

Description: Guide to creating a connection to MySQL.
OS Requirement: Win 2000/2003/XP/Server 2000/Server 2003
General Requirement: Knowledge of the MySQL database client and server.

Introduction

Genesis32 version 9.x supports communication to MySQL databases. ICONICS has tested MySQL Server 5.0 and ODBC Driver 3.51.09 with version 9.x of Genesis32, particularly with AlarmWorX32, TrendWorX32 and Data Mining modules. You can download these MySQL components 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 5.0 is available as a service and ICONICS recommends running it this way. This option is set when you configure your instance in the MySQL Server Instance Config Wizard, which also automates many other tasks.

MySQL 5.0 also provides a command-line application. You can launch it by going to Start → Programs → MySQL → MySQL Server 5.0 → MySQL Command Line Client. Alternatively, you can use a standard command prompt (Start → Run → “cmd”) to launch it.

```

C:\WINDOWS\system32\cmd.exe - mysql.exe --user=root --password=a
Microsoft Windows [Version 5.2.3790.1]
(C) Copyright 1985-2003 Microsoft Corp.

C:\Documents and Settings\Administrator>cd \

C:\>chdir C:\Program Files\MySQL\MySQL Server 5.0

C:\Program Files\MySQL\MySQL Server 5.0>mysql.exe --user=root --password=a
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10 to server version: 5.0.22-community-nt

Type 'help;' or '\h' for help. Type '\c' to clear the buffer.

mysql> _
    
```

Figure 1 - MySQL Command Line Client

MySQL Database Client Side Setup

GENESIS32 requires the installation of the MySQL ODBC driver 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.

Genesis32 does not require any MySQL client applications to connect to the MySQL Server.

Establishing an ODBC Connection

1. Launch the ODBC Data Source Administrator by going to Start → Settings → Control Panel → Administrative Tools → Data Sources (ODBC).
2. Go to the System DSN tab and add a new ODBC data source by clicking on the “Add” button.
3. Select the “MySQL ODBC 3.51 Driver” and click on “Finish”.

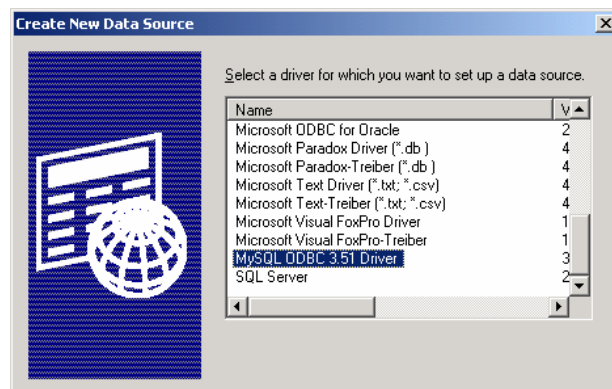


Figure 2 - MySQL ODBC Driver

4. Give the data source a name, an optional description, the server name, the database you want to connect to, and the user name and password that you want to use to connect to the database, as shown in Figure 3.

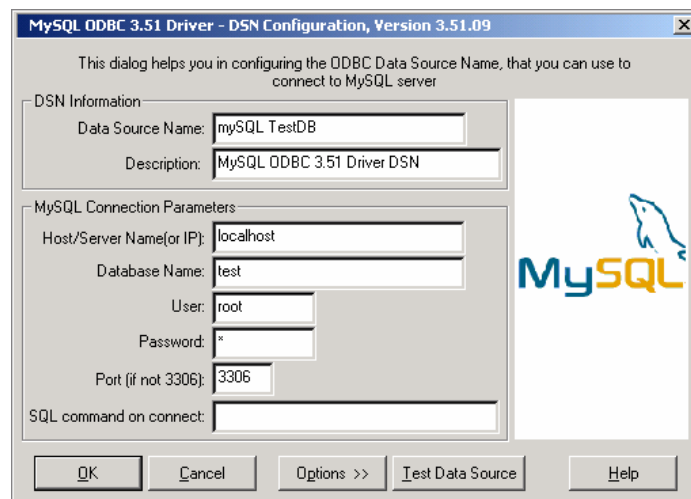


Figure 3 - MySQL ODBC Driver Configuration

5. 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

6. If you receive a failure message saying that the client does not support the authentication protocol, you can follow the instructions at <http://dev.mysql.com/doc/refman/5.0/en/old-client.html> to correct the problem. Another way to fix the problem is to install the MySQL Administrator and check the “Use old passwords” checkbox. Also make sure that your user has proper connection permissions from the machine you connect.

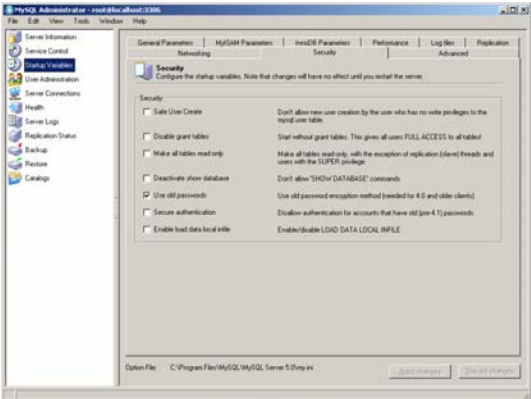


Figure 5 – Setting Old password support in MySQL Administrator

7. In addition, we recommend that MySQL be configured to utilize the InnoDB Database type because it ensures data integrity and reliability. This can be also set in MySQL Administrator under the “Service Control” item.

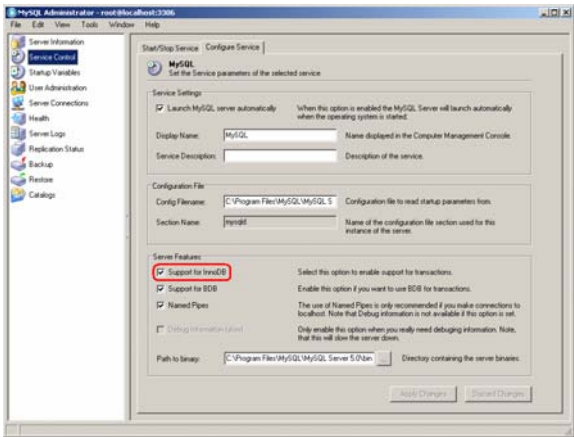


Figure 6 – Enabling InnoDB support

8. If the test succeeded, click “OK” to finish configuring the ODBC connection.
9. The ODBC data source is now ready for use across all GENESIS32 modules where ODBC data sources and MySQL is supported (i.e. AlarmWorX32 Logger, AlarmWorX32 Report, TrendWorX32 Logger, and Data Mining).