



# Raima Database Manager 14.1

*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
  - Compression
  - Portability
  - SQL/Core Compatibility
  - Upgradability
  - In-Memory Optimizations
  - SQL/PL
  - SQL Triggers
  - Dynamic DDL
  - Comprehensive API
  - Third Party Replication
- 

## Core Package

- **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.
- **In-Memory Performance Optimization**—RDM 14.1 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 14.1 will further enhance programmer efficiency by offering a comprehensive and modern cursor API for database command, control and navigational access,

## SQL Package

All of the core features in addition to:

- **SQL PL** - SQL Persistent Procedural Language is a major ease-of-use enhancement in RDM 14.1. This feature follows the ISO standard for SQL scripted procedures and allows for programming constructs to be used purely through SQL.
- **SQL Triggers**— Triggers allow for SQL statements automatically fire before or after an INSERT, UPDATE, or DELETE SQL statement. RDM supports both row and statement level triggers and they also fire on both core and SQL API changes.

## Enterprise Package

All of the SQL features in addition to:

- **ADO.NET 4.0** - 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.
- **3rd Party Replication** - Allows for selective replication to and from RDM to and from any supported database vendor through Jumpmind's SymmetricDS

Partners:



**WIND RIVER**



### 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:** 64K (excluding BLOB or VARCHAR)
- **Maximum Fields Per Table:** No Limit
- **Security**  
AES Encryption with 128/192/256 bits

- **RAM Requirements:**  
Minimum 50K, User configurable

### Supported Platforms

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

### Modes of Operation

- Single-thread
- Multi-thread
- Multi Process

---

**Try it!**

Download a trial version:

[raima.com/downloads](http://raima.com/downloads)

---

## Want to know more?

Please visit our website for the latest news, product downloads and documentation:

[www.raima.com](http://www.raima.com)

---

Headquarters: 720 Third Avenue Suite 1100, Seattle, WA 98104, USA T: +1 206 748 5300

Europe: Stubbings House, Henley Road, Maidenhead, UK SL6 6QLT: +44 1628 826 800

