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What's New in R:BASE X.5 (Version 10.5)
 UPDATE 4
 Official Release Version
 Build: 10.5.4.20426

Requested Enhancements	08/13/2021 - 04/26/2022
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Item	Date Implemented	Description
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- 01. 08/16/2021 R:BASE Editor - R:Style will now detect and report when duplicate label names (two identical instances of a LABEL command) appear within a single command file. This detection will help prevent an unintended branch target of a GOTO command.
- 02. 08/20/2021 R:BASE Editor - After R:Style is run and new words have been added to the RStyle.NEW file, could the status dialog include another panel or button, allowing the user to review the RStyle.NEW file. The button would close the status like OK, but would also open RStyle.NEW in the editor as another file tab. The RStyle.NEW file to open would be based upon either the Local or Global configuration in use. If there are no files added to the RStyle.NEW, the button can be hidden.
- 03. 08/23/2021 Plugins - A new TimeZone plugin has been implemented to determines 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.

PLUGIN TimeZone vResult|ACTION GET_INFO

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

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

04. 08/31/2021 R> Prompt - Please allow the tabs within the Favorite Commands dialog to be reordered by drag-n-drop with the mouse.
05. 08/31/2021 Commands - A new REC_SEP parameter has been added to the GATEWAYIMPORT command to specify custom record separator values. The common value is CRLF (carriage return + line feed), which moves the parser down to the next line and then to the beginning of the line. A custom record separator can also be specified. Available Parameters: CRLF / CR / LF / <Custom>
- The File Gateway Import utility has also been updated to optionally specify custom record separator and text qualifier values. The drop-down menus will accept a custom entry by typing in a value.
06. 09/01/2021 Forms - A new GETPROPERTY/PROPERTY command parameter has been implemented for the PDF Viewer control to support the logical page number in PDF documents, for documents that support such.
- GETPROPERTY CompID PAGELABEL vLogicalPageNum
07. 09/02/2021 Commands - The LIST DATABASES command currently generates the header "Databases in current directory". It would be more useful if it displayed the actual name of the current directory, since the user may maintain different versions of the same-named database (e.g., production and test versions) in different directories, and accidentally modifying the wrong version could be disastrous.
08. 09/02/2021 Commands - When the LIST command displays an autonumbered column, it would be helpful to also reveal the next autonumber value and increment. These attributes are already displayed by LIST AUTONUM, but it would be convenient if they also appeared in the output produced by LIST TABLE and LIST COLUMNS.
09. 09/07/2021 Printing Reports/Labels - R:BASE has been enhanced to automatically recognize the default printer when the default printer changes.
10. 09/17/2021 Error Messages - The Error Message Help utility was updated with changes to Areas, Error Messages, and Reasons, if a user would chance upon an encountered error.
11. 09/30/2021 Forms - All Web Browser form controls have been enhanced with a new "Engine Type" property to specify the browser engine (Internet Explorer/Edge) for displaying web pages. A data folder may be specified for the Edge session information. In order to use Edge as the browser engine, WebView2 Runtime must be downloaded and installed, and files must be placed accordingly. Please refer to the help file instructions for the appropriate Web Browser control. Users should note the addition of RBEEdgeBrowser.ocx and WebView2Loader.dll as added files for the updates and installers.
- Allowing users and developers to easier transition the engine type for Web Browser based forms, by not having to modify all forms, application wide PROPERTY commands have been implemented:
- GLOBAL_BROWSER_ENGINE - Specifies the Web browser engine to display web pages, globally for the session. Parameters: NO_PREFERRED | IE | EDGE | EDGE_IF_AVAILABLE
- GLOBAL_EDGE_DATA_FOLDER - Specifies the folder location where Edge places the session information, globally for the session
- PROPERTYAPPLICATION GLOBAL_BROWSER_ENGINE EDGE
PROPERTYAPPLICATION GLOBAL_EDGE_DATA_FOLDER C:\Temp\EdgeData
- To check if WebView2 Runtime is installed, which is required to use Edge for Web Browser controls, a CHECK_WEBVIEW2 parameter for the GETPROPERTY command has been added. The result is either OK or NOT FOUND.
- GETPROPERTY APPLICATION CHECK_WEBVIEW2 'vWebView2Install'

