F10}
F11	{F11}
F12	{F12}
F13	{F13}
F14	{F14}
F15	{F15}
F16	{F16}

To specify keys combined with any combination of the SHIFT, CTRL, and ALT keys, precede the key code with one or more of the following codes:

Key	Code
SHIFT	+
CTRL	^
ALT	%

Examples:

Example 01.

```
SET VAR vResult TEXT = NULL
```

```
--Set focus to an R:BASE Variable Memo control, then wait for 1 second before sending keys. Note  
the Variable Memo is set in the properties to accept the [Enter] key.
```

```
PROPERTY VariableMemo1 SET_FOCUS ' '
```

```
PAUSE FOR 1
```

```
PLUGIN SENDKEYS vResult|KEYS This text is displayed using the SendKeys plugin.~~
```

```
PLUGIN SENDKEYS vResult|KEYS 'This is one of the many "key" features in R:BASE X.5
```

```
- Version 10.5!'~
```

--The Ctrl+Home moves to the beginning of the content.

```
PLUGIN SENDKEYS vResult|KEYS '^{HOME}'
```

--Adds text and then Enter

```
PLUGIN SENDKEYS vResult|KEYS Greetings from R:BASE!~~
```

--Ctrl+End moves to the end of the content then presses Enter

```
PLUGIN SENDKEYS vResult|KEYS '^{\END}~~'
```

```
PLUGIN SENDKEYS vResult|KEYS Thank you for choosing R:BASE!
```

--Highlights the last line. this is Home, Shift+End

```
PLUGIN SENDKEYS vResult|KEYS '{HOME}+{\END}'
```

Example 02.

```
SET VAR vResult TEXT = NULL
```

--Launch notepad and wait for 1 second to make sure notepad is loaded

```
LAUNCH NOTEPAD.EXE
```

```
PAUSE FOR 1
```

--While WINDOW_NAME is only required once to activate the window, it is safe to always specify it.

```
PLUGIN SENDKEYS vResult|KEYS This text is displayed using the SendKeys plugin.~~
```

```
PLUGIN SENDKEYS vResult|KEYS 'This is one of the many "key" features in R:BASE X.5
```

```
- Version 10.5!'~
```

4.1.15 SysDialog

The SysDialog plugin creates system dialogs to capture a response from end users. The dialog window supports several buttons to select an option. The dialog can display several provided icon images, and a default button can be assigned. The dialog window displays as per the native operating system environment and allows no customized display features. A syntax builder for the plugin is available within the R:BASE for Windows Menu Bar under "Utilities" > "Plugins".

Syntax:

```
PLUGIN SysDialog vResponse|<Options>
```

Where:

vResponse is the variable name to return the selected button (OK, CANCEL, ABORT, RETRY, IGNORE, YES, NO, ALL, NO_TO_ALL, YES_TO_ALL)

Options:

Options	Value	Description
MESSAGE	value	Specifies the dialog message text
CAPTION	value	Specifies the caption bar text
ICON	WARNING ERROR INFORMATION CONFIRMATION	Specifies the icon to be displayed. The default icon is INFORMATION.
BUTTONS	YES NO OK CANCEL ABORT RETRY IGNORE ALL NO_TO_ALL YES_TO_ALL	Specifies the buttons to display. Multiple buttons can be added by using a comma.

DEFAULT_BUTTON	YES NO OK CANCEL ABORT RETRY IGNORE ALL NO_TO_ALL YES_TO_ALL	Specifies the default button to have focus
----------------	---	--

Notes:

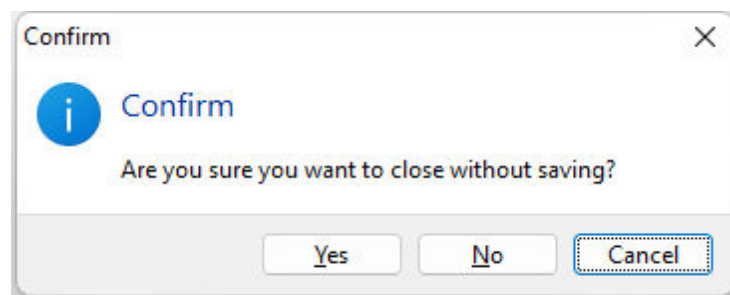
- Each option must be separated by pipe "|" character.
- The button sequence appear in the following order: Yes, No, OK, Cancel, Abort, Retry, Ignore, All, No_To_All, Yes_To_All
- Common button combinations include "ABORT,RETRY,IGNORE", "CANCEL,RETRY,IGNORE", "OK, "OK,CANCEL", "CANCEL,RETRY", "YES,NO", and "YES,NO,CANCEL"

Rules:

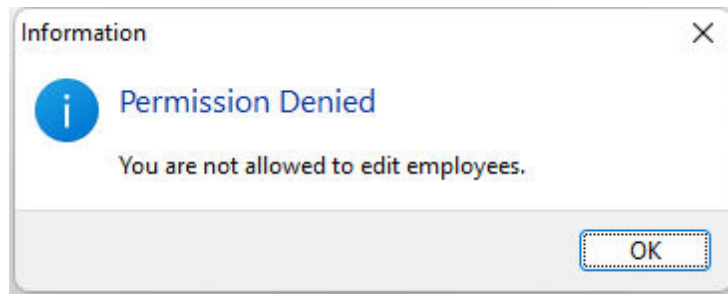
1. The standard modal form with buttons has a DEFAULT button and a CANCEL button.
2. The "Default button" is the button that gets clicked if [Enter] is pressed and there's no focused control. The order of detection is: OK (if visible), YES (if visible), RETRY (if visible), first visible button
3. The "Cancel button" is the button that gets clicked if [Esc] s pressed. The order of detection is: CANCEL (if visible), NO (if visible), OK (if visible)
4. If CANCEL, NO, or OK are not in the list of visible buttons, then pressing [Esc] will return CANCEL
5. If the [X] button is clicked the result is CANCEL

Examples:**Example 1:**

```
PLUGIN SYSDIALOG vResponse+  
|MESSAGE Are you sure you want to close without saving?+  
|CAPTION Confirm+  
|ICON CONFIRMATION+  
|BUTTONS YES,NO,CANCEL+  
|DEFAULT_BUTTON CANCEL
```

**Example 2:**

```
PLUGIN SYSDIALOG vResponse+  
|MESSAGE You are not allowed to edit employees.+  
|CAPTION Permission Denied+  
|ICON INFORMATION+  
|BUTTONS OK
```

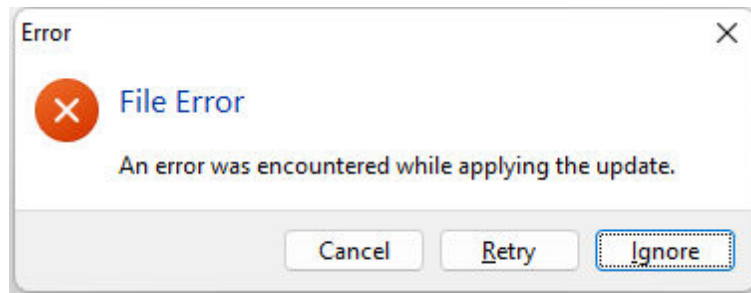


Example 3:

```

PLUGIN SYSDIALOG vResponse+
|MESSAGE An error was encountered while applying the update.+
|CAPTION File Error+
|ICON ERROR+
|BUTTONS CANCEL,RETRY,IGNORE+
|DEFAULT_BUTTON IGNORE

```



4.1.16 TimeZone

The TimeZone plugin retrieves the current time zone and daylight saving time settings for the computer. If the computer is configured for daylight saving time, the plugin returns date and local time when the transition from standard time to daylight saving time, and vice versa, occurs on the operating system.

Syntax:

```
PLUGIN TimeZone vResult|ACTION GET_INFO
```

Where:

The following return variables are generated:

Variable	Description
vResult	<p>Returns the current daylight saving time setting:</p> <p>OK - DST_IN_DAYLIGHT_DATE - daylight saving time auto adjustment is enabled and current time is in daylight date</p> <p>OK - DST_IN_STANDARD_DATE - daylight saving time auto adjustment is enabled and current time is in standard date</p> <p>OK - DST_NOT_USED - daylight saving time is not supported, or the automatic daylight saving time adjustment is disabled</p> <p>-ERROR- TIME_ZONE_ID_INVALID - an error occurred</p>
vRBTITZBias	Returns the current bias for local time translation on the computer, in minutes. The bias is the difference, in minutes, between Coordinated

	Universal Time (UTC) and local time. All translations between UTC and local time are based on the following formula: UTC = local time + bias
vRBTITZStdName	Returns the standard time zone name
vRBTITZStdDate	Returns the date and local time when the transition from daylight saving time to standard time occurs on the operating system
vRBTITZStdBias	Returns the bias value to be used during local time translations that occur during standard time. This value is added to vRBTITZBias to form the bias used during standard time. In most time zones, the value is zero.
vRBTITZDLName	Returns the daylight saving time name
vRBTITZDLDate	Returns date and local time when the transition from standard time to daylight saving time occurs on the operating system
vRBTITZDLBias	Returns the bias value to be used during local time translations that occur during daylight saving time. This value is added to vRBTITZBias to form the bias used during daylight saving time. In most time zones, the value is -60.

Examples:**Example 01:**

The below variables are generated for a computer in the Eastern Standard Time zone, automatically adjusted to ON for daylight saving time:

Variable	= Value	Type
-----	-----	-----
vRBTITZBias	= 300	INTEGER
vRBTITZStdName	= Eastern Standard Time	TEXT
vRBTITZStdDate	= 11/01/0000 02:00:00:00	TEXT
vRBTITZStdBias	= 0	INTEGER
vRBTITZDLName	= Eastern Daylight Time	TEXT
vRBTITZDLDate	= 03/02/0000 02:00:00:00	TEXT
vRBTITZDLBias	= -60	INTEGER
vResult	= OK - DST_IN_DAYLIGHT_DATE	TEXT

Example 02:

The below variables are generated for a computer in the Pacific Standard Time zone, with the automatic daylight saving time adjustment setting disabled:

Variable	= Value	Type
-----	-----	-----
vRBTITZBias	= 480	INTEGER
vRBTITZStdName	= Pacific Standard Time	TEXT
vRBTITZStdDate	= 00/00/0000 00:00:00:00	TEXT
vRBTITZStdBias	= 0	INTEGER
vRBTITZDLName	= Pacific Standard Time	TEXT
vRBTITZDLDate	= 00/00/0000 00:00:00:00	TEXT
vRBTITZDLBias	= 0	INTEGER
vResult	= OK - DST_NOT_USED	TEXT

4.1.17 TreeBuilder

The TreeBuilder Plugin is available to create a "tree table", with all necessary information to build a tree-like presentation in reports.

Syntax:

```

PLUGIN TreeBuilder vResult +
|TABLE <TableName> +
|ID <IDColumn> +
|PARENT <ParentColumn> +

```

```
|ORDER <OrderColumn> +
|TREE_TABLE <TreeTableName>
```

Options:

Option	Value	Description
TABLE	value	Specifies the source table
ID	value	Specifies the ID field in the source table
PARENT	value	Specifies the parent field in the source table
ORDER	value	Specifies the field that controls sorting (optional). This is usually the field to be the node's text.
TREE_TABLE	value	Specifies the newly created output table

Where:

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

Notes:

The created "Tree Table" output table has the following structure:

```
CREATE TABLE <TreeTable> +
(TREE_TABLE_ID INTEGER, +
TREE_TABLE_PARENT_ID INTEGER, +
TREE_TABLE_ROW_ID INTEGER, +
TREE_LEVEL INTEGER, +
TREE_HAS_CHILDREN INTEGER)
```

- TREE_TABLE_ID - Incrementing integer starting with 1
- TREE_TABLE_PARENT_ID - Value of the source table's parent field
- TREE_TABLE_ROW_ID - Value of source table's ID field
- TREE_LEVEL - The node's level. Outermost node is zero (0), then next level is one (1), ...
- TREE_HAS_CHILDREN - Indicator if node has children. One (1) if node has children, zero (0) if no child nodes

RRBYW20 Sample:

```
PLUGIN TreeBuilder vResult +
|TABLE Departments +
|ID DepartmentID +
|PARENT OwnerDept +
|ORDER DepartmentID +
|TREE_TABLE DeptTree
```

A view is created based on the tree output table and the source table. The view is then used as the report's data source.

```
CREATE VIEW `DepartmentTree` +
(TREE_TABLE_ID,TREE_TABLE_PARENT_ID,TREE_TABLE_ROW_ID,+
TREE_LEVEL,TREE_HAS_CHILDREN,+
TREE_VEW_CAPTION,DepartmentID,Description,OwnerDept) AS +
SELECT T1.TREE_TABLE_ID,T1.TREE_TABLE_PARENT_ID, +
T1.TREE_TABLE_ROW_ID,T1.TREE_LEVEL,T1.TREE_HAS_CHILDREN,+
((SFIL(' ', T1.TREE_LEVEL*5)) + T2.Description), +
T2.DepartmentID,T2.Description,T2.OwnerDept +
FROM DeptTree T1 LEFT OUTER JOIN Departments T2 +
ON T1.TREE_TABLE_ROW_ID = T2.DepartmentID
```

With the following variables defined in the report expression builder;

```
1 : INTEGER : D : vTreeLevel = TREE_LEVEL
```

2 : INTEGER : D : vHasChildren = TREE_HAS_CHILDREN

the report Detail band's "On Before Generate" EEP can use the TREE_LEVEL and TREE_HAS_CHILDREN fields to manipulate the label and image locations, to emulate a tree view presentation.

```
-- Use TREE_LEVEL and TREE_HAS_PARENT to indent for the tree view

--Node label
SET VAR vMargin DOUBLE = 1.5
SET VAR vLevelIndent DOUBLE = 0.2
SET VAR vLeft = .vMargin + (.vLevelIndent * .vTreeLevel)
PROPERTY lblCaption LEFT .vLeft

--Node image. A few mms to the left of the label
SET VAR vLeft = (.vLeft - 0.3)
PROPERTY imgParent LEFT .vleft
PROPERTY imgChild LEFT .vleft
IF vHasChildren = 0 THEN
    PROPERTY imgParent VISIBLE FALSE
    PROPERTY imgChild VISIBLE TRUE
ELSE
    PROPERTY imgParent VISIBLE TRUE
    PROPERTY imgChild VISIBLE FALSE
ENDIF
RETURN
```

Using this approach, a tree view presentation with unlimited node levels can be created. In addition, the tree structure in the report can be created with very complex appearance (e.g. a sub report inside each node). This was made possible by the TREE_LEVEL and TREE_HAS_CHILDREN fields.

4.2 R:BASE Plugin Power Pack

4.2.1 Agent

The Agent uses Microsoft's Agent technology to that enables an enriched form of user interaction, that can make using and learning to use a computer easier and more naturally. With the Microsoft Agent set of software services, developers can easily enhance the user interface of their applications and Web pages with interactive personalities in the form of animated characters. It does not appear in the R:BASE for Windows Plugins Menu. The Agent was included in the 2004 R:BASE [Developers' Conference](#) Package.

To start working with MS Agent character, you need to make sure that your computer has installed MS Agent engine. This engine can be downloaded from:

<http://activex.microsoft.com/activex/controls/agent2/MSagent.exe>

Every agent has its own set of supported animations. Agent characters can be found online. The user can find this information on the developer web site or in the Agent documentation. The following is the Merlin character:



Syntax:

```
PLUGIN Agent |parameter|value
```

Parameters:

Parameter	Value	Description
-----------	-------	-------------

START	agent file name	Initializes the MS Agent engine. If no file is specified, the Merlin character is used. Agent character files are Usually found in C:\WINNT\MSAGENT\CHARS\ or C:\WINDOWS\MSAGENT\CHARS\
CLOSE		Stops the MS Agent engine
SHOW		Shows the character on a screen
HIDE		Hides the character
SAY	phrase to say	Displays a balloon hint with the specified phrase. If installed, MS Speech engine will play text as sound.
PLAY	action to perform	Makes the character perform actions
MOVE	coordinates	Makes the character move on the screen

Examples:

```
PLUGIN Agent SAY|Hello World!
```

```
PLUGIN Agent PLAY|Announce
```

```
PLUGIN Agent MOVE|500|500
```

