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**How do you connect the
Plant Automation
Accelerator or COMOS to
an SQL server?**

Plant Automation Accelerator / SQL Server

<https://support.industry.siemens.com/cs/ww/en/view/109751359>

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1 Introduction

Different databases can be used with PAA and COMOS. It is easiest and quickest to incorporate the local Access database. This is also the case in the as-delivered status. However, the maximum size of an Access database is limited so it is necessary to switch to the SQL database.

This FAQ response describes how to connect the SQL database first to the PAA or COMOS.

You can then import an Access database (Entry ID: [109751358](#)).

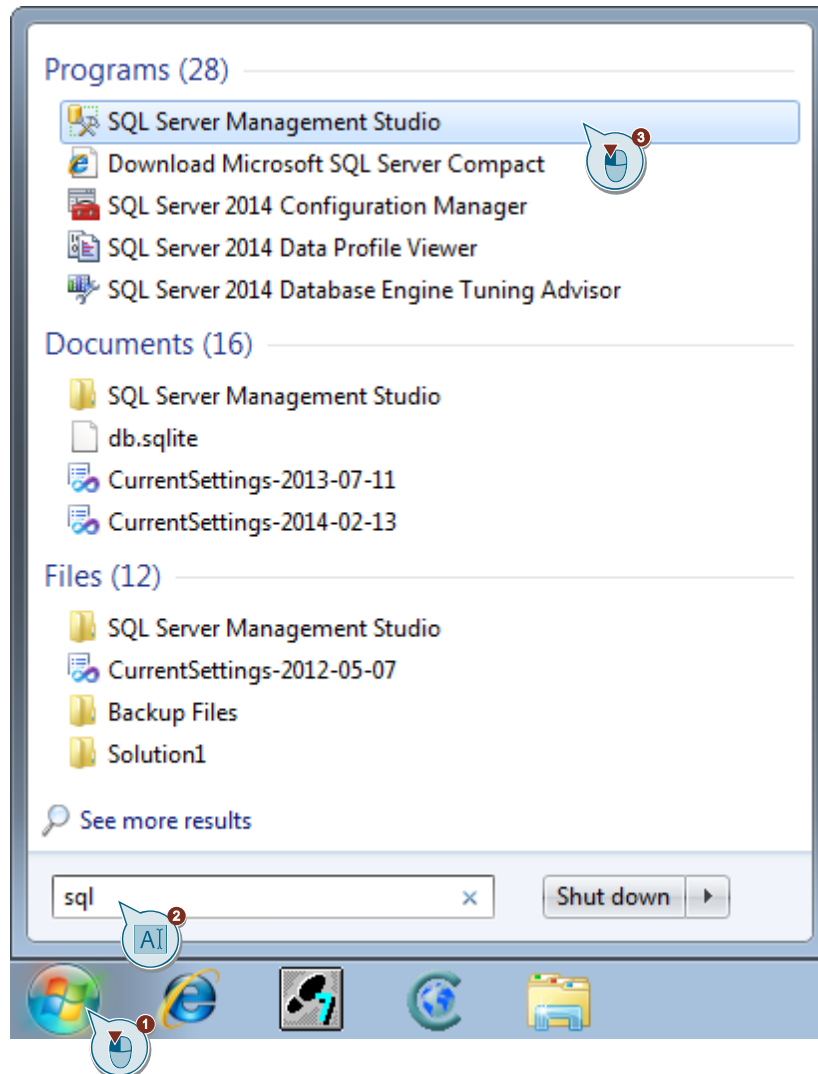
2 Creating an SQL Database

In this section we create a new SQL database step by step. For this we use an existing WinCC database engine.

CAUTION	This section gives an example of how to set up an SQL database. It is not permitted to use a WinCC database for Plant Automation Accelerator (PAA) / COMOS in productive operations. You must provide your own database engine with corresponding license.
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1. Open the SQL Server Management Studio. For this you click the Start menu and in the "Search" input field you enter "sql". Select the SQL Server Manager Studio from the programs displayed.

