

optimized DATA MANAGEMENT
to mobilize your business

Birdstep RDM Mobile 5.0

A robust, reliable database specifically designed for embedded and mobile computing systems with applications requiring ultra small footprint, in-memory operation, minimum runtime memory usage, and high performance. RDM Mobile is ideally suited for applications in Telematic Systems, Smart Phones, PDAs, Electronic Notebooks, and Industrial Controllers.

Why Developers Choose Birdstep RDM Mobile

RDM Mobile is the database of choice for mobile and embedded application developers. With its rich feature set, small size and supported platforms, RDM Mobile provides a superior data management platform for real-time and mobile applications.

Real-Time and Mobile Applications

Developers choose RDM Mobile for applications where size matters, memory is limited, and performance is essential. With its capabilities to model complex data models, its efficient indexing algorithms combined with its broad set of features makes RDM Mobile a natural choice for application developers.

Some of the key features offered by Birdstep RDM Mobile are:

- **SQL** – ODBC v3.51 like interface and utility to run dynamic SQL queries. You can mix native API for performance vs. SQL API for ease of use and dynamic query execution.
- **In Memory Mode** – The developer-selected in-memory mode will allow developers to use the database in systems where persistent data storage is not available.
- **Named Hierarchies** – Data objects can be stored in multiple hierarchical relationships removing the need for value and index based relationships. This flexibility allows for complex data modeling while increasing application performance.

- **Network Sets** – Performance is key. Make relationships through pointers instead of unnecessary data duplication and index's. Extreme flexibility in database design allowing data objects to have complex graph relationships mapping closer to your application design.
- **Object Oriented** – The database design capabilities allow for class definitions being overloaded. This allows for complex designs and efficient indexing schemes increasing performance while decreasing power consumption.
- **Non-Locking Dynamic Scrollable Cursors** – Provides the most flexible cursor system in today's embedded database market. Allowing for application flexibility and higher overall system performance.
- **Native API** – With over 150 API functions, application programmers can control the database manager to meet their specific application needs.
- **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 Data Types** – The developer has flexibility to define the database that best optimizes their design goals. This includes native support for true varchars and BLOB's.
- **Change Tracking** – If you need to synchronize your data you'll need this feature.

RDM Mobile leads the way in real-time and mobile database development.

Americas

Birdstep Technology, Inc.
2101 Fourth Avenue Suite 240 Seattle, WA 98121
Telephone: +1 206 748 5353
Fax: +1 206 748 5200
E-mail: americas@birdstep.com

EMEA

Birdstep Technology ASA
Bryggegate 7,N-0250 Oslo Norway
Telephone: +47 90628326
Fax: +47 24134701
Email: lpagni@birdstep.com

www.birdstep.com

Database Specifications

- **Kernel Code Size: 256 kB**
- **Low runtime memory requirements**
- **Object-Oriented Data Model Support**
- **Hierarchical Data Model Support**
- **Network Data Model Support, and**
- **Relational Data Model Support**
- **Transaction support**
- **Unicode support, multiple encodings**

Data Types Supported

- **Unsigned Character**
- **Signed Character**
- **Unsigned Short**
- **Signed Short**
- **Unsigned Long**
- **Signed Long**
- **Unsigned Long64**
- **Float**
- **Double**
- **Object Id**
- **BLOB (Binary Large Objects)**
- **Binary**
- **Date**
- **Time**
- **Date Time**

Operating Systems Supported

- **Windows**
- **Linux**
- **QNX Neutrino**

Native Languages Supported

- **C++**

Americas

Birdstep Technology, Inc.
2101 Fourth Avenue Suite 240 Seattle, WA 98121
Telephone: +1 206 748 5353
Fax: +1 206 748 5200
E-mail: americas@birdstep.com

EMEA

Birdstep Technology ASA
Bryggegata 7,N-0250 Oslo Norway
Telephone: +47 90628326
Fax: +47 24134701
Email: lpagni@birdstep.com

www.birdstep.com