

R:BASE X
and
R:BASE X Enterprise
100 Reasons to Upgrade





R:BASE X and R:BASE X Enterprise

100 Reasons to Upgrade

by R:BASE Technologies, Inc.

Welcome to R:BASE X (Version 10)!

This document details the 100 most popular and powerful enhancements added to R:BASE X and R:BASE X Enterprise.

R:BASE X (Version 10) is the sleek new relational database environment intended to offer next-generation development and connectivity to database administrators. Many added R:BASE features bring forth powerful means to further streamline data management. R:BASE X (Version 10) also takes a big and very fundamental step of extended character support, geared towards even more versatile world-wide use.

The clean and sophisticated styling of R:BASE X, paired with the built-in database engine that has paved the foundation of stability and reliable convenience, provides a brand-new value on R:BASE's database and application adaptive content development.

R:BASE X and R:BASE X Enterprise - 100 Reasons To Upgrade

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First Edition

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1. Unicode extended character support
2. New **BIGINT** data type, which is a 64-bit integer - **R:BASE X Enterprise** only
3. Supported navigation of file system paths (and file names) with Unicode characters
4. New **SMALLINT** data type, which is a 16-bit integer - **R:BASE X Enterprise** only
5. New **BOOLEAN** data type - **R:BASE X Enterprise** only
6. New "Segoe UI" font implemented system wide to blend well with recent Windows releases
7. Includes 64-bit ODBC Driver for 64-bit application access - **R:BASE X Enterprise** only
8. New Database Explorer Navigator, with left sided tabs, to only display menu options for the active module
9. New **PRINT** output format (XLSX) to create MS Excel Workbooks
10. New Data Browser/Editor "Update Query" menu option allowing users to modify the existing query, using the WHERE builder, within the Data Browser
11. New Database Explorer drop-down menu, to quickly jump to a desired module
12. New Explorer Appearance settings to customize the color schema of R:BASE and the Database Explorer areas
13. New **WIDETEXT** data type - **R:BASE X Enterprise** only
14. New **WIDENOTE** data type - **R:BASE X Enterprise** only
15. New Form/Report/Label Designer "Code" tab to easily review all EEP/Custom Action command syntax within the form
16. New **ON DISCONNECT/EXIT** commands to support running code when disconnecting from a database and closing an R:BASE session - **R:BASE X Enterprise** only
17. New Form/Report/Label Designer EEP "History" tab to automatically save the form's EEP as a backup, when command syntax changes are made
18. Enhanced Form/Report/Label Designer Object List toolbar offering increased organization and navigation of available form controls
19. New Form Designer "Control List" utility to easily find and add available controls, with the help of the component filter, e.g. typing "button" reduces the list to only button-type controls
20. New import and export support for the JSON (JavaScript Object Notation) format
21. New Query Wizard automatic linking options for common field names or primary key/foreign key relationships
22. Added "EEPs" tab to the Object Inspector toolbar, providing direct access to all Entry/Exit Procedures for the selected control
23. New "Variable Link" enhancement that provides multiple variable-based mapped links for control properties
24. Added "Date/Time" column for Tables and Views providing the last structure change for each - **R:BASE X Enterprise** only
25. Added Report/Label IntelligentMail bar code support
26. New **MIGRATE** command to convert databases to R:BASE X Enterprise from R:BASE eXtreme 9.5 (64)
27. New Report/Label Designer Control List utility, to easily find and add available controls, with the help of the component filter, e.g. typing "label" reduces the list to only label-type controls
28. Added Report/Label QR Code and DataMatrix bar code support
29. Added Watch Variable Breaks in the Trace Debugger, allowing the trace debugger to halt/break upon variable changes
30. Full support for fractional seconds (HH:MM:SS.SSS) for TIME and DATETIME data in the Data Browser and in database rebuilt processes
31. Expression Builder accept curly brace comments "{}" within expressions, to document the purpose/logic of the variable
32. New Data Designer "Column Name Template", providing a default value when adding new columns to tables
33. New "Run Selection" option in R:BASE Editor to run a highlighted block of code
34. New Excel 2003 PRINT/LBLPRINT report and label output type, XLS2003, to handle Unicode strings
35. Enhanced edit options for existing stored procedures to modify the source code, arguments, return value, and comment
36. Added Form Designer "Run Form (Live)" option to runs the form from the designer using live table data
37. Enhanced "Tab Order Settings" providing a separate "containers" panel, grouping controls by container-type objects
38. New Popup Menu support has been implemented for List View controls, to offer a right click popup menu to run procedures
39. Added R> Prompt Command History filter to limit the displayed commands, allowing users to easily locate a command previously used within a long Command History list

