



## D H A R M A **.NET SDK**

Query Technology for  
Application Developers

### Dharma's .NET SDK

Dharma's SDK for .NET is the fastest route to advanced query technology for your information. In only days you can begin accessing your data from popular tools or integrating it into your web strategy.

Dharma's .NET SDK is a fully supported solution with high-end SQL functionality and optimizations for high performance. Dharma's .NET SDK inherits its power and rich functionality from Dharma/SQL, a data access standard among leading DBMS software packages. Optimized joins, fast SQL execution and optimal use of your data source through push down capabilities give you the performance and capability demanded by your users. Our simplified custom interfaces and metadata implementation reduce programming time and speed time to market.

It meets the requirements of users and developers who want to take advantage of advanced features in decision support and reporting tools. Dharma's .NET SDK offers both telephone and e-mail support.

### Getting the Job Done

A high performance .NET Data Provider for your application doesn't mean you have to spend months in development, acquisition or support processes. Dharma's ease of implementation is complimented by our straightforward contracts and engineer-to-engineer support practices-making us the right partner to help your organization solve its data access problems.

### Highlights

#### Reduced development time

- Streamlined interface eases programming
- Simplified metadata implementation
- Lower overall development cost

#### Performance to meet your customers' needs

- Optimized joins for fast execution
- High speed SQL engine
- Optimal use of data source capabilities
- Dynamic indexing to speed sorting

#### Ease of use for your customers

- .NET 1.1 compatibility
- Use industry standard tools
- Robust functionality simplifies queries

### Multiple Interfaces, One Coding Task

The code you write is the glue between Dharma's SQL technology and your data source, so the same code provides the only implementation you need for ODBC, JDBC or a .NET Data Provider.



## Fast Implementation - 5 Days

### Day 1: Design Metadata Mapping

Outline how data is stored and accessed in your application database by considering: the underlying design philosophy of the database, how the applications access the data, the internal layout of database fields and records, the types of access methods and navigation elements in your database, and the available application programming interface (API) to your database.

Develop a strategy for relational mapping to your proprietary data by defining a set of relational tables and columns that correspond to your proprietary data and a set of relational indexes that correspond to your access methods and navigation elements.

### Day 2: Implement Metadata

Implement the metadata by installing the Dharma .NET SDK components, creating a SQL script that defines mapping and loading the metadata into the Dharma .NET SDK.

Access your metadata through any .NET interface.

### Day 3: Implement Read Access to User Data

Fill in the storage interface templates to call API routines supported in your database.

Retrieve data in your database using .NET.

### Day 4: Indexed Access to User Data

Increase performance by filling in the templates that define the properties and types of indexes available in your database and access database records based on index keys.

You now have optimal read access to your database through any .NET interface.

### Day 5: Implement Write Access to User Data

(optional) Fill in the storage templates that insert, delete, and update table and index records, as well as provide any required transaction behavior.

## Functionality & Optimization Highlights

- SELECT/INSERT/UPDATE/DELETE
- Query rewrite optimization queries
- Transaction support
- Static or dynamic metadata management
- Over 100 scalar functions
- Interactive SQL utility
- CASE expressions
- Outer Joins
- User authentication
- Derived tables
- Subqueries
- View support
- Metadata caching
- Data pipelining
- Dynamic indexing
- SQL caching for repeated statements
- 20 SQL data types including LONG and DATE

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Dharma .NET SDK

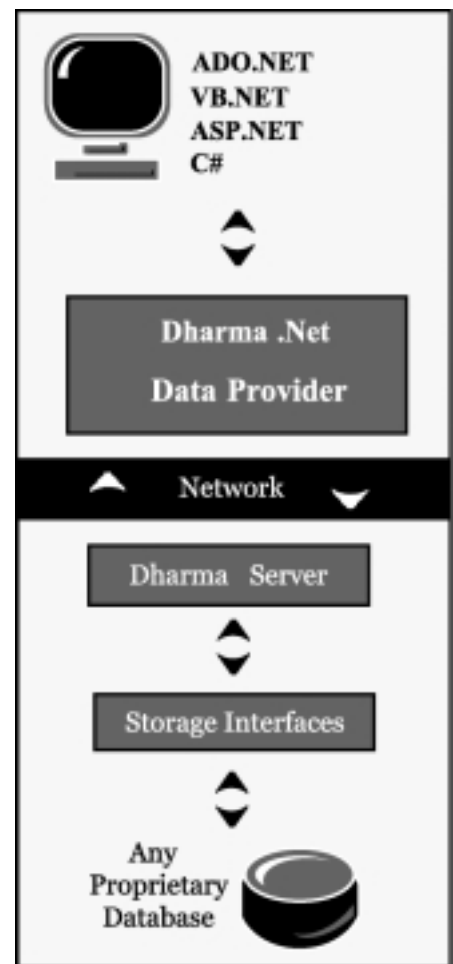
Current Version: 9.0

Latest Release: September, 2004

### Supported Operating Systems:

- Windows XP
- Windows 2000
- Windows NT
- Sun Solaris
- IBM AIX
- SCO OpenServer
- HP-UX
- Linux

Client Side



Server Side