4.2.2 GetCommonFolder

The GetCommonFolder plugin is used to capture common operating system folders used frequently by applications, but which may not have the same name or location on any given system. For example, the system folder may be "C:\Windows" on one system and "C:\WINNT" on another. The plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetCommonFolder vFolder|<parameters>
```

Where:

vFolder is the variable to return the text value of a given common operating system folder.

FolderType is the name of the specific common folder type.

Parameters:

Parameter	Description
ADMINTOOLS	The file system directory that is used to store administrative tools for an individual user.
ALTSTARTUP	The file system directory that corresponds to the user's non-localized Startup program group. This value is recognized in Windows Vista for backward compatibility, but the folder itself no longer exists.
APPDATA	The file system directory that serves as a common repository for application-specific data. A typical path is C:\Documents and Settings\username\Application Data.
CDBURN_AREA	The file system directory that acts as a staging area for files waiting to be written to a CD. A typical path is C:\Documents and Settings\username\Local Settings\Application Data\Microsoft\CD Burning
COMMON_ADMINTOOLS	The file system directory that contains administrative tools for all users of the computer.
COMMON_ALTSTARTUP	The file system directory that corresponds to the non-localized Startup program group for all users. This value is recognized in Windows Vista for backward compatibility, but the folder itself no longer exists.
COMMON_APPDATA	The file system directory that contains application data for all users. A typical path is C:\Documents and Settings\All Users\Application Data. This folder is used for application data

	that is not user specific. For example, an application can store a spell-check dictionary, a database of clip art, or a log file in the COMMON_APPDATA folder. This information will not roam and is available to anyone using the computer.
COMMON_DESKTOPDIRECTORY	The file system directory that contains files and folders that appear on the desktop for all users. A typical path is C:\Documents and Settings\All Users\Desktop.
COMMON_DOCUMENTS	The file system directory that contains documents that are common to all users. A typical path is C:\Documents and Settings\All Users\Documents.
COMMON_FAVORITES	The file system directory that serves as a common repository for favorite items common to all users.
COMMON_MUSIC	The file system directory that serves as a repository for music files common to all users. A typical path is C:\Documents and Settings\All Users\Documents\My Music.
COMMON_OEM_LINKS	This value is recognized in Windows Vista for backward compatibility, but the folder itself is no longer used.
COMMON_PICTURES	The file system directory that serves as a repository for image files common to all users. A typical path is C:\Documents and Settings\All Users\Documents\My Pictures.
COMMON_PROGRAMS	The file system directory that contains the directories for the common program groups that appear on the Start menu for all users. A typical path is C:\Documents and Settings\All Users\Start Menu\Programs.
COMMON_STARTMENU	The file system directory that contains the programs and folders that appear on the Start menu for all users. A typical path is C:\Documents and Settings\All Users\Start Menu.
COMMON_STARTUP	The file system directory that contains the programs that appear in the Startup folder for all users. A typical path is C:\Documents and Settings\All Users\Start Menu\Programs\Startup.
COMMON_TEMPLATES	The file system directory that contains the templates that are available to all users. A typical path is C:\Documents and Settings\All Users\Templates.
COMMON_VIDEO	The file system directory that serves as a repository for video files common to all users. A typical path is C:\Documents and Settings\All Users\Documents\My Videos.
COMPUTERSNEARME	The folder that represents other computers in your workgroup.
CONNECTIONS	The virtual folder that represents Network Connections, that contains network and dial-up connections.
COOKIES	The file system directory that serves as a common repository for Internet cookies. A typical path is C:\Documents and Settings\username\Cookies.
DESKTOP	The virtual folder that represents the Windows desktop, the root of the namespace.
DESKTOPDIRECTORY	The file system directory used to physically store file objects on the desktop (not to be confused with the desktop folder itself). A typical path is C:\Documents and Settings\username\Desktop.
FAVORITES	The file system directory that serves as a common repository for the user's favorite items. A typical path is C:\Documents and Settings\username\Favorites.
FONTS	A virtual folder that contains fonts. A typical path is C:\Windows\Fonts.
HISTORY	The file system directory that serves as a common repository for Internet history items.
INTERNET_CACHE	The file system directory that serves as a common repository for temporary Internet files. A typical path is C:\Documents and Settings\username\Local Settings\Temporary Internet Files.
LOCAL_APPDATA	The file system directory that serves as a data repository for local (non-roaming) applications. A typical path is C:\Documents and Settings\username\Local Settings\Application Data.
MYMUSIC	The file system directory that serves as a common repository for music files. A typical path is C:\Documents and Settings\User\My Documents\My Music.

MYPICTURES	The file system directory that serves as a common repository for image files. A typical path is C:\Documents and Settings\username\My Documents\My Pictures.
MYVIDEO	The file system directory that serves as a common repository for video files. A typical path is C:\Documents and Settings\username\My Documents\My Videos.
NETHOOD	A file system directory that contains the link objects that may exist in the My Network Places virtual folder. A typical path is C:\Documents and Settings\username\NetHood.
PERSONAL	The virtual folder that represents the My Documents desktop item. This is equivalent to My Documents . A typical path is C:\Documents and Settings\username\My Documents
PRINTHOOD	The file system directory that contains the link objects that can exist in the Printers virtual folder. A typical path is C:\Documents and Settings\username\PrintHood.
PROFILE	The user's profile folder. A typical path is C:\Users\username. Applications should not create files or folders at this level; they should put their data under the locations referred to by APPDATA or LOCAL_APPDATA . However, if you are creating a new Known Folder the profile root referred to by PROFILE is appropriate.
PROGRAMS	The file system directory that contains the user's program groups (which are themselves file system directories). A typical path is C:\Documents and Settings\username\Start Menu\Programs.
PROGRAM_FILES	The Program Files folder. A typical path is C:\Program Files.
PROGRAM_FILESX86	The Program Files folder for 32-bit programs that are installed on a 64-bit operating system. A typical path is C:\Program Files (x86).
PROGRAM_FILES_COMMON	A folder for components that are shared across applications. A typical path is C:\Program Files\Common. Valid only for Windows XP.
PROGRAM_FILES_COMMONX86	A folder for 32-bit programs components that are shared across 32-bit programs applications on a 64-bit operating system. A typical path is C:\Program Files (x86)\Common. Valid only for Windows XP.
RECENT	The file system directory that contains shortcuts to the user's most recently used documents. A typical path is C:\Documents and Settings\username\My Recent Documents.
RESOURCES	The file system directory that contains resource data. A typical path is C:\Windows\Resources. This parameter is specific to Windows Vista
RESOURCES_LOCALIZED	The file system for OEM specific applications.
SENDTO	The file system directory that contains Send To menu items. A typical path is C:\Documents and Settings\username\SendTo.
STARTMENU	The file system directory that contains Start menu items. A typical path is C:\Documents and Settings\username\Start Menu.
STARTUP	The file system directory that corresponds to the user's Startup program group. The system starts these programs whenever any user logs on. A typical path is C:\Documents and Settings\username\Start Menu\Programs\Startup.
SYSTEM	The Windows System folder. A typical path is C:\Windows\System32.
SYSTEMX86	The Windows System folder for 64-bit operating systems.
TEMPLATES	The file system directory that serves as a common repository for document templates. A typical path is C:\Documents and Settings\username\Templates.
WINDOWS	The Windows directory or SYSROOT. This corresponds to the %windir% or %SYSTEMROOT% environment variables. A typical path is C:\Windows.

Notes:

The return variable name and the folder type must be separated by a "|" pipe character.

Examples:

```
--The following return the common folder for the system fonts.
PLUGIN GetCommonFolder vValue|FONTS
SET VAR vResult = 'FONTS : ' + vValue; WRITE .vResult; CLEAR VAR vValue,vResult

FONTS : C:\Windows\Fonts

--The following return the Common Programs folder
PLUGIN GetCommonFolder vValue|COMMON_PROGRAMS
SET VAR vResult = 'COMMON_PROGRAMS : ' + vValue; WRITE .vResult; CLEAR VAR
vValue,vResult

COMMON_PROGRAMS : C:\ProgramData\Microsoft\Windows\Start Menu\Programs

--The following return the Windows folder
PLUGIN GetCommonFolder vValue|WINDOWS
SET VAR vResult = 'WINDOWS : ' + vValue; WRITE .vResult; CLEAR VAR vValue,vResult

WINDOWS : C:\Windows

--The following return the System folder
PLUGIN GetCommonFolder vValue|SYSTEM
SET VAR vResult = 'SYSTEM : ' + vValue; WRITE .vResult; CLEAR VAR vValue,vResult

SYSTEM : C:\Windows\system32

--The following return the Program Files folder
PLUGIN GetCommonFolder vValue|PROGRAM_FILES
SET VAR vResult = 'PROGRAM_FILES : ' + vValue; WRITE .vResult; CLEAR VAR
vValue,vResult

PROGRAM_FILES : C:\Program Files (x86)
```

4.2.3 GetFileExt

The GetFileExt plugin is used to capture the file extension of a particular file. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetFileExt vFileExt|FileName.ext
```

Where:

vFileExt is the variable to return the text value of a given file extension

FileName.ext is the actual name and extension of the file, preceding with the full path

Notes:

Returned variable name and the exact file name with path must be separated by a "|" pipe character.

4.2.4 GetFileLockStatus

The GetFileLockStatus plugin is used to capture the lock status of a specified file. The plugin can capture the file status for a user's ability to read, write, and read and write for a file, and also the "exclusive" capability for each. The GetFileLockStatus plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetFileLockStatus vStatus|FileName.ext|<parameter>
```

Where:

vStatus is the variable to return the value of "Yes", "No", or "File does not exist." if the specified file does not exist.

FileName.ext is the actual name and extension of the file, preceding with the full path.

Parameters:

Parameter	Description
CAN_READ	Captures status if user can read a shared file
CAN_WRITE	Captures status if user can write to a shared file
CAN_READ_WRITE	Captures status if user can read and write to a shared file
CAN_READ_EXCLUSIVE	Captures status if user can read from a file and not allow anyone else to read
CAN_WRITE_EXCLUSIVE	Captures status if user can write to a file and not allow anyone else to write
CAN_READ_WRITE_EXCLUSIVE (default value)	Captures status if user has exclusive access to a file (nothing is shared)

Notes:

- Returned variable name, exact file name with path, and third parameter must be separated by a "|" pipe character.
- The CAN_READ_WRITE_EXCLUSIVE parameter is the default value for the third parameter.

Example:

```
-- checks if a PDF has exclusive read/write status
PLUGIN GetFileLockStatus vResult +
|D:\Documents\Customers.pdf +
|CAN_READ_WRITE_EXCLUSIVE
```

If the user has exclusive rights to read and write, the vResult value will be "Yes".

4.2.5 GetFileSize

The GetFileSize plugin is used to capture the size of a particular file. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetFileSize vFileSizeTxt|FileName.ext
```

Where:

vFileSizeTxt is the variable to return the text value of a given file size

FileName.ext is the actual name and extension of the file, preceding with the full path

Notes:

Returned variable name and the exact file name with path must be separated by a "|" pipe character.

4.2.6 GetTimeStamp

The GetTimeStamp plugin is used to capture the date and time stamp of a particular file. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetTimeStamp vFileTimeStampTxt|FileName.ext
```

Where:

vFileTimeStampTxt is the variable to return the DATETIME value

FileName.ext is the actual name and extension of the file, preceding with the full path.

Notes:

Returned variable name and the exact file name with path must be separated by a "|" pipe character.

4.2.7 GetTimeZoneInfo

The GetTimeZoneInfo plugin is used to capture the time zone information, returning local and UTC (Universal Time Coordinated/Universal Coordinated Time) values. The GetTimeZoneInfo plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN GetTimeZoneInfo vResult|<parameters>
```

Where:

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

Parameters:

Parameter	Description
GET_INFO	Returns the local and UTC date time values
TO_UTC	Converts the specified local time to the UTC equivalent
TO_LOCAL	Converts the specified UTC time to the local equivalent

Notes:

Returned variable name and parameter must be separated by a "|" pipe character.

Examples:

Example 01:

-- to capture local and UTC date time values

```
PLUGIN GetTimeZoneInfo vResult|GET_INFO
```

Where the following variables are returned:

vResult	= OK	TEXT
vRBTIDateTimeUTC	= 05/26/2016 04:01:01 PM	DATETIME
vRBTIDateTimeLocal	= 05/26/2016 12:01:01 PM	DATETIME

The variable vRBTIDateTimeUTC is the time expressed in UTC.

The variable `vRBTIDateTimeLocal` is the time expressed in local time.

Example 02:

-- to convert a specified date time to UTC equivalent

```
SET VAR vCT_DateTime DATETIME = `06/20/2016 11:00:00`
PLUGIN GetTimeZoneInfo vResult|TO_UTC &vCT_DateTime
```

Where the following variables are returned:

<code>vResult</code>	= OK	TEXT
<code>vRBTIDateTimeUTC</code>	= 06/20/2016 03:00:00 PM	DATETIME
<code>vRBTIDateTimeLocal</code>	= 06/20/2016 11:00:00 AM	DATETIME

The variable `vRBTIDateTimeUTC` is the time expressed in UTC.
The variable `vRBTIDateTimeLocal` is the specified local time.

Example 03:

-- to convert a specified UTC date time to the local equivalent

```
SET VAR vUTC_DateTime DATETIME = `06/26/2016 9:00:00`
PLUGIN GetTimeZoneInfo vResult|TO_UTC &vCT_DateTime
```

Where the following variables are returned:

<code>vResult</code>	= OK	TEXT
<code>vRBTIDateTimeUTC</code>	= 06/26/2016 09:00:00 AM	DATETIME
<code>vRBTIDateTimeLocal</code>	= 06/26/2016 05:00:00 AM	DATETIME

The variable `vRBTIDateTimeUTC` is the specified UTC time.
The variable `vRBTIDateTimeLocal` is the time expressed in local time.

4.2.8 HTTP

The HTTP Plugin is used to perform POST and GET Hypertext Transfer Protocol communication to a server, to submit data, acquire files, return sizes for available files, and more. The HTTP plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN HTTP vResult|<parameters>
```

Where:

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

Parameters:

Parameter	Value	Description
AUTH	ON OFF	Turns on basic HTTP authentication. The default is OFF.
GET	value	Requests data from a specified online resource (URL)
GET_SIZE	value	Requests the file size from a specified online resource. When used, the variable <code>vRBTIResourceSize</code> is generated with the INTEGER data type, which returns the size of the resource in bytes.
GET_NAME	value	Requests the file name from a specified online resource. When used, the variable <code>vRBTIResourceName</code> is generated with the TEXT data type, which returns the resource name.
LOCAL_FILE	value	Saves a specified online resource to a local file
POST	value	Supplies data to an online resource (URL)

FORM	value	Specifies a form field and value for data submission. The field name and value is specified, separated with a colon.
FORM_FILE	value	Specifies a file for data submission to a form field. The MIME type "image/bmp" and path "C:\Folder\File.Bmp" is specified, separated with a colon.
HEADER	value	Includes an arbitrary header into the HTTP request
URL_PARAM_ENCODE	value	Specifies to encode a value to make it valid as a URL parameter value
HTML_ENCODE	value	Specifies to encode a text to make it a valid HTML text (convert characters that can cause conflicts with HTML tags)

Notes:

- The result variable, above as vResult, name and parameter must be separated by a "|" pipe character.
- For HTTPS resources, the SSLEAY32.DLL and LIBEAY32.DLL files must be located in the R:BASE program folder with the executable.
- Within R:BASE reports, the HTTP plugin supports the ability to add an image from a URL that will be downloaded when the report is generated. The ability to reference URLs in reports is supported using Variable Image and DB Image controls.
- URL encoding is the practice of translating unprintable characters, or characters with special meaning, within URLs to a representation that is unambiguous and universally accepted by Web browsers and servers. URL encoding may be required for some servers. When using the encode parameters, the encoded value is returned in the result variable.

Examples:**Example 01:**

-- Acquires the file size for an online zip file

```
PLUGIN HTTP vResult|GET_SIZE http://www.rbase.com/temp/Project_NewIndustry.zip
SHOW VAR
vRBTIResourceSize = 25628472          INTEGER
vResult           = OK                TEXT
```

Example 02:

-- Saves an online zip file locally

```
PLUGIN HTTP vResult|GET http://www.rbase.com/temp/TestDB_September.zip|LOCAL_FILE
Downloaded_TestDB_September.zip
SHOW VAR
vRBTIResourceSize = 12421047          INTEGER
vResult           = OK                TEXT
```

Example 03:

-- Saves an online Web site page locally

```
PLUGIN HTTP vResult|GET https://news.google.com/|LOCAL_FILE LocalNewsFile.html
```

Example 04:

-- Posts data to three form fields; FirstName, LastName, and Photo

-- The response will be saved in the "PostOut.Dat" file

-- FirstName and LastName are simple value fields. Photo is a file upload field.

```
PLUGIN HTTP vResult|POST https://postman-site.com/post/|LOCAL_FILE PostOut.Dat|FORM
'FirstName:Edmund'|FORM 'LastName:Fitzgerald'|FORM_FILE 'Photo:image/png:C:
\Images\EF_Photo.png'
```

Example 05:

-- Encodes the values of vUserName and vPassword to be included with the HTTP (URL) command

-- The response will be saved in the "post.log" file

```
PLUGIN HTTP vUserName|URL_PARAM_ENCODE &vUserName
PLUGIN HTTP vPassword|URL_PARAM_ENCODE &vPassword
```

```
SET VAR vURL text = +
('HTTP vResult|GET https://msgpf.website.com/webapi/msgplatform/cont.home?
username='+.vUserName+'&password='+.vPassword+'&messagetype=1'|LOCAL_FILE post.log')
PLUGIN &vURL
```

4.2.9 LoadFileNamePlusPlus

The LoadFileNamePlusPlus plugin is used to load a file name into a variable by displaying a dialog window for the user to browse the operating system. The LoadFileNamePlusPlus plugin allows all the same parameters from previous "LoadFileName" Plugins, only this version return a list of variable values after a file or files are selected. It does not appear in the R:BASE for Windows Plugins Menu. The LoadFileNamePlusPlus is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS LoadFileNamePlusPlus VarName|<parameters>
```

Where:

VarName is the variable name to return the text value of the selected file

Parameters:

Parameter	Value	Description
CANCEL_BUTTON_CAPTION	value	Specifies the caption for the "Cancel" button
DONT_ADD_TO_RECENT	ON/OFF	Specifies if file selection is added to recently opened documents
ENABLE_SIZING	ON/OFF	Specifies if the dialog window can be resized
FILENAME	value	Filters the displayed results matching the file mask (e.g. *guide*.pdf)
FILTER	value	Filters the results by file extension (e.g. Text Files (*.txt)*.txt)
FULLPATH	ON/OFF	Specifies if the full path for the selected file is returned with the file name
HIDE_READ_ONLY	ON/OFF	Specifies if the "Open as Read Only" check box is displayed
INITIAL_DIR	value	Specifies the initial directory when launched
MULTISELECT	ON/OFF	Specifies if multiple files can be selected
NO_CHANGE_DIR	ON/OFF	Specifies if the directory changes when the file is selected
NO_DEREFERENCE_LINKS	ON/OFF	Specifies if shortcut links are valid or are de-referenced
NO_LONG_NAMES	ON/OFF	Specifies if files not using the 8.3 naming convention are displayed. This is only supported with the OLD_STYLE parameter.
NO_NETWORK_BUTTON	ON/OFF	Specifies if the network button is displayed. This is only supported with the OLD_STYLE parameter.
NO_VALIDATE	ON/OFF	Specifies if validation for invalid characters is used
OK_BUTTON_CAPTION	value	Specifies the caption for the "OK" button
OLD_STYLE	ON/OFF	Specifies if the "old style" window is displayed
READ_ONLY	ON/OFF	Specifies to disable any method to modify contents of the file list, using keystrokes, mouse, or drag/drop events. The default is OFF.
SCAN_SUBFOLDERS	ON/OFF	Specifies if sub folders are scanned for the SELECT_FILES parameter. The default for SCAN_SUBFOLDERS is OFF.
SELECT_FILES	file.mask	If specified, the plugin will work in silent mode to gather files matching the file mask. (e.g. *bid*.pdf)
PRESELECT_FILES	value	Expects a comma delimited value passed to the plugin for the return variables to be generated. The dialog window is not displayed with this parameter specified.
SHOW_HIDDEN	ON/OFF	Specifies if hidden files can be seen

SHOW_PLACES_BAR	ON/OFF	Enables/Disables the places bar (the left sidebar of the open dialog), which contains shortcuts to local folders.
SORT_DESCENDING	ON/OFF	Specifies the sort direction, when VIEW_MODE is set to DETAILS and SORT_FILES is defined
SORT_FILES	BY_NAME BY_SIZE BY_TYPE BY_MODIFIED	Specifies the sort method for the displayed files
STICK_TO_FOLDER	value	Specifies the dialog box will stick to the defined folder, without the ability to navigate to another folder. This parameter would be used in place of INITIAL_DIR.
STICKY_FOLDER_AS_BASE	ON/OFF	Specifies the STICK_TO_FOLDER value to be the "root folder", where users can drill down but not up
TITLE	value	Specifies the title caption
VIEW_MODE	THUMBNAILS TILES ICONS (Default) LIST DETAILS	Specifies the view mode for the dialog window

Notes:

- Each option must be separated by pipe "|" character.
- A value of '[Esc]' will be returned if the [Cancel] button or Close Window [x] button of the folder selection dialog is selected.

