

Raima Database Manager 15.0

Key Features:

- Next Generation Storage Format
- Performance
- Automatic Locking
- Portability
- SQL/Core Compatibility
- Upgradability
- In-Memory Optimizations
- SQL/PL
- Dynamic DDL
- Comprehensive API
- **REST-ful Interface**
- Administrative GUI
- Geospatial Data
- Time Series

RDM is a high-performance database management system that is optimized for operating systems commonly used within the embedded market. The database engine has been developed to fully utilize multi-core processors, run with minimal memory, and support both in-memory and on-disk storage. It provides a subset of the ANSI/ISO standard SQL that is suitable for running on a wide variety of computers and embedded operating systems which may have limited resources.

Core Package

- Performance Improved performance over previous version of RDM and competitor products.
- Automatic Locking: Reduced need for developers to individually lock every table in a relationship. RDM now automatically locks any related and relevant tables with one lock by the user.
- Portability Database content will be independent of the CPU architecture, allowing databases to be copied between platforms, or concurrently accessed by computers with different operating systems or CPU architectures.
- SQL/Core Compatibility This version of RDM will combine the Core and SQL database definition languages into a single DDL. The file format will support Core and SQL, as well as consolidating the catalog and database definition files. Primary and foreign key references will be a core level feature. Additional NULL support as a core level feature.
- Upgradability Database upgradability with respect to database migra- Time Series Data Support tion from prior RDM versions can be done through import/export functionality.
- Primary Key Performance Optimization — RDM 15.0 will have newly created optimizations for primary key indexes. Users with primary keys on their tables will see enhanced performance.
- Dynamic DDL This feature is im-

portant to meet customer feature demand for the ability to create and alter database and table definitions, which enhances the customer application upgrade scenarios.

Comprehensive API - RDM 15 will further enhance programmer efficiency by offering a comprehensive and modern cursor API for database command, control and navigational access.

REST-ful Admnistrative GUI

A newly supported REST-ful admin GUI has been added to the database server functionality.

- CRUD: (create, read, update and delete) operation to the database through simple database access buttons
- **Diagnostics:** RDM engine status: memory usage, CPU usage, database size, table size, users connected, etc. are all viewable upon immediate connection
- Administration: Database status can be modified

RDM 15.0 will have a new generatable time series interface allowing full flexibility with storing vast amounts of data which is Fast Fourier Transformed over time.

amazon

web services

WIND

SOFTWARE

GNX

Partners:

Enterprise Package

All of the core features in addition to:

- SQL SQL ISO 2012 standard support
- SQL PL SQL Persistent Procedur
 al Language is a major ease-of-use enhancement in RDM 14. This fea ture follows the ISO standard for SQL scripted procedures and allows for programming constructs to be used purely through SQL.
- SQL Stored Procedures— SQL Stored procedures allow for a precompiled batch of SQL statements to be executed together to perform a specific task.

Database Specifications

- Max. Databases Open Simultaneously: No Limit
- Maximum Rows Per Database: No Limit
- Maximum Size of Database File: Limited
 only by file system
- Maximum Tables Per Database:
 No Limit
- Maximum Records Per Table: No Limit
- Maximum Keys Per Database: No Limit
- Max. Row Size:
 No Limit
- Maximum Fields Per Table:
 No Limit

• Security AES Encryption with 128/192/256 bits

- **ADO.NET 4.5** C# connectivity API. Allows for database connections through C#.
- JDBC 4.2 Type 4 JAVA connectivity API. Allows for database connection through JAVA.
- **ODBC 3.9** ODBC standard API for database connections.
- **3rd Party Utility Support** Allows for database reporting tools to be used to pull data from RDM such as Tableau, Microsoft Access, Microsoft Excel, etc.

 RAM Requirements: Minimum 300K, User configurable

Supported Platforms

- Microsoft Windows
- Linux, Embedded Linux (ARM)
- Mac OS X
- Green Hills Integrity
- Wind River VxWorks
- Wind River Linux
- Solaris
- AIX
- Barebones

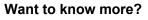
Modes of Operation

- Single-thread
- Multi-thread

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