40. Integrated R:BASE database backup utility to backup one or more database, with options for automation
41. New "EEP Map" utility in Form/Report/Label Designers, to display all form EEPs in a single location
42. Added MODERN_LOOK parameter for **DIALOG** command to use the modern look of recent Windows Aero releases
43. Preview WHERE Clause option in the Report/Label Designer allowing a WHERE Clause to be entered and applied to the preview results
44. Support for updatable cursors with BEFORE INSERT and BEFORE UPDATE triggers
45. New Form Designer alignment guidelines, which display when dragging/moving one or more selected objects, allowing easier placement of objects to align with existing objects
46. New "Custom Table Relationships" for multi-table forms and reports, providing Common Column Names, Primary Key/Foreign Key, and Custom table relationships
47. New **UTF8** operating condition to support Unicode characters for string function in applications and environments which will use higher character sets
48. Enhanced main title bar to include the full path where the connected database is located
49. New **SysDialog** internal plugin to create native dialog boxes with support for several buttons
50. Added "-BASE" command line parameter to initiate optimized Database Explorer settings for use in active server environments
51. New Variable Row Heights for Enhanced DB Grid controls
52. Enhanced Data Dictionary listing the Date/Time stamp for tables, views, forms, reports, and labels - **R:BASE X Enterprise** only
53. Enhanced Data Dictionary listing the a table column name, data type and comment
54. New (separate) **PAGELOCK** operating condition, which specifies how R:BASE locks data in a multi-user environment based on the position of the row in the data file
55. Support to resize the Image List dimensions in .RBA application files, supporting images larger than 16x16 pixels
56. New **CHOOSE** command custom drawing options allow the displayed window to appear as a list view control
57. Enhanced stored procedure unload capabilities to create the .PRO source file, and a .RMD file with the same name containing the PUT command, with full parameters
58. Added R:BASE Editor "Trace" menu option to launch the Trace Debugger directly from the R:BASE Editor
59. Enhanced Report/Label Designer Expression Builder supporting Page Style, Column Header and Column Footer as options for variables to "Calculate On"
60. Enhanced R> Prompt "More output follows" dialog box to remain aside and non-modal, but prominent within the output console
61. Pop-up menu support for DB Memo and Variable Memo controls
62. Added Table Order option to over-ride the automatic selection-order of tables drawn into the Query Builder and Query Wizard
63. Increased query storage for the SELECT command in building views - **R:BASE X Enterprise** only
64. New **RNDUP** function to return a number value rounded up to a specified number of digits
65. New (**CVAL('TABLELOCKS')**) function to return a delimited text string for all tables with a lock
66. Added Gateway sub-formats for the SQL Script export format; MSSQL, MySQL, InerBase/FireBird, Oracle, PostgreSQL, DB2, Informix, MS Access, SQLite
67. Added Scratch Pad utility to increase productivity during active development
68. Added **SELECT** Functions **PSTDEV** and **PVARIANCE** to support "population" standard deviation and "population" variance
69. EEP support in the Data Browser/Editor through the BROWSE and EDIT commands to launch a command file when a cell is clicked or double-clicked
70. Added RBTI System Variables supporting the ability to set the default directory, file name, and output type for the "Print to File" print dialog, before the dialog is launched
71. Added R:BASE Editor "Replace in All Files" option, to search and replace text strings in multiple files
72. Unicode support for extended characters Database Explorer comments
73. Added Database Events for when disconnecting from the database and closing the R:BASE session - **R:BASE X Enterprise** only
74. Added option to display row numbers for tables, views, forms, reports, etc., with additional alignment settings
75. Added display of column comment descriptions and expressions within the status bar
76. Updated Table Privileges interface providing the **WITH GRANT OPTION**, allowing specified users to pass the granted table privileges to other users
77. Updated Table Privileges to allow multiple users to be provided with **CREATE TABLE** permissions
78. Added "Database Properties" reference, providing all general information regarding a database
79. Enhanced **COPY filespec** command to support combining of files
80. Database Explorer warning display of listed database files, informing users if a listed database is that of a version prior to R:BASE X - **R:BASE X Enterprise** only

81. Added "Touch" utility to quickly update and save forms, reports, and labels when migrating between versions
82. DB/Variable Label rotation support for reports and labels
83. Enhanced Form Designer "Select Tables" dialog with Table Relation "One to Many" and "Many to Many" settings
84. New **FCONVERT** command to perform file conversions between ANSI, UTF-8, Unicode, and Base64 files
85. Added **GATEWAY** EXPORT format parameters for SQL compliant formats
86. New "Favorite Commands" utility at the R> Prompt to store and manage commonly used commands
87. Additional **GATEWAY** EXPORT parameters to control Unicode to ANSI conversions
88. New **CMPAUSE** operating condition (Cascade Modal Pause) determines whether to allow multiple visible PAUSE dialogs
89. Added Enhanced DB Grid functionality to change all (or multiple) column properties at once
90. New **LVARIANCE** function to return the variance for a list of values
91. New **LSTDEV** function to return the standard deviation for a list of values
92. New **LSUM** function to return the sum for a list of values
93. Enhanced File Sort options for the File List Box control, allowing the sort to be performed based on common fields
94. Added Character Case options for DB Memo and Variable Memo controls
95. Ability to modify the Default EEP assignment for form controls
96. Enhanced **SHOW VAR** command to allow sorting of variable output, with wild card support
97. Additional EEP events for nearly all form controls
98. A new system-wide application setting is available to specify if **DIALOG** boxes use the modern look of recent Windows Aero releases
99. Enhanced R:BASE Editor Structure Toolbar Settings allowing any R:BASE command to be added/ removed from the toolbar
100. Added support for Database Events with the **SHOW** command