

*The ultimate choice for embedded databases*

# Birdstep RDM Server 7.0

**Birdstep RDM Server 7.0 is an embeddable database management system employing a client/server architecture that is used when business critical information must be available immediately and reliably. Compatible with 32-bit and 64-bit platforms, RDM Server 7.0 is ideally suited for business critical applications found in network management, office automation, financial services and telecommunication systems.**

**Like all Birdstep RDM Database Management Systems, RDM Server is deployed with the developer's application, thus giving you control and predictability over the application's data management. The result of this is that RDM Server is completely transparent to the end user. And since our database management tools are embedded within your application, a database administrator is not needed!**

RDM Server provides you with maximum flexibility in deployment – whether you want to use industry standard interfaces or low level interfaces, Birdstep RDM Server puts you in control. Using Birdstep RDM Server 7.0, businesses can rely on the fact that their database applications will handle heavy peak user loads and transaction rates; along with Birdstep RDM Server's automatic recovery system, data integrity is impeccable. Some of the key benefits offered by Birdstep RDM Server 7.0 are:

- ***New Feature! VLDB Support***  
RDM Server can now handle amazingly 18 quintillion data records per table.
- ***New Feature! In-Memory Tables***  
Highly configurable in-memory support. The developer can now configure parts of its data model in memory or on persistent storage.
- XML Import/Export - Includes an XML Import/Export filter that easily accepts and provides XML documents.
- 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.
- Supports both native 32-bit and 64-bit systems in heterogeneous environments.
- Implements a 64-bit file system.
- A single-step migration utility to simplify updating previous RDM Server databases to RDM Server 7.0.
- Supports industry standard interfaces.
- Exceptionally fast local data retrieval alongside conventional client/server.
- Amazing architectural flexibility. Link your application directly to the engine libraries for unbeatable performance. Link to client libraries for remote access. You can do both concurrently for seamless hybrid operation.
- Enables thin-client and browser-based architectures through dynamic business/application specific extensions to the database server.
- Support for advanced hardware and operating systems such as SMP servers and multi-threaded operating systems.
- Provides 128-bit encryption security for applications where confidentiality is a must.

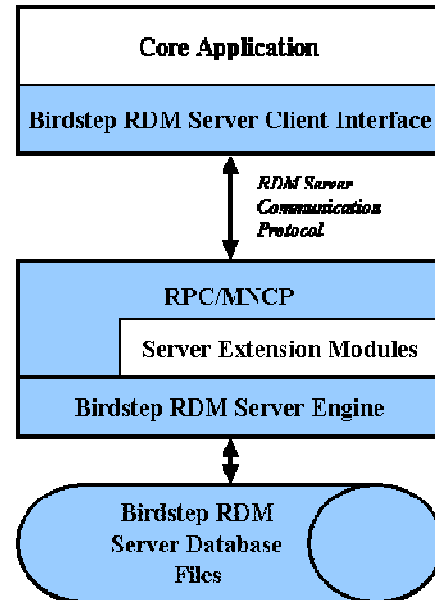
**Birdstep RDM Server is designed with features that specifically meet your business needs, giving you a strong foundation for application development with unique tools for performance enhancement and database customization.**

The architecture of a typical RDM Server client-server application is shown in the diagram. The shaded areas represent RDM Server components.

The core application consists of:

- The client-side program that accesses the server through the RDM Server client interface libraries. (For example, SQL and/or remote procedure calls.)
- The application-specific server extensions that run on the server.

Communication is provided by the Remote Procedure Call (RPC)/Server Multiple Network Control Processor (MNCP) interface.



#### Database Specifications

- **Maximum Database Size: 70 Quadrillion Bytes**
- **Maximum Number of Keys: 18 Quintillion per Column**
- **Maximum Number of Rows: 18 Quintillion per Table**
- **Maximum Open Files: No hard limit**
- **Maximum Table Size: 32K x 18 Quintillion = 576 EB**

#### Operating Systems Supported

- HP-UX
- AIX
- Solaris
- Windows
- Linux
- QNX Neutrino

#### Native Languages Supported

- C
- C++

#### Standards Supported

- ANSI SQL-89 Level 2
- ANSI SQL-92 Partial
- Unicode
- ADO.NET
- ODBC v3.51
- Type 4, JDBC 3.0
- PHP
- XML

#### Data Types Supported

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