Examples:

Example 01:

```
PLUGINS LoadFileNamePlusPlus vFileName +
| INITIAL_DIR C:\RBTI\ +
| FILTER PDF Files (*.pdf)#*.pdf +
| HIDE_READ_ONLY ON +
| SHOW_HIDDEN OFF +
| VIEW_MODE LIST +
| OK_BUTTON_CAPTION Load
```

Where the following variables are returned:

vLFNFileCount	= 1	INTEGER
vLFNFileName1	= C:\RBTI\ProgrammingInRBASE.pdf	TEXT
vLFNFilePath1	= C:\RBTI\	TEXT
vLFNFileNameS1	= ProgrammingInRBASE.pdf	TEXT
vLFNFileExt1	= .pdf	TEXT
vLFNFileDT1	= 12/03/2015 15:08:58	TEXT
vLFNFileDateTime1	= 12/03/2015 15:08:58	DATETIME
vLFNFileSize1	= 2084068	INTEGER
vFileName	= OK	TEXT

Example 02:

--Gets all PDF files in the RBTI folder

```
PLUGIN LoadFileNamePlusPlus vResult+
| SELECT_FILES *.PDF+
| INITIAL_DIR C:\RBTI\
```

Where the following variables are returned:

vResult	= OK	TEXT
vLFNFileCount	= 3	INTEGER
vLFNFileName1	= C:\RBTI\FormProperties.pdf	TEXT
vLFNFilePath1	= C:\RBTI\	TEXT
vLFNFileNameS1	= FormProperties.pdf	TEXT
vLFNFileExt1	= .pdf	TEXT
vLFNFileDT1	= 07/27/2016 10:00:00	TEXT
vLFNFileDateTime1	= 07/27/2016 10:00:00	DATETIME
vLFNFileSize1	= 1505786	INTEGER
vLFNFileName2	= C:\RBTI\ProblemSolvingInRBASE.pdf	TEXT
vLFNFilePath2	= C:\RBTI\	TEXT
vLFNFileNameS2	= ProblemSolvingInRBASE.pdf	TEXT
vLFNFileExt2	= .pdf	TEXT
vLFNFileDT2	= 07/27/2016 10:00:00	TEXT
vLFNFileDateTime2	= 07/27/2016 10:00:00	DATETIME
vLFNFileSize2	= 968625	INTEGER
vLFNFileName3	= C:\RBTI\ProgrammingInRBASE.pdf	TEXT
vLFNFilePath3	= C:\RBTI\	TEXT
vLFNFileNameS3	= ProgrammingInRBASE.pdf	TEXT
vLFNFileExt3	= .pdf	TEXT
vLFNFileDT3	= 07/27/2016 10:00:00	TEXT
vLFNFileDateTime3	= 07/27/2016 10:00:00	DATETIME
vLFNFileSize3	= 2084068	INTEGER

Example 03:

-- Gets files while enforcing a read only state, navigating the current directory and down without the ability to navigate up

```

SET VAR vInitialDir = (CVAL('CURRDIR')+'\')
SET VAR vCommand = NULL
SET VAR vResult = NULL
SET VAR vCommand = +
('PLUGINS LoadFileNamePlusPlus vResult +
|STICK_TO_FOLDER'&.vInitialDir + +
'|STICKY_FOLDER_AS_BASE ON +
|NO_CHANGE_DIR ON +
|READ_ONLY ON +
|FULLPATH ON +
|TITLE Select File to Load ... +
|NO_LONG_NAMES OFF +
|VIEW_MODE LIST +
|MULTISELECT ON +
|SHOW_HIDDEN OFF +
|DONT_ADD_TO_RECENT ON +
|FILTER All Files (*.*)#*.*; +
#Adobe Acrobat PDF Files (*.pdf)#*.pdf; +
#Corel WordPerfect (*.wpd)#*.wpd; +
#Graphic Files (*.BMP, *.GIF, *.JPG, *.png)#*.BMP;*.gif;*.jpg; *.png; +
#MS Outlook Saved Messages (*.msg)#*.msg; +
#MS Spread Sheet (*.XLS, *.xlsx)#*.XLS;*.xlsx; +
#MS Word Files (*.RTF, *.DOC, *.docx)#*.RTF;*.doc;*.docx; +
#Scalable Vector Graphics (*.svg)#*.svg; +
#Text Files (*.txt)#*.txt')
&vCommand

```

Example 04:

-- Receives a file list as a passed variable

```
PLUGINS LoadFileNamePlusPlus vResult|PRESELECT_FILES &vDroppedFiles
```

4.2.10 OutlookMail2

The OutlookMail2 plugin is a email plugin to send a message directly to MS Outlook as an installed email program. The OutlookMail2 plugin opens a dialog window and passes the specified email parameters. With the "Send Directly" check box set, the email message will bypass being sent by Outlook and will be sent to the intended recipient from the dialog window.

The OutlookMail2 plugin does not appear in the R:BASE for Windows Plugins Menu. The OutlookMail2 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS OutlookMail2 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message
BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message
ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the semi-colon (;) character to separate each file. The full path to the file must be specified.
ACTION_VAR:	Captures the SEND/CANCEL action by the user when the email dialog is displayed
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
SENDDIRECT	Specifies the setting for the "Send Directly" check box (TRUE/FALSE)
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)
HEIGHT	Specifies the height of the email dialog window
WIDTH	Specifies the width of the email dialog window

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.
- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with a semi-colon.

Example:

```
SET VAR vTo TEXT = 'joe@myisp.com'
SET VAR vCC TEXT = 'jason@sslwnw.com'
SET VAR vBCC TEXT = 'jim@myisp.com'
```

```

SET VAR vSubject TEXT = 'Quote Details'
SET VAR vBody TEXT = 'Please review the following.'
SET VAR vEmailCmd TEXT = +
    ('PLUGIN OutlookMail2 vResult'+ +
    '|ACTION_VAR: vAction'+ +
    '|TO: '+.vTo+ +
    '|Cc: '+.vCC+ +
    '|Bcc: '+.vBcc+ +
    '|SUBJECT: '+.vSubject+ +
    '|BODY: '+.vBody+ +
    '|SENDDIRECT TRUE'+ +
    '|WIDTH 600')
&vEmailCmd

```

4.2.11 OutlookMail3

The OutlookMail3 plugin is a email plugin to send a message directly to MS Outlook as an installed email program. The MapiMail3 plugin passes the email message parameters to Outlook which are then displayed as a new outgoing message.

The OutlookMail3 plugin does not appear in the R:BASE for Windows Plugins Menu. The OutlookMail3 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS OutlookMail3 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message
BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message
ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the pound (#) character to separate each file. The full path to the file must be specified.
PROFILE_NAME:	Specifies a Profile to be used by the Messaging API when the Send method is called. Typically, this parameter is left blank which instructs MAPI to use the default profile.
PASSWORD:	Specifies the password to be used during the log in process
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.

- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with the pound (#) character.

Example:

```

CLEAR ALL VARIABLES
SET VAR vQuote TEXT = NULL
SET VAR vPipe TEXT = NULL
SET VAR vTo TEXT = NULL
SET VAR vSubject TEXT = NULL
SET VAR vCc TEXT = NULL
SET VAR vBcc TEXT = NULL
SET VAR vBody TEXT = NULL
SET VAR vAttachments TEXT = NULL
SET VAR vFileSpec TEXT = NULL
SET VAR vToRecipient1 TEXT = NULL
SET VAR vToRecipient2 TEXT = NULL
SET VAR vCCRecipient1 TEXT = NULL
SET VAR vCCRecipient2 TEXT = NULL
SET VAR vBCCRecipient1 TEXT = NULL
SET VAR vBCCRecipient2 TEXT = NULL
SET VAR vToRecipientList TEXT = NULL
SET VAR vCCRecipientList TEXT = NULL
SET VAR vBCCRecipientList TEXT = NULL
SET VAR vResolveNames TEXT = NULL
SET VAR vParameters TEXT = NULL

SET VAR vQuote = (CVAL('QUOTES'))
SET VAR vEmail TEXT = 'vEmail'
SET VAR vPipe = '|'
SET VAR vSC TEXT = ';'
SET VAR vToRecipient1 = 'pterrell@rbtiroasters.com'
SET VAR vToRecipient2 = 'jtaggart@rbtiroasters.com'
SET VAR vToRecipient3 = 'dmachine@rbtiroasters.com'
SET VAR vCCRecipient1 = 'gkennedy@inhouseinspections.com'
SET VAR vCCRecipient2 = 'clidell@rbtiroasters.com'
SET VAR vBCCRecipient1 = 'contracts@inhouseinspections.com'
SET VAR vBCCRecipient2 = 'accountspayable@inhouseinspections.com'
SET VAR vToRecipientList = (.vToRecipient1 + .vSC + .vToRecipient2 + .vSC +
.vToRecipient3)
SET VAR vCCRecipientList = (.vCCRecipient1 + .vSC + .vCCRecipient2)
SET VAR vBCCRecipientList = (.vBCCRecipient1 + .vSC + .vBCCRecipient2)
SET VAR vFileSpec1 = 'C:\Reports\InspectionReport_RBTI_Roasters_22912_0521.pdf'
SET VAR vFileSpec2 = 'C:\Reports\InspectionGuidelines_RBTI_Roasters.pdf'

SET VAR vTo = ('TO:' + .vToRecipientList)
SET VAR vSubject = ('SUBJECT: Inspection Report Results')
SET VAR vCc = ('CC:' + .vCCRecipientList)
SET VAR vBcc = ('BCC:' + .vBCCRecipientList)
SET VAR vBody = ('BODY:Please review the attached Inspection Report.')
SET VAR vAttachments = ('ATTACHMENTS:' + .vFileSpec1 + '#' + .vFileSpec2)
SET VAR vResolveNames = ('RESOLVE_NAMES TRUE')

SET VAR vParameters = +
(.vQuote+.vEmail&.vPipe+.vTo&.vPipe+.vSubject&.vPipe+.vCc&.vPipe+.vBcc&.vPipe+
+.vBody&+.vPipe+.vAttachments&.vPipe+.vResolveNames+.vQuote)

```

```
PLUGIN OutlookMail3 &vParameters
```

```
CLEAR VAR vAttachments,vBcc,vBCCRecipient1,vBCCRecipient2,vBCCRecipientList, +
vBody,vCc,vCCRecipient1,vCCRecipient2,vCCRecipientList,vCRLF,vEmail,vFileSpec,+
vParameters,vPipe,vQuote,vResolveNames,vSubject,vTo,vToRecipient1,vToRecipient2,+
vToRecipient3,vToRecipientList
RETURN
```

4.2.12 OutlookMail4

The OutlookMail4 plugin is a email plugin to send a message directly through MS Outlook as an installed email program. The OutlookMail4 plugin will automatically send the email message. The message content is not displayed for review.

The OutlookMail4 plugin does not appear in the R:BASE for Windows Plugins Menu. The OutlookMail4 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS OutlookMail4 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message
BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message
ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the pound (#) character to separate each file. The full path to the file must be specified.
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.
- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with the pound (#) character.

Example:

```
CLEAR ALL VARIABLES
SET VAR vTo TEXT = 'joe@supermart.com'
SET VAR vCC TEXT = 'jason@sswest.com'
```

```

SET VAR vBCC TEXT = 'jim@sswest.com'
SET VAR vSubject TEXT = 'Order Details'
SET VAR vReceipt = 'C:\CustomerReports\InvoiceReceipt_20857.pdf'
SET VAR vProductList = 'C:\Products\SecureSolutionsWest_Products.pdf'
SET VAR vAttachments = (.vReceipt + '#' + .vProductList)
SET VAR vCR TEXT = (CHAR(13)+CHAR(10))
SET VAR vMessage_Body VARCHAR = NULL
SET VAR vMessage_Body VARCHAR = ('Dear Joe,')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + 'Thank you for your recent
order.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + 'Please refer to the
detailed instructions included with the merchandise, outlining maintenance and
installation tips.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + 'If there is anything we can
do to help answer your questions during installation of our products, please do not
hesitate to ask.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + 'Sincerely,')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body + vCR + 'Secure Solutions West,
Inc.')
```

```

SET VAR vEmailCmd TEXT = +
('PLUGIN OutlookMail4 vResult'+ +
'|TO: '+.vTo+ +
'|Cc: '+.vCC+ +
'|Bcc: '+.vBcc+ +
'|SUBJECT: '+.vSubject+ +
'|ATTACHMENTS: '+.vAttachments+ +
'|BODY_VAR vMessage_Body' + +
'|RESOLVE_NAMES TRUE')
```

&vEmailCmd

4.2.13 MapiMail2

The MapiMail2 plugin is a MAPI E-Mail plugin to send a message through your email client program. The MapiMail2 plugin opens the MapiMail dialog window and passes the parameters for all the values. With the "Send Directly" check box set, the email message will bypass the email client interface and send directly from the MapiMail dialog window.

The MapiMail2 plugin does not appear in the R:BASE for Windows Plugins Menu. The MapiMail2 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS MapiMail2 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message

BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message
ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the semi-colon (;) character to separate each file. The full path to the file must be specified.
PROFILE_NAME:	Specifies a Profile to be used by the Messaging API when the Send method is called. Typically, this parameter is left blank which instructs MAPI to use the default profile.
PASSWORD:	Specifies the password to be used during the log in process
ACTION_VAR:	Captures the SEND/CANCEL action by the user when the email dialog is displayed
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
SENDDIRECT	Specifies the setting for the "Send Directly" check box (TRUE/FALSE)
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)
RAW_ADDRESSES	Specifies to compose the recipient portion of the email in the standard format as follows: John Doe <johndoe@domain.com>. RAW_ADDRESSES is used to turn off TNEF in Outlook, to better control how attachments are received in email clients. (TRUE/FALSE) When RAW_ADDRESSES is TRUE, the MAPI object for addresses will use the address provided as is and assign it to NAME, then set ADDRESS to empty. In addition to this, the RESOLVE_NAMES value will be ignored.
SuppressOutlookSecurity	Specifies if Microsoft Outlook security warning is suppressed. (TRUE/FALSE)
HEIGHT	Specifies the height of the MapiMail dialog window
WIDTH	Specifies the width of the MapiMail dialog window
CHECK_MAPI	Verifies MAPI is installed on the computer. The return value is "OK" if MAPI is installed. Otherwise, "-ERROR- MAPI is not installed" is returned.

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.
- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with a semi-colon.
- The 32-bit MAPI dll must be installed and [verified](#) in order to use the MapiMail plugins within the R:BASE Plugin Power Pack.

Example:

Example 01:

```
PLUGIN MapiMail2 vMapiCheck|CHECK_MAPI
```

Example 02:

```
SET VAR vTo TEXT = 'joe@myisp.com'
SET VAR vCC TEXT = 'jason@sslowl.com'
SET VAR vBCC TEXT = 'jim@myisp.com'
SET VAR vSubject TEXT = 'Quote Details'
```

```

SET VAR vBody TEXT = 'Please review the following.'
SET VAR vEmailCmd TEXT = +
    ('PLUGIN MapiMail2 vResult'+ +
    '|ACTION_VAR: vAction'+ +
    '|TO: '+.vTo+ +
    '|Cc: '+.vCC+ +
    '|Bcc: '+.vBcc+ +
    '|SUBJECT: '+.vSubject+ +
    '|BODY: '+.vBody+ +
    '|SENDDIRECT TRUE'+ +
    '|RESOLVE_NAMES TRUE'+ +
    '|SuppressOutlookSecurity TRUE'+ +
    '|WIDTH 600')
&vEmailCmd

```

4.2.14 MapiMail3

The MapiMail3 plugin is a MAPI E-Mail plugin to send a message through your email client program. The MapiMail3 plugin does not open the MapiMail dialog and simply passes the parameters to the default email client.