Figure 2-1



2 Creating an SQL Database

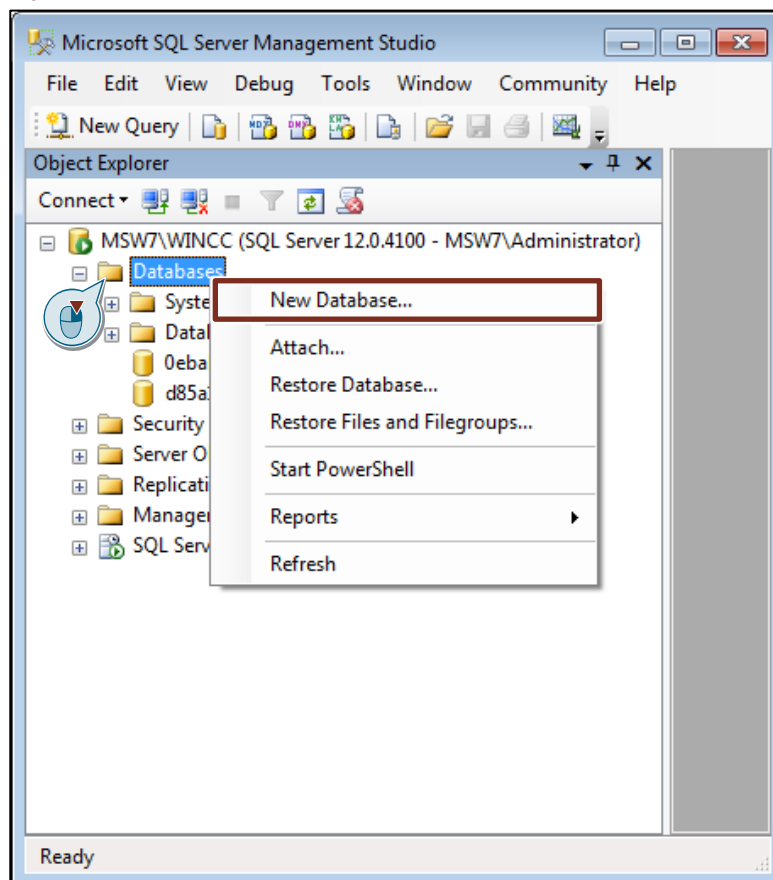
2. Click the "Connect" button.

Figure 2-2



3. Right-click "Databases" and select "New Database...".

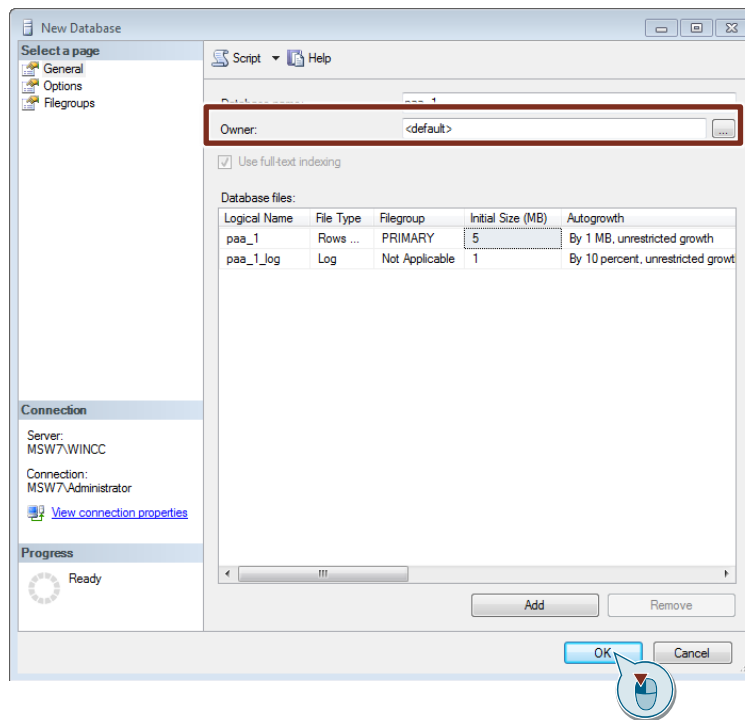
Figure 2-3



2 Creating an SQL Database

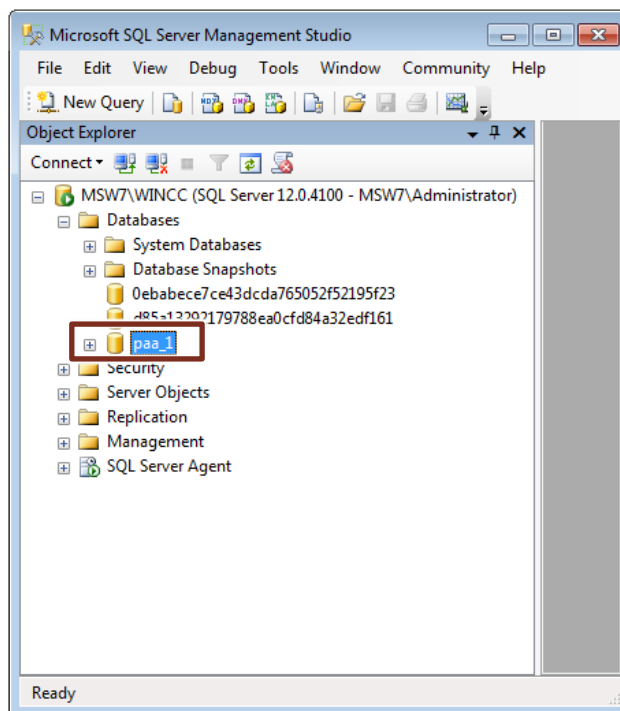
4. In the "Database name" input field you enter a name (in this FAQ response "paa_1") and then click the "OK" button.

