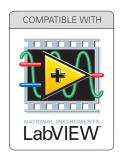# Raima Database API for LabVIEW

Raima Database API for LabVIEW is an interface package to Raima Database Manager (RDM), which is a high-performance database management system optimized for operating systems commonly used within the embedded market. Windows, NI Linux Real-Time and RT VxWorks (on the CompactRIO-9068 and CompactRIO-9024, as well as Single-Board RIOs) are supported in this package. The database engine has been developed to fully utilize multi-core processors and networks of embedded computers. It runs with minimal memory and supports both in-memory and on-disk storage. RDM provides Embedded SQL that is suitable for running on embedded computers with requirements to store live streaming data or sets of configuration parameters.

- **Multi-Core Scalability-** Efficiently use threads with transaction processing to take advantage of multicore systems for optimal speed.

- **Multi-Versioning Concurrency Control (MVCC)** - Implement read-only transactions to see a virtual snapshot of your embedded database while it is being concurrently updated. Avoids read locks to improve multiuser performance.

- **Store Databases on RT Device, In-Memory or On-Disk -** Configure your database to run completely on-disk, completely in-memory, or a hybrid of both. Local storage allows disconnected and/or synchronized data operation.

- **Windows/cRIO Interoperation -** Use a database from both Windows and cRIO concurrently.

- **Share/Use Databases** - A cRIO database may be shared, other cRIOs on same network can use it.

- **True Global Queries -** Multiple shared databases may be opened together and queried as though they are one unified database.

- **LabVIEW Native Interface for Windows or VxWorks** Program and test your LabVIEW program on Windows, then move it to VxWorks for operation. Native Interface is based on ODBC API.

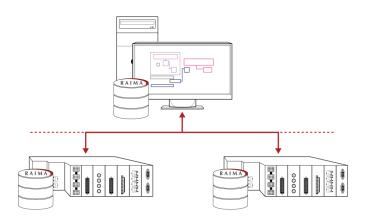- **Security** - Select AES 128, 192 or 256 bit encryption.

Partners:

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LabVIEW

Key Benefits:

- Local RT Database
- LabVIEW VI Interface
- High Performance
- Interoperation
- Multi-Core Scalability
- AES Encryption

Learn more about Raima Database API for LabVIEW:

www.raima.com/ni

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