



## What's New—

# Raima Database Manager 14.0

*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.*

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### Key Features:

- Next Generation Storage Format
  - Performance
  - Compression
  - Portability
  - SQL/Core Compatibility
  - Upgradability
  - In-Memory Optimizations
  - SQL/PL
  - Dynamic DDL
  - Comprehensive API
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### Next Generation Storage Format

The new database file format will decrease database size through variability and compression. It is designed to meet the following requirements:

- **Performance:** Improved performance over previous version of RDM and competitor products.
- **Compression:** Store only the data needed per row to avoid underutilized space. Also column level compression to increase the packing of rows and reduce overall data file size.
- **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. And 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.

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### In-Memory Performance Optimization

RDM 14 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.

### SQL/PL

SQL Persistent Stored Modules and Procedural Language are a major ease-of-use enhancement in RDM 14. This feature follows the ISO standard for SQL scripted procedures that are stored together with the database & available to all database users.

### 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, plus SQL connection and statement processing.