

AMOS Business Suite

Version 10.0.00

Installation Guide

Revision 1, July 2014

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Additional Manuals

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Comments and Suggestions

We welcome any suggestion, idea or concept you might have on ways we can improve this manual for you. Please forward your thoughts by email to:

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CHAPTER 1 Introduction

This document describes the installation procedure for the AMOS Business Suite program.

AMOS Business Suite is a client/server application, which may be run on several different Database Management Systems (DBMS). The system setups are described in this manual. You can select to install one of the following database engines:

- **Sybase SQL Anywhere**, on which you may choose between a stand-alone and a client/server installation.
- **Oracle Enterprise Server**
- **Microsoft SQL Server**

AMOS Business Suite supports these platforms within their own boundaries. For example:

MS SQL 2005 - Although a table can contain an unlimited number of FOREIGN KEY constraints, the recommended maximum is 253. Therefore MS SQL 2005 has a problem processing statements on records in a table that have more than this amount of Foreign Keys registered against them. This results in the user being unable to delete a department from within AMOS (as the department table has in excess of 350 Foreign Keys registered against it).

1.1 The Installation Procedure

Note that some steps in this procedure apply only to certain setups - the procedures you follow will vary according to which DBMS you install.

When installing the AMOS Business Suite, you carry out the following steps:

Server Installation

1. Start by making sure the selected Database Management System (DBMS) has been installed. See Chapter 2.
2. If you installed **Oracle** as your DBMS: Create an empty Oracle database. See Chapter 3.
3. Install the AMOS Business Suite application. See Chapter 4.
4. If you installed **MS SQL** as your DBMS: Certain parameters need to be configured for AMOS to run on MS SQL. See Chapter 5.
5. Create an empty AMOS database using the AMOS-Util. See Chapter 6.

6. If you installed **Sybase SQL Anywhere** as your DBMS: Certain parameters need to be configured for AMOS to run on Sybase. See Chapter 7.
7. You may need to modify the amosw.ini file to allow AMOS to access the database. See Chapter 8.

Client Installation

1. Start by making sure the selected DBMS Client Components have been installed. See Chapter 2.
2. Install the AMOS Business Suite application. See Chapter 4.
3. If you installed MS SQL or Sybase SQL Anywhere as your DBMS: Add a system Data Source Name (DSN). See Chapters 5 and 7 respectively.
4. You may need to modify the amosw.ini file to allow AMOS to access the database. See Chapter 8.

NOTE: In the event that you will set up the AMOS Business Suite identically for many users, you can create and use a script file to assist with the procedure. Refer to section 4.2 for more details.

NOTE: Chapters 3 and 5 assume that the relevant database manager has been installed prior to carrying out the preparations described in those Chapters.

1.2 In This Guide

Other topics which may be useful during installation and afterwards, are documented in Chapters 9 to 13. These include:

- using the DBCopy utility program to copy data from one database to another;
- converting data from the AMOS-D application;
- changing the database connection password;
- tips for trouble-shooting;
- Sybase administrative tools;
- starting a Network Database Server on Windows 2000;
- updating a database later when installing new versions of the program.

1.3 Minimum System Requirements

To run the AMOS Business Suite satisfactorily it is important that your system meets or exceeds the following minimum specifications:

Server	Client
50 GB hard drive space 4 GB of RAM memory 100 Mbit/s LAN network connection CPU @ 2.66 GHz Using a high-speed hard drive (15.000 rpm) is recommended in a RAID system	500 MB free hard drive space 2 GB of RAM memory 100 Mbit/s LAN network connection CPU @ 1.66 GHz An SSD hard drive makes the system faster, but is not mandatory. Minimum screen resolution is 1024 x 768, 256 colours.

Refer to the Release Notes for the AMOS Business Suite version to be installed for information regarding the supported Operating Systems and Database Management Systems.

Refer to DBMS and Server OS specifications for the client and server system requirements.

1.4 Related Documentation

- The *AMOS Business Suite User Guides* are written for regular users of the application, and are task oriented. A separate manual is available for each Business Suite module.
- The *AMOS Business Suite Reference Manual* describes the items available from the File and Tools menus, as well as general topics relating to the administration of your AMOS Business Suite installation.

CHAPTER 2 Installing A DBMS

The first step in the AMOS Business Suite installation process is to install a Database Management System (DBMS). AMOS Business Suite supports three DBMSs: Sybase SQL Anywhere, Microsoft SQL Server and Oracle. This Chapter explains the installation for Sybase SQL Anywhere; for instructions on installing the other two DBMSs, refer to the documentation for MS SQL and Oracle.

2.1 Sybase SQL Anywhere Installation

Sybase SQL Anywhere 10/11, in conjunction with AMOS Business Suite, can be run on the platforms described in the latest release notes.

You can run AMOS on SQL Anywhere in either a network or a stand-alone configuration. To run AMOS on a network, SQL Anywhere components must be installed on both the server and the client (the workstation on which AMOS will be run).

The server installation is described in section 2.1.5 and the client installation is described in section 2.1.6.

To run with the stand-alone configuration, start by installing the SQL Anywhere Personal Server and Client Interfaces on the workstation on which AMOS will be run. This is described in section 2.1.7.

After installing SQL Anywhere, carry on to Chapter 4 to install the AMOS Business Suite application. Later, you may need to modify the database connection and import settings in the .ini file. This is discussed in Chapter 8.

2.1.1 The SQL Anywhere Architecture

The SQL Anywhere database engine runs as a server program responding to requests for data management services from client applications.

There are two versions of SQL Anywhere:

- A standalone database engine that uses the dbeng10.exe/dbeng11.exe file.
- A network database server that uses the dbsrv10.exe/dbsrv11.exe file

Both versions share a common core technology while offering special features and functionality to support specific workplace database requirements.

2.1.2 Network Database Server

The network database server receives requests for retrieval, update, and other operations across a network from client applications. The client applications reside on one or more platforms separate from the network database server.

2.1.3 Client Connections

The network database server supports multiple concurrent client connections. A connection is a client with one or more active logons. The network database server can support unlimited client communication links.

Once logged in, a client is allowed an unlimited number of connections.

2.1.4 Standalone Database Engine

The standalone database engine operates as a background task. It receives requests for retrieval, update, and other operations from client applications. The standalone engine and all client applications reside on the same platform. These operations are performed on database tables. Database tables are stored in one or more database files residing on disk.

The standalone engine can handle up to ten simultaneous connections from one or more applications.

2.1.5 Installing The SQL Anywhere Server

Before you start, check to see if there are any old versions of SQL Anywhere on the server. If so, it is important that you use a different folder for each installation of SQL Anywhere.

1. Insert the CD-ROM disk in the drive from which you are going to run the installation.
2. If the installation does not auto-start, use Windows Explorer to locate the Setup.exe file on the CD-ROM and double-click to start the set-up program.

   Depending on the configuration of the Windows Installation files you may be required to restart at this point. If a restart is required, the installation will continue once the machine has re-booted. When prompted, enter the registration number or Installation Key.
3. In the Choose Location window, check that the Destination Folder for the installation is correct. To choose an alternate location, click the **Browse** button.
4. Follow the on-screen instructions until the window shown below appears.