Figure 2-4



5. The new database is created. Close the window.

Figure 2-5

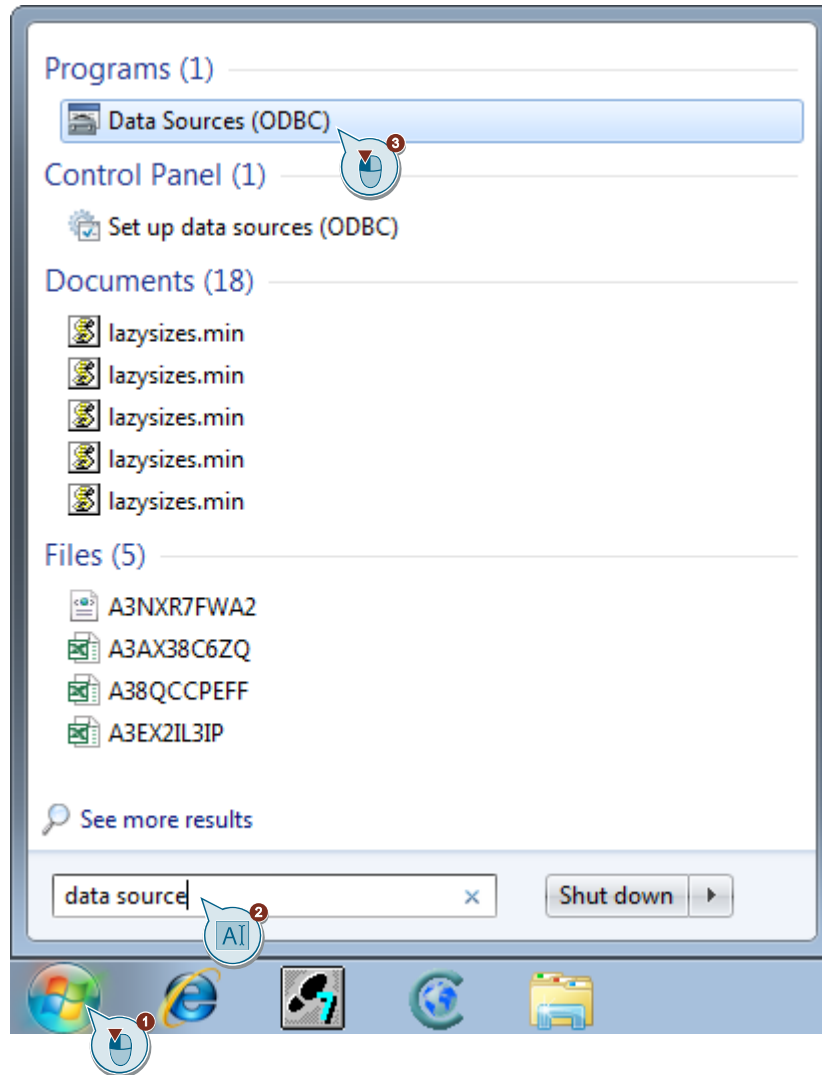


3 Connecting PAA/COMOS to the SQL Database

In this section we connect the PAA to the SQL database.

1. Open Data Sources (ODBC). For this you click the Start menu and in the "Search" input field you enter "data source".
Select Data Sources (ODBC) from the displayed programs.

