



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
- Administrative GUI
- Geospatial Data
- Time Series
- Replication

Core Package

Performance - Improved performance over previous versions 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.

Primary Key Performance Optimization - RDM 15.2 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 important to meet customer feature demand for the ability to create and alter database and table definitions, which enhances the customer application upgrade scenarios.

Our Partners



REST-ful Administrative 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

Time Series Data Support

RDM 15.2 will have a new generatable time series interface allowing full flexibility with storing vast amounts of data which is Fast Fourier Transformed over time.

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. 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 precompiled batch of SQL statements to be executed together to perform a specific task.

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.

Replication support - RDM 15.2 releases a high speed RDM to RDM replication API and utility.

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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