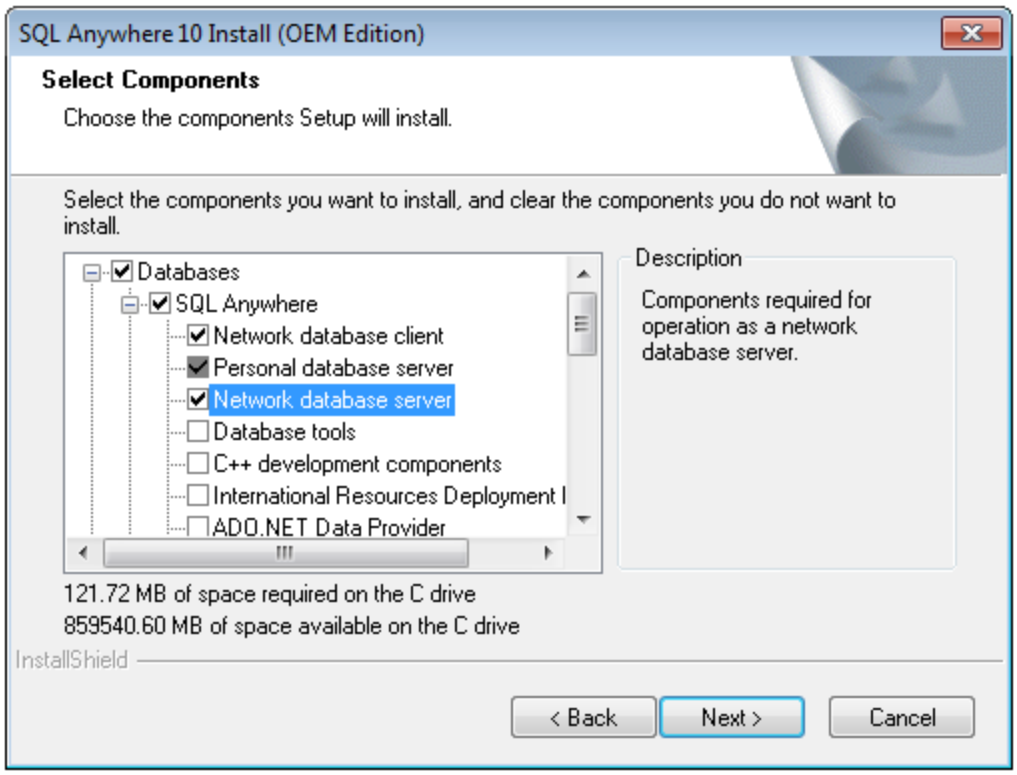


Figure 1 SQL Anywhere - Select Components window

5. Click on the + sign beside Databases, and select all Server options by clicking in their boxes.

   Network Database Client, **Network Database Server**, and **Sybase Central** allow for the set up of the network service and for future administration and monitoring purposes. The **Personal Database Server** setup is required for correct operation of the Network Database Server and so that option is chosen by default.

6. Click **Next** to continue.
7. When installing the Network Server option you need to provide Server License information. This information will be gathered automatically from the PC you are using but may be incorrect. Change the **User Name** and **Company** information if necessary and click **Next** to continue.
8. The system will suggest a default Program Folder for the program files. This is the name shown in the Windows Start Menu/Programs popup list.
9. Click **Next**.

   The next screen displays a review of the information and settings that will be used for the installation.

10. To change anything, click the **Back** button, otherwise click **Next** to continue.

    The program copies all required files. Answer **NO** if prompted to overwrite system files of later versions.

11. Once all the files have been copied, click **Finish** to complete the installation.
12. Restart your computer if prompted to do so.

2.1.6 Installing The SQL Anywhere Client

Use the following procedure to install the SQL Anywhere Client:

1. Insert the CD-ROM disk in the drive from which you are going to run the installation.
2. If the installation does not auto-start, use Windows Explorer to locate the setup.exe file on the CD-ROM and double-click to start the set-up program. Note that depending on the configuration of the Windows Installation files you may be required to restart at this point. If a restart is required, the installation will continue once the machine has re-booted.
3. In the Choose Location window, check that the Destination Folder for the installation is correct. To choose an alternate location, click the **Browse** button.
4. Follow the on-screen instructions until you come to the Select Components window.

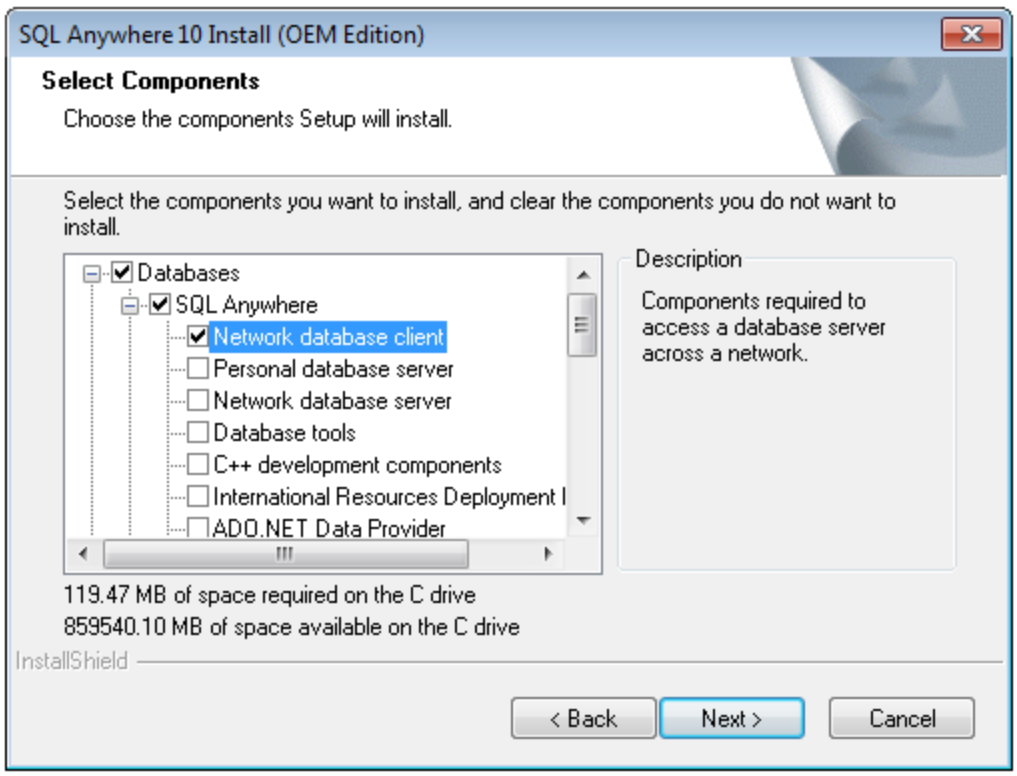


Figure 2 SQL Anywhere - Select Components window

5. Deselect all options except **Network Database Client** by clicking in the relevant boxes.
6. Click **Next** to continue.

   A default Program Folder is suggested for the program files. This is a standard part of the installation procedure and will not actually create the folder because no programs are required for a Client installation, only the required .dll files will be copied.

7. Click **Next** to continue.

   The next screen displays a review of the information and settings that will be used for the installation.

8. To change anything click the **Back** button and make the required changes, otherwise click **Next** to continue.

   The program copies all required files. Answer **NO** if prompted to overwrite system files of later versions.

9. Once all the files have been copied, click **Finish** to complete the installation.
10. Restart your computer if prompted to do so.

2.1.7 Installing The SQL Anywhere Personal Server

This is the Stand-alone server setup.

Before you start, check to see if there are any old versions of SQL Anywhere on the server. If so, it is important that you use different folders for each installation of SQL Anywhere.

1. Insert the CD-ROM disk in the drive from which you are going to run the installation.
2. If the installation does not auto-start, use Windows Explorer to locate the Setup.exe file on the CD-ROM and double-click to start the set-up program. Depending on the configuration of the Windows Installation files you may be required to restart at this point. If a restart is required, the installation will continue once the machine has re-booted.
3. In the Choose Location window, check that the Destination Folder for the installation is correct. To choose an alternate location, click the **Browse** button.
4. Follow the on-screen instructions until you come to the following window:

