



**SIMBA**<sup>®</sup>  
BY MAGNITUDE

## SimbaEngine<sup>®</sup> SDK ODBC & JDBC Driver Development Environment

Reduce time-to-market, risks and development cost for your  
custom ODBC, JDBC, ADO.NET, and OLEDB drivers

### SOLUTION OVERVIEW

SimbaEngine SDK increases developer productivity and allows you to build custom ODBC & JDBC drivers in as few as five days. The same SimbaEngine Software Development Kit (SDK) that our Simba engineering team uses to develop drivers is available for you to develop your custom ODBC/JDBC driver for any SQL-enabled or NoSQL data source. With SimbaEngine SDK – created by the connectivity innovators at Simba – you reduce cost, complexity, risks and time to market compared to developing a driver from scratch.

#### The SimbaEngine SDK provides:

- **Speed of development** – Develop a driver proof-of-concept in just five days.
- **Flexibility** – Deploy your driver as a client-side, client-server or cloud solution.
- **Extensibility** – Connect your applications to any data source, be it SQL, NoSQL or proprietary.
- **Proven** – Partners like Cloudera, Microsoft, Teradata, SAP, Hortonworks and MapR embed SimbaEngine-developed drivers in their own products.
- **Leading standards support** – SimbaEngine SDK was the first in the industry to support ODBC 3.8 and JDBC 4.2, and as the developers of ODBC our Simba connectivity experts are on top of new standards.

### Benefit Highlights

**Extensibility** – Build a simple data driver or provider, and then add features like client/server or advanced functionality whenever you want.

**Performance** – SimbaEngine X's robust SQL Engine and advanced functionality – such as Collaborative Query Execution and pass-down filters, joins, aggregations, sorts, order bys, distincts, and projections, and high-performance Client/Server network protocol – result in superior performance.

**Compatibility** – Simba takes care of your data driver or provider's compatibility with the latest platforms, data access standards, and desktop reporting and analysis tools.

**32 & 64-bit Support** – SimbaEngine X natively supports both 32-bit and 64-bit platforms. In addition, 32-bit and 64-bit platforms will interoperate across the client/server connection.

**Unicode** – Take advantage of built-in support for Unicode to provide access to your data store anywhere in the global marketplace.

**Template Development Approach** – Get a prototype data driver or provider up and running in five days with our easy-to-use sample driver templates and 5-day development guides.

**Leverage Simba's Test Suite** – Simba's engineers perform millions of tests for each release using our extended test suite, so you can be sure of the quality of your data driver.

**Comprehensive Documentation** – Receive a full suite of documentation, including a developer's guide, QuickStart guides, and technical reference materials.

## Feature Highlights

- New pure Java SQL Engine.
- Numerical precision library enhancements.
- Sample driver improvements on Mac OS X.
- JDBC 4.0, 4.1 and 4.2 support.
- ODBC 3.8 support, including asynchronous execution.
- ADO.NET support.
- OLE DB support for Xcode, Visual Studio, and Windows 10.
- Performance improvements in the C++ SQL Engine.
- SimbaClient and SimbaServer performance and configuration improvements.
- Tutorial-style and technical reference documentation.
- Driver manager auto-configuration.

## Product Specifications

### Stand-alone Data Driver & Server Platforms:

All SimbaEngine X components support 32 and 64-bit versions of Windows, Linux, Solaris, AIX, HP-UX, Mac OS X and iOS.

### Client Platforms:

SimbaClient for ODBC supports the 32 and 64-bit versions of Windows, Linux, Mac OS X, AIX, HP-UX, and Solaris. SimbaClient for JDBC supports all client operating systems running a Java Virtual Machine (JVM) 1.6 or above.

### Development Software:

**Windows:** Microsoft Visual Studio 2013/2015/2017

**Linux:** GNU Compiler environment

**Mac:** Xcode Clang 5.x/6.x/7.x/8.x

**UNIX:** For all platforms, the native compiler is supported

### BI Tool Support:

Any ODBC or JDBC-capable application, including Excel, Microsoft Power BI, MicroStrategy, SAP Cloud for Analytics, QlikView, Tableau.

## Summary

With the easy-to-use SimbaEngine SDK, from Magnitude's Simba connectivity team, you can build a prototype read-only data driver in a few days and have a production quality read-write data driver ready to ship soon after. Your data driver can be used in desktop or client/server environments. When you license SimbaEngine SDK, you get all client and server components. You can develop your data driver on Windows, OS X, UNIX or Linux.



Simba is the industry choice for standards-based data access and analytics solutions, and for innovation in data connectivity, such as with Magnitude Gateway. Our reputation as the connectivity pioneer means we're the preferred partner for SDKs – ODBC and JDBC – and our technology is embedded into today's most popular BI and analytics applications. A subsidiary of Magnitude Software, the unified data application management leader, Simba provides connectivity solutions that are pivotal to the vast operational efficiencies delivered by the Magnitude portfolio of products.

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