

*optimized* **DATA MANAGEMENT**  
*to mobilize your business*

# Birdstep RDM Mobile 2.0

**A robust, reliable database specifically designed for wireless applications requiring ultra small footprint, minimum runtime memory usage, and high performance. RDM Mobile is ideally suited for portable devices such as Smart Phones, PDAs, and Electronic Notebooks.**

## **Why Developers Choose Birdstep RDM Mobile**

RDM Mobile 2.0 is the database of choice for mobile application developers. With its rich feature set, small size and supported platforms, RDM Mobile provides a superior data management platform for mobilizing business critical applications.

## **Mobilizing Business Critical Applications**

Developers choose RDM Mobile for wireless applications where size matters, memory is limited, and performance is essential. RDM Mobile has been designed from the start for mobile application developers. This means that RDM Mobile has very efficient indexing algorithms to ensure fast look-up of data even on systems with severely limited system resources. Some of the key features offered by Birdstep RDM Mobile 2.0 are:

- **Object Oriented Data Structure** – Can handle complex data types as is seen in today's mobile work place
- **Native API** – The application programmers can control the database manager using the methods provided through a set of interfaces to the objects that implement the database modules.
- **Transaction Handling** – Stability and consistency of data in the RDM Mobile database are assured through transaction

handling implemented with full respect of the "ACID" database properties.

- **Multiple Attribute Types** – The developer has flexibility to define their database that best optimizes their design goals.
- **Text Representation** – RDM Mobile utilizes its object-oriented data structure to store text strings in variable-length fields. Thus, RDM Mobile reaches a far better storage utilization than the comparable classic solutions.
- **Memory Mapped Database** – The RDM Mobile database manager supports all common types of persistent storage, including flash drives. The manager provides seamless mapping of the underlying medium to the memory, simplifying the use from the user space and improving efficiency at the same time.
- **Multiple Operating Systems Supported** – RDM Mobile supports the common wireless operating systems including Windows CE and Palm OS. Other operating systems can be supported upon request
- **Java Support** – A JNI will be available allowing developers to leverage the speed, performance and size of RDM Mobile with their Java applications.

RDM Mobile leads the way in mobile database products.

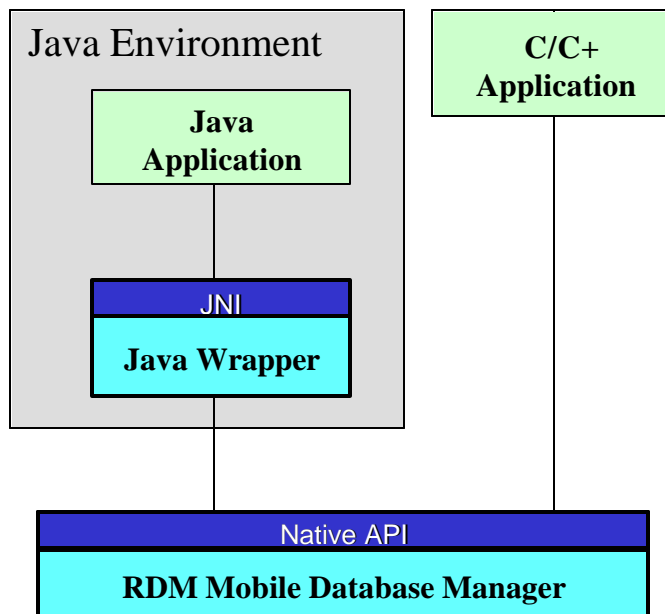


Figure 1: Overview of the RDM Mobile technology components.

With the RDM Mobile architecture, application developers can embed RDM Mobile in either C++ or Java applications.

#### Database Specifications

- Kernel Code Size: 256 kB
- Low runtime memory requirements
- Object-oriented data model, support for hierarchical data representation
- 32k symbols of 64 Bytes for class and attribute names
- Transaction support
- Unicode support, multiple encodings

#### Operating Systems Supported

- Windows 98/2000/XP
- RedHat Linux 7.1/7.2/7.3
- Windows CE 3.0 Pocket PC 2000 & 2002
- Windows CE 3.0 Handheld PC
- Palm OS 3.5

#### Native Languages Supported

- C/C++
- Java

#### Data Types Supported

- UCHAR (8 bit, unsigned)
- CHAR (8 bit, signed)
- USHORT (16 bit, unsigned)
- SHORT (16 bit, signed)
- ULONG (32 bit, unsigned)
- LONG (32 bit, signed)
- ULONG 64 (64 bit, unsigned)
- FLOAT (32 bit floating point)
- DOUBLE (64 bit floating point)
- OID (object identifier type)
- TEXT (variable length strings)
- BLOB (binary large objects with random access)
- BINARY (variable length binary data)
- DATETIME (platform-independent date/time representation)