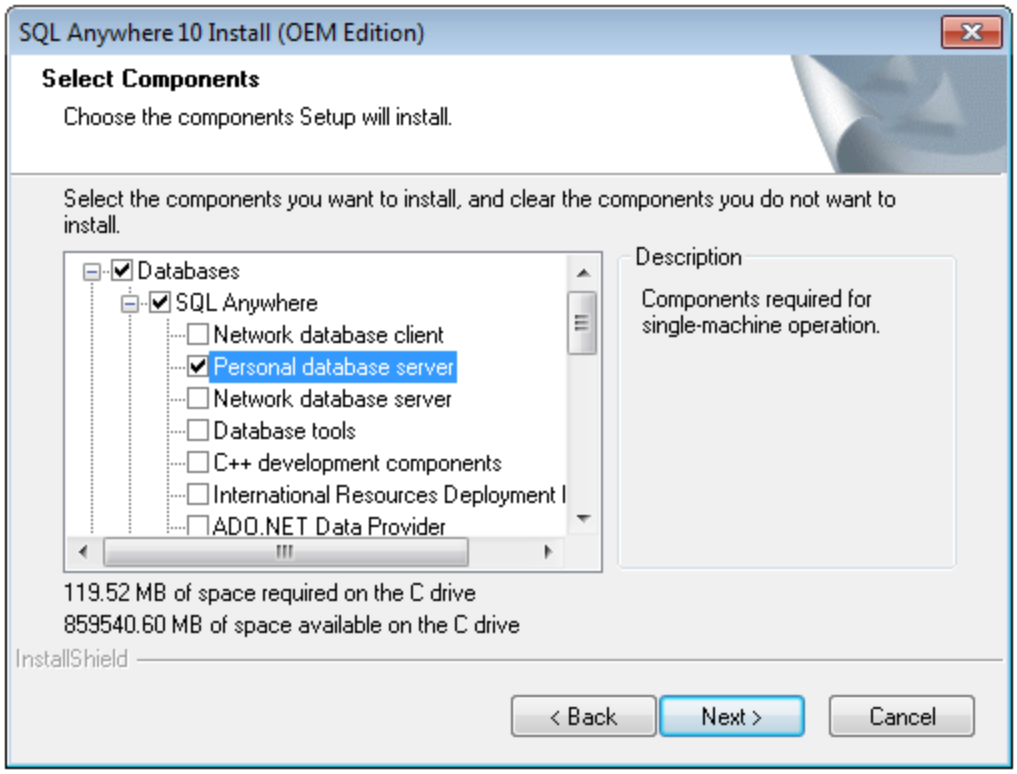


Figure 3 SQL Anywhere - Select Components window

5. Select the **Personal Database Server** option by clicking in the relevant box.

   When you select the Personal Database Server option, you are recommended to also install Sybase Central. This is to allow for future administration and monitoring.

6. Click **Next** to continue.

   A default Program Folder for the program files is suggested. This will be the name shown in the Windows Start Menu/Programs pop-up list.

7. The next screen displays a review of the information and settings that will be used for the installation. To change anything click the **Back** button and make the required changes, otherwise click **Next** to continue.

   The program copies all required files. Answer **NO** if prompted to overwrite system files of later versions.

8. Once all the files have been copied click **Finish** to complete the installation.
9. Restart your computer if prompted to do so.

2.2 Sybase SQL Anywhere Authentication Support

AMOS Business Suite has the capability for Sybase SQL Anywhere OEM support. The Sybase authentication consists of a database key and a connection key. If you have obtained the SQL Anywhere OEM through SpecTec, see section 2.2.1, Scenario 1. If you have obtained another set of database and connection keys, see section 2.2.2, Scenario 2.

2.2.1 Scenario 1

Take the following steps when using the Sybase SQL Anywhere database engine requiring authentication:

1. Install SQL Anywhere OEM.
2. In the section of the saopts.sql file shown below:

```
if not exists( select * from SYS.SYSOPTION
where ucase( "option" ) = ucase( 'Database_authentication'
) ) then
set option PUBLIC.Database_authentication = '';
end if
```

   Update with the Database Authentication key, replacing <Database Authentication key> with the actual key:

```
if not exists( select * from SYS.SYSOPTION
where ucase( "option" ) = ucase( 'Database_authentication'
) ) then
set option PUBLIC.Database_authentication = '<Database Authentication Key>';
end if
```

NOTE: SpecTec does NOT provide connection keys. To connect other developed applications, use your own database and connection keys, since the application/interface will otherwise be unable to connect.

3. To create a new AMOS database with Sybase SQL Authentication update the Newdb.bat file in the AMOS installation folder as follows:

```
amosutil.exe/CONNECTION_AUTHENTICATION='<Database Authentication Key>'
```

4. Update the AMOSW.INI file's [Database] section to provide the Connection Authentication Key. Add the following line, replacing <Connection Authentication Key> with the actual key:

Connection_ Authentication=SET TEMPORARY OPTION CONNECTION_ AUTHENTICATION='<Connection Authentication Key>'

2.2.2 Scenario 2

If database and connection keys are already available, perform the following steps:

1. Install SQL Anywhere OEM.
2. In the section of the saopts.sql file shown below:

```
if not exists( select * from SYS.SYSOPTION
where ucase( "option" ) = ucase( 'Database_authentication'
) ) then
set option PUBLIC.Database_authentication = '';
end if
```

Update with the Database Authentication key, replacing <Database Authentication key> with the actual key:

```
if not exists( select * from SYS.SYSOPTION
where ucase( "option" ) = ucase( 'Database_authentication'
) ) then
set option PUBLIC.Database_authentication = '<Database Authentication Key>';
end if
```

3. To create a new AMOS database with Sybase SQL Authentication update the Newdb.bat file in the AMOS installation folder as follows:

```
amosutil.exe/CONNECTION_AUTHENTICATION='<Database Authentication Key>'
```

4. Update the AMOSW.INI file's [Database] section to provide the Connection Authentication Key. Add the following line, replacing <Connection Authentication Key> with the actual key:

   Connection_ Authentication=SET TEMPORARY OPTION CONNECTION_ AUTHENTICATION='<Connection Authentication Key>'

NOTE: Where reference is made to database and connection key, insert the full key (including the agreed company and application name), not just the signature.

NOTE: If SQL Anywhere OEM is running next to another version of Sybase SQL Anywhere, ensure that it is listed first in the search path of the operating system, to be able to create a new database. Use 'dbinit -v' from the command prompt to test whether the correct version of SQL Anywhere is first in the search path. A reboot of the Windows OS is recommended for the changes to the path to take effect.

2.3 Oracle Installation

See Oracle documentation for installation instructions.

After installing Oracle, carry on to Chapter 3 to create an empty Oracle database, and then Chapter 4 to install the AMOS Business Suite application. Later, you may need to modify the database connection and import settings in the .ini file. This is discussed in Chapter 8.

2.4 Microsoft SQL Installation

See the Microsoft SQL documentation for installation instructions.

After installing MS SQL, carry on to Chapter 4 to install the AMOS Business Suite application. After that, certain parameters need to be configured for AMOS to run on MS SQL. See Chapter 5. Later, you may need to modify the settings in the .ini file. This is discussed in Chapter 8.

CHAPTER 3 Creating An Oracle Database

This Chapter covers the parameter settings required for AMOS Business Suite to run against Oracle. The information in this chapter only applies to those users who have chosen to install Oracle. If you are running on another DBMS, skip this chapter and carry on to the next.

3.1 Creating And Configuring An Oracle Database

After installing Oracle, create the Oracle database and configure the net manager:

1. Create three table spaces: One for the AMOS Database, one for indexes and one for temporary storage.

   Suggested Table, file and Log names:

   - Default tablespace - AMOSTBLSPC
   - Index tablespace - AMOSINXSPC
   - Temporary tablespace - AMOSTMPSPC
   - AMOS Data file - AMOS.DAT
   - AMOS Rollback log - AMOSROLL
2. Create a user called amos and enter the supplied password.
3. You can then attach the default and temporary tablespaces created earlier.
4. Assign the **CONNECT** and **DBA** roles to the user amos.
5. Using the NET8 Config utility, choose **Local Net Service Name Configuration** and create the service name amos, then set the network protocol to **TCP/IP.**
6. Select the protocol, and enter the network name of the server where the database is located and the port number (the default port is usually 1521).
7. Enter the database name created earlier (amos) in the **Net Service Name** field (formerly called System Identifier).
8. Test the service to make sure everything works correctly.

Once the database has been created, you can use various Oracle tools such as `Oracle Enterprise Manager' or `DBA Studio' to improve the set-up and performance of the database.

As an alternative, there are two database tools available within the Amos\Cry sub-directory:

- Use Mvindex.dba after initial database creation to improve performance.
- Use Analyze.dba when performance seems to have declined.

Proceed to Chapter 4 to install the AMOS Business Suite application.

CHAPTER 4 Installing The AMOS Business Suite

This Chapter describes how to install the AMOS Business Suite program. Once you have completed this section, turn to the section in Chapter 6 which describes how to create an empty AMOS Business Suite database on the database platform you organisation is using, and continue with those instructions.

4.1 Standard Installation

1. Insert the CD-ROM disk in the disk drive from which you are going to install AMOS.
2. The installation may auto-run (depending on your pc settings). If so, proceed to step 4. Otherwise start Windows Explorer and locate the program folder on the CD-ROM disk.
3. Double-click the Setup.exe file to start the set-up program.
4. Read the text in the Welcome dialog box, and click **Next>** to continue.
5. If the install wizard detects an existing AMOS installation you can choose whether to upgrade it or create a new installation.

   To upgrade an existing installation you may also choose to replace the **amosw.ini** file.

