

# MySQL® Application Protocol

*Ensure the Performance of Network Devices Handling MySQL Database Transactions*

MySQL (pronounced “My Sequel”) is an extremely popular open-source relational database management system. MySQL has seen rapid growth and market adoption since its original creation in 1994 by Michael Widenius, Allan Larsson and David Axmark. Soon after the original development, MySQL AB was formed by the original developers to own and maintain the MySQL source code. While MySQL is open-source and available for general use at no cost, MySQL AB is a for-profit organization that provides additional product and service offerings that complement the original functionality of MySQL. MySQL AB was acquired in February 2008 by Sun Microsystems for nearly \$1 billion.

The increased market penetration of MySQL has been largely attributed to the adoption of the “LAMP” stack for web applications. Standing for “Linux, Apache™, MySQL, PHP/Perl/Python™”, LAMP has become the standard stack for developing next generation web applications. The major advantage of the LAMP stack is that all of the components are available for free under open-source licensing structures.

The popularity of MySQL has further been fueled by its use in some of the world’s largest and most popular web portals including Yahoo!®, Google®, YouTube®, Flickr®, Facebook®, and Wikipedia.

BreakingPoint Elite is able to quickly and easily generate network traffic that replicates MySQL database transactions. Pre-defined actions are available for database login, issuing queries and returning data from the actual database. Utilizing BreakingPoint Elite to generate MySQL traffic on your network has multiple benefits. Many e-commerce applications utilize MySQL databases to store and track customer purchases. When testing your network infrastructure, performance will be a key metric that will help to prevent a loss of sales due to network issues. Utilizing BreakingPoint Elite’s blended native application protocols, users may quickly and easily simulate e-commerce transactions to ensure the utmost performance and reliability when deployed in a production environment.

## **BreakingPoint Testing Tools Emulate the MySQL Protocol:**

- BreakingPoint emulates the most popular open-source relational database management system, MySQL, with a single, easy-to-use testing unit.
- Simulate the DNS resolution of the MySQL server combined with database queries, responses and HTTP requests to fully emulate an e-commerce application
- Fully test the impact of MySQL traffic on your network devices under full load with a mix of other blending applications present on your production network.