The MapiMail3 plugin does not appear in the R:BASE for Windows Plugins Menu. The MapiMail3 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS MapiMail3 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message
BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message
ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the pound (#) character to separate each file. The full path to the file must be specified.
PROFILE_NAME:	Specifies a Profile to be used by the Messaging API when the Send method is called. Typically, this parameter is left blank which instructs MAPI to use the default profile.
PASSWORD:	Specifies the password to be used during the log in process
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)
RAW_ADDRESSES	Specifies to compose the recipient portion of the email in the standard format as follows: John Doe <johndoe@domain.com>. RAW_ADDRESSES is used to turn off TNEF in Outlook, to better control how attachments are received in email clients. (TRUE/FALSE) When RAW_ADDRESSES is TRUE, the MAPI object for addresses will use the address provided as is and assign it to NAME, then set

	ADDRESS to empty. In addition to this, the RESOLVE_NAMES value will be ignored.
SuppressOutlookSecurity	Specifies if Microsoft Outlook security warning is suppressed. (TRUE/FALSE)
CHECK_MAPI	Verifies MAPI is installed on the computer. The return value is "OK" if MAPI is installed. Otherwise, "-ERROR- MAPI is not installed" is returned.

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.
- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with the pound (#) character.
- The 32-bit MAPI dll must be installed and [verified](#) in order to use the MapiMail plugins within the R:BASE Plugin Power Pack.

Example:

Example 01:

```
PLUGIN MapiMail3 vMapiCheck|CHECK_MAPI
```

Example 02:

```
CLEAR ALL VARIABLES
SET VAR vQuote TEXT = NULL
SET VAR vPipe TEXT = NULL
SET VAR vTo TEXT = NULL
SET VAR vSubject TEXT = NULL
SET VAR vCc TEXT = NULL
SET VAR vBcc TEXT = NULL
SET VAR vBody TEXT = NULL
SET VAR vAttachments TEXT = NULL
SET VAR vFileSpec TEXT = NULL
SET VAR vToRecipient1 TEXT = NULL
SET VAR vToRecipient2 TEXT = NULL
SET VAR vCCRecipient1 TEXT = NULL
SET VAR vCCRecipient2 TEXT = NULL
SET VAR vBCCRecipient1 TEXT = NULL
SET VAR vBCCRecipient2 TEXT = NULL
SET VAR vToRecipientList TEXT = NULL
SET VAR vCCRecipientList TEXT = NULL
SET VAR vBCCRecipientList TEXT = NULL
SET VAR vResolveNames TEXT = NULL
SET VAR vParameters TEXT = NULL

SET VAR vQuote = (CVAL('QUOTES'))
SET VAR vEmail TEXT = 'vEmail'
SET VAR vPipe = '|'
SET VAR vSC TEXT = ';'
SET VAR vToRecipient1 = 'pterrell@rbtiroasters.com'
SET VAR vToRecipient2 = 'jtaggart@rbtiroasters.com'
SET VAR vToRecipient3 = 'dmachine@rbtiroasters.com'
```

```

SET VAR vCCRecipient1 = 'gkennedy@inhouseinspections.com'
SET VAR vCCRecipient2 = 'clidell@rbtiroasters.com'
SET VAR vBCCRecipient1 = 'contracts@inhouseinspections.com'
SET VAR vBCCRecipient2 = 'accountspayable@inhouseinspections.com'
SET VAR vToRecipientList = (.vToRecipient1 + .vSC + .vToRecipient2 + .vSC +
.vToRecipient3)
SET VAR vCCRecipientList = (.vCCRecipient1 + .vSC + .vCCRecipient2)
SET VAR vBCCRecipientList = (.vBCCRecipient1 + .vSC + .vBCCRecipient2)
SET VAR vFileSpec1 = 'C:\Reports\InspectionReport_RBTI_Roasters_22912_0521.pdf'
SET VAR vFileSpec2 = 'C:\Reports\InspectionGuidelines_RBTI_Roasters.pdf'

SET VAR vTo = ('TO:' + .vToRecipientList)
SET VAR vSubject = ('SUBJECT: Inspection Report Results')
SET VAR vCc = ('CC:' + .vCCRecipientList)
SET VAR vBcc = ('BCC:' + .vBCCRecipientList)
SET VAR vBody = ('BODY:Please review the attached Inspection Report.')
SET VAR vAttachments = ('ATTACHMENTS:' + .vFileSpec1 + '#' + .vFileSpec2)
SET VAR vResolveNames = ('RESOLVE_NAMES TRUE')
SET VAR vSuppressSecurity = ('SUPPRESSOUTLOOKSECURITY TRUE')

SET VAR vParameters = +
(.vQuote+.vEmail&.vPipe+.vTo&.vPipe+.vSubject&.vPipe+.vCc&.vPipe+.vBcc&.vPipe+
+.vBody&+.vPipe+.vAttachments&.vPipe+.vResolveNames&.vPipe+.vSuppressSecurity+.vQuo
te)

PLUGIN MapiMail3 &vParameters

CLEAR VAR vAttachments,vBcc,vBCCRecipient1,vBCCRecipient2,vBCCRecipientList, +
vBody,vCc,vCCRecipient1,vCCRecipient2,vCCRecipientList,vCRLF,vEmail,vFileSpec,+
vParameters,vPipe,vQuote,vResolveNames,vSubject,vSuppressSecurity,vTo,+
vToRecipient1,vToRecipient2,vToRecipient3,vToRecipientList
RETURN

```

4.2.15 MapiMail4

The MapiMail4 plugin is a MAPI E-Mail plugin to send a message directly through your email client program. The MapiMail4 plugin does not open the MapiMail dialog, nor your email client, and the email is automatically mailed.

The MapiMail4 plugin does not appear in the R:BASE for Windows Plugins Menu. The MapiMail4 file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS MapiMail4 vMail|<parameters>
```

Where:

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

Parameters:

Parameter	Description
TO:	Specifies the list of recipients of the message
CC:	Specifies the list of carbon copy recipients of the message
BCC:	Specifies the list of blind carbon copy recipients of the message
SUBJECT:	Specifies the subject string for the message
BODY:	Specifies the body content of the message

ATTACHMENTS:	Specifies the list of files to be send along with the message. For multiple attachments, use the pound (#) character to separate each file. The full path to the file must be specified.
PROFILE_NAME:	Specifies a Profile to be used by the Messaging API when the Send method is called. Typically, this parameter is left blank which instructs MAPI to use the default profile.
PASSWORD:	Specifies the password to be used during the log in process
BODY_VAR	Specifies the body content of the message, only takes the value from a given variable, making multi-line messages easier to formulate
RESOLVE_NAMES	Specifies the setting to resolve a message recipient's name (as entered by a user) to an unambiguous address list entry, optionally prompting the user to choose between possible entries, if necessary. (TRUE/FALSE)
RAW_ADDRESSES	Specifies to compose the recipient portion of the email in the standard format as follows: John Doe <johndoe@domain.com>. RAW_ADDRESSES is used to turn off TNEF in Outlook, to better control how attachments are received in email clients. (TRUE/FALSE) When RAW_ADDRESSES is TRUE, the MAPI object for addresses will use the address provided as is and assign it to NAME, then set ADDRESS to empty. In addition to this, the RESOLVE_NAMES value will be ignored.
SuppressOutlookSecurity	Specifies if Microsoft Outlook security warning is suppressed. (TRUE/FALSE)
CHECK_MAPI	Verifies MAPI is installed on the computer. The return value is "OK" if MAPI is installed. Otherwise, "-ERROR- MAPI is not installed" is returned.

Notes:

- In the above parameters, note the list is separated; where the top items specify a colon between the parameter and value, and the bottom items do not.
- The return variable name and each parameter must be separated with the pipe (|) character.
- When sending a message to several recipients, separate each email address with a semi-colon.
- When sending a message with multiple attachments, separate each file with the pound (#) character.
- The 32-bit MAPI dll must be installed and [verified](#) in order to use the MapiMail plugins within the R:BASE Plugin Power Pack.

Example:

Example 01:

```
PLUGIN MapiMail4 vMapiCheck|CHECK_MAPI
```

Example 02:

```
CLEAR ALL VARIABLES
SET VAR vTo TEXT = 'joe@supermart.com'
SET VAR vCC TEXT = 'jason@sswest.com'
SET VAR vBCC TEXT = 'jim@sswest.com'
SET VAR vSubject TEXT = 'Order Details'
SET VAR vReceipt = 'C:\CustomerReports\InvoiceReceipt_20857.pdf'
SET VAR vProductList = 'C:\Products\SecureSolutionsWest_Products.pdf'
SET VAR vAttachments = (.vReceipt + '#' + .vProductList)
SET VAR vCR TEXT = (CHAR(13)+CHAR(10))
SET VAR vMessage_Body VARCHAR = NULL
SET VAR vMessage_Body VARCHAR = ('Dear Joe,')
```



```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + 'Thank you for your recent
order.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + 'Please refer to the
detailed instructions included with the merchandise, outlining maintenance and
installation tips.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + 'If there is anything we can
do to help answer your questions during installation of our products, please do not
hesitate to ask.')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + 'Sincerely,')
```

```

SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + ' ')
SET VAR vMessage_Body VARCHAR = (.vMessage_Body +.vCR + 'Secure Solutions West,
Inc.')
```

```

SET VAR vEmailCmd TEXT = +
('PLUGIN MAPIMail4 vResult'+ +
'|TO:'.vTo+ +
'|Cc:'.vCC+ +
'|Bcc:'.vBcc+ +
'|SUBJECT:'.vSubject+ +
'|ATTACHMENTS:'.vAttachments+ +
'|BODY_VAR vMessage_Body' + +
'|RESOLVE_NAMES TRUE'+ +
'|SuppressOutlookSecurity TRUE')
&vEmailCmd
```

4.2.16 Num2Word

The Num2Wrd plugin is used to convert a number to its written out text value. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN Num2Wrd vResult|<value>
```

Where:

vResult is the variable to return the text value of the number provided

Notes:

Returned variable name and the value must be separated by a "|" pipe character.

4.2.17 RAudioPlayer

The RAudioPlayer plugin is used to play audio files. The plugin supports the following audio formats: MP3, WMA, AVI, WAV, and MDI. It does not appear in the R:BASE for Windows Plugins Menu. The RAudioPlayer plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS RAudioPlayer vResult|<parameters>
```

Where:

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

Parameters:

Parameter	Description
FILENAME	Specifies the name and path of the audio file
PLAY	Specifies to play the current file
PAUSE	Specifies to pause the current file being played
RESUME	Specifies to resume playing the current file
STOP	Specifies to stop the current file

Notes:

Values must be separated by a "|" pipe character.

Examples:

```
-- Example 01: To load and play audio file
PLUGIN RAudioPlayer vResult|FILENAME DreamTheater_Octavarium.mp3
PLUGIN RAudioPlayer vResult|PLAY
RETURN

-- Example 02: To pause the already playing audio
PLUGIN RAudioPlayer vResult|PAUSE
RETURN

-- Example 03: To resume the paused audio
PLUGIN RAudioPlayer vResult|RESUME
RETURN

-- Example 04: To stop the audio player
PLUGIN RAudioPlayer vResult|STOP
RETURN
```

4.2.18 RBFileOperations

The RBFileOperations plugin is used to perform file operations and automated file management tasks. The plugin can rename, copy, delete, and move files or folders. The use of wildcards, such as the asterisk (*) is supported. Other options include silent mode to hide the progress window, undo to reverse any changes made, and confirmation after an action has been made. It does not appear in the R:BASE for Windows Plugins Menu. The RBFileOperations plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RBFileOperations 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
OPERATION	COPY_DIR	Specifies to copy a directory
	RENAME_DIR	Specifies to rename a directory
	DELETE_DIR	Specifies to delete a directory
	MOVE_DIR	Specifies to move a directory
	COPY_FILES	Specifies to copy files
	RENAME_FILE	Specifies to rename files
	DELETE_FILES	Specifies to delete files
	MOVE_FILES	Specifies to move files
SOURCE	value	Specifies the source directory/file name

TARGET	value	Specifies the target directory/file name
SILENT	ON OFF	Shows or hides the progress box. The default is ON.
UNDO	ON OFF	Move files\directories into recycle bin. The default is ON.
CONFIRMATION	ON OFF	Shows or hides the show confirmation dialog on delete, rename etc.

Notes:

Returned variable name and parameters must be separated by a "|" pipe character.

Examples:

--To move the folder D:\TEMP\DCU in C:\TEMP

```
PLUGIN RBFileOperations v1|OPERATION MOVE_DIR|SOURCE D:\TEMP\DCU|TARGET C:\TEMP
```

--To delete *.dcu files in folder D:\TEMP\DCU

```
PLUGIN RBFileOperations v1|OPERATION DELETE_FILES|SOURCE D:\TEMP\DCU\*.DCU
```

--To copy *.dcu files in folder D:\TEMP\DCU to C:\TEMP

```
PLUGIN RBFileOperations v1|OPERATION COPY_FILES|SOURCE D:\TEMP\DCU\*.dcu|TARGET C:\TEMP
```

--To rename abcdef.dcu files in folder D:\TEMP\DCU to D:\TEMP\DCU\abcdef.bin

```
PLUGIN RBFileOperations v1|OPERATION RENAME_FILE|SOURCE D:\TEMP\DCU\abcdef.dcu|TARGET D:\TEMP\DCU\abcdef.bin
```

4.2.19 RColorDialog

The RColorDialog plugin is a GUI utility to display the color palette in R:BASE in order to allow end users to choose custom colors for their custom environment.

Syntax:

```
PLUGIN RColorDialog vResult|<Parameters>
```

Parameters:

Parameter	Value	Description
OUTPUT_FORMAT	NUMBER(default) RGB	defines the variable output format
DEFAULT_COLOR		specifies a default color of choice appear in the dialog when it opens
FULL_OPEN	ON OFF(default)	displays the "custom color options" when the dialog opens
PREVENT_FULL_OPEN	ON OFF(default)	disables the "Define Custom Colors" button in the dialog, so that the user cannot define new colors
SHOW_HELP	ON OFF(default)	adds a Help button to the dialog
SOLID_COLOR	ON OFF(default)	directs Windows to use the nearest solid color to the color chosen
ANY_COLOR	ON OFF(default)	allows the user to select non-solid colors (which may have to be approximated by dithering).

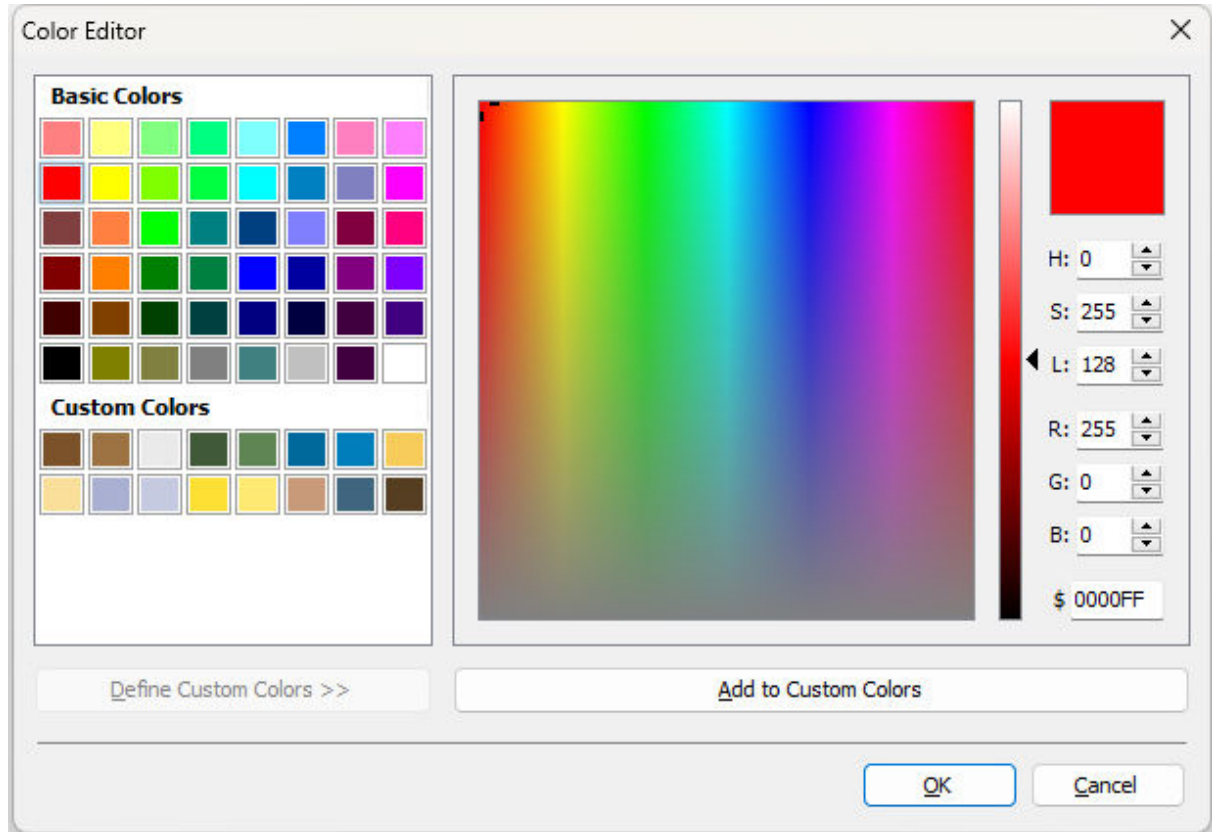
Notes:

If user presses the "Cancel" button, then the result variable will be set to "CANCEL".

Examples:

```
PLUGIN RColorDialog vVarName|OUTPUT_FORMAT RGB|DEFAULT_COLOR [R255,G0,B0]
```

