



Raima Database Manager 14.2

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.

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
 - Geospatial Data
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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 migration from prior RDM versions can be done through import/export functionality.
- **In-Memory Performance Optimization** — RDM 14.2 will have a fully optimized architecture for memory resident databases to improve performance and offer additional benefits. The single-process/multi-thread application architecture will have additional performance features.

- **Dynamic DDL** - This feature is important 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 14 will further enhance programmer efficiency by offering a comprehensive and modern cursor API for database command, control and navigational access.

REST-ful Interface

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

- **CRUD:** (create, read, update and delete) operation to the database through simple HTML GET and POST operations support.
- **Diagnostics:** RDM engine status: memory usage, CPU usage, database size, table size, users connected, etc. are all retrievable through this interface.
- **Administration:** Database utility functions such as: database vacuuming and database consistency checks can be started through the interface as well

Geospatial Data Support

RDM 14.2 will have an updated R-tree index implementation specifically designed to be used for geospatial data. Additional query types supporting point, line, circle/radius and polygonal bounding boxes have been added.

Enterprise Package

All of the core features in addition to:

- **SQL** - SQL ISO 2012 standard support
- **SQL PL** - SQL Persistent Procedural Language is a major ease-of-use enhancement in RDM 14. This feature 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 pre-compiled batch of SQL statements to be executed together to perform a specific task.
- **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.

Partners:



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

- **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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