12. 10/21/2021 File Gateway - A new EXPORT parameter, BLANK_IF_NULL, has been added to the GATEWAY command to assign NULL values as a blank. The parameter is different from the existing BLANK_IF_ZERO parameter, which will assign a blank for zero values.
- The File Gateway utility has been enhanced to include the new "NULL Values Export as Blanks" option. The existing export as blanks setting has been re-labeled to "Zero Values Export as Blanks".
- The Data Browser settings also include the new "Blank if NULL" setting for exports performed at the table level.
13. 10/27/2021 Forms - When an Enhanced DB Grid's "Column" properties include a list of "Predefined Values", the grid was updated so that it honors the SET AUTODROP setting. When focused, the list of predefined values will now automatically drop down if the AUTODROP setting is ON.
14. 10/29/2021 Commands - For each form control supporting manual data-entry, it would be ideal to enable an optional text-to-speech property to provide audible confirmation of the entry. A command would speak the values.
- R:BASE has been enhanced with a new SPEECH parameter for the PROPERTY command. With the PROPERTY command, the speak functionality can be implemented in forms, application menus, the Data Browser, R> Prompt, etc. Below are the implemented command parameters. The text portion of the command can accept text or a variable. If the text contains a single quote (apostrophe), the single quote must be doubled for the command to be accepted.
- ```
PROPERTY SPEECH SPEAK 'Hello world!'
PROPERTY SPEECH SPEAK_AND_WAIT 'Hello world!'
PROPERTY SPEECH STOP ' '
```
- The below are available to mute and un-mute the speak functionality in applications:
- ```
PROPERTY SPEECH MUTE ' '
PROPERTY SPEECH UNMUTE ' '
```
- For forms, an added "Speak Control Value on Exit" option was added to form properties to allow audible confirmation of any newly-entered content when exiting form controls.
15. 11/01/2021 Commands - The PROJECT command now transfers default column definitions to the newly created table. If you want to change the projected default column definition, define the desired default column definition with the ALTER TABLE command.
16. 11/03/2021 Forms - When a Digital Clock is placed on a form with a modern appearance applied, there is extra spacing at the end of the clock where two placeholders are available. Can the placeholders be removed, for a more concise display?
- A new TRIMDIGITALCLOCK property was added to remove the spaces/placeholders .
- ```
PROPERTY DigitalClock1 TRIMDIGITALCLOCK TRUE
```
17. 11/11/2021 Settings - When an R:BASE laptop-hosted development system is moved between environments with different display configurations, upon initialization at the new location, it would be helpful if R:BASE would reset all window parameters so that all R:BASE windows open on the laptop display.
- Changes were implemented so that floating windows that are not valid relative to the current monitor setup will be relocated to (0, 0).
18. 11/12/2021 Forms - In the Enhanced DB Grid > Columns > Enhanced Properties tab, the "Standard" Field Type value was updated to include Display Format, Input Format Mask, and Character Case options to be applied to characters.

19. 11/24/2021 Forms/Reports/Labels - It would be helpful to save the Custom Table Relationships graphic layout between sessions, as each time the interface is closed and reopened, the table/view layout resets.
20. 11/29/2021 R:BASE Editor - When opening a file, the dialog offers "R:BASE Files" as a File Type for all extensions related to R:BASE. When selecting to Save a file or Save As, the file type is either by specific extension of "All Files".
- Can "R:BASE Files" as a File Type be included in the "Save a file/Save As" dialog, to specifically see all of the R:BASE type files. All files is listed, but those results are too much in some instances. This request makes it much easier to save one R:BASE file extension (.tbl) as another (.rmd).
21. 11/30/2021 Forms - For the Enhanced DB Grid, if the "Picker for DATE Fields" property is enabled a picker is displayed for both DATE fields and TIME fields. However, the application does not want the time picker for TIME fields, only the date picker for the DATE fields. Can the pickers be independent for DATE and TIME data type fields.
- The field caption has been correctly renamed as "Picker for DATE and TIME Fields" for both date and time pickers. Two new options are now available when "Picker for DATE and TIME Fields" is disabled, where a date picker and time picker may be enabled independently.
22. 12/01/2021 Forms - Could a #DUP (or default value where #DUP is accepted) be added as an individual Column Property on fields within an Enhanced DB Grid?
- The Default Values feature has been implemented at the form-level, similar to Display Formats. Within the Form Designer users may select Tables > Default Values from the main menu bar, and assign default values to any table>>column-level control on the form.
23. 12/06/2021 Forms - A new PROPERTY command parameter was introduced to specify whether the an Enhanced DB Grid uses its font and background color, and not the color definition of the columns. The new property bypasses the initial color definition of the columns, whose properties takes precedent over the grid. The default value is false.
- PROPERTYEmpGrid COLUMNSUSEGRIDCOLORS 'TRUE'
24. 12/08/2021 Commands - A new PROPERTY parameter has been introduced where the OUTPUT File PDF command syntax will recognize the "Default Printer Font" settings with the toggle of a new PROPERTY command parameter:
- PROPERTYAPPLICATION OUTPUT\_PDF\_USE\_PRINTER\_FONT ON|OFF
- When OUTPUT\_PDF\_USE\_PRINTER\_FONT is ON the Default Printer Font will be used in the output. The default is OFF.
25. 01/03/2022 Plugins - Please add the R:Calculator plugin as a menu option under "Utilities > Plugins"
26. 01/04/2022 Report Designer - Please add a Help button to the Breaks dialog in the designer.
27. 01/04/2022 Forms - When filtering records in an Enhanced DB Grid, a new "Hour Glass Cursor On Filter" setting is now available so the user is aware that R:BASE is still processing in the background. The cursor change prevents users from closing the application prematurely when thinking the program is no responding. The following PROPERTY command parameter is also available.
- PROPERTYEmpGrid WAITCURSORONFILTER 'TRUE'
28. 01/05/2022 File Gateway - When importing a MS Excel file which contains too many cells to process, a message is now displayed informing the user that the limitation has been reached.
29. 01/05/2022 Forms - The Enhanced DB Grid has been updated with an improved performance for filter searches.