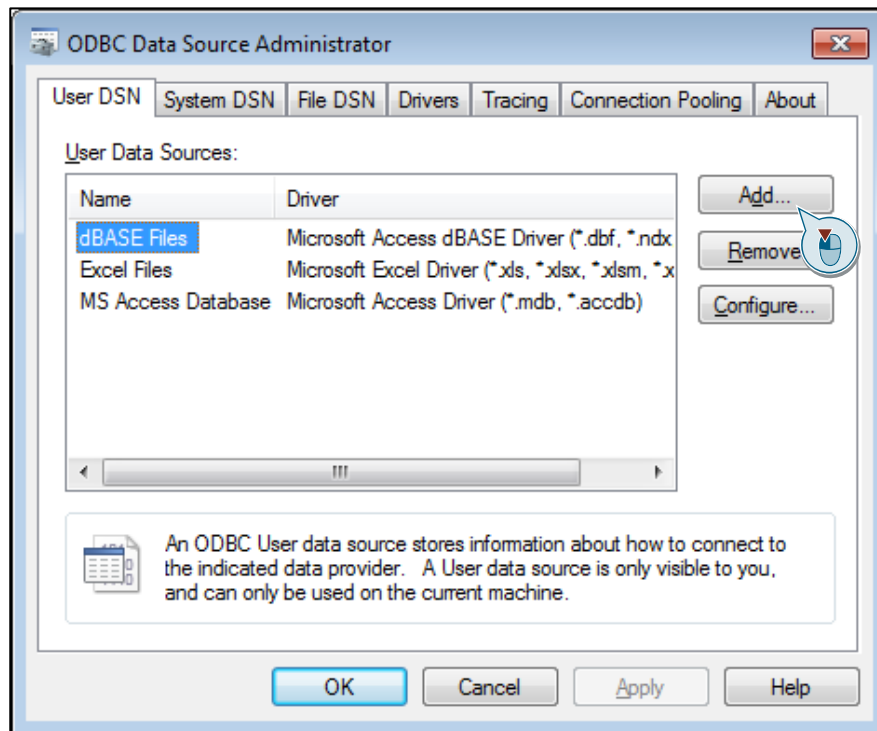
Figure 3-1



3 Connecting PAA/COMOS to the SQL Database

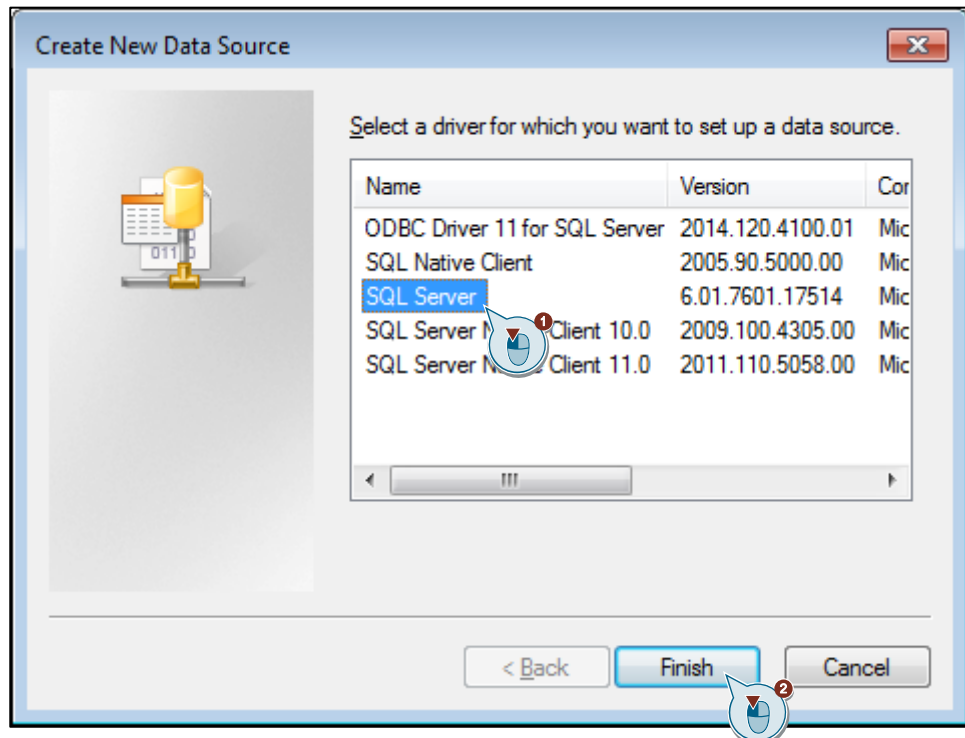
2. Click "Add...".
The dialog for creating a data source opens.

