



What's New—

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:

- Multi-user Focused Storage Format
- Performance
- Geospatial Data
- REST Interface

Multi-user Focused Storage Format

The updated database file format will increase database throughput through a focus on locking contention prevention. It is designed to meet the following requirements:

- **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.
- **Upgradability:** Database upgradability with respect to database migration from prior RDM versions can be done through import/export functionality.

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.

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

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