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What's New in R:BASE X.5 (Version 10.5) UPDATE 4 Official Release Version Build: 10.5.4.11222

Requested Enhancements	08/13/2021 - 12/22/2021
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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 | <p>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.</p> |

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 DBGrid?
- 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.

| 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 Commands - When performing a RELOAD where temporary tables and/or views are defined within a database, an internal lock error is encountered.
26. 10/04/2021 Help Files - The (ISTAT('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).
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 can not 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 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.
30. 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.
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 Commands - When performing a single index check for a database with bad indexes, the check process never completes.
34. 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.
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 Commands - When using the WRITE command to place VARCHAR data into a file within a WHILE loop, the file data is not written correctly.

43. 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.
44. 11/15/2021 R:BASE Editor - When RStyle has a local configuration, the RSTYLE.NEW file is placed in the RBGX5E directory 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 RStyle 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 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.
51. 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.