30. 01/10/2022 Form/Report/Label Designer - The [Ctrl+Alt+B] key combination has been assigned within the designers to easily launch the Scrapbook utility.
31. 01/11/2022 Data Designer - When choosing a data type for a column in the designer, an extra description within the drop down for the non-common data types would be helpful. There have been instances where content was loaded into a table for the incorrect data type, and descriptions would help.
32. 01/25/2022 Data Dictionary - It would be helpful if the Data Dictionary [F3] could show ASC/DESC (Ascending/Descending) for keys/indexes.
33. 01/28/2022 Commands - It would be helpful to allow the BETWEEN condition of a WHERE clause to reference a sub-select statement for either or both of its operands.
34. 01/31/2022 Forms - New PROPERTY command parameters were implemented to simulate a mouse double click and a mouse right click for form controls. The syntax may be used to fire the appropriate control EEP, as well as to display popup menu items in list view controls. The last parameter will accept any value for the PROPERTY command.
- PROPERTY CustomerName MAKEDBLCLICK ' '
- PROPERTY CustomerList MAKERIGHTCLICK ' '
35. 02/01/2022 Forms - When a popup menu is displayed for DB Edit, DB Memo, Variable Edit, Variable Memo, and Variable Unicode Memo form controls, the current value will now be assigned as the default selection for the popup menu.
36. 02/04/2022 Forms - Is it possible to have the "CaptureFromVideoEx" image capture utility performed silently or hidden? The intent is for the image to be captured without having to press the OK button. As the CaptureFromVideoEx dialog takes a second or two "to focus" when initialized, the silent mode can be set to pause for a defined millisecond amount prior to the image capture.
- Two extra parameters were added to the CaptureFromVideoEx parameter for the Variable Image and DB Image controls.
- <TimeoutInMs>: specifies the auto-click wait time in milliseconds. The default is zero.
- <SHOW\_CAMERA|HIDE\_CAMERA>: specifies to show or hide the camera. The default is SHOW\_CAMERA.
- Full Syntax (last two are new):
- PROPERTY <CompID> CaptureFromVideoEx '<Format> <Width> <Height> <TimeoutInMs> <SHOW\_CAMERA|HIDE\_CAMERA>'
- The fifth show/hide camera parameter is only interpreted if <TimeoutInMs> is not zero.

37. 02/07/2022 Hints - New application hint properties were implemented to specify the hint type (Modern, Balloon, Regular), a maximum hint message width, and color options for the Modern hint style.
- HINT\_MAX\_WIDTH - maximum width for the hint message  
HINT\_TYPE - hint message type (Modern, Balloon, Regular)  
HINT\_MODERN\_ARROW\_COLOR - color of the modern hint's arrow in the thick border  
HINT\_MODERN\_BACK\_COLOR - color of the modern hint's text background
- Example:
- ```
PROPERTYAPPLICATION HINT_TYPE 'MODERN'
PROPERTYAPPLICATION HINT_MAX_WIDTH 175
PROPERTYAPPLICATION HINT_BACK_COLOR '[R13,G120,B181]'
PROPERTYAPPLICATION HINT_FONT_COLOR '[R03,G110,B171]'
PROPERTYAPPLICATION HINT_MODERN_ARROW_COLOR 'WHITE'
PROPERTYAPPLICATION HINT_MODERN_BACK_COLOR 'WHITE'
```
38. 02/23/2022 Commands - When using the PACK PASSWORDS command, the underlying logic will now perform a "PACK TABLE SYS_PASSWORDS" routine to internally remove deleted rows. The PACK TABLE operation will also set the row count to match the actual row count after performing the PACK.
39. 02/23/2022 User Privileges - Improvements have been made when connecting to password protected databases, and when identifying permissions for USER accounts. The changes will boost performance in applications.
40. 02/24/2022 Forms - When you use Ctrl+F for the Enhanced DB Grid to search for values, specifically for the "in field <fieldname>" radio button, the field names should be the title names utilized in the grid, and not the actual column names. The end users look for the title name, and since it is different, they do not find it.
41. 02/25/2022 Forms - It would be helpful for viewing all areas of PDF files to be able to move the PDF display around with the mouse within the control window, like when using the hand control in PDF readers.
42. 03/01/2022 Commands/Forms - I would request that the PROPERTYTABLE Search function have an option added to use EQUAL logic, in addition to the current default CONTAINS logic.
- The syntax was enhanced to perform exact criteria searches. To search using EQUALS (exact search), add a equal character and enclose the search criteria in double quotes; "="("and ")".
- ```
PROPERTYTABLE 'ContactCallNotes' 'SEARCH->CallNotes->=(SearchText)'
```
43. 03/01/2022 Forms - The Document Custom EEPs feature for Forms/External Forms should produce its report following the Tab Order of controls. The change will make review of the code easier for locating code, following variable definition and progression, and would be more similar to Report/Label EEP processing (top down).
44. 03/02/2022 File Gateway - On the first Import Wizard screen, it lists the data file types with a radio button. For the Text choice, it shows (\*.txt) but then when you choose it, on the next screen when you are selecting the file, you have other file type choices (\*.csv, \*.dat, \*.asc, etc.). It is confusing to ONLY see (\*.txt) on the first screen when you are looking to import a csv file. It would be helpful if this screen showed all the extensions that are in the File type drop-down a few screens later.
45. 03/03/2022 Rules - After a column is dropped from a table, a defined rule for the column remains, which then displays errors when modifying or adding rows.
- Now, after dropping a column, the rules are checked. If a rule for the table becomes invalid, an error message about the now dropped column will be displayed, similar to the message when a table/view is dropped and a view is dependent on that dropped table/view.