   If you choose to make a new installation (automatic if no previous installation is found) first read the text in the License Agreement dialog and click **I Agree**.
6. In the next dialog, select one of the following features:

- **Client** - Select this option (if you intend using a client/server installation) for the client machines.

NOTE: To install the client/server version, install AMOS on the server first so that the correct path can be chosen during client installation.

- **Standalone**- Select this option to install the standalone version.
- **Server**- Select this option to install the server version. The program folder will be shared on the network automatically.

7. The next dialog depends on your selection in the Select Features dialog:

- If you are installing a client version, the Choose Destination Location dialog appears.

  Enter the network path to the amosw.exe file on the server.

- If you are installing either the standalone or server versions the Setup Type dialog appears.

  Choose to make a **Complete** installation where all features are installed, or a **Custom** installation where you specify which program options to install.

  A default Destination Folder is supplied: to change that if necessary, click the **Browse** button and lookup the folder where you want to install AMOS.

  Click **Next**.

  If you chose Complete installation, the next dialog lets you choose the features you want.

8. Click **Next**. When the installation is completed, you will be notified and can choose to restart your computer now, or later.
9. Click **Finish** to complete the operation.

The AMOS Business Suite is now installed.

If this is the first time you have installed AMOS, run the amosutil.exe program to create a new, empty database. See Chapter 6 for instructions on how to do this.

If you have upgraded from an earlier version of AMOS, you will be prompted to upgrade your existing database the first time you attempt to run the program. See Chapter 9.

4.2 Installation Using A Script File (Silent Installation)

If your company is to install the AMOS Business Suite with identical setup into many PCs, for example on a number of workstations in the company's head office, then during the first installation you can create a setup.iss script file. This script file can then be used during subsequent installations to tell the installation wizard what settings are to be input. You will therefore only need to start the setup.exe file, and the remainder of the installation and setup will proceed without you needing to interact with the PC. This includes setting up the database; see Chapter 6.

If you copy the script file and the installation set onto a CD and send the CD to another site, someone at that site will be able to install the AMOS Business Suite onto their PC, with the identical setup.

4.2.1 Generating The Setup.iss File

To perform a silent installation you first need to generate the setup.iss file. To do this you will need a standard installation set of the AMOS Business Suite. Assume for the purpose of this procedure that the Business Suite installation set is located in the folder C:\My Installation Sets. Check that no AMOS Business Suite installation already exists: if any do, uninstall them.

NOTE: Ensure there are no other programs running on your PC when you start this procedure. On completion of the installation you will be required to restart your PC, and the setup.iss file will record all key-strokes and mouse clicks made until that point. If you must close programs before restarting the PC, then during later silent installations on other PCs the systems will attempt to close those same programs, thereby causing problems.

1. On your Windows Desktop, click the **Start** button and select **Run**.

   The Run dialog opens.

2. Type cmd into the Open field and click **OK**.

   The command window opens.

3. On the command line, type cd c:\my installation sets and press **Return** to go to the directory that contains the installation set.
4. Once in that directory, type the following command:

   setup.exe /r

   The setup.exe command starts the installation wizard; the /r command instructs the system to record the inputs you make to the system while the installation progresses.

   If you want the setup.iss file to be generated at a particular location, use the /f1 switch. For example, if you want the setup.iss file to be generated in the C:\Program Files\AMOS directory, type as follows:

   setup.exe /r /f1"C:\Program Files\AMOS\setup.iss"
5. Thereafter, follow the instructions given by the installation wizard and complete the AMOS Business Suite installation.
6. After completing the installation you will be asked to re-start your computer. Do so.

   After re-starting, you will find the setup.iss file in the windows directory (C:\WINNT\), or in the directory defined by the f1 switch. You need the setup.iss file to perform the silent installation.
7. If it is not already there, copy the setup.iss file into the installation directory (the same place where the setup.exe file is located).
8. You can now copy the files in the installation directory onto a CD, and use that CD to perform the same installation on other computers.

4.2.2 Performing A Silent Installation

NOTE: If you want to perform a silent installation on the same computer that you used to generate the setup.iss file, you will need to un-install the AMOS Business Suite from the Add/Remove Programs window, before you can continue.

Once you have the AMOS Business Suite and setup.iss files, you can perform a silent installation. When you run this installation, no sign will be given on the display to indicate that anything is happening. All settings, file path selections etc. will be made automatically by the setup.iss file, and the resulting installation will be identical to that conducted on the PC during which the setup.iss file was created.

To perform the same installation of AMOS Business Suite on another computer:

1. Download/copy the installation set and the setup.iss file into an appropriate folder on that computer, or place the CD containing the files into the CD drive on the computer.
2. On that computer's Windows Desktop, click the **Start** button and select **Run**.

   The Run dialog opens.
3. Type cmd into the Open field and click **OK**.

   The command window opens.
4. On the command line, type cd and the path to the directory that contains the installation set, then press **Return**.

   For example, if the files are on a CD and the CD drive on the computer is drive D, type cd d:\ and press **Return**.
5. Once in the correct directory, type the following command:

   setup.exe /s

If the setup.iss file is not in the same directory as the installation set, then you must include the f1 switch and path to the setup.iss file in the command. For example, if the installation set is located in the C:\Program Files\AMOS folder and the setup.iss file is on a cd, then you must go to the C:\Program Files\AMOS folder (see steps 2. to 4. above), then type:

setup.exe /s /f1"A:\setup.iss"

The installation will now proceed. The computer display will give no indication that anything is happening. On completion, the computer will restart.

4.3 Uninstalling The AMOS Business Suite Program

If you need to uninstall the AMOS Business Suite program, you have two alternatives:

1. Insert the installation CD into the PC.
2. Double-click the Setup.exe file.
3. Select Remove and confirm by clicking on **OK** - the program does the rest.

   Alternatively, use the Add/Remove Programs facility within Windows Control Panel.

NOTE: Do not attempt to remove the program by simply deleting the folder containing the AMOS files as this may adversely affect your system.

CHAPTER 5 Setting Up Microsoft SQL Server

This Chapter applies only to users running on MS SQL Server. When you have completed the tasks described here, you may need to modify the amosw.ini file: refer to Chapter 8 for instructions. In the case of a server installation, create an empty AMOS database using the AMOS-Util before modifying the .ini file; see Chapter 6.

This Chapter covers the parameter settings required for AMOS to run against MS-SQL Server. We strongly recommend that while setting up the MS-SQL server, the case sensitivity is NOT enabled as this may cause unnecessary problems with future operation of the system. We **do not support** case sensitive setup on MS-SQL.

There are three steps in the process:

1. Ensure compatible versions of ODBC Data Source Administrator and Driver Manager.
2. Create and set up an ODBC Data Source.
3. Configure the installation directory in AMOS Business Suite.

NOTE: Upgrading your database for MS SQL 2005/2008 can cause errors if your version of AMOS Business Suite is an earlier version which does not support MS SQL 2005/2008. To avoid any problems, upgrade to a version of AMOS Business Suite that supports MS SQL 2005/2008, before changing the DBMS to this version.

5.1 Compatibility - ODBC & Driver Manager

Before installing the new MS-SQL server, you must check that the correct version of the ODBC Data Source Administrator is installed. To do this:

1. Open the Control Panel and double-click on the ODBC icon (32 bit Operating System). On a 64 bit Operating System start C:\Windows\SysWOW64\odbcad32.exe.
2. Click the About tab.