Figure 3-2



3. Select "SQL Server" in the list and then click the "Finish" button.

Figure 3-3

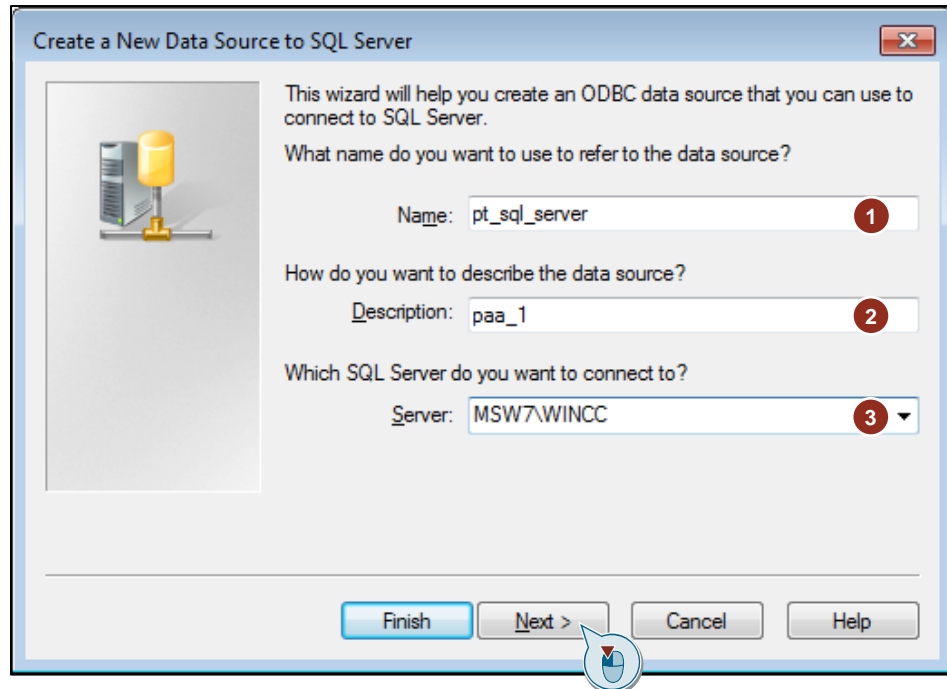


3 Connecting PAA/COMOS to the SQL Database

4. Enter the "Name" (1), "Description" (2) and "Server" (3) in corresponding input fields.
Click the "Next" button.

WARNING The name must begin with "pt_sql_server".
If you are using multiple servers, you can add an extension like "_1" or "_2" to "pt_sql_server".