46. 03/03/2022 Forms - As I use the database to create more information screens for employees, customers and general status information, I find I need to convey several messages at a time on a small amount of screen space. Putting these messages in a DB Memo object, where the messages are bigger than the object creates constraints. It would be nice to have an object (Memo/RTF) that acts like the LED Text Label, BUT allows multiple lines that scroll down at a set speed, and then can pop back to the top and start the scroll process again.
- Two new properties were added, AutoScrollInterval and AutoScrollContent, to allow automatic scrolling in all memos and rich edit controls. The "Auto-Scroll Interval" property can only be defined (in milliseconds) within the Form Designer. The AutoScrollContent property specifies to begin scrolling for the content of the form control, which can only be assigned (TRUE/FALSE) at runtime with the PROPERTY command.
- PROPERTY OrderNotes AUTOSCROLLCONTENT 'TRUE'
47. 03/04/2022 Commands - A new APPLICATION parameter was added for the GETPROPERTY command to return the operating system name.
- GETPROPERTY APPLICATION PLATFORM vPlatform
48. 03/07/2022 Data Browser - It would be nice to have a default save location when exporting data from the Data Browser to be a different folder than the database folder. That way the user will not clutter up the folder.
- The RBT\_EXPORT\_FOLDER system variable can now be declared to define a valid folder path where the "Data Browser Export" dialog will initially start. If the variable does not exist or contains a non-valid folder path, all export dialogs will launch within the current folder. The new system variable is similar to the existing RBT\_IMG\_FOLDER system variable, for defining an image load folder.
49. 03/15/2022 Data Browser - When browsing data in a table with NOTE and Image data, it is not possible to enable hints for images, and "not" NOTE data. The "Show NOTE/BLOB Hint" setting must be enabled prior to enabling the "Show Image Hint" setting. If you turn off the "Show NOTE/BLOB Hint" setting, the "Show Image Hint" setting is disabled. It is preferred to have each behave independently, so one could see image hints without the NOTE/VARCHAR hints, as the NOTE/VARCHAR hints can be disruptive.
50. 03/16/2022 Database Explorer - With the "Copy Database" or "Copy Database To" options, please add comma formatting for thousands, millions, etc. to the database file size within the dialog.
51. 03/28/2022 Watch Variables - The Watch Variable list should display the current character count for each watch variable of type NOTE, just as it does for TEXT variables.
52. 03/29/2022 Query Wizard - To enable placement of more objects on the workspace, provide the ability to toggle column comments on/off, especially where column names are self-documenting.
53. 03/29/2022 Trace Debugger - When NOTE variables are added to the Watch Variable toolbar, the character count is not displayed as the toolbar does for TEXT data type variables.
54. 04/25/2022 Commands - The ability to detect the network connection type is an ideal solution, especially for reliable connections to the database. The NETWORKCONNECTIONTYPE parameter for the GETPROPERTY command has been implemented.
- GETPROPERTY APPLICATION NetworkConnectionType vContype
- The return values are: Wi-Fi, Bluetooth, Ethernet, Unknown