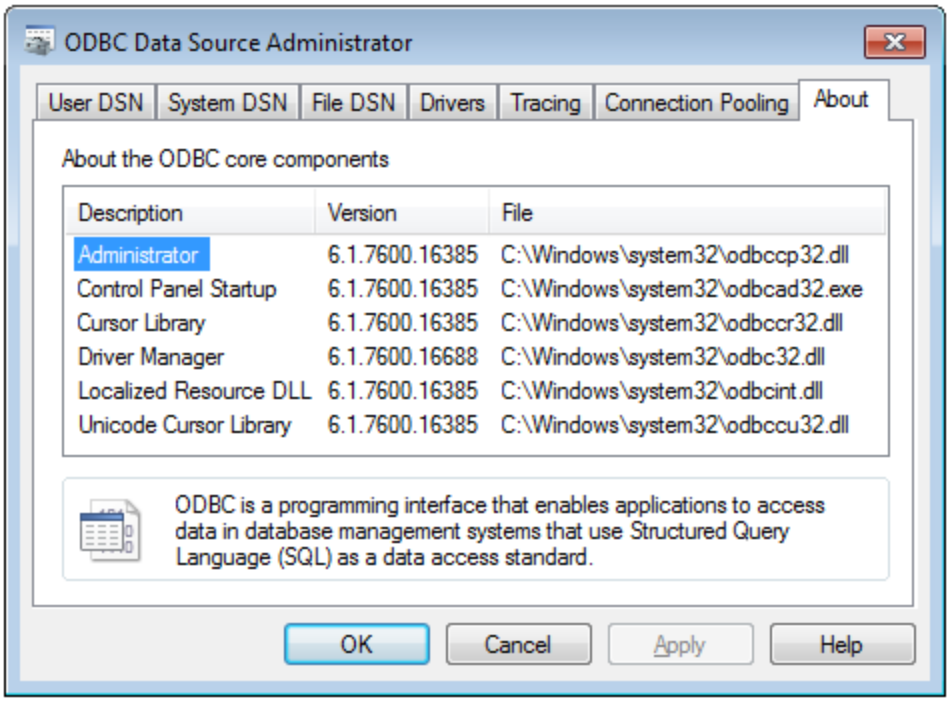


Figure 4 ODBC Data Source - About tab

3. Ensure that the version of the Administrator is at least as new as that of the Driver Manager.

NOTE: You are recommended to use version 3.5.x or higher. If the Administrator version is older, this will cause problems during setup and you must install a later version.

5.1.1 Creating And Setting Up An ODBC Data Source

Enter the data required for the ODBC function to access the AMOS database:

1. Return to the first screen by clicking the System DSN tab.
2. Click **Add**. The Create New Data Source dialog opens.

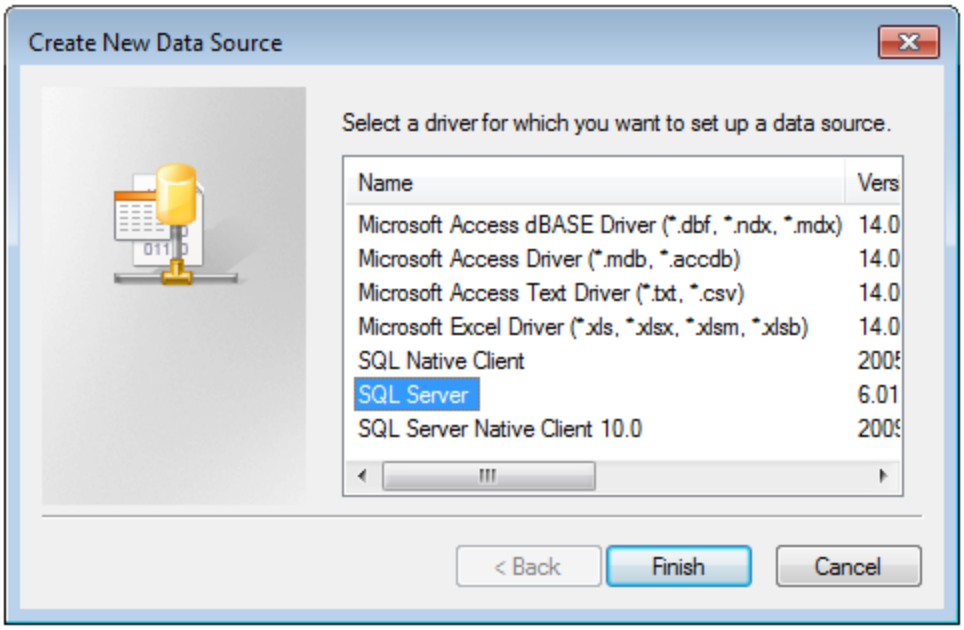
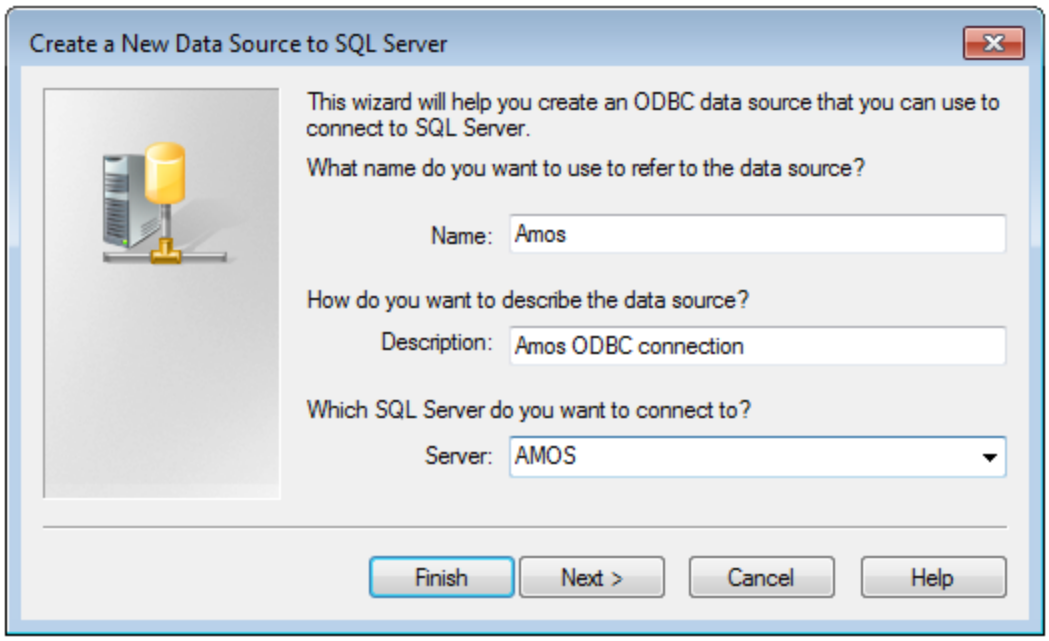


Figure 5 Create New Data Source dialog

3. Select SQL Server and click **Finish**. The next dialog appears.

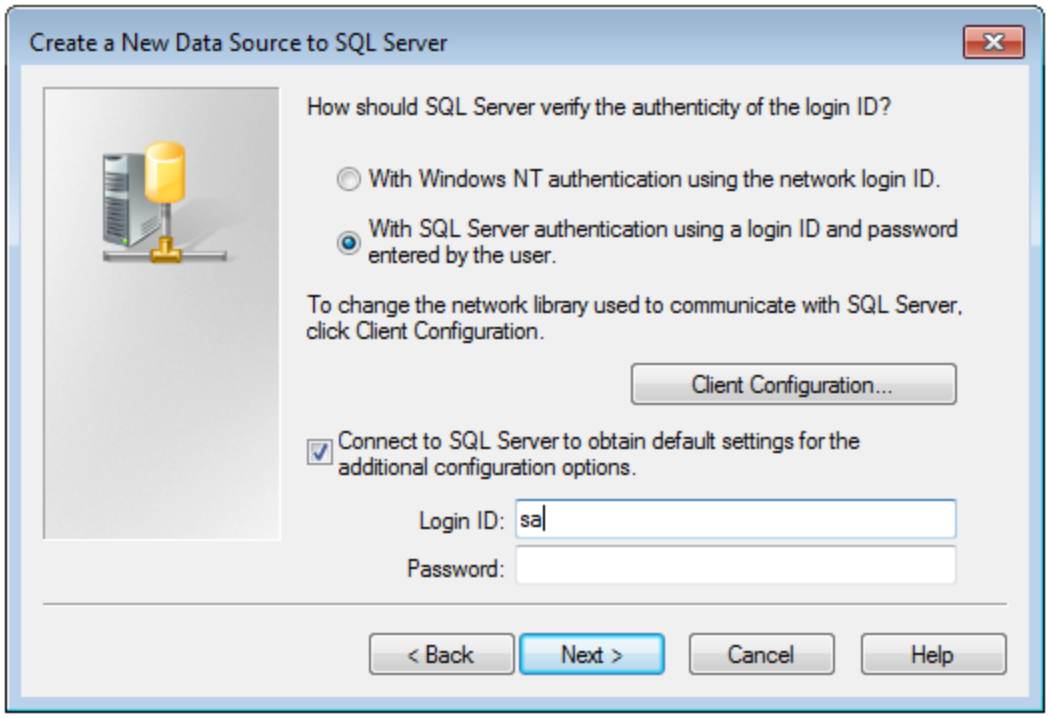
NOTE: As of AMOS Business Suite version 9.2, it is also possible to select SQL Native Client when creating the ODBC connection.