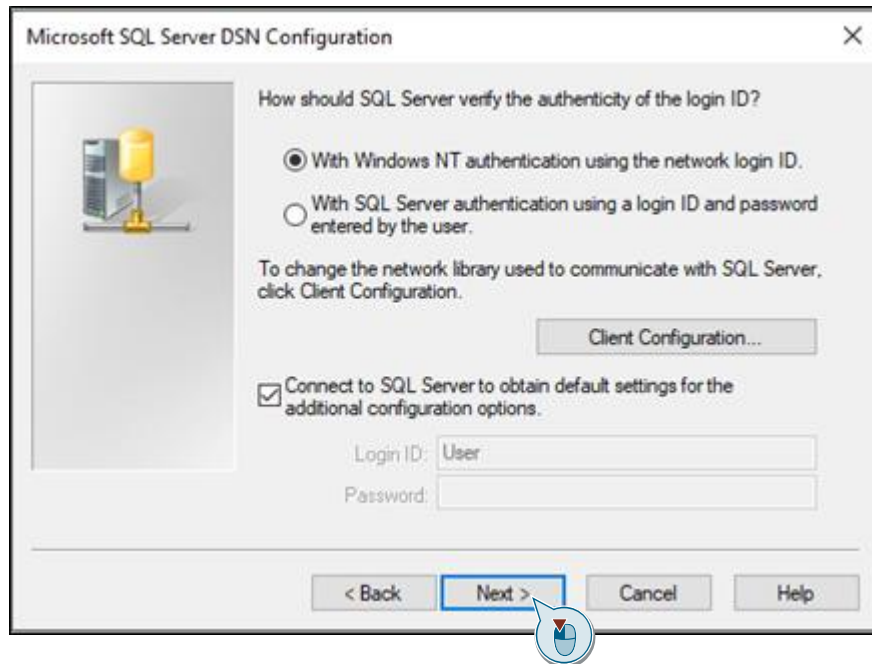
Figure 3-4



3 Connecting PAA/COMOS to the SQL Database

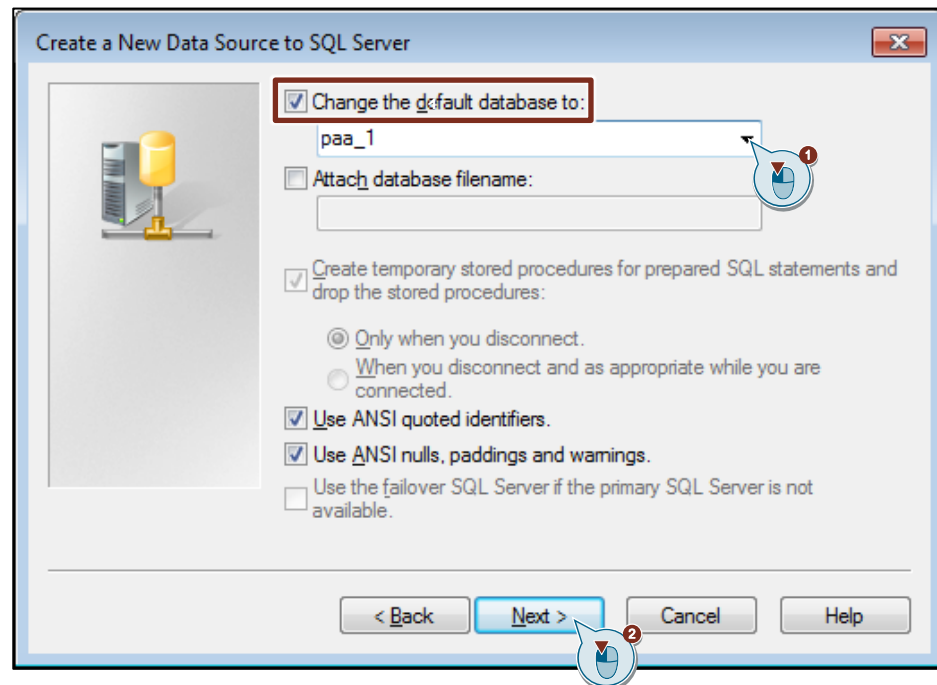
5. Click on the "Next >" button.

Figure 3-5



6. Enable the option "Change the default database to:" and in the drop-down list box you select the database you created in the previous section **Fehler! Verweisquelle konnte nicht gefunden werden..** Click "Next >"