| Item | Date Fixed | Description                                                                                                                                                                                                                                                                                                                  |
|------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01.  | 08/13/2021 | User Privileges - When I try to resize the table column it does not stay.<br><br>The Table Privileges dialog is now larger, and can be resized as needed. Also, if the Table Privileges dialog is resized, the dimensions are retained for later use. The User Privileges dialog will also retain the dimensions if resized. |
| 02.  | 08/13/2021 | Form Designer - The Object Inspector EEPs display should not truncate text unnecessarily when there is ample room to display more.                                                                                                                                                                                           |
| 03.  | 08/16/2021 | Data Browser - When hovering over a truncated column-header in the Data Browser, the hint should pop up revealing the full column name. (It already does this in View as Tree Grid mode, but not in View as Grid mode.                                                                                                       |
| 04.  | 08/16/2021 | Data Browser - The Save Layout option is grayed out except in View as Grid mode. The option should be available in View as Row mode, especially since Column Descriptions in Row Mode is meaningful in View as Row mode, and can be saved in the layout.                                                                     |
| 05.  | 08/20/2021 | File Gateway - When importing a CSV file, the data is not loaded when "line feed only" delimited data is encountered in the file.                                                                                                                                                                                            |
| 06.  | 08/23/2021 | Database Explorer - When using the Database Explorer "Touch..." utility to update labels, the confirmation dialog at the end reads "Finished updating report(s)."                                                                                                                                                            |
| 07.  | 08/23/2021 | R> Prompt - When toggling the display of the Command History toolbar at the R> Prompt using [Ctrl+H], with a command displayed in the input console, each iteration of the key combination deletes a character from the end of the displayed command.                                                                        |
| 08.  | 08/26/2021 | Forms - The Object Inspector EEPs display should name its EEPs consistently with the rest of R:BASE. For example, what is normally called "On After Start EEP" is reported by the Object Inspector as "OnCustomAfterEntryEEP". The difference makes it harder to map from one set of conventions to the other.               |
| 09.  | 08/26/2021 | R:Compiler for R:BASE - When using the "Embed R:BASE Engine into Executable" setting, the option is not using the engine DLL located in the R:Compiler program folder as the initial location to select the file.                                                                                                            |
| 10.  | 08/27/2021 | Forms - When converting a form Variable Rich Text control to an Advanced Variable Rich Text, the enabled "Word Wrap" setting does not transfer over to the Advanced control.                                                                                                                                                 |
| 11.  | 08/27/2021 | R:BASE Editor - The "Exclude empty command sections in Output Structure" setting should additionally apply to the displayed Structure Toolbar as well as to the various Output Structure options.                                                                                                                            |
| 12.  | 08/31/2021 | Reports - When printing a report with a DB Memo control in a Region, the characters overflow off the right side of the page.                                                                                                                                                                                                 |
| 13.  | 09/01/2021 | R> Prompt - When a new Favorite Commands tab is added to place commands, and you do "not" yet add commands to the tab, it is dropped after closing and restarting R:BASE.                                                                                                                                                    |
| 14.  | 09/02/2021 | Data Dictionary - The various Status Bar panes (Key Status, Clock Status, Field Status, etc.) are not listed in the Data Dictionary under the Control Types tab.                                                                                                                                                             |



15. 09/02/2021 Forms - When adding panes to a Status Bar control, there is not a Control Type name assigned to the "Current Table" and "Current Field" panes when the object is selected and reviewing the details in the Object Inspector toolbar.
16. 09/03/2021 Report Designer - When you copy and paste multiple fields in the Report Designer, the field names are not displayed in the pasted fields. You have to save/exit and go back in for them to show.
17. 09/07/2021 Form Designer - When the DB Navigator (not Enhanced) control's "Clear Hints" button is selected, the hints do not clear.
18. 09/09/2021 Data Browser - When a layout has been defined for a table, and then that table definition changes with a column removed/deleted, the table no longer opens when launched from the Database Explorer, when LAYOUT is set ON.
19. 09/17/2021 Forms - When double-clicking a DB Edit or DB Memo control for the popup menu, the response is slow if the query used to populate the list returns a lot of rows.
20. 09/17/2021 Data Browser - When browsing NOTE data in a table the "Show NOTE Hints" can be toggled on and off. But when enabled, and as a hint is displayed, if you turn off the setting, the hint remains stuck in the Data Browser. The hint will not disappear until the setting is toggled on and off again.
21. 09/17/2021 Data Browser - After the Update Query option is selected and the command is changed to an invalid syntax, changing the command to a valid command does not correct the Data Browser.
22. 09/23/2021 Forms - When the Record Number option is enabled for the Enhanced DB Grid control, the displayed record numbers (1 ... nnnn) are based on the starting data set. When the grid is updated based on a filtered criteria, the Record Number(s) are not re-sequenced (numbered) from 1 .... nnnn. It still shows the original numbers based on the starting data set.
23. 09/23/2021 Forms - When filtering an Enhanced DB Grid using the filter option, the Record # and Row Count is still based on the starting data set and not the filtered records. It would be nice to either add a new/enhanced DB Navigator to address that feature or have an option to use the Record# and Row Count based on filtered records.
24. 09/30/2021 Functions - Other than TEXT, the CVTYPE function does not return length value when the column is defined as such. The NOTE, WIDETEXT, and WIDENOTE data types are not returned with the length values when defined.
25. 10/04/2021 Help Files - The (STAT('DBSIZE')) function help file chapter was updated to include details for the default data type (INTEGER), and advisement to use a larger numeric data type (DOUBLE, BIGNUM), as the return variable for larger databases (over 2GB).
26. 10/04/2021 Commands - When performing a RELOAD where temporary tables and/or views are defined within a database, an internal lock error is encountered.
27. 10/08/2021 Plugins - When writing a routine to detect invalid file names, it was discovered a slight problem with the LoadFileName plugin. LoadFileName returns [Esc] if no file is selected. However, [Esc] is a valid Windows file name, (although highly unlikely). If you select the [Esc] file, you cannot tell that you have selected a valid file or no file at all.  
  