```
PLUGIN RColorDialog vVarName|OUTPUT_FORMAT NUMBER|DEFAULT_COLOR RED|FULL_OPEN ON
```

**4.2.20 RColumnAnalyzer**

The R:Column Analyzer plugin is a GUI tool to analyze the common columns in One-to-Many or Many-to-Many table relationships within your R:BASE database. It does not appear in the R:BASE for Windows Plugins Menu. R:ColumnAnalyzer is available in the R:BASE Plugin Power Pack.

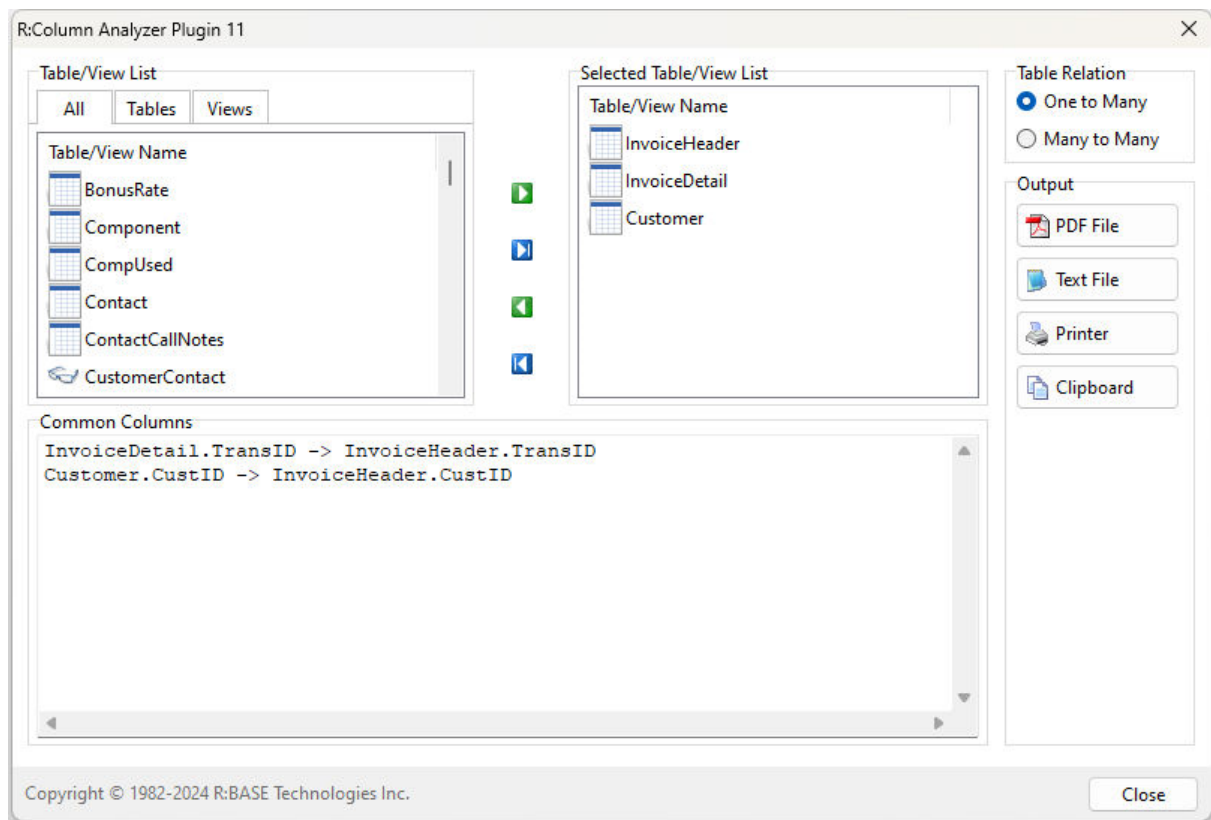
NOTE: The R:Column Analyzer plugin is version specific. Based on your version of R:BASE, you must use the appropriate plugin version.

The resulting analysis can be sent as output to:

- PDF
- Text File
- Printer
- Clipboard

Syntax:

```
PLUGIN RColumnAnalyzer vReturnVariable
```



4.2.21 RDocToRTF

The RDocToRTF plugin converts MS Word data to bare RTF. The input type for the conversion includes either a variable or a file value. The output type for the conversion includes a variable or a file value. The plugin does not appear in the R:BASE for Windows Plugins Menu. The RDocToRTF plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RDocToRTF vResult|parameters
```

Parameters:

Parameter	Value	Description
INPUT_TYPE	VARIABLE FILE	Specifies the input type. A variable or file name is supported.
INPUT_VARIABLE	value	Specifies the input data variable name
INPUT_FILE	value	Specifies the input .doc file name
OUTPUT_TYPE	VARIABLE FILE	Specifies the RTF output type. A text variable or file name is supported.
OUTPUT_VARIABLE	value	Specifies the output RTF variable name
OUTPUT_DATA_TYPE	value	Specifies the output variable type: TEXT, NOTE, or VARCHAR
OUTPUT_FILE	value	Specifies the output RTF file name
BOM	ON OFF (Default)	Adds the byte order mark (BOM) Unicode character, used to signal the byte order of a text file. When the target type is VARCHAR/NOTE/TEXT, if the output is all lower ANSI then no UTF8 BOM will be added when "BOM ON". For BSTR/WIDENOTE/WIDETEXT target types, a UTF-16 LE BOM will always be added when "BOM ON".

There are four different scenarios where the RDocToRTF can be used:

1. When the Input/Output Data is a VARIABLE
2. When the Input/Output Data is an external FILE
3. When the Input is a VARIABLE and Output is an external FILE
4. When the Input is a an external FILE and Output is a VARIABLE

Syntax for each Scenario

- 1. When Input/Output Data is a VARIABLE**

```
PLUGIN RDocToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input HTML data as variable
- OUTPUT_VARIABLE outputvalue is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

- 2. When Input/Output Data is an external FILE**

```
PLUGIN RDocToRTF vResult +
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.doc +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfile.rtf
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.doc is the input HTML file name
- OUTPUT_FILE outputfilename.rtf is the resulting output file with converted data

- 3. When Input is a VARIABLE and Output is an external FILE**

```
PLUGIN RDocToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfilename.rtf
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input data as variable
- OUTPUT_FILE outputfilename.rtf is the resulting output file with converted data

- 4. When Input is a an external FILE and Output is a VARIABLE**

```
PLUGIN RDocToRTF vResult +
```

```
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.doc +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.doc is the input file name
- OUTPUT_VARIABLE outputvarname is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

4.2.22 RExpressionExtractor

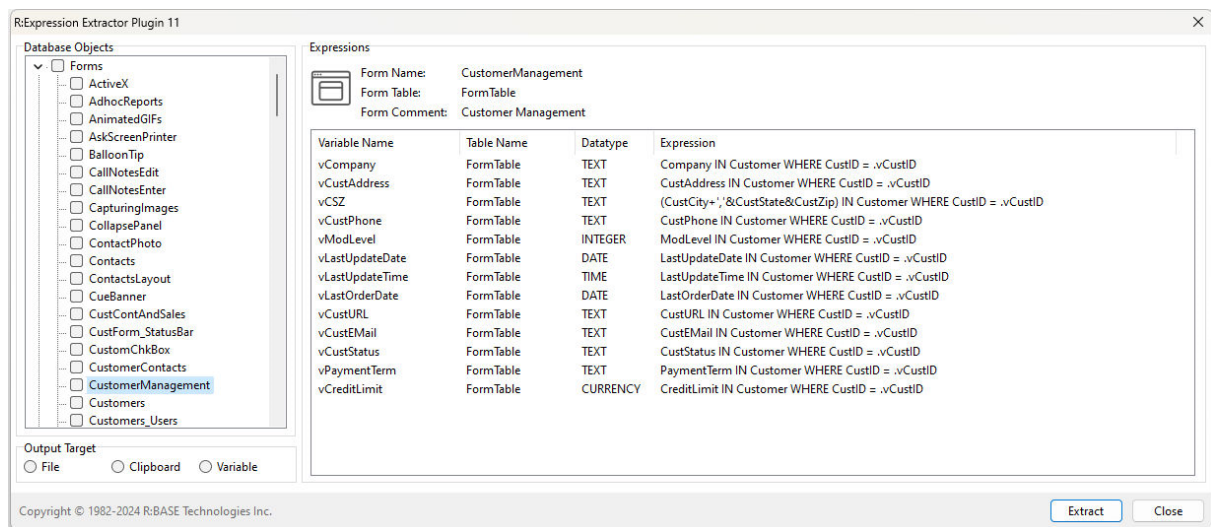
The R:Expression Extractor plugin will extract your list of expressions from any of your R:BASE forms, reports and labels. A specific variable list can be extracted from all forms or just one form. The same can be done for reports and labels. Output options include a file, the clipboard, or a variable.

Statistical values are displayed for the number of database objects (forms, reports, labels) and the number of expressions defined within each.

To launch R:Expression Extractor, use the following syntax at the R>.

Syntax:

```
PLUGIN RExpressionExtractor vResult
```



4.2.23 RFindFiles

The RFindFiles plugin is used to find and capture a list of file names which match a specified search criteria. The plugin can be launched silently or can display a dialog. The search results can be filtered by file extension and by characters in the file name, in addition to other search and display options. The RFindFiles plugin can also search the contents of files to limit the results even further, including a "smart scan" option for scanning generic text or by file type. The resulting file list is captured into a specified output file. The RFindFiles plugin does not appear in the R:BASE for Windows Plugins Menu. The plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGINS RFindFiles VarName|<parameters>
```

Where:

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

Parameters:

Parameter	Value	Description
CANCEL_BUTTON_CAPTION	value	Specifies the caption for the "Cancel" button
CASE_SENSITIVE	ON/OFF	Specifies if the criteria is case sensitive when using the SCAN_CONTENT file search
DONT_ADD_TO_RECENT	ON/OFF	Specifies if file selection is added to recently opened documents
ENABLE_SIZING	ON/OFF	Specifies if the size of the dialog window can be changed
FILE_MASK	file.mask	If specified, the search will be performed in silent mode to gather files matching the file mask (e.g. *bid*.pdf). If OPEN_DIALOG is ON, the FILE_MASK parameter is not recognized.
FILENAME	value	Filters the displayed results matching the file mask (e.g. *guide*.pdf). Masks (* and ?) in the FILENAME parameter can only be used when also using the OPEN_DIALOG ON parameter.
FILTER	value	Filters the results by file extension (e.g. Text Files (*.txt)*.txt)
FULLPATH	ON/OFF	Specifies if the full path for the selected file is returned with the file name
HIDE_READ_ONLY	ON/OFF	Specifies if the "Open as Read Only" check box is displayed
INITIAL_DIR	value	Specifies the initial directory when launched
MULTISELECT	ON/OFF	Specifies if multiple files can be selected
NO_CHANGE_DIR	ON/OFF	Specifies if the directory changes when the file is selected
NO_DEREFERENCE_LINKS	ON/OFF	Specifies if shortcut links are valid or are de-referenced
NO_LONG_NAMES	ON/OFF	Specifies if files not using the 8.3 naming convention are displayed. This is only supported with the OLD_STYLE parameter.
NO_NETWORK_BUTTON	ON/OFF	Specifies if the network button is displayed. This is only supported with the OLD_STYLE parameter.
NO_VALIDATE	ON/OFF	Specifies if validation for invalid characters is used
OK_BUTTON_CAPTION	value	Specifies the caption for the "OK" button
OLD_STYLE	ON/OFF	Specifies if the "old style" window is displayed
OPEN_DIALOG	ON/OFF	Specifies if the "Open" dialog is displayed to change the search location
OUTPUT_FILE	value	Specifies the file name to capture the search results
READ_ONLY	ON/OFF	Specifies to disable any method to modify contents of the file list, using keystrokes, mouse, or drag/drop events. The default is OFF.
SCAN_CONTENT	value	Specifies to search file file content with the defined text criteria. If the text was not found, it will be removed from the list.
SCAN_SUBFOLDERS	ON/OFF	Specifies if sub folders are scanned for the SELECT_FILES parameter. The default for SCAN_SUBFOLDERS is OFF.
SHOW_HIDDEN	ON/OFF	Specifies if hidden files can be seen
SHOW_PLACES_BAR	ON/OFF	Enables/Disables the places bar (the left sidebar of the open dialog), which contains shortcuts to local folders.
SMART_SCAN	ON OFF (Default)	Specifies the scan type when using the SCAN_CONTENT file search. When set to ON, the files will be opened by file type (based on file extension). When set to OFF the files will be scanned as generic binary files.

		The SMART_SCAN parameter is important when searching in documents. For example, in the case of searching .docx files, the results will not locate the search criteria by opening the file as a generic file (SMART_SCAN is OFF). Currently supported extensions for SMART_SCAN include DOC, DOCX, XLS, XLSX, PPT, PPTX, DBF, DB, WK1, WK2, WR1, WQ1, XLSX, XLSM, XLTX, XLTM, XLAX, XLAM, XLSB, XLTB, XLAB, and XLS.
SORT_DESCENDING	ON/OFF	Specifies the sort direction, when VIEW_MODE is set to DETAILS and SORT_FILES is defined
SORT_FILES	BY_NAME BY_SIZE BY_TYPE BY_MODIFIED	Specifies the sort method for the displayed files
STICK_TO_FOLDER	value	Specifies the dialog box will stick to the defined folder, without the ability to navigate to another folder. This parameter would be used in place of INITIAL_DIR.
STICKY_FOLDER_AS_BASE	ON/OFF	Specifies the STICK_TO_FOLDER value to be the "root folder", where users can drill down but not up
TITLE	value	Specifies the title caption
VIEW_MODE	THUMBNAILS TILES ICONS (Default) LIST DETAILS	Specifies the view mode for the dialog window
WHOLE_WORDS	ON/OFF	Specifies if the results will include whole word matches when using the SCAN_CONTENT file search

Notes:

- Each option must be separated by pipe "|" character.
- A value of '[Esc]' will be returned if the [Cancel] button or Close Window [x] button of the folder selection dialog is selected.

Examples:

Example 01 (Search with dialog):

```

PLUGINS RFindFiles vFileSearch +
| INITIAL_DIR C:\RBTI\ +
| FULLPATH ON +
| OPEN_DIALOG ON +
| VIEW_MODE LIST +
| OK_BUTTON_CAPTION Load +
| FILENAME *guide*.PDF +
| OUTPUT_FILE FileList.txt +
| FILTER PDF Files (*.pdf)#*.pdf

```

Example 02 (search in silent mode):

```

PLUGINS RFindFiles vFileSearch +
| FULLPATH ON +
| INITIAL_DIR C:\RBTI\ +
| FILE_MASK *guide*.pdf +
| OUTPUT_FILE FileList.txt

```

Example 03 (silent search with file content "smart scan"):

```

PLUGINS RFindFiles vFileSearch +
| INITIAL_DIR C:\Temp\ +
| FULLPATH ON +

```

```
|FILE_MASK *.XLS +
|OUTPUT_FILE FileList.txt +
|SCAN_SUBFOLDERS OFF +
|SCAN_CONTENT Vanguard +
|SMART_SCAN ON +
|WHOLE_WORDS ON +
|CASE_SENSITIVE OFF
```

4.2.24 RFontPicker

The RFontPicker plugin is a GUI utility to display and choose from the available fonts installed on a computer; allowing end users to choose custom fonts for their custom environment. The RFontPicker plugin does not appear in the R:BASE for Windows Plugins Menu. The RFontPicker plugin file is only included with the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RFontPicker vResult|Parameters
```

Where:

vResult is the text variable to return the status

Text Variable	Description
OK	No errors
[ESC]	User pressed [Esc] or Cancel button
-ERROR-	Displays exact error message, if error exists in parameters

Parameters:

Parameter	Value	Description
DEFAULT_FONT_NAME	Font Name	Use DEFAULT_FONT_NAME to specify the typeface of the font.
DEFAULT_FONT_SIZE	nnn	<p>Specifies the height of the font in points.</p> <p>Use Size to specify the point size of the font. If the value is negative, the internal leading that appears at the top of each line of text is included. If the value is positive, Size represents the height of the characters but not the internal leading.</p> <p>To determine the size of the font in pixels, use the Height property instead. The value of Size can be obtained from the height in pixels using this formula:</p> $\text{Font.Size} = -\text{Font.Height} * 72 / \text{Font.PixelsPerInch}$ <p>When the Size property has a positive value, the Height property has a negative value.</p> <p>When the Height property has a positive value, the Size property has a negative value.</p>
DEFAULT_FONT_HEIGHT	nnn	<p>Specifies the height of the font in pixels.</p> <p>Use Height to specify the height of the font in pixels. If the value is negative, the internal leading that appears at the top of each line of text is not measured. If the value is positive, Height represents the height of the characters plus the internal leading.</p> <p>To specify the size of the font in points, use the Size property instead. Users usually specify font size in</p>

		<p>points, while applications may be concerned with the actual size of the font in pixels when displaying the font on the screen. The value of Height can be obtained from the point size using this formula:</p> $\text{Font.Height} = -\text{Font.Size} * \text{Font.PixelsPerInch} / 72$ <p>When the Height property has a positive value, the Size property has a negative value. When the Size property has a positive value, the Height property has a negative value.</p>
DEFAULT_FONT_COLOR	Value	Specifies the color of the text
DEFAULT_FONT_BOLD	ON/OFF	Specifies if the font is boldfaced
DEFAULT_FONT_ITALIC	ON/OFF	Specifies if the font is italicized
DEFAULT_FONT_UNDERLINE	ON/OFF	Specifies if the font is underlined
DEFAULT_FONT_STRIKEOUT	ON/OFF	Specifies if the font is displayed with a horizontal line through it
MIN_FONT_SIZE	nnn	<p>Determines the smallest font size available in the Font dialog.</p> <p>Assign a value to MIN_FONT_SIZE to limit the font sizes available in the dialog. MIN_FONT_SIZE is inoperative unless the LIMIT_SIZE flag is set ON.</p>
MAX_FONT_SIZE	nnn	<p>Determines the largest font size available in the Font dialog.</p> <p>Assign a value to MAX_FONT_SIZE to limit the font sizes available in the dialog. MAX_FONT_SIZE is inoperative unless the LIMIT_SIZE flag is set ON.</p>
DEVICE	Value	<p>Specifies the device from which to retrieve the list of available fonts.</p> <p>These are the possible values of DEVICE:</p> <p>SCREEN - Retrieve from the screen. PRINTER - Retrieve from the printer. BOTH - Retrieve from both the screen and the printer.</p>
ANSI_ONLY	ON/OFF	Displays only fonts that use the Windows character set. Symbol fonts are not listed in the dialog.
EFFECTS	ON/OFF	Displays the Effects check boxes (Strikeout and Underline) and the Color list box in the dialog.
FIXED_PITCH_ONLY	ON/OFF	Displays only monospaced fonts in the dialog. Proportionally spaced fonts are not listed, nor are TrueType fonts that do not have the fixed-pitch flag set in the style header.
FORCE_FONT_EXIST	ON/OFF	Allows the user to enter only fonts that are displayed in the dialog (that is, listed in the Font combo box). If the user tries to enter another font name, an error message appears.
LIMIT_SIZE	ON/OFF	Enables the MAX_FONT_SIZE and MIN_FONT_SIZE properties, limiting the range of font sizes that appear in the dialog if these properties have values.
NO_FACE_SEL	ON/OFF	Causes the dialog to open without a preselected font name in the Font combo box.
NO_OEM_FONTS	ON/OFF	Removes OEM fonts from the dialog's combo box. Lists only non-OEM fonts.
SCALABLE_ONLY	ON/OFF	Displays only scalable fonts in the dialog. Non-scalable (bitmap) fonts are removed from the list.
NO_SIMULATIONS	ON/OFF	Displays only fonts and font styles that are directly supported by the font definition file. GDI-synthesized bold and italic styles (for bitmap fonts) are not listed.