4. Enter the following information:



- **Name**: Any recognisable name by which the service will be known to you.
- **Description**: A more detailed description of the service and its function.
- **Server**: Select the server you wish to access from the drop-down menu. If you are unsure of the name of the server, contact your Network Administrator.

5. Click **Next** to go to the next window.



In the above window, ensure that Login ID is carried out by SQL server and not by Windows.

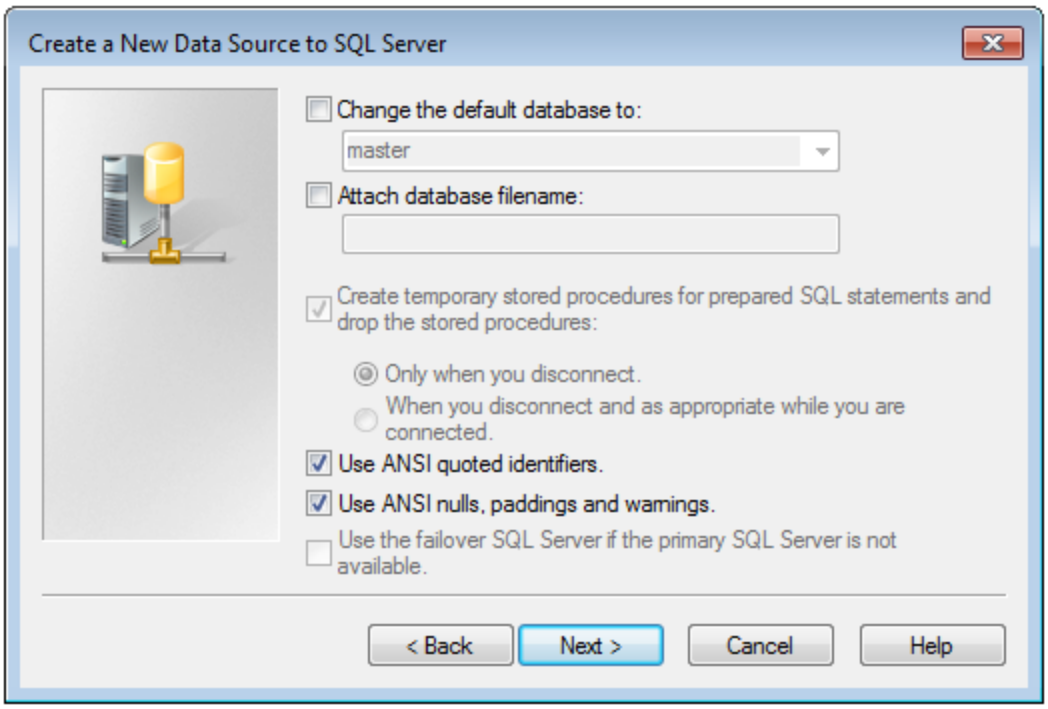
Check that the **Connect to SQL Server** box is checked. If you have not created an empty AMOS DB using the amosutil tool, temporarily use the system administrator login:

- **Login ID**: sa
- **Password**: <your password>

NOTE: This login and password applies only to the connection required to establish default server settings and not any subsequent connections using the data source.

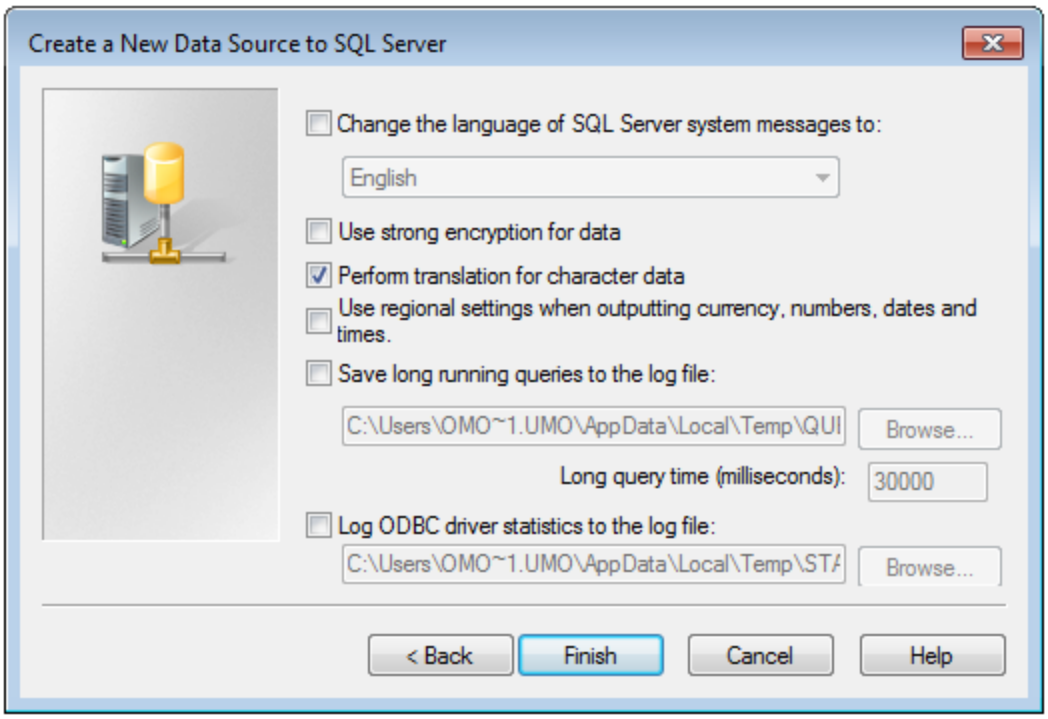
In the case of a client installation, you can use the default **Login ID** amos and **Password** voyager.

6. Click **Next** to continue. If the AMOS database is not created yet, enter the default database name 'master' in the next dialog:



Leave all other settings in this dialog window as default.

7. Click **Next** to continue. Select the language in which you wish to receive system messages, character set translation and the use of regional settings. You can also control the creation of long-running queries and ODBC diver statistic logs. **Keep the default settings during the setup process**.



8. Click **Finish** to continue to the next dialog.

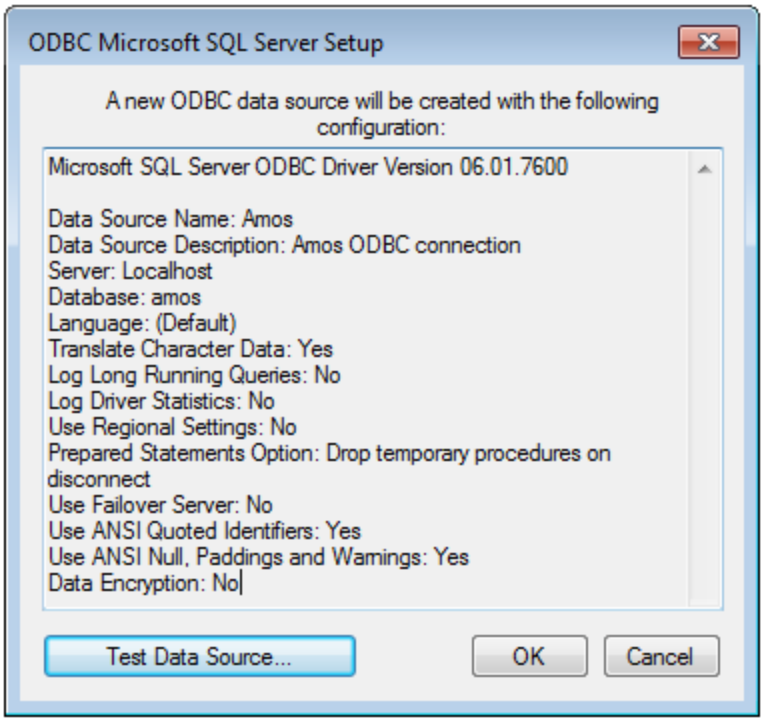


Figure 6 The ODBC MS SQL Server Setup window

Review your choices in the summary screen and click **Test Data Source** to test the setup you have provided. SQL will attempt to connect to the database using your setup data.