A new APPLICATION property has been introduced to return a safe string value that cannot be a valid file or folder name. When ON, the result for empty selection is <Esc>. When OFF, the result for empty selection is [Esc]. Default is OFF. The USE\_SAFE\_FILE\_AND\_FOLDER\_EMPTY\_STR property affects the LoadFileName, LoadFileNamePlus, and LoadDirectoryName plugins.  
  
PROPERTYAPPLICATION USE\_SAFE\_FILE\_AND\_FOLDER\_EMPTY\_STR ON|OFF
28. 10/11/2021 Database Explorer - When a database is in a folder path that contains an ampersand, the character is missing from the database connection history value.

29. 10/12/2021 Forms - When attempting to open a PDF file with security enabled using the PDF Viewer control, the file cannot be opened. The file can be opened to view with other PDF readers.
30. 10/12/2021 Database Explorer - When connected to a database, and reviewing the databases while sorted by date in descending order at the DB Explorer, once you disconnect from the database, the database incorrectly sort by name automatically in ascending order. The column titles for Database Name, Date, and Size show the "arrow" within the Date column header, but the sort does not match.
31. 10/14/2021 Data Browser - After dragging the Data Browser window to the far right with a dual monitor setup, and later launching the Data Browser without the second monitor, the WINDOW\_STATE NORMAL parameter places the Data Browser far to the right again, only it is not visible/accessible. It appears the program is halted. Is there a logic that can be implemented to display Data Browser window in setups where two monitors are scaled down to a single monitor?
32. 10/15/2021 Commands - When reviewing the list of indexes for a specific table name, the dialog for more output is prompted, but the follow-up output is blank.
33. 10/18/2021 ODBC - When attaching a table containing a GUID data type column, an error is displayed, and the GUID column is attached with the BIT data type.
34. 10/18/2021 Commands - When performing a single index check for a database with bad indexes, the check process never completes.
35. 10/20/2021 Stored Procedure - When creating a new stored procedure and defining arguments, the data type and size has a "default size" but not a default data type. Please make "TEXT" the default data type. The same applies when defining a return value data type and size.
36. 10/21/2021 Forms - Forms do not launch when a Web Browser control is defined with the "Hide on Startup" menu option enabled. If "Hide on Startup" is disabled, the form launches as expected.
37. 10/22/2021 Help Files - The documentation reads: "When checked, the [TAB] key will insert [TAB] characters in the field instead of moving to the next field." The documentation is incorrect.
38. 10/25/2021 ODBC - When PASSTHROUGH is set to ON, GUID values do not display correctly for SATTACHED tables.
39. 10/26/2021 Forms - When both "Allow Tabs" and "Picker for DATE Fields" are checked, and focus has landed on a DATE field/cell within the grid: a) the date automatically displays, as desired, but when the [Tab] key is pressed the focus incorrectly moves to the next control in the form's tab order and b) the date automatically displays, and the date picker is expanded to choose another date, but the focus incorrectly moves to the next control in the form's tab order.
40. 10/26/2021 Forms - When "Picker for DATE Fields" and "ENTER as TAB" are both checked, and focus has landed on a DATE field, pressing the [ENTER] key has no effect, whether accepting today's date value, or selecting a new date value. The focus incorrectly remains on the DATE field cell. This result obtains whether or not "Allow Tabs" is checked.
41. 10/27/2021 Forms - When a new Enhanced DB Grid control is placed for a table with date fields, the "Picker for DATE Fields" and "Show Hint" options are initially grayed out. Removing the check for "Cell Hints" does enable the "Picker for DATE Fields" option. However, the "Show Hint" option remains disabled. The grid and form must be saved, and the grid properties opened again, in order to see the "Show Hint" option become available for selection.
42. 10/29/2021 Functions - When computing a variable value which uses an IFGE function and one of the arguments is NULL, the expression processing is incorrectly traversing the expression stack one time too many and could clobber memory depending on what was left over from previous processing.

