



MySQL™ Connectors

Providing support for the widest range of operating systems, languages, and standards

Highlights

- Provides diversity of support, including multi-language and multi-platform
- Supports industry standards for drivers and APIs
- Includes SSL support and other security features
- Enjoys broad industry support
- Delivers enterprise-grade reliability and scale
- Includes development tool integration on many connectors
- Offers supported, low- to no-cost solutions
- Offers ISV/OEM/Embedded licensing

➤ When selecting a database server, you want to be sure that it includes quality APIs and drivers for the languages and platforms you require. MySQL™, the world's most popular open-source database, is a developer favorite in part because it includes more than 30 possible solutions based on 11 core technologies for more than 20 languages and platforms across a multitude of operating systems. Its core connectors are developed and maintained either directly by MySQL or developed within the MySQL community, and all are reliable, cost-effective, tested, and supported by Sun.

Other database platforms often don't have the breadth of connectivity options that are available from MySQL; they don't support as many operating systems, languages, or standards or they only support them secondarily. A number of database servers require the use of third-party commercial connectivity products — which can often lead to support issues between the client API vendor and the database vendor, leaving you with unsolved technical requests or issues.

MySQL connectors provide connectivity to the MySQL server for a wide range of client programs. MySQL APIs deliver low-level access to the MySQL protocol and MySQL resources. Both the connectors and the APIs enable you to connect and execute MySQL statements from another language or environment, including Java™ DataBase Connectivity (JDBC), ODBC, Perl, Python, PHP, Ruby, and native C/C++ and embedded MySQL instances.

With MySQL, you can rest assured that whatever your current or future development language, middleware, data management tools, or platforms, MySQL offers database connector technology that supports your needs.

Broad cross-platform support

Developers and administrators with platform-specific skills can be productive immediately because MySQL connectors run on more than 20 platforms including Linux, the Solaris™ Operating System, Windows, OS/X, HP-UX, and AIX. In many cases, MySQL also includes extensions that directly support specific development tools and IDEs.

Simple, efficient connection handling

With MySQL's optimized connection handling, the database typically does not require complex connection pooling to deliver scalability.

With many other databases, each connection between applications and the database server can heavily tax resources. As a result, creating and destroying connections is slow. Developers often resort to coding more advanced connection methods to reduce the number and frequency of connections, increasing code complexity and costs. MySQL provides very fast, low-overhead connections that allow you to keep your code simple in most cases.

High availability

MySQL ensures the highest levels of reliability, security and uptime. With well-built code that is tested both internally and by the community, and is used on some of the most demanding, high-traffic Web sites and products, MySQL is the most popular open-source database in the world.

Middleware framework support

MySQL has also become the database of choice for a new generation of applications. Development languages frameworks define data access layers, contain extensions, or include additional frameworks or abstraction layers that access databases. MySQL supports the tools within development languages that support database access and management, whether it is a LAMP stack (Linux, Apache, MySQL, PHP/Perl/Python), jdbc, jdo, jmx, linq, or PDO.

Proven for enterprise workloads

MySQL connectors are a proven commodity — and MySQL is the primary database behind the Web, which is increasingly being powered by open-source software. Whether your goal is to build scaled-up, high-traffic, traditional Web sites or scaled-out Web 2.0 architectures, support traditional ISV/OEM businesses for ERP, CRM, or mission-critical financial or health care systems, or build SaaS-based applications, the latest cloud computing platforms, or the latest telecom application, MySQL connectors are the link between the applications and the backend MySQL database driving them.

Support for SSL-encrypted connections

For applications that require the security provided by encrypted connections, MySQL supports Secure Socket Layer (SSL), which provides

access to databases over a secure connection and protects your data from unauthorized eavesdropping or end-user impersonation. MySQL also gives you the ability to mix SSL and non-SSL connections, thus minimizing overhead.

Affordable and supported

MySQL helps you to reduce licensing costs and cut downtime through MySQL Enterprise support provided by Sun. With MySQL, there is no need to purchase expensive third-party connectivity components.

Secured connection access

Controls can limit database connections using both user- and requesting-server identity. MySQL's GRANT statement enables you to require SSL for certain data access, thus ensuring protected data must be transferred over encrypted sessions.

Licensing

Connectors developed by MySQL are “dual-licensed” products; that is, they support both open-source licenses as well as commercially licensed options for the OEM market. Community-developed connectors use various open-source licenses.

Conclusion

MySQL connectors provide a full set of drivers and APIs for connecting applications and platforms with MySQL databases. From high-level protocol support to low-level APIs, across a variety of languages and environments, MySQL connectors offer developers and architects the solutions they need, regardless if they're just getting started, scaling up, or scaling out.

Learn more

To learn more about MySQL connectors, visit <http://www.mysql.com/products/connector/>

To find out more about MySQL development, visit the MySQL Dev Zone at <http://dev.mysql.com/usingmysql/> or MySQL Forge at <http://forge.mysql.com/wiki/Category:MySQLDevelopment>

For more information

To keep up with the latest trends, register and subscribe to our newsletter at <http://www.mysql.com/login/>

If you have questions, please contact us at <http://www.mysql.com/about/contact/>

MySQL Connectors technical specifications

Industry Standards

- JDBC Type 4 — pure-Java implementation of the MySQL protocol
- ADO.NET interfaces and integrates into ADO.NET aware tools
- ODBC API compliant

APIs and Interfaces

Ada, C, C++, Cocoa, D, Eiffel, Erlang, Haskell, Java/JDBC, Kaya, Lua, .NET, Mono, Objective Caml, Octave, ODBC, OpenOffice, Perl, PHP, Python, Ruby, Scheme, SPL, Tcl, VB