

## What's new in RDM Embedded 8.0?



RDM Embedded is a powerful, cross-platform, small footprint database designed for resource-constrained environments with demanding performance requirements. RDM Embedded's legacy has 20+ years of history, over 20 million installations, and more than 20 000 developers; the product has found itself successfully embedded into applications in all major industries.

The competitive edge RDM Embedded gives embedded applications its extreme transaction rate and complex data modeling capabilities, solving the most complex applications without draining power or resources.

The database offers a strong foundation for application development with tools for performance enhancement and database customization. RDM Embedded v8.0 continues this legacy by adding critical features for many users and developers.

New features added to this release include:

**In-Memory Database Support** – Adding in-memory database capabilities adds an extreme amount of flexibility to an embedded db system. Our already state-of-the-art embedded database technology can now be configured to run completely diskless or in hybrid mode where the application designer puts part of their implementation in-memory and other parts on-disk. As RAM is getting cheaper in-memory databases are getting increasingly popular. Combining both traditional disk based database operations with in-memory db operations in a single system allows for extreme performance and flexibility.

**True Varchar Support** – RDM Embedded now adds support for an efficient implementation of storing variable sized strings. Fast embedded database engines implement fixed sized records, but with this new addition RDM Embedded combines the fixed sized records proven over the last 20+ years of deployment with a high-performance variable sized string implementation.

**Development Tools Additions** – With the addition of a clustering and de-fragmentation tools the RDM Embedded toolkit just got even more impressive. In its class of embedded databases RDM Embedded offers the most extensive development kit, with over 20 tools and utilities. Ease of development, deployment, and maintenance of your application just got easier.

**Sparse Indexing Support** – Embedded database engines are all about data indexing. For on-disk efficiency a data index is a duplicate but ordered instance of your data. Duplication of data steals both CPU and I/O cycles, so to avoid this overhead RDM Embedded adds a user configurable sparse indexing system for strings. The sort order of most strings is usually resolved by comparing the first few bytes of the data. This feature addition allows you to accomplish just that, including only the number of bytes needed to resolve the string ordering in your index nodes. If the indexing sub-system requires more bytes, it will find them in the already referenced data nodes.

Complete list of Embedded  
Database Products:

<http://www.birdstep.com/database/products/>

Free RDM Embedded v8.0 SDK:

<http://www.birdstep.com/database/products/RDM-Embedded/SDK-Download/>

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