NO_SIZE_SEL	ON/OFF	Causes the dialog to open without a preselected size in the Size combo box.
NO_STYLE_SEL	ON/OFF	Causes the dialog to open without a preselected style in the Font Style combo box.
NO_VECTOR_FONTS	ON/OFF	Removes vector fonts from the dialog's combo box; lists only non-vector fonts. (Vector fonts are Windows 1.0 fonts, such as Roman or Script, which resemble pen-plotter output.)
SHOW_HELP	ON/OFF	Displays a Help button in the dialog.
TRUE_TYPE_ONLY	ON/OFF	Displays only TrueType fonts in the dialog. Other fonts are not listed.
WYSIWYG	ON/OFF	Displays only fonts that are available to both the printer and the screen. Device-specific fonts are not listed in the dialog. By default only EFFECTS is ON

Returned Variables:

Variable Name	Description
vRFPFontName	Returns the font name
vRFPFontSize	Returns the font size
vRFPFontHeight	Returns the font height
vRFPFontColor	Returns the font color
vRFPFontBold	Returns the font bold style (ON/OFF)
vRFPFontItalic	Returns the font italic style (ON/OFF)
vRFPFontStrikeout	Returns the font strikeout style (ON/OFF)
vRFPFontUnderline	Returns the font underline style (ON/OFF)

Examples:

```

PLUGIN RFontPicker v1 +
|DEFAULT_FONT_NAME Arial +
|DEFAULT_FONT_COLOR Yellow +
|DEFAULT_FONT_BOLD ON

```

```

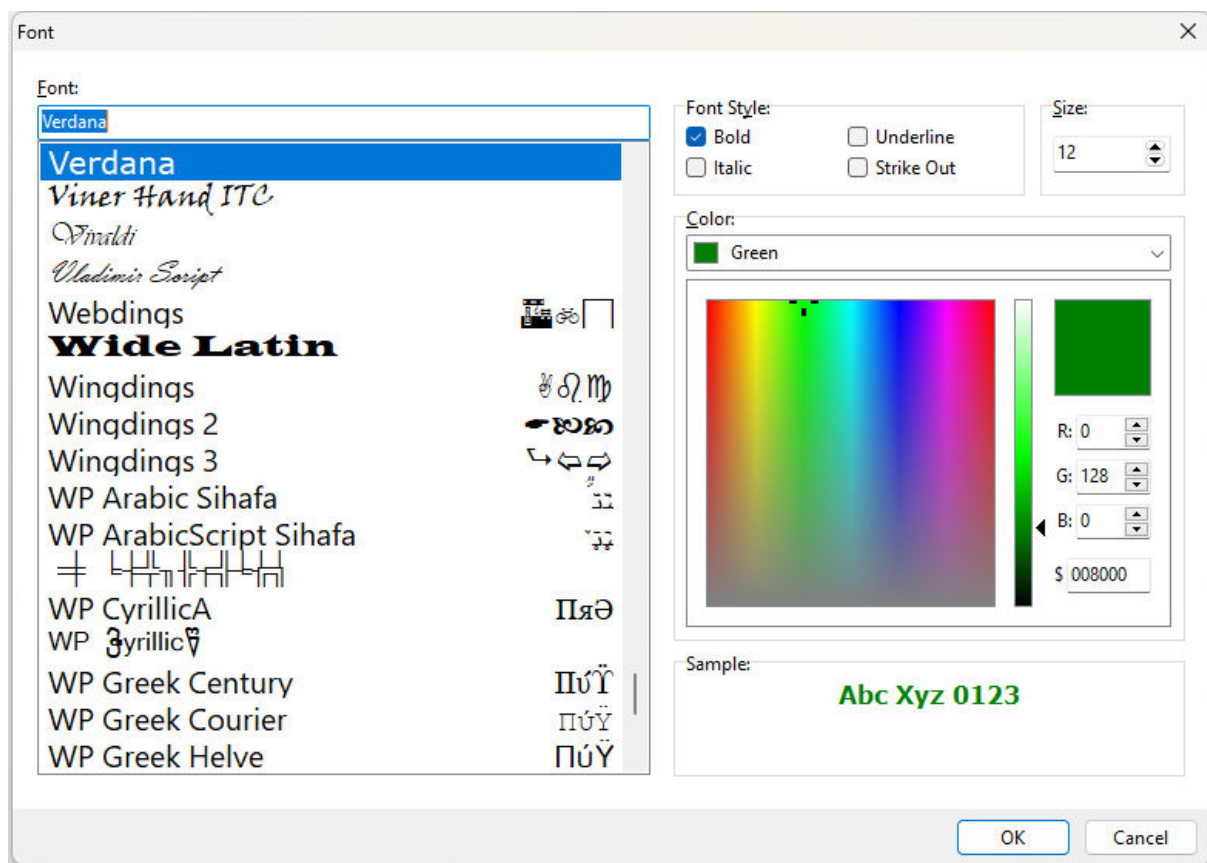
PLUGIN RFontPicker v1 +
|DEFAULT_FONT_NAME Tohoma +
|DEFAULT_FONT_COLOR Blue +
|DEFAULT_FONT_BOLD OFF +
|DEFAULT_FONT_SIZE 10 +
|MIN_FONT_SIZE 5 +
|MAX_FONT_SIZE 15

```

```

PLUGIN RFontPicker v1 +
|DEFAULT_FONT_NAME Verdana +
|DEFAULT_FONT_COLOR Green +
|DEFAULT_FONT_BOLD ON +
|DEFAULT_FONT_SIZE 12 +
|EFFECTS OFF +
|SHOW_HELP OFF +
|TRUE_TYPE_ONLY ON

```



4.2.25 RHTMLToRTF

The RHTMLToRTF plugin converts HTML data to bare RTF. The HTML input type for the conversion includes either a variable or a file value. The output type for the conversion includes a variable or a file value. The plugin does not appear in the R:BASE for Windows Plugins Menu. The RHTMLToRTF plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RHTMLToRTF vResult|parameters
```

Parameters:

Parameter	Value	Description
INPUT_TYPE	VARIABLE FILE	Specifies the HTML input type. A HTML variable or file name is supported.
INPUT_VARIABLE	value	Specifies the input HTML data variable name
INPUT_FILE	value	Specifies the input HTML file name
OUTPUT_TYPE	VARIABLE FILE	Specifies the RTF output type. A text variable or file name is supported.
OUTPUT_VARIABLE	value	Specifies the output RTF variable name
OUTPUT_DATA_TYPE	value	Specifies the output variable type: TEXT, NOTE, or VARCHAR
OUTPUT_FILE	value	Specifies the output RTF file name
BOM	ON OFF (Default)	Adds the byte order mark (BOM) Unicode character, used to signal the byte order of a text file. When the target type is VARCHAR/NOTE/TEXT, if the output is all lower ANSI then no UTF8 BOM will be added when "BOM

		ON". For BSTR/WIDENOTE/WIDETEXT target types, a UTF-16 LE BOM will always be added when "BOM ON".
--	--	---

There are four different scenarios where the RHTMLToRTF can be used:

1. When the Input/Output Data is a VARIABLE
2. When the Input/Output Data is an external FILE
3. When the Input is a VARIABLE and Output is an external FILE
4. When the Input is a an external FILE and Output is a VARIABLE

Syntax for each Scenario

1. When Input/Output Data is a VARIABLE

```

PLUGIN RHTMLToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input HTML data as variable
- OUTPUT_VARIABLE outputvalue is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

2. When Input/Output Data is an external FILE

```

PLUGIN RHTMLToRTF vResult +
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.html +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfile.rtf

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.html is the input HTML file name
- OUTPUT_FILE outputfilename.rtf is the resulting output file with converted data

3. When Input is a VARIABLE and Output is an external FILE

```

PLUGIN RHTMLToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfilename.rtf

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input HTML data as variable
- OUTPUT_FILE outputfilename.rtf is the resulting output file with converted data

4. When Input is a an external FILE and Output is a VARIABLE

```

PLUGIN RHTMLtoRTF vResult +
|INPUT_TYPE FILE +
|INPUT_FILE inputfilename.html +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE outputvarname +
|OUTPUT_DATA_TYPE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.html is the input HTML file name
- OUTPUT_VARIABLE outputvarname is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

Examples:

```

IF (CVAL('DATABASE')) <> 'HTMLtoRTF' OR (CVAL('DATABASE')) IS NULL THEN
    CONNECT HTMLtoRTF IDENTIFIED BY NONE
ENDIF

```

```

LABEL Start
CLS
CLEAR VARIABLES iv%,vRecordID,vHTMLData,vTextData,vNoteData, +
vVarCharData,vResult
SET VARIABLE vRecordID INTEGER = 2
SET VARIABLE vHTMLData VARCHAR = NULL
SET VARIABLE vTextData TEXT = NULL
SET VARIABLE vNoteData NOTE = NULL
SET VARIABLE vVarCharData VARCHAR = NULL
SET VARIABLE vResult TEXT = NULL

```

```

SELECT RecordID,HTMLData INTO +
vRecordID INDICATOR ivRecordID, +
vHTMLData INDICATOR ivHTMLData +
FROM HTMLData WHERE RecordID = .vRecordID

```

```

-- Converting HTML Data to TEXT
PLUGIN RHTMLtoRTF vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vTextData +
|OUTPUT_DATA_TYPE TEXT
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO TextData VALUES (.vRecordID,.vTextData)
ENDIF

```

```

-- Converting HTML Data to NOTE
PLUGIN RHTMLtoRTF vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vNoteData +
|OUTPUT_DATA_TYPE NOTE

```

```

IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO NoteData VALUES (.vRecordID,.vNoteData)
ENDIF

-- Converting HTML Data to VARCHAR
PLUGIN RHTMLtoRTF vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vVarCharData +
|OUTPUT_DATA_TYPE VARCHAR
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO VarCharData VALUES (.vRecordID,.vVarCharData)
ENDIF

LABEL Done
CLEAR VARIABLES iv%,vRecordID,vHTMLData,vTextData,vNoteData, +
vVarCharData,vResult
RETURN

```

4.2.26 RHTMLToTxt

The RHTMLToTxt plugin converts HTML data to plain text format. The HTML input type for the conversion includes either a variable or a file value. The text output type for the conversion also includes a variable or a file value. The plugin does not appear in the R:BASE for Windows Plugins Menu. The RHTMLToTxt plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RHTMLToTxt vResult|parameters
```

Parameters:

Parameter	Value	Description
INPUT_TYPE	VARIABLE FILE	Specifies the HTML input type. A HTML variable or file name is supported.
INPUT_VARIABLE	value	Specifies the input HTML data variable name
INPUT_FILE	value	Specifies the input HTML file name
OUTPUT_TYPE	VARIABLE FILE	Specifies the text output type. A text variable or file name is supported.
OUTPUT_VARIABLE	value	Specifies the output text variable name
OUTPUT_DATA_TYPE	value	Specifies the output variable type: TEXT, NOTE, or VARCHAR
OUTPUT_FILE	value	Specifies the output text file name
BOM	ON OFF (Default)	Adds the byte order mark (BOM) Unicode character, used to signal the byte order of a text file. When the target type is VARCHAR/NOTE/TEXT, if the output is all lower ANSI then no UTF8 BOM will be added when "BOM ON". For BSTR/WIDENOTE/WIDETEXT target types, a UTF-16 LE BOM will always be added when "BOM ON".

There are four different scenarios where the RHTMLToTxt can be used:

1. When the Input/Output Data is a VARIABLE
2. When the Input/Output Data is an external FILE

3. When the Input is a VARIABLE and Output is an external FILE
4. When the Input is a an external FILE and Output is a VARIABLE

Syntax for each Scenario

1. When Input/Output Data is a VARIABLE

```
PLUGIN RHTMLToTxt vResult +  
|INPUT_TYPE VARIABLE +  
|INPUT_VARIABLE inputvarname +  
|OUTPUT_TYPE VARIABLE +  
|OUTPUT_VARIABLE outputvarname +  
|OUTPUT_DATA_TYPE value
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input HTML data as variable
- OUTPUT_VARIABLE outputvalue is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

2. When Input/Output Data is an external FILE

```
PLUGIN RHTMLToTxt vResult +  
|INPUT_TYPE FILE +  
|INPUT_FILE inputfilename.html +  
|OUTPUT_TYPE FILE +  
|OUTPUT_FILE outputfile.txt
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.html is the input HTML file name
- OUTPUT_FILE outputfilename.txt is the resulting output file with converted data

3. When Input is a VARIABLE and Output is an external FILE

```
PLUGIN RHTMLToTxt vResult +  
|INPUT_TYPE VARIABLE +  
|INPUT_VARIABLE inputvarname +  
|OUTPUT_TYPE FILE +  
|OUTPUT_FILE outputfilename.txt
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input HTML data as variable
- OUTPUT_FILE outputfilename.txt is the resulting output file with converted data

4. When Input is a an external FILE and Output is a VARIABLE

```
PLUGIN RHTMLToTxt vResult +  
|INPUT_TYPE FILE +  
|INPUT_FILE inputfilename.html +  
|OUTPUT_TYPE VARIABLE +  
|OUTPUT_VARIABLE outputvarname +
```

|OUTPUT_DATA_TYPE value

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.html is the input HTML file name
- OUTPUT_VARIABLE outputvarname is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

Examples:

```
IF (CVAL('DATABASE')) <> 'HTMLtoTXT' OR (CVAL('DATABASE')) IS NULL THEN
  CONNECT HTMLtoTXT IDENTIFIED BY NONE
ENDIF
```

```
LABEL Start
CLS
CLEAR VARIABLES iv%,vRecordID,vHTMLData,vTextData,vNoteData, +
vVarCharData,vResult
SET VARIABLE vRecordID INTEGER = 2
SET VARIABLE vHTMLData VARCHAR = NULL
SET VARIABLE vTextData TEXT = NULL
SET VARIABLE vNoteData NOTE = NULL
SET VARIABLE vVarCharData VARCHAR = NULL
SET VARIABLE vResult TEXT = NULL
```

```
SELECT RecordID,HTMLData INTO +
vRecordID INDICATOR ivRecordID, +
vHTMLData INDICATOR ivHTMLData +
FROM HTMLData WHERE RecordID = .vRecordID
```

```
-- Converting HTML Data to TEXT
PLUGIN RHTMLToTxt vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vTextData +
|OUTPUT_DATA_TYPE TEXT
IF vResult <> 'OK' THEN
  PAUSE 2 USING .vResult ICON ERROR
ELSE
  INSERT INTO TextData VALUES (.vRecordID,.vTextData)
ENDIF
```

```
-- Converting HTML Data to NOTE
PLUGIN RHTMLToTxt vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vNoteData +
|OUTPUT_DATA_TYPE NOTE
IF vResult <> 'OK' THEN
  PAUSE 2 USING .vResult ICON ERROR
ELSE
  INSERT INTO NoteData VALUES (.vRecordID,.vNoteData)
ENDIF
```

```
-- Converting HTML Data to VARCHAR
PLUGIN RHTMLToTxt vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vHTMLData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vVarCharData +
|OUTPUT_DATA_TYPE VARCHAR
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO VarCharData VALUES (.vRecordID,.vVarCharData)
ENDIF

LABEL Done
CLEAR VARIABLES iv%,vRecordID,vHTMLData,vTextData,vNoteData, +
vVarCharData,vResult
RETURN
```

4.2.27 RID3Tag

The RID3Tag plugin is used to obtain MP3 file information. It does not appear in the R:BASE for Windows Plugins Menu. The RID3Tag plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RID3Tag varName|FILE_NAME filename|INFO_TYPE value
```

Parameters:

Parameter	Value	Description
FILE_NAME	value	Specifies the mp3 file name
INFO_TYPE	TITLE ARTIST ALBUM YEAR COMMENT GENRE	Specifies the file information to obtain

Examples:

```
PLUGIN RID3Tag vTitle|FILE_NAME 01.MP3|INFO_TYPE TITLE
PLUGIN RID3Tag vArtist|FILE_NAME 01.MP3|INFO_TYPE ARTIST
PLUGIN RID3Tag vAlbum|FILE_NAME 01.MP3|INFO_TYPE ALBUM
PLUGIN RID3Tag vYear|FILE_NAME 01.MP3|INFO_TYPE YEAR
PLUGIN RID3Tag vComment|FILE_NAME 01.MP3|INFO_TYPE COMMENT
PLUGIN RID3Tag vGenre|FILE_NAME 01.MP3|INFO_TYPE GENRE
```