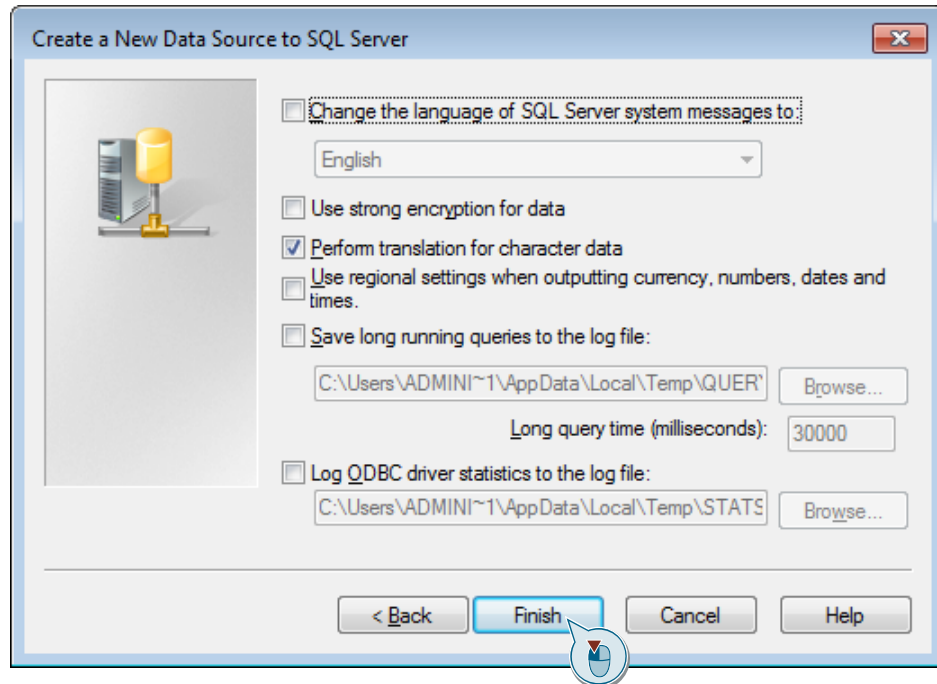
Figure 3-6



3 Connecting PAA/COMOS to the SQL Database

7. Click the "Finish" button.

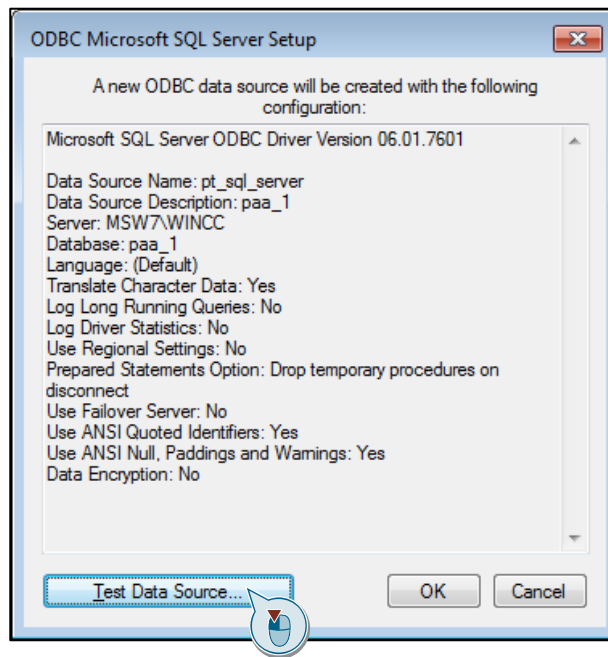
Figure 3-7



3 Connecting PAA/COMOS to the SQL Database

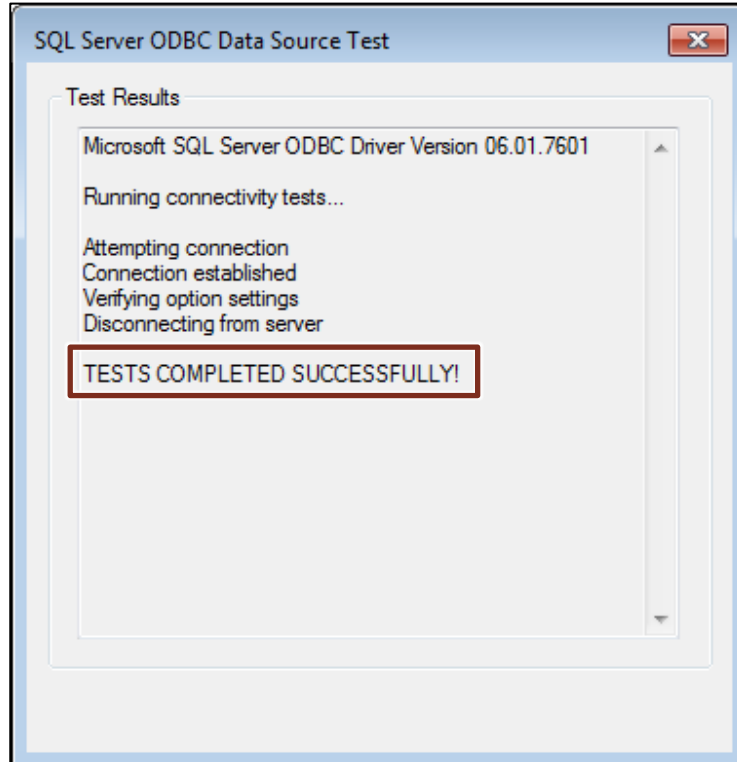
8. Test the created connection by clicking the "Test Data Source..." button.