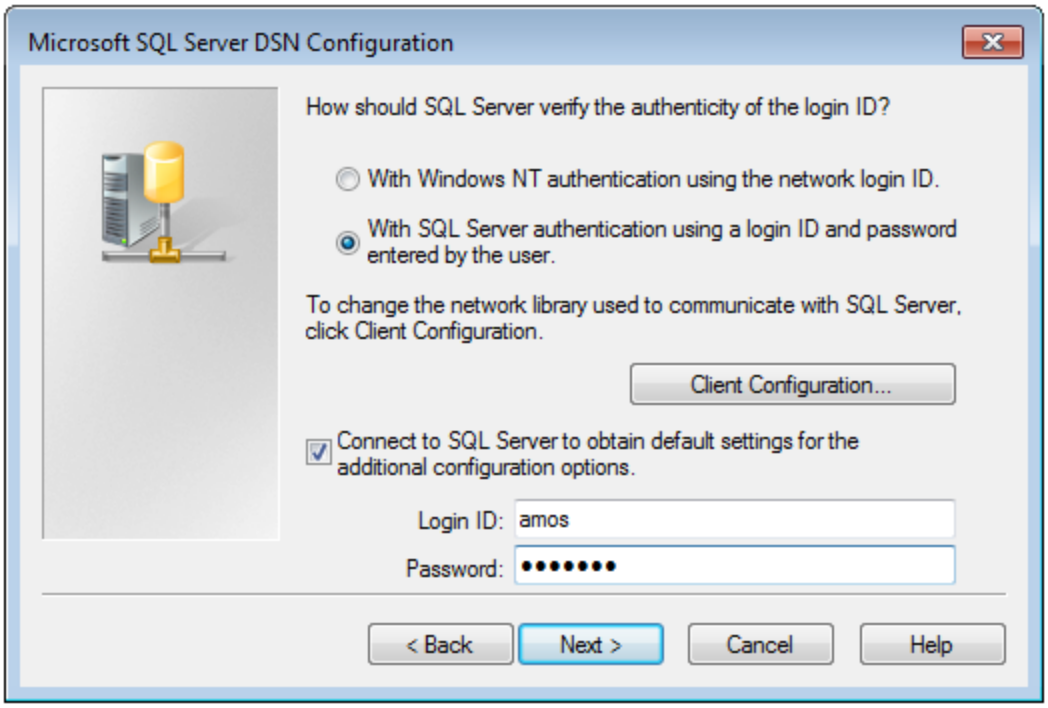
9. If you have setup SQL correctly, the SQL Server Data Source Test dialog opens, displaying TESTS COMPLETED SUCCESSFULLY!
10. Click **OK** in the two windows to exit the ODBC setup process.

If you have not created the AMOS database yet (i.e. on a server installation), create it using the AMOS-Util program, refer to Chapter 6. Then, re-configure the ODBC Data Source. See the next section.

5.1.2 Reconfiguring The ODBC Source

1. Re-open the ODBC Data Source Administrator.
2. Select the name of the data source you have created, then click **Configure**.
3. Assuming that there is no requirement to modify either the data source name or description, click **Next**.

   The SQL Server DSN Configuration window opens.

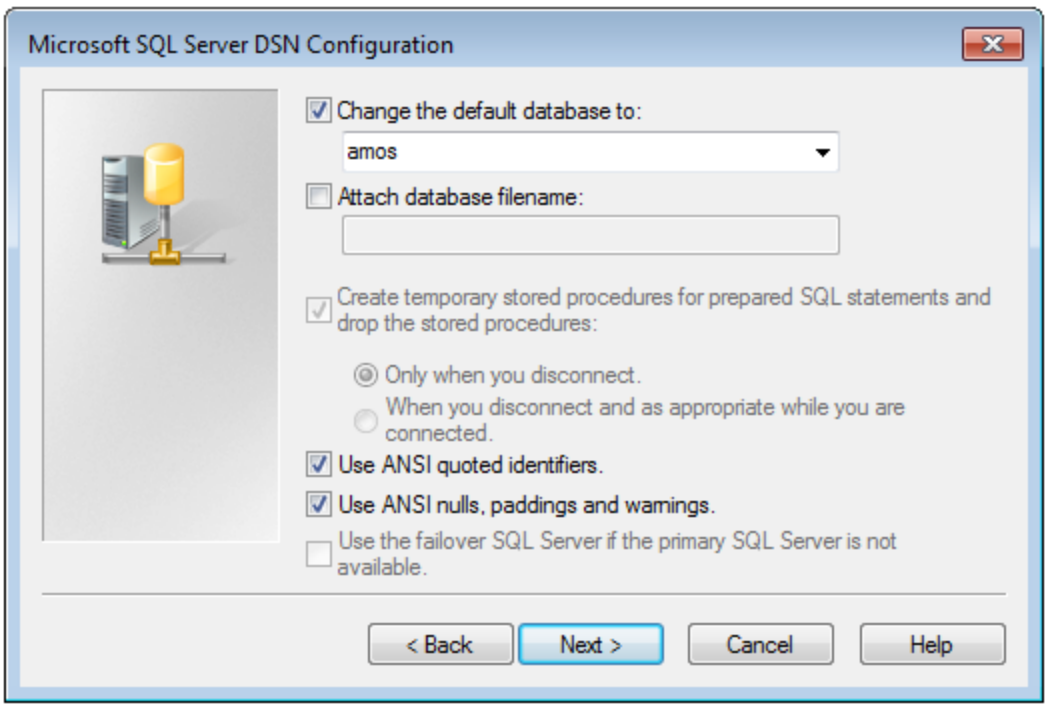


Enter the following details:

- **Login ID**: amos
- **Password**: voyager

These are the default ID and Password for the amos database.

4. Click **Next**.
5. Now that the amos database has been created, click in the **Change the default database to:** checkbox and then select **amos** from the drop-down menu:



6. Continue as steps 8 to 14 inclusive. Refer to section 5.1.1.

5.1.3 Defining The Installation Directory In AMOS

If the AMOS Business Suite has been installed in any folder other than the default, then you must now tell AMOS the location of the installation folder.

For a default installation this will be c:\Program Files\AMOS\AMOS Business Suite.

1. Start the AMOS Business Suite program.
2. Go **Tools > Configuration > Parameters**.
3. Expand the Directories folder.
4. Select Installation Directory.
5. In the **Global** field, type in the path for the installation folder if you know it, or click the search button beside the field to browse to the installation folder. Then click on it to select it.
6. Click **OK** to exit the window.

   The path will automatically update in the **Installation Directory** field.

NOTE: Remember to save the changes you have made, or chose **Yes**, when prompted to save changes when you exit the Parameters window.

CHAPTER 6 Creating An AMOS Database

When AMOS Business Suite is installed for the first time, the next step is to create a database to which you can establish a connection. This is done using the utility program AMOS-Util.

NOTE: The default settings in the Amosw.ini file located in the installation are intended for use on the SQL Anywhere platform. You may need to modify the file before you can start AMOS. You will find a description of the necessary modifications in Chapter 8 for the various database platforms.

6.1 Using The AMOS-Util Program

The program amosutil.exe is installed in the program folder during the installation of AMOS Business Suite. This utility program is used for two purposes:

- When you install AMOS for the first time, use the program to create an empty database file. The procedure for each database platform is described in the following sections. By default the new database file is called amos.db, and it will be located in the program folder. You can change this if you want. A corresponding log file called amos.log will also be created.

  NOTE: Before you use the AMOS-Util program to create a new database, check the program folder to see that the file amos.db is not already found there.

- When you upgrade to a newer program version, use the AMOS-Util program to upgrade the database to suit the new program version. The first time you start the new program version, AMOS-Util is started automatically and it will warn you that you need to upgrade the database. Simply follow the instructions you see on the screen to perform the upgrade. Read about upgrading an existing database in Chapter 9.

To create a new, empty database file:

NOTE: Read about running the AMOSUtil application in silent mode in section 6.2.

1. In Windows Explorer, locate the AMOS Business Suite program folder and start amosutil.exe by double-clicking on it.
2. The New Database dialog opens. Select your **DBMS**. Click **Next**.