4.2.28 RInstanceCount

The RInstanceCount plugin is used to return the number of running sessions for a given executable file. The plugin supports both 32-bit and 64-bit file architectures. The file name for the session may or may not be preceded with the file path. RInstanceCount is a custom propriety plugin and is not included with the purchase of R:BASE. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN RInstanceCount vResult|FileName.exe
```

Where:

vResult is the variable to return the integer value

FileName.exe is the name and extension of the file. The file name may or may not be preceded with the file path. For paths containing spaces, the result variable and file name and path should be enclosed in single quotes.

Notes:

Returned variable name and the value must be separated by a "|" pipe character.

Example:

Example 01:

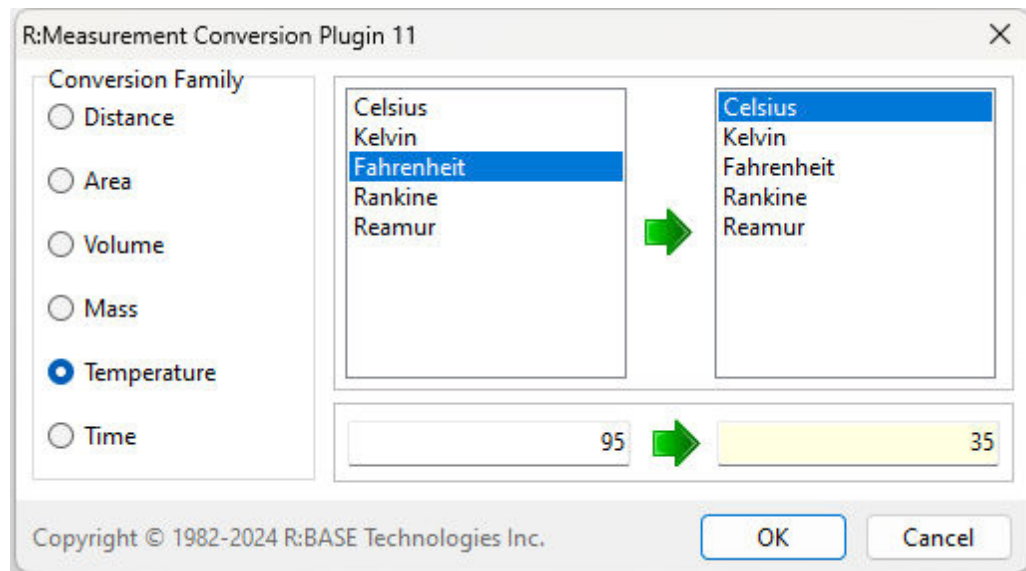
```
--Returns the total sessions of R:BASE 11
PLUGIN RInstanceCount vRBGSessions|RBG11.EXE
```

Example 02:

```
Returns the total sessions of a custom MyProgram.exe program
PLUGIN RInstanceCount 'vSessions|C:\Program Files (x86)\BAMSolutions\MyProgram.exe'
```

4.2.29 RMeasurementConversion

The RMeasurementConversion plugin is a measurement conversion utility to convert any value of measurement to another within a type of scale. It appears in the R:BASE for Windows Menu Bar under "Utilities" > "Plugins". The RMeasurementConversion plugin is available in the R:BASE Plugin Power Pack.



4.2.30 RPDFDocInfo

The RPDFDocInfo plugin is used to return document information of a PDF document. Six variables are return to provide the PDF document's title, subject, author, keywords, creator, and producer. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN RPDFDocInfo vResult|FileName.ext
```

Where:

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

FileName.ext is the actual name and extension of the file, preceding with the full path

Notes:

Returned variable name and the value must be separated by a "|" pipe character.

Example:

```

PLUGIN RPDFDocInfo vResult|ProgrammingInRBASE.pdf

PDF_TITLE           = Programming In R:BASE
PDF_SUBJECT          = Programming In R:BASE
PDF_AUTHOR           = Technical Services Division of R:BASE Technologies, Inc.

PDF_KEYWORDS         = R:BASE, RBASE, Programming
PDF_CREATOR          = R:PDF Works
PDF_PRODUCER         = R:PDF Works
PDF_VERSION          = 1.4                                DOUBLE
PDF_PAGE_COUNT       = 94                                INTEGER
vPDFResult           = OK                                TEXT

```

4.2.31 RRegistry

The RRegistry plugin allows access to the operating system registry from within R:BASE. The plugin allows the ability to read, write, check, and delete keys within the registry. The RRegistry plugin will only read and write "string" and "binary" registry values. It does not appear in the R:BASE for Windows Plugins Menu.

The RRegistry plugin allows you to store company, user, or custom application information in the registry. This helps you change forms and reports on the fly, as well as maintain application security settings.

Syntax:

```

PLUGIN RRegistry VarName|Parameter|RootKey|Key|ValueName|Valuedata

```

Where:

VarName is the text variable to return the status, the resulting value data, or an -ERROR-

RootKey is the "HKEY" starting value. These are the available root keys:

```

HKCR = HKEY_CLASSES_ROOT
HKCU = HKEY_CURRENT_USER
HKLM = HKEY_LOCAL_MACHINE
HKUS = HKEY_USERS
HKPD = HKEY_PERFORMANCE_DATA
HKCC = HKEY_CURRENT_CONFIG
HKDD = HKEY_DYN_DATA

```

Key is the complete key path

ValueName is the name of the registry string value or integer value

ValueData is the data stored for the of the registry string value or integer value

Parameters:

Parameter	Description	Successful Value	Unsuccessful Value
CREATE_KEY	Creates a key	CREATED	-ERROR-
DELETE_KEY	Deletes a key	DELETED	-ERROR-
CHECK_KEY	Checks the existence of a key	TRUE	FALSE
CHECK_VALUE	Checks the value of a key	TRUE	FALSE
DELETE_VALUE	Deletes the value of a key	DELETED	-ERROR-
WRITE_INT_VALUE	Writes a binary value to the registry	WRITTEN	-ERROR-
READ_INT_VALUE	Reads the binary value of the registry	value data	-ERROR-
WRITE_STR_VALUE	Writes a string value to the registry	WRITTEN	-ERROR-
READ_STR_VALUE	Reads the string value of the registry	value data	-ERROR-

Notes:

- Each parameter must be separated by a pipe | character.
- Permissions to the registry must be granted, otherwise the -ERROR- message will be generated into the VarName variable

Examples:

```
--check if a key exists
PLUGIN RRegistry vKeyExists|CHECK_KEY|HKCU +
|\Software\MyCompany\MyProduct

--creates the key
IF (.vKeyExists = '-ERROR-') OR (.vKeyExists = 'FALSE') THEN
  PLUGIN RRegistry vKeyExists|CREATE_KEY|HKCU +
  |\Software\MyCompany\MyProduct
ENDIF

--reads string values
IF (.vKeyExists <> '-ERROR-') AND (.vKeyExists <> 'FALSE') THEN
  PLUGIN RRegistry vValueExists|CHECK_VALUE|HKCU +
  |\Software\MyCompany\MyProduct|ButtonColor
  IF (.vValueExists <> '-ERROR-') AND (.vValueExists <> 'FALSE') THEN
    PLUGIN RRegistry vButtonColor|READ_STR_VALUE|HKCU +
    |\Software\MyCompany\MyProduct|ButtonColor
    PLUGIN RRegistry vLabelColor|READ_STR_VALUE|HKCU +
    |\Software\MyCompany\MyProduct|LabelColor
  ENDIF
ENDIF

--writes string values
SET VAR vButtonColor TEXT = 'BLUE'
SET VAR vLabelColor TEXT = 'RED'
SET VAR vTempValue TEXT = +
('PLUGIN RRegistry vKeyExists|WRITE_STR_VALUE|HKCU +
|\Software\MyCompany\MyProduct\|Label Color|' + .vLabelColor)
&vTempValue
SET VAR vTempValue TEXT = +
('PLUGIN RRegistry vKeyExists|WRITE_STR_VALUE|HKCU +
|\Software\MyCompany\MyProduct\|Button Color|' + .vButtonColor)
&vTempValue
CLEAR VAR vTempValue
```

4.2.32 RRowSize

The RRowSize plugin is used to capture the row size for a given table in a defined database. This plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN RRowSize 'vResult|parameters'
```

Where:

vResult is the text variable to return the status, the resulting value data, or an -ERROR-

Parameters:

Parameter	Description
DB_NAME	Specifies the database to connect. If this parameter is not specified, then plugin will work with connected database. Either the complete .RB1/.RX1 structure file name or the database name can be specified for this value.
TABLE_NAME	Specifies the table name to return the rows size

Note:

If plugin finishes with no errors, then resulting variable value will contain the row size in **BYTES**. Otherwise, the resulting variable will contain the appropriate -ERROR- message text.

Examples:

--To obtain the row size for the Customer table in the database:

```
PLUGIN RRowSize 'v1|DB_NAME F:\RRBYW20\RRBYW20|TABLE_NAME Customer'
```

--To obtain the row size for the Customer table in the currently connected database:

```
PLUGIN RRowSize 'v1|TABLE_NAME Customer'
```

Sample Command File:

```
-- RRowSize.RMD to find the row size for a given table name
IF (CVAL('DATABASE')) <> 'RRBYW20' OR (CVAL('DATABASE')) IS NULL THEN
    CONNECT RRBYW20 IDENTIFIED BY NONE
ENDIF

LABEL Start
CLEAR VAR vCustIDTxt,vCustID,vLines,vRows,vCaption,vYesNo,vEndKey,iv%
SET VAR vCustIDTxt TEXT = NULL
SET VAR vCustID INTEGER = NULL
SET VAR vLines INTEGER = 0
SET VAR vRows INTEGER = 0
SET VAR vYesNo TEXT = 'No'
SET VAR vCaption TEXT = ' Select Table or View Name'
CLS
CHOOSE vTableViewName FOR #TBLVIEWS +
CHKBOX 1 +
TITLE 'Select table or view and then click on [OK] button to continue' +
CAPTION .vCaption LINES 19 FORMATTED +
OPTION LIST_FONT_COLOR MAROON +
|TITLE_FONT_COLOR MAROON +
|TITLE_BACK_COLOR [R234,G234,B234] +
|WINDOW_BACK_COLOR [R234,G234,B234] +
|TITLE_FONT_SIZE 10 +
|TITLE_FONT_NAME VERDANA +
|LIST_BACK_COLOR [R234,G234,B234] +
```

```

|BUTTONS_SHOW_GLYPH ON +
|THEMENAME R:BASE Rocks!
IF vTableName = '[Esc]' THEN
    GOTO Done
ENDIF
IF vTableName IS NULL THEN
    PAUSE 2 USING 'Table or View NOT Selected!' +
    CAPTION .vCaption ICON STOP +
    BUTTON 'Click here to select table or view ...' +
    OPTION BACK_COLOR WHITE +
    |MESSAGE_COLOR WHITE +
    |MESSAGE_FONT_NAME Verdana +
    |MESSAGE_FONT_COLOR RED +
    |MESSAGE_FONT_SIZE 10 +
    |MESSAGE_FONT_BOLD ON +
    |MESSAGE_FONT_ITALIC OFF +
    |MESSAGE_FONT_STRIKEOUT OFF +
    |BUTTON_COLOR WHITE +
    |BUTTON_FONT_COLOR GREEN +
    |THEMENAME R:BASE Rocks!
    GOTO Start
ENDIF

SET VAR vString = ('v1|TABLE_NAME'&.vTableName)

PLUGIN RRowSize &vString

PAUSE 2 USING .v1

GOTO Start

LABEL Done
CLEAR VAR vTableName,vLines,vRows,vCaption,vYesNo,vEndKey,iv%
RETURN

```

4.2.33 RRtfToTxt

The RRtfToTxt plugin converts RTF data to plain text format. The RTF input type for the conversion includes either a variable or a file value. The text output type for the conversion also includes a variable or a file value. The plugin does not appear in the R:BASE for Windows Plugins Menu. The RRtfToTxt plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RRtfToTxt vResult|parameters
```

Parameters:

Parameter	Value	Description
INPUT_TYPE	VARIABLE FILE	Specifies the RTF input type. A RTF variable or file name is supported.
INPUT_VARIABLE	value	Specifies the input RTF data variable name
INPUT_FILE	value	Specifies the input RTF file name
OUTPUT_TYPE	VARIABLE FILE	Specifies the text output type. A text variable or file name is supported.
OUTPUT_VARIABLE	value	Specifies the output variable name
OUTPUT_DATA_TYPE	value	Specifies the output variable type: TEXT, NOTE, or VARCHAR

STRIP_TRAILING_LINE_BREAK	ON OFF (Default)	Specifies if the trailing carriage return and line feed (CRLF) will be removed
OUTPUT_FILE	value	Specifies the output text file name
BOM	ON OFF (Default)	Adds the byte order mark (BOM) Unicode character, used to signal the byte order of a text file. When the target type is VARCHAR/NOTE/TEXT, if the output is all lower ANSI then no UTF8 BOM will be added when "BOM ON". For BSTR/WIDENOTE/WIDETEXT target types, a UTF-16 LE BOM will always be added when "BOM ON".

There are four different scenarios where the RRTfToTxt can be used:

1. When the Input/Output Data is a VARIABLE
2. When the Input/Output Data is an external FILE
3. When the Input is a VARIABLE and Output is an external FILE
4. When the Input is a an external FILE and Output is a VARIABLE

Syntax for each Scenario

1. When Input/Output Data is a VARIABLE

```

PLUGIN RRTFtoTXT vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input RTF data as variable
- OUTPUT_VARIABLE outputvalue is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

2. When Input/Output Data is an external FILE

```

PLUGIN RRTFtoTXT vResult +
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.rtf +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfile.txt

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.rtf is the input RTF file name
- OUTPUT_FILE outputfilename.txt is the resulting output file with converted data

3. When Input is a VARIABLE and Output is an external FILE

```

PLUGIN RRTFtoTXT vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfilename.txt

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input RTF data as variable
- OUTPUT_FILE outputfilename.txt is the resulting output file with converted data

4. When Input is a an external FILE and Output is a VARIABLE

```

PLUGIN RRTFtoTXT vResult +
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.rtf +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.rtf is the input RTF file name
- OUTPUT_VARIABLE outputvarname is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

Examples:

```

IF (CVAL('DATABASE')) <> 'RTFtoTXT' OR (CVAL('DATABASE')) IS NULL THEN
    CONNECT RTFtoTXT IDENTIFIED BY NONE
ENDIF

```

```

LABEL Start
CLS
CLEAR VARIABLES iv%,vRecordID,vRTFData,vTextData,vNoteData, +
vVarCharData,vResult
SET VARIABLE vRecordID INTEGER = 2
SET VARIABLE vRTFData VARCHAR = NULL
SET VARIABLE vTextData TEXT = NULL
SET VARIABLE vNoteData NOTE = NULL
SET VARIABLE vVarCharData VARCHAR = NULL
SET VARIABLE vResult TEXT = NULL

```

```

SELECT RecordID,RTFData INTO +
vRecordID INDICATOR ivRecordID, +
vRTFData INDICATOR ivRTFData +
FROM RTFData WHERE RecordID = .vRecordID

```

```

-- Converting RTF Data to TEXT
PLUGIN RRTFtoTXT vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE vRTFData +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE vTextData +
| OUTPUT_DATA_TYPE TEXT
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO TextData VALUES (.vRecordID,.vTextData)
ENDIF

```

```
-- Converting RTF Data to NOTE
PLUGIN RRTFtoTXT vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vRTFData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vNoteData +
|OUTPUT_DATA_TYPE NOTE
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO NoteData VALUES (.vRecordID,.vNoteData)
ENDIF

-- Converting RTF Data to VARCHAR
PLUGIN RRTFtoTXT vResult +
|INPUT_TYPE VARIABLE +
|INPUT_VARIABLE vRTFData +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE vVarCharData +
|OUTPUT_DATA_TYPE VARCHAR
IF vResult <> 'OK' THEN
    PAUSE 2 USING .vResult ICON ERROR
ELSE
    INSERT INTO VarCharData VALUES (.vRecordID,.vVarCharData)
ENDIF

LABEL Done
CLEAR VARIABLES iv%,vRecordID,vRTFData,vTextData,vNoteData, +
vVarCharData,vResult
RETURN
```

4.2.34 RSearchAndReplace

The RSearchAndReplace plugin is used to search and replace characters within a specified file. It can be used to search on entire words or phrases. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN RSearchAndReplace 'vResult|<parameters>'
|FILE_NAME value+
|OLD_PATTERN value+
|NEW_PATTERN value+
|REPLACE_ALL value+
|IGNORE_CASE value+
|WHOLE_WORD value'
```

Where:

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

Parameters:

Parameter	Value	Description
FILE_NAME	file name	Specifies the name of the file
OLD_PATERN	value	Specifies the sequence of characters to be replaced
NEW_PATTERN	value	Specifies the new sequence of characters

REPLACE_ALL	ON OFF	Specifies to replace all occurrences (ON) or only the first occurrence (OFF). The default is ON.
IGNORE_CASE	ON OFF	Specifies to ignore or recognize case sensitivity. The default is ON.
WHOLE_WORD	ON OFF	Specifies to replace whole words in a file (ON) or to replace all combinations of the NEW_PATTERN value. The default is OFF.

Notes:

- Returned variable name and the parameter values must be separated by a "|" pipe character.
- In order for the RSearchAndReplace plugin to function as a whole, it is highly recommended that your application follow the syntax example below, by forming the parameters into a variable, and then using the ampersand "&" to launch the command.

Example:

```
--Example how to change the ~ to the p
CLEAR ALL VAR
SET VAR vQuote = (CVAL('QUOTES'))
SET VAR vChar TEXT = (CHAR(0254))
SET VAR vCommand TEXT = ('PLUGIN rsearchandreplace ' + .vQuote + 'v1|'+
FILE_NAME rx060106.txt|OLD_PATTERN ~|NEW_PATTERN ' + .vChar + '|'+
REPLACE_ALL ON|IGNORE_CASE ON|WHOLE_WORD OFF' + .vQuote)
&vCommand
RETURN
```

4.2.35 RTextToRTF

The RTextToRTF plugin converts plain text to bare RTF. The text input type for the conversion includes either a variable or a file value. The text output type for the conversion also includes a variable or a file value. The plugin does not appear in the R:BASE for Windows Plugins Menu. The RTextToRTF plugin is only made available through the purchase of the R:BASE Plugin Power Pack.

Syntax:

