

Description: Guide to using MySQL with BridgeWorX.

OS Requirement: Win XP/Server 2003/ Server

2008/Vista/Windows 7

General Requirement: Knowledge of BridgeWorX and MySQL database client/server.

Introduction

BridgeWorX version 9.x supports transactions to and from MySQL databases. . ICONICS has tested MySQL Server 5.1.34 (MySQL Server 5.1.42 x64) and ODBC Driver 3.51.09 (and 5.1.05) with version 9.x of BridgeWorX. You can download these for the Windows platform from <http://dev.mysql.com/downloads>.

This document will guide you through the steps required to create a data source to connect to your MySQL database.

MySQL Database Server Setup

MySQL 5.1 is available as a service. ICONICS recommends this setup, and the option is available for you to check when you configure your instance in the MySQL Server Instance Config Wizard, which also automates many other tasks. All you need to do is go through the wizard to configure it as a service.

MySQL 5.1 also provides a command-line application. You can launch it by going to Start → Programs → MySQL → MySQL Server 5.1 → MySQL Command Line Client. Alternatively, you can use command prompt (cmd) to launch it.

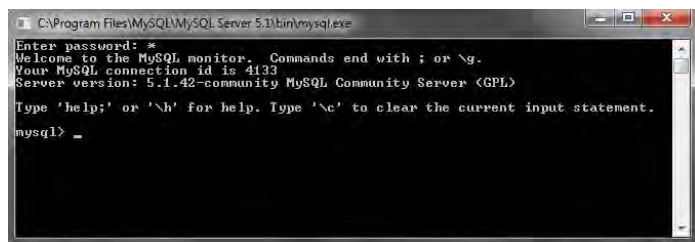


Figure 1 - MySQL Command Line Client

MySQL Database Client Side Setup

BridgeWorX requires the installation of the MySQL ODBC driver on the BridgeWorX server in order to connect to the MySQL Server.

Since there are various MySQL database server versions available, the level and type of connectivity may vary depending on the version of MySQL database server you are using.

BridgeWorX does not require any MySQL client applications to connect to the MySQL Server.

Establishing an ODBC Connection

1. Launch BridgeWorX Configurator by going to Start → Programs → ICONICS BizViz → BridgeWorX → BridgeWorX Configurator.
2. Expand Data Connectors → Database Connectors.
3. Right-click on Database Connectors and select New → Data Connector.
4. Give the connector a name and an optional description.
5. Click on the “Database Login” button to bring up the Database Connections Browser.
6. In the right-hand pane, right-click on ODBC Connections and select Insert New Connection.

NOTE: Database Connections are now shared between BridgeWorX and ReportWorX, so if you have already configured some MySQL connections using ReportWorX, you will be able to easily reuse those here in BridgeWorX as well.

7. In the Select Data Source window, click on the Machine Data Source tab and add a new source by clicking on the “New...” button.
8. In the Create New Data Source window, select System data Source and click on “Next”.
9. In the next screen, scroll to the bottom and select the MySQL ODBC Driver and click on “Next”.

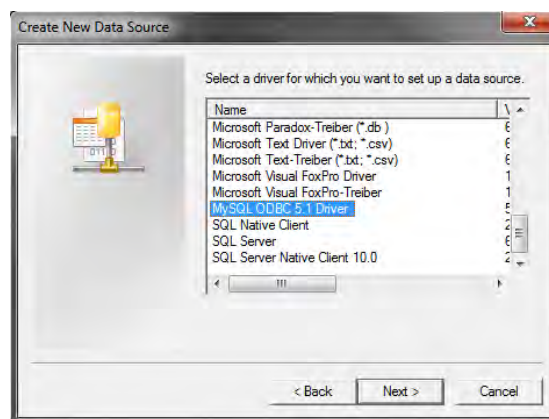


Figure 2 - MySQL ODBC Driver

10. Click on “Finish” in the next screen. The Add Data Source Name window for MySQL will come up.
11. Give the data source a name, an optional description, the server name, the database you want to connect to, and the username and password that you want to use to connect to the database, as shown in Figure 3.

BridgeWorX – Configuring Transactions with MySQL



APPLICATIONS NOTE

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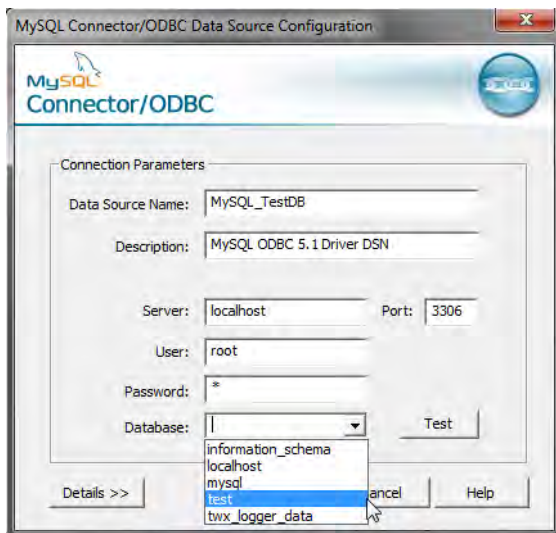


Figure 3 - MySQL Data Source Configuration

- Click on the “Test Data Source” button; you should get a successful message as shown in Figure 4. Click “OK” to acknowledge the message.

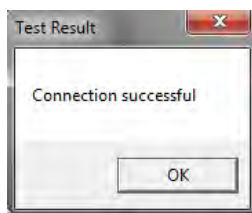


Figure 4 - Test Connection Successfully

NOTE: If you receive a failure message saying that the client does not support the authentication protocol, you can follow the instructions in <http://dev.mysql.com/doc/refman/5.0/en/old-client.html> to correct the problem.

- Click on “OK” until you are back in the Database Connections Browser after you have made a successful test connection.
- You will see another window similar to **Error! Reference source not found.** You can simply click “OK” or you can test the data source again before clicking on “OK”.
- Select the database connection you have just made, and click on “OK”.
- You should now see a connection string in the Database Server section.

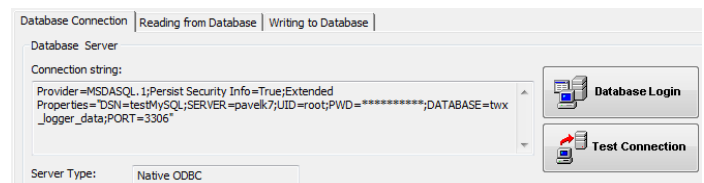


Figure 5 - Connection String in Configurator

- Select the Reading from Database Tab, click on the “Edit Command...” button, and select “Simple SQL Query Wizard” (or Advanced SQL Query Wizard if you wish).
- In the SQL Query Builder, select the target table from the database and click on the “Select All” button on the right to select all of the columns.
- You can also add filters if you desire. Click on “OK” when you are done customizing your query.
- The Query string will appear in the Command Text window.
- If you would like to write records into your MySQL database, click on the Writing to Database tab, select the type of operation and the table on which you would like to perform the operation. When you are done, you can click “Apply”.
- Your database connection is ready for use in a transaction diagram. For more information on how to create a transaction, please refer to the application note entitled *BridgeWorX – Quick Start* and *BridgeWorX - Transaction Diagram Designer Quick Start*.