43. 10/29/2021 Commands - When using the WRITE command to place VARCHAR data into a file within a WHILE loop, the file data is not written correctly.
44. 11/15/2021 R:BASE Editor - When R:Style has a local configuration, the RSTYLE.NEW file is placed in the R:BASE program folder and not in the folder specified in Local R:Style File Locations. This makes it inaccessible by Ctrl-Alt-L for editing it and updating the other R:Style files.
45. 11/19/2021 Commands - When assigning a TEXT variable from a REAL column value lookup, the resulting variable data type is incorrectly assigned as a NOTE data type.
46. 11/25/2021 Reports - After printing and signing an R:BASE report with Signature and Check Box PDF Form Controls, the resulting signature is changes to the Wingding font and not readable.
47. 11/29/2021 Forms - The PROPERTY to make a DB Image control not visible does not work as expected. The below command should make the control invisible.
- PROPERTY DBImage1 VISIBLE FALSE
48. 12/06/2021 Data Browser - When "View as Row" and "View as Tree Grid" as selected as view modes for an opened table, the Task Manager show high power usage with no activity.
49. 12/10/2021 Forms - When a value for a DB Edit with an Input Format Mask is deleted, the full text cannot be added back into the field until the focus is moved to another field and back again.
50. 12/13/2021 Commands - Using a long text string for the "OUTPUT filename.pdf PDF" command results in the output having words not wrapping based upon spaces. Wrapping is occurring mid-word and some text is off the page.
51. 12/13/2021 R:BASE Editor - When running the editor in a multi-monitor setup, pressing [F5] brings up the command template list when the Editor screen is on the initial monitor display. However, when the Editor screen is on the secondary monitor, the template list is not visible. If the R:BASE window in placed as a non-maximized window to the left edge of the second monitor, a truncated command list is displayed.
52. 01/05/2022 Data Browser - When altering text in the Data Browser, the highlighted text becomes truncated to 31 characters upon pressing [Enter] to edit the cell contents.
53. 01/10/2022 Label Designer - When using the Scrapbook in the Report Designer, Advanced Controls may be added as items to the utility. When launching the Label Designer, the Advanced Controls which are not supported are visible in the Scrapbook and can be incorrectly added to labels. The objects which should be hidden from the Label Designer Scrapbook include the Region, SubReport, and CrossTab.
54. 01/12/2022 Plugins - When using the TimeZone plugin, the vRBTITZStdDate and vRBTITZDLDate return variables appear to be static. The days change from year to year.
55. 01/13/2022 Reports/Labels - When a DB 2D Barcode is configured as a QR Code (or Data Matrix) barcode type, with the "Print Human Readable" option enabled, the displayed text is left justified by default. However, wanting to display the text as right justified places the text where it is no longer visible.
56. 01/17/2022 Forms - When capturing file names dynamically and inserting the values into a table, files with four characters in the file extension fail when run within a form EEP. For examples JPG, DOC, XLS will work, but JPEG, DOCX, and XLSX do not.
57. 01/20/2022 R:Compiler for R:BASE - A memory allocation error is encountered when running a compiled application. The application runs as expected with R:BASE.
58. 01/20/2022 Commands - When reviewing external files errors display that the temporary .\$\$\$ files cannot be found.