Figure 3-8



9. After successful testing close the dialog box.

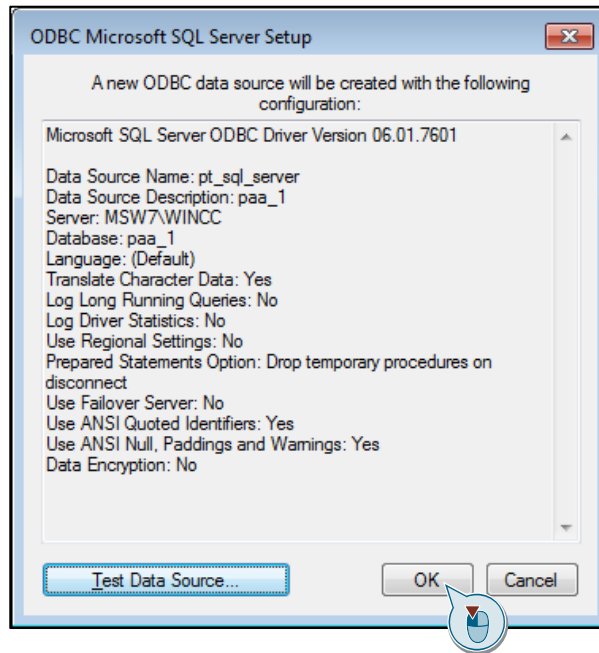
Figure 3-9



3 Connecting PAA/COMOS to the SQL Database

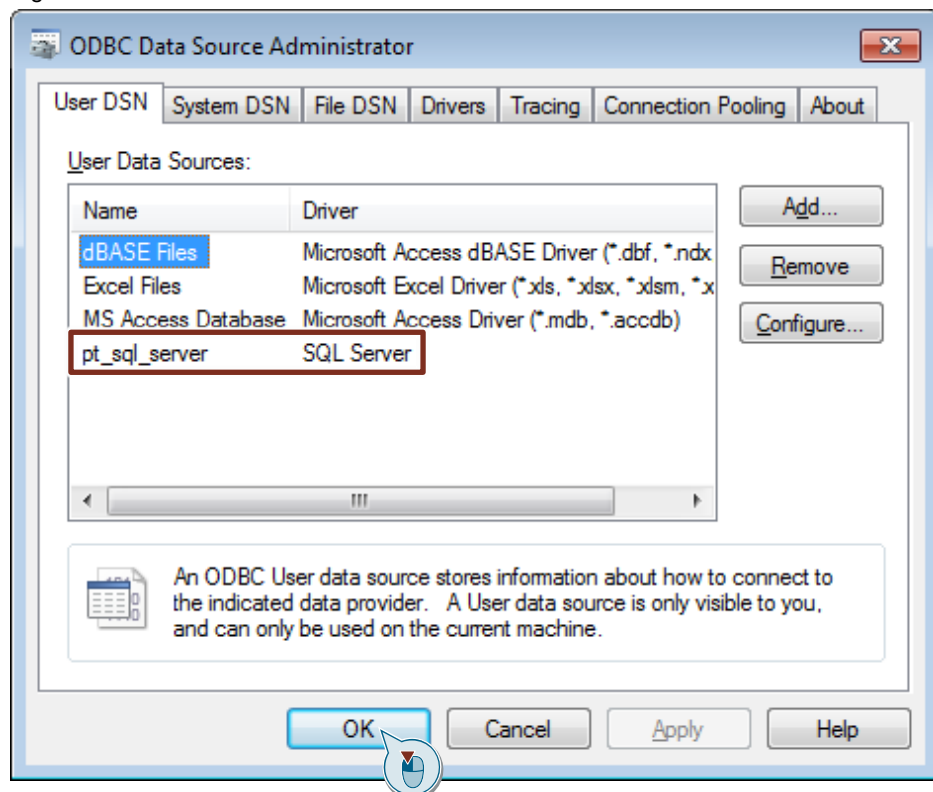
10. Click the "OK" button.

Figure 3-10



11. The SQL server connection has been completed. Click the "OK" button.

Figure 3-11

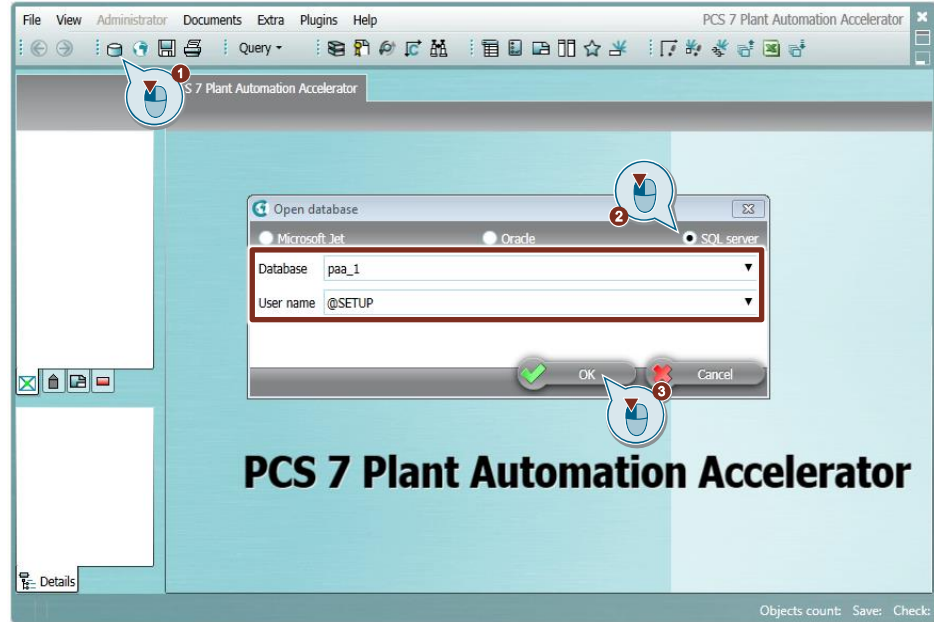


12. Click the "Open database" icon.

3 Connecting PAA/COMOS to the SQL Database

13. In the task bar you click the "Open database" icon. In the "Open database" dialog you enable the "SQL server" option field and in the "Database" and "User name" drop-down list boxes you select the relevant items. Click "OK".

Figure 3-12



As long as no error message is displayed you are now connected successfully with the database. You can now import an Access database (see Entry ID: [109751358](#)).