



RDM Server 8.3

RDM Server is Raima's extremely powerful Client/Server database management system, perfectly designed for business-critical applications that need a higher degree of server horsepower that provides greater concurrency, finer granularity of locking, a dynamic runtime architecture with built in encryption for security and a more complete and extendable SQL implementation.

Overview

This product provides C/C++ and SQL APIs and supports both network and relational data models. Databases can be disk resident, memory resident or a hybrid. RDM Server implements multi-user row-level locking, hot database backup and a fully ACID compliant transaction logging system with automatic crash recovery. The database library can optionally be run in-process with the application, eliminating client/server remote procedure calls. RDM Server is supported on most 32- and 64-bit enterprise and RTOS operating systems, and is today used in a wide range of applications for network management systems, medical equipment, financial services and telecommunication systems and more.

This Client/Server database management system supports signed and unsigned integer (8, 16, 32 and 64 bit), character string (UTF-8 and Unicode), floating point (32 and 64 bit), BLOB (binary large object), BCD (Binary Coded Decimal), date, time and timestamp. It also has native C/C++ support for structs and multi-dimensional arrays based on the above list of base types.

Key Benefits:

- Multi-Core Scalability
- Distributed Architecture
- Extraordinary Performance
- Proven Reliability
- Excellent Support

Performance Driven Features

- **Disk Resident, In-Memory or Hybrid Data Storage** - Databases can be disk resident, memory resident or a hybrid. The data definition language (DDL) supports mixing different storage types in order to optimize performance and manage data persistence.
- **Replication** - Active or Passive Replication maintains an identical copy of your database for application failover. The sub-system implements an asynchronous single master, multi-slave replication engine based on its client-server transports (including TCP/IP).
- **Dynamic Role Switching** - Extending the replication capabilities with fine grained server role control allows for applications to easily manage system failover scenarios.
- **Server Extensions: Custom Code** - Customize your code by using Server Extensions to run native code within the Server process space. This significantly reduces RPC overhead and allows your customized functions to be available to all users within your application family.
- **Dynamically Alter Tables** - Adds enhanced Dynamic DDL functionality with the capability to add or drop columns, modify column data types and size, rename columns, and add/drop foreign key.
- **Hitless Upgrades** - Manage a controlled software upgrade without disconnecting your clients for truly 24x7 operation.

Multiple APIs for Enhanced Usability

- **Navigational C API** - For well over 25 years developers have been using RDM's low-level C API of over 200 intuitive easy to use functions provides application developers with ultimate control of the database.
- **Standards Based ODBC API** - Following the ODBC standards Raima developed the ODBC API to provide developers with a familiar way to utilize the power of the RDM database engine.

Interoperability Features

- **ODBC 3.51 Driver** - Allows new client applications to be written and third party client applications like Microsoft Access, Crystal Reports, MS Excel and others to interface with RDM databases.
- **ADO.NET Driver** - A fully managed driver written in 100% pure C# that enables developers to easily create .NET applications with RDM databases.
- **JDBC 4 Type 4 Driver** - A call-level API for SQL-based database access to RDM databases. JDBC technology allows you to use the Java programming language to exploit "Write Once, Run Anywhere" capabilities for applications that require access to data on RDM databases now matter where they are.

Database Specifications

- **Maximum Databases Size:**
70 Quadrillion Bytes
- **Maximum Number of Keys:**
18 Quintillion per column
- **Maximum Number of Rows:**
18 Quintillion per table
- **Maximum Open Files:**
No Limit
- **Maximum Table Size:**
32k x 18 Quintillion = 576 EB

Data Types Supported:

- BLOBs
- Character
- Date
- DBADDR(ROWID)
- Decimal/Numeric
- Floating Point - 32bit and 64bit
- Integer - 8bit,16bit,32bit and 64bit
- Time
- Timestamp
- Unicode

Supported Standards:

- ANSI SQL-89 Level 2
- ANSI SQL-92 Partial
- Unicode
- XML

Supported Platforms:

- AIX
- FreeBSD
- HP UX
- Integrity
- Linux
- MAC OS
- QNX Neutrino
- Solaris
- Windows
- *Others Upon Request*

Want to know more?

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