59. 01/25/2022 Trace Debugger - When tracing a stored procedure, the "Jump to Line" [F11] menu option does not move the focus to the specified line.
60. 01/25/2022 Trace Debugger - When tracing and a CALL to a stored procedure is executed, the tab in the debugger does not display the stored procedure name. The tab reads SYS\_PROCEDURES.
61. 02/24/2022 Commands - When converting a RB1-RB4 database to the RX1-RX4 files using the CONVERT command, the rule and trigger definitions are assigned incorrect tables.
62. 02/25/2022 Forms - If one passes parameters to a Custom Form Action and forgets to include the "USING" portion, the error message returned is confusing.
63. 02/25/2022 Forms - When using a File List Box control with the "Allow Open" setting enabled, an image file does not open when MS Paint is assigned as the default program for the image file extension.
64. 02/28/2022 Data Browser - When subsequent data exports to XLS spreadsheets from the Data Browser are performed after columns are moved in the browser an error is displayed.
65. 03/01/2022 Data Browser - When columns are hidden from the Data Browser display, and then the query is updated, the hidden column incorrectly reappear.
66. 03/02/2022 R:BASE Editor - Within the local R:Style Setup dialog, the file paths for each tab in the dialog are not valid.
67. 03/07/2022 R:BASE Editor - After running R:Style, a LABEL value which starts with numbers is not added to the R:Style.NEW file.
68. 03/07/2022 Functions - Using the (CVAL('PLATFORM')) function, the returned value does not match the operating system version.
69. 03/09/2022 Forms - When running a form with Web Browser controls on a Windows 11 computer, the data fields are not populated, and objects are not hidden as expected.
70. 03/10/2022 Reports - When printing a report to the GIF output format, the image size is automatically altered if the Windows Display Setting for "Scale and layout" is set to 125% rather than 100%.
71. 03/11/2022 Data Browser - When opening a table and adding Chinese language characters, the field is populated with characters that were not typed or added by copy/paste.
72. 03/25/2022 BLOB Editor - If a block of text 5500 characters long tries to be pasted into the BLOB Editor for a NOTE field and then the user clicks OK to save, the text vanishes without a warning. Can there be a message informing the user that the text is too long and will be truncated?
73. 03/28/2022 Data Browser - After columns are locked in the Data Browser, the locked columns are duplicated in the grid after selecting to view the rows as a Tree Grid, Row View, then back to the original Grid.
74. 04/04/2022 Forms - When launching multiple MDI forms from a main form, the MDI forms do not stay on top of the original calling form when the other MDI forms are selected/focused.
75. 04/05/2022 Forms - When specifying a Caption Hot Color and Item Hot Color for the Group Bar, the color of the caption (red for example) does not change when the mouse hovers over the listed items or the group header.
76. 04/05/2022 Database Explorer - When searching for text in stored procedures, the matches for the searched criteria are not highlight/selected so the text may be easily recognized in large procedures. Also, when searching stored procedure text with several matches, the "Find Next" [F8] menu/hot key is not locating the subsequent matches.

77. 04/07/2022 Data Browser - When entering new text within a large TEXT field, where the total text exceeds the displayed cell size, as soon as the expanding text moves right and reaches the end of the visible cell, the text at the beginning of the cell moves off to the left, and becomes non-visible with the text moving to the left, as new characters are added. The scroll/fill method of existing text moving left, rather than to the right is unexpected.
78. 04/11/2022 Commands - With several views based upon on temporary tables/views, which are defined in the application startup file and then dynamically deleted and recreated with required data sets throughout the application, the database rebuild from an UNLOAD ALL or UNLOAD STRUCTURE encounters errors when rebuilding the views based upon on temporary views. Also, the order in which the views are unloaded and subsequently rebuilt are not in the order where those views dependent on other views are last.
01. If there are temporary tables/views in a database when an UNLOAD ALL or UNLOAD STRUCTURE is performed, the temporary table/view definitions will now be unloaded also. Prior to this fix, the only way to unload a temporary table definition was to specifically name the table in the UNLOAD command.
02. If a table or view needed to define a view cannot be found, after the error message about the missing item, you will now get another message to identify the view that R:BASE was trying to create.
- The database schema stores the internal order in which tables and views were defined. When the database structure is unloaded, the order is used for primary key tables to be created before foreign key tables. Views are also stored in the order of creation, where views based on other views are unloaded after all the other views it is dependent upon. If any view that another view it is dependent upon is deleted and redefined, a PACK SCHEMA should be performed, then the view with the dependencies should be deleted and recreated. This would place the view with the dependencies after all the other views it is dependent upon within the internal order. The steps would ensure a database UNLOAD and rebuild is successful where views with the dependencies are created last.
79. 04/11/2022 Settings - When running a looped routine, the TIMEOUT setting is causing the R:BASE session to halt and close when more processing is expected.
80. 04/22/2022 Report/Label Designer - When a Variable Rich Text object is double clicked, the Rich Text Editor is incorrectly launched, where the variable name can be overwritten with changes saved in the Editor.
81. 04/22/2022 Report/Label Designer - When a Variable Memo is double clicked, the Memo Editor is incorrectly launched, where the variable name can be altered.
82. 04/22/2022 Report Wizard - Immediately after creating a new report in the wizard, the text for the Page Footer System Variable objects is not visible. When selecting the objects, the system variable type is visible in the Edit toolbar. You must close and reopen the report to see the text for the system variables.
83. 04/22/2022 Report Wizard - When a new report is created in the Report Wizard, where the "Vertical" layout and "Landscape" orientation options are selected, the Rectangle shape object is placed on the final report designer background where it's width is slightly larger than the report width. The red line is visible across the bottom of the rectangle meaning it will not be included in the output.
84. 04/25/2022 Report/Label Designer - When a Variable Unicode Memo is double clicked, the Unicode Memo Editor is incorrectly launched, where the variable name can be altered.
85. 04/26/2022 Reports/Labels - When the "Parse HTML Content" setting is enabled for HTML data, the report does not display as expected.
86. 04/26/2022 Commands - When columns are dropped from a temporary tables an error is displayed.