```
PLUGIN RTextToRTF vResult|parameters
```

Parameters:

Parameter	Value	Description
INPUT_TYPE	VARIABLE FILE	Specifies the text input type. A text variable or file name is supported.
INPUT_VARIABLE	value	Specifies the input text data variable name
INPUT_FILE	value	Specifies the input text file name
OUTPUT_TYPE	VARIABLE FILE	Specifies the RTF output type. An RTF variable or file name is supported.
OUTPUT_VARIABLE	value	Specifies the output RTF variable name
OUTPUT_DATA_TYPE	value	Specifies the output variable type: TEXT, NOTE, or VARCHAR
OUTPUT_FILE	value	Specifies the output RTF file name
BOM	ON OFF (Default)	Adds the byte order mark (BOM) Unicode character, used to signal the byte order of a text file. When the target type is VARCHAR/NOTE/TEXT, if the output is all lower ANSI then no UTF8 BOM will be added when "BOM ON". For BSTR/WIDENOTE/WIDETEXT target types, a UTF-16 LE BOM will always be added when "BOM ON".
FONT_NAME	value	Specifies the font name for the RTF output
FONT_SIZE	value	Specifies the font size for the RTF output

Notes:

- Returned variable name and the parameter values must be separated by a "|" pipe character.
- The FONT_NAME and FONT_SIZE parameters are required for the rich text output.
- There are four different scenarios where the RTextToRTF can be used:
 1. When the Input/Output Data is a VARIABLE
 2. When the Input/Output Data is an external FILE
 3. When the Input is a VARIABLE and Output is an external FILE
 4. When the Input is a an external FILE and Output is a VARIABLE

Syntax for each Scenario

1. When Input/Output Data is a VARIABLE

```

PLUGIN RTextToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE VARIABLE +
| OUTPUT_VARIABLE outputvarname +
| OUTPUT_DATA_TYPE value +
| FONT_NAME value +
| FONT_SIZE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input data as variable (TEXT, NOTE, or VARCHAR)
- OUTPUT_VARIABLE outputvalue is the resulting output variable name with converted data
- OUTPUT_DATA_TYPE value is the RTF data type

2. When Input/Output Data is an external FILE

```

PLUGIN RTextToRTF vResult +
| INPUT_TYPE FILE +
| INPUT_FILE inputfilename.txt +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfile.rtf +
| FONT_NAME value +
| FONT_SIZE value

```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.txt is the input text file name
- OUTPUT_FILE outputfilename.rtf is the resulting output RTF file with converted data
- FONT_NAME value is the font type in the resulting output RTF file
- FONT_SIZE value is the font size in the resulting output RTF file

3. When Input is a VARIABLE and Output is an external FILE

```

PLUGIN RTextToRTF vResult +
| INPUT_TYPE VARIABLE +
| INPUT_VARIABLE inputvarname +
| OUTPUT_TYPE FILE +
| OUTPUT_FILE outputfilename.rtf +
| FONT_NAME value +

```

```
|FONT_SIZE value
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_VARIABLE inputvarname is the input text data as variable
- OUTPUT_FILE outputfilename.rtf is the resulting output RTF file with converted data
- FONT_NAME value is the font type in the resulting output RTF file
- FONT_SIZE value is the font size in the resulting output RTF file

4. When Input is a an external FILE and Output is a VARIABLE

```
PLUGIN RTextToRTF vResult +
|INPUT_TYPE FILE +
|INPUT_FILE inputfilename.txt +
|OUTPUT_TYPE VARIABLE +
|OUTPUT_VARIABLE outputvarname +
|OUTPUT_DATA_TYPE value +
|FONT_NAME value +
|FONT_SIZE value
```

Where:

- vResult is the resulting message value, such as, "OK" or the actual "-ERROR- message".
- INPUT_FILE inputfilename.txt is the input text file name
- OUTPUT_VARIABLE outputvarname is the resulting output variable name with converted RTF data
- OUTPUT_DATA_TYPE value is the data type (TEXT, NOTE, or VARCHAR)

Examples:

```
-- Example 01
-- Using variables for input and output of data
  PLUGIN RTextToRTF vResult +
  |INPUT_TYPE VARIABLE +
  |INPUT_VARIABLE vTextProjectScope +
  |OUTPUT_TYPE VARIABLE +
  |OUTPUT_VARIABLE vRTFProjectScope +
  |OUTPUT_DATA_TYPE VARCHAR +
  |FONT_NAME Arial +
  |FONT_SIZE 9

-- Example 02
-- Using files for input and output of data
  PLUGIN RTextToRTF vResult +
  |INPUT_TYPE FILE +
  |INPUT_FILE vTextProject.txt +
  |OUTPUT_TYPE FILE +
  |OUTPUT_FILE vRichTextProject.rtf +
  |FONT_NAME Tahoma +
  |FONT_SIZE 10
```

4.2.36 RTimeLapse

The RTimeLapse plugin is used to provide an interval or passage of time between two provided periods. Two variations, RTimeLapse and RTimeLapseEx, are included, with the latter providing more detailed differences in time. The lapse in time can be returned in days, hours, minutes, seconds, and milliseconds.

RTimeLapseEx returns additional variables for the total difference in days, hours, minutes, and seconds. The return variables begin with the prefix "vRBTI" to avoid possible conflicts with other application variables. RTimeLapse does not appear in the R:BASE for Windows Plugins Menu.

RTimeLapse (original)

Syntax:

```
PLUGIN RTimeLapse vResult|<parameters>
```

Where:

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

Parameters:

Parameter	Description
START_DATE	Specifies the start date
START_TIME	Specifies the start time
STOP_DATE	Specifies the stop date
STOP_TIME	Specifies the stop time

Notes:

Returned variable name and the parameters must be separated by a "|" pipe character.

Example:

```
PLUGIN RTimeLapse vResult|START_DATE 03/12/2015|START_TIME 09:35:10|STOP_DATE
03/15/2015|STOP_TIME 14:12:11
```

```
R>SHOW VAR
```

Variable	= Value	Type
-----	-----	-----
vRBTIDays	= 3	INTEGER
vRBTIHours	= 4	INTEGER
vRBTIMins	= 37	INTEGER
vResult	= OK	TEXT

RTimeLapseEx (extended)

Syntax:

```
PLUGIN RTimeLapseEx vResult|<parameters>
```

Parameter:

TIMESTAMP - specifies the starting and stopping date/time values

Where:

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

Notes:

Returned variable name and the parameters must be separated by a "|" pipe character.

Example:

```
SET VAR vStart DATETIME = `01/25/2016 10:33:12`
SET VAR vRTimeLapseCmd TEXT = ('PLUGINS RTimeLapseEx vResult|TIMESTAMP' &
(CTXT(.vStart)) & '|TIMESTAMP' & (CTX(.#NOW)))
```

```
&vRTIMELapseCmd
```

```
R>SHOW VAR
#NOW                = 03/21/2016 13:29:52      DATETIME
vStart              = 01/25/2016 10:33:12      DATETIME
vRBTIDiffInDays     = 56.12                   DOUBLE
vRBTIDiffInHours    = 1346.94                 DOUBLE
vRBTIDiffInMins     = 80816.27                DOUBLE
vRBTIDiffInSecs     = 4848976.                DOUBLE
vRBTIDays           = 56                     INTEGER
vRBTIHours          = 2                      INTEGER
vRBTIMins           = 56                     INTEGER
vRBTISecs           = 15                     INTEGER
vRBTIMSecs          = 0                      INTEGER
vResult             = OK                     TEXT
```

4.2.37 RWCount

The RWCount plugin is used to capture the number of words within a Word document. It does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

```
PLUGIN RWCount vRWCount|FileName.ext|<parameter> <value>
```

Where:

vRWCount is the variable to return the value of the word count

FileName.ext is the actual name and extension of Word document, preceding with the full path

Parameters:

Parameter	Value	Description
USE_PARAM_NAMES	ON OFF	Tells the plugin to use the syntax that uses parameter names
LOAD_FILE_NAME	file	Specifies the file to read
COUNT_OBJECT	WORDS CHARACTERS	Specifies what will be counted. The default is WORDS.

Notes:

The returned variable name, file name with path, and parameters must be separated by the "|" pipe character.

Examples:

```
Example 01:
-- Basic syntax
PLUGIN RWCount vRWCount|License.rtf
SHOW VAR vRWCount
        6974
```

```
Example 02:
-- Using Parameter Name Syntax
CLEAR VARIABLES vRWCount
SET VAR vFolderName TEXT = (CVAL('CURRDIR'))
SET VAR vQuotes TEXT = (CVAL('QUOTES'))
SET VAR vFileName TEXT = (.vQuotes+.vFolderName+'\Product License.docx'+.vQuotes)
```



```

SET VAR vCommand = ('PLUGIN RWCount vRWCount|USE_PARAM_NAMES ON|LOAD_FILE_NAME
'+.vFileName+'|COUNT_OBJECT WORDS')
&vCommand
SET VAR vPause2Message = ('File Name..:'&.vFileName+(CHAR(013))+'Word
Count.:'&(CTXT(.vRWCount)))
PAUSE 2 USING .vPause2Message CAPTION 'PLUGIN RWCount' ICON WINDOWS +
BUTTON 'Press any key to continue ...' +
OPTION BACK_COLOR WHITE +
|MESSAGE_FONT_NAME Courier New +
|MESSAGE_FONT_COLOR NAVY +
|MESSAGE_FONT_SIZE 10

```

4.2.38 TextArt

The TextArt plugin is used to generate text graphic images. The plugin does not appear in the R:BASE for Windows Plugins Menu.

Syntax:

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

Where:

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

Parameters:

Parameter	Value	Description
OUTPUT_FILE	file name	Specifies the output file name. Supported formats are BMP, JPG, and PNG.
TEXT	value	Specifies the text string
WIDTH	value	Specifies the output image width
HEIGHT	value	Specifies the output image height
FONT_NAME	value	Specifies the text font name
FONT_SIZE	value	Specifies the text font size
FONT_COLOR	ON OFF	Specifies the text font color. Supported values are color name, number, hex, and RGB.
FONT_BOLD	ON OFF	Specifies the text bold style
FONT_ITALIC	ON OFF	Specifies the text italic style
FONT_UNDERLINE	ON OFF	Specifies the text underline style
FONT_STRIKEOUT	ON OFF	Specifies the text strikeout style
FONT_TEXTURE	file name	Specifies the text's face will be rendered using an image
FONT_STYLE	COLOR TEXTURED	Specifies the font face style. If COLOR, the text's face is the FONT_COLOR value. If TEXTURED, the text's face is the image assigned to the FONT_TEXTURE value.
BACKGROUND_COLOR	value	Specifies the background color. Supported values are color name, number, hex, and RGB.
BACKGROUND_TEXTURE	name	Specifies the background texture
BACKGROUND_STYLE	COLOR TEXTURED	Specifies the background style. If COLOR, the color is the BACKGROUND_COLOR value. If TEXTURED, the background is the image assigned to the BACKGROUND_TEXTURE value.
SHADOW	ON OFF	Specifies if a shadow is displayed for the text

SHADOW_COLOR	value	Specifies the shadow color. Supported values are color name, number, hex, and RGB.
SHADOW_OFFSET_X	value	Specifies the shadow distance horizontally
SHADOW_OFFSET_Y	value	Specifies the shadow distance vertically
OUTLINE	ON OFF	Specifies to show or hide an outline in the rendered text
OUTLINE_COLOR	value	Specifies the outline color. Supported values are color name, number, hex, and RGB.
3D	ON OFF	Specifies to draw the text as flat or embossed
ANGLE	value	Specifies the angle of the text within the image. The value can be is -180 to 180. The default value is 0.
SCALE_X	value	Specifies to stretch/compress the text horizontally. The default value is 1. To stretch by 50%, use 1.5.
SCALE_Y	value	Specifies to stretch/compress the text vertically. The default value is 1. To stretch by 50%, use 1.5.
SKEW_X	value	Specifies the horizontal skew. The default is 0. Valid values -1 to 1.
SKEW_Y	value	Specifies the vertical skew. The default is 0. Valid values -1 to 1.

Notes:

The returned variable name, file name with path, and parameters must be separated by the "|" pipe character.

Example:

```

PLUGIN TextArt vResult +
|TEXT R:BASE 11 +
|OUTPUT_FILE RBASE_Textured.jpg+
|FONT_NAME Comic Sans MS +
|FONT_BOLD ON +
|FONT_COLOR [R54,G100,B164] +
|BACKGROUND_COLOR WHITE +
|FONT_SIZE 50 +
|OUTLINE ON +
|OUTLINE_COLOR GRAY +
|SHADOW ON +
|SHADOW_COLOR GRAY +
|SHADOW_OFFSET_X 12 +
|SHADOW_OFFSET_Y 12 +
|3D ON +
|ANGLE 8

```



4.2.39 XLSSheets

The XLSSheets plugin is used to capture the number of sheets or a sheet name based on the index within an Excel spreadsheet. Both XLS and XLSX formats are supported. The plugin uses two different parameters, which are used independently. It does not appear in the R:BASE for Windows Plugins Menu.

Number of Sheets

Syntax:

```
PLUGIN XLSSheets vResult|<parameters>
```

Where:

vResult is variable to return the sheet count or sheet name

Parameters:

Parameter	Description
FILENAME	Specifies the file name and extension, including the full path
GET_SHEET_COUNT	Specifies to get the sheet count, returning an integer value
GET_SHEET_NAME_BY_INDEX	Specifies to get the sheet name, using the sheet index value

Notes:

- Returned variable name and the value must be separated by a "|" pipe character.
- The index value for the sheet index begins at zero and increments by one, per sheet.

Examples:

```
PLUGIN XLSSheets vSheetCount|FILENAME FileName.xls|GET_SHEET_COUNT
```

```
PLUGIN XLSSheets vSheetName|FILENAME FileName.xls|GET_SHEET_NAME_BY_INDEX 1
```

Part

V

5 Verified MAPI Installation

When using the [MAPIMail2](#), [MAPIMail3](#), or [MAPIMail4](#) plugins for sending email messages, a verification is performed to confirm that MAPI is installed. If the MAIL verification fails, the "MAPI is not installed." error will be displayed.

Please verify the below environment to ensure the proper MAPI installation.

1. The Microsoft Office/Outlook installation version must be the 32-bit architecture product. The 32-bit files must be installed in order to be compatible with the 32-bit MAPIMail plugins, for integration with R:BASE applications. To verify, when Outlook is launched confirm that "(32-bit)" is listed next to the executable name in the Task Manager.
2. If the Office/Outlook 64-bit architecture product is installed, the programs must be uninstalled.
3. Search the local disk and verify that the "mapi32.dll" file is loaded.
4. Verify the operating system registry settings for the Windows Messaging Subsystem are defined. If the important registry keys are missing, the values must be added manually. The two registry values that must exist are MAPI and MAPIX. Note that the MAPI and MAPIX are string values (not DWORD). Below are the correct registry paths, based upon your Windows operation system architecture, to add the registry keys:

Windows 32bit

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows Messaging Subsystem]

"MAPI"="1"

"MAPIX"="1"

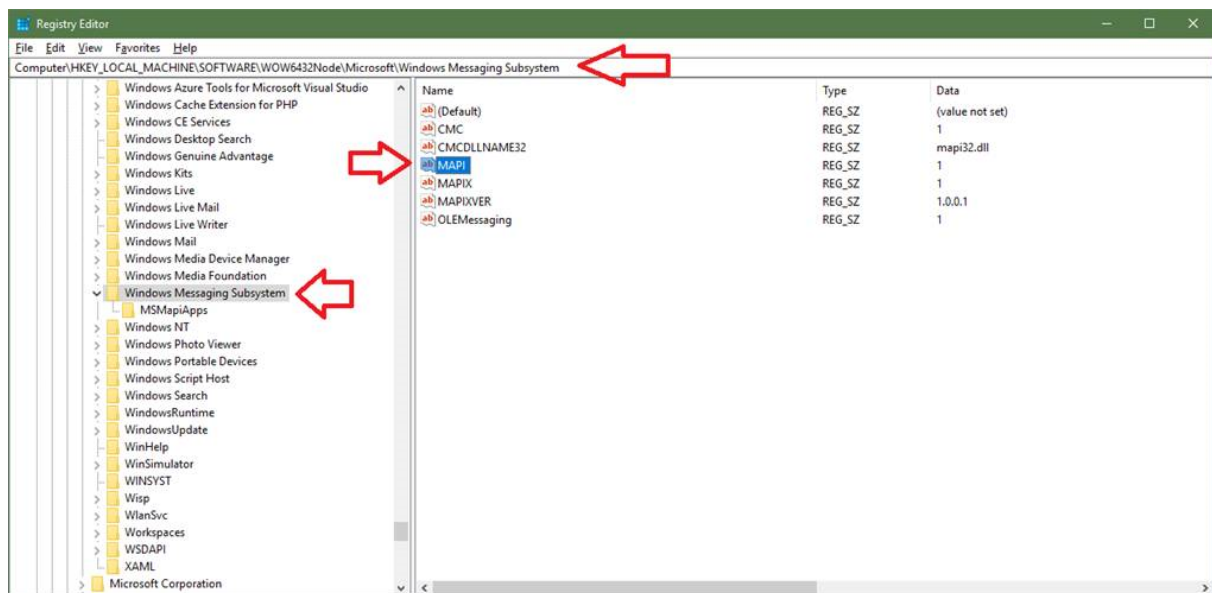
Windows 64bit

[HKEY_LOCAL_MACHINE\SOFTWARE\WOW6432Node\Microsoft\Windows Messaging Subsystem]

"MAPI"="1"

"MAPIX"="1"

If the registry key values were manually created, the computer must be restarted after making the changes.



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6 Request a Custom Plugin

If you have a request for a custom plugin for your R:BASE application, please contact the R:BASE Technologies, Inc. Development Team at rdcc@rbase.com. Pricing for custom Plugins vary based on the plugin specifications.

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7 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
- 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/>

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8 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



IX

9 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.

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.

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