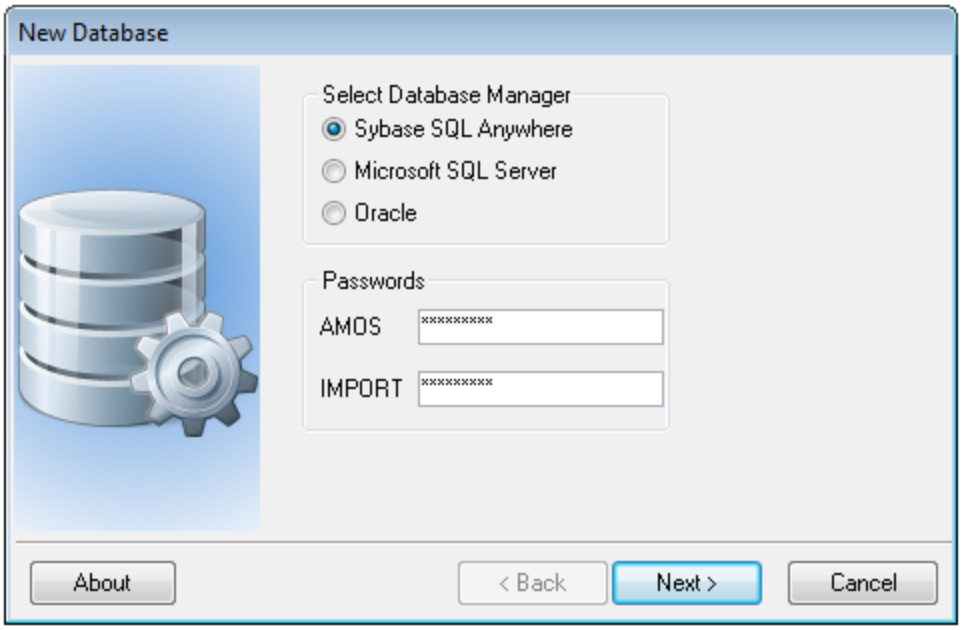


Figure 7 The New Database dialog

The subsequent dialog boxes will be slightly different depending on which database manager you have selected. Read about the various alternatives in the next sections of this chapter and follow the instructions for your DBMS:

- **Sybase**: see section 6.1.1.
- **Oracle**: see section 6.1.2.
- **MS SQL**: see section 6.1.3.

6.1.1 Creating A DB For SQL Anywhere

1. If you selected the Sybase SQL Anywhere database manager, the second dialog box appears:

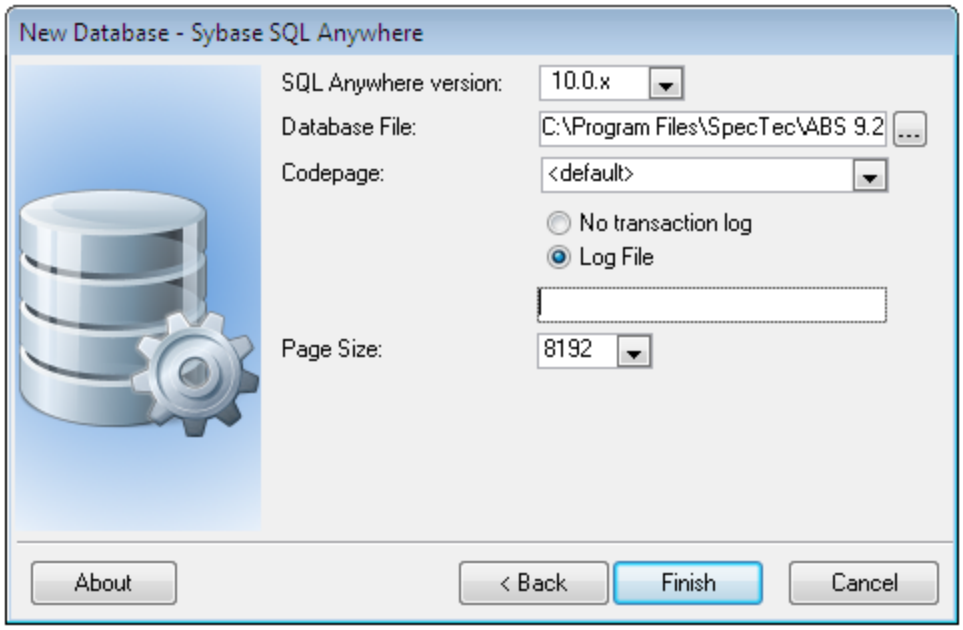


Figure 8 New Database dialog - Sybase SQL Anywhere

2. Click the arrow beside the **SQL Anywhere Version** field, and select the version you wish to use from the drop-down list.
3. Ensure that the **Database File** contains the name of the folder where the new database is to be created, and the name of the database itself.

   By default, this is set to the same folder as the AMOS installation, and the name of the database file will be amos.db.
4. The **Page Size** field is populated automatically, and does not need changes.
5. Check the **Log File** button to create a log for the database.
6. Click **Finish**. AMOS-Util will then display progress bars to keep you informed of the database creation status. When the **Overall Progress** bar reaches 100%, a confirmation dialog box opens.
7. Click **OK**.

The database has now been created. Close the SQL Anywhere DB Utility dialog.

Proceed to Chapter 7 to configure the SQL Anywhere server for use with AMOS Business Suite, and then configure the ODBC connection for either the Personal Server Client or the Network Server Client, according to your setup.

6.1.2 Creating A DB For Oracle

1. If you are using the Oracle Enterprise Server as the database manager, the second dialog box appears:



Figure 9 New Database - Oracle

2. Type in the **Sys. Adm. Login** name and **Sys. Adm. Password**.
3. Type in the **Server Name**.
4. Click **Next**. The next dialog box lets you select Oracle table spaces for Default space and Index Table space as created in Chapter 3, from drop-down lists.

NOTE: For security reasons, select different values from the drop-down lists to keep the indexes on a different table space. We also recommend that you check the box **Build Index on Foreign Key** for better performance.

5. Click **Finish**. AMOS-Util will then display progress bars to keep you informed of the database creation status. When the **Overall Progress** bar reaches 100% a confirmation dialog box opens.
6. The new database is now created. You may need to modify the configuration settings in the amosw.ini file. See Chapter 8.

6.1.3 Creating A DB For Microsoft SQL Server

NOTE: When using AMOS-Util to create or upgrade an MS SQL AMOS database, use the ODBC SQL Server connection. SQL Native Client is not supported.

1. If you selected Microsoft SQL Server as the database manager, the second dialog box appears:

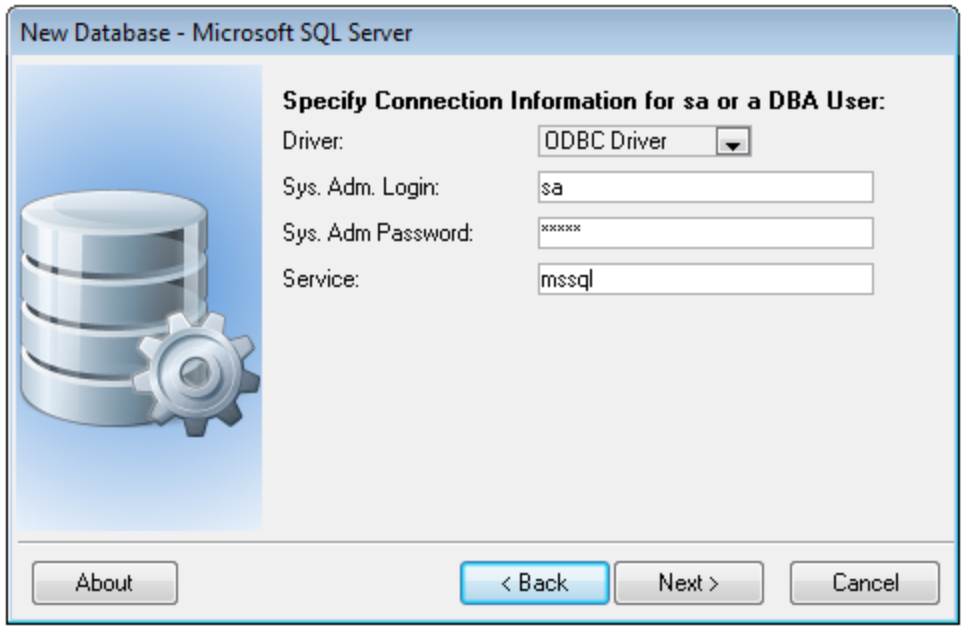


Figure 10 New Database - MS SQL Server

2. To logon to MS SQL, provide the **Sys. Adm. Login** name and **Password** which you created during installation of MS SQL.
3. Enter the **Service** name also created at time of MS SQL installation.
4. When the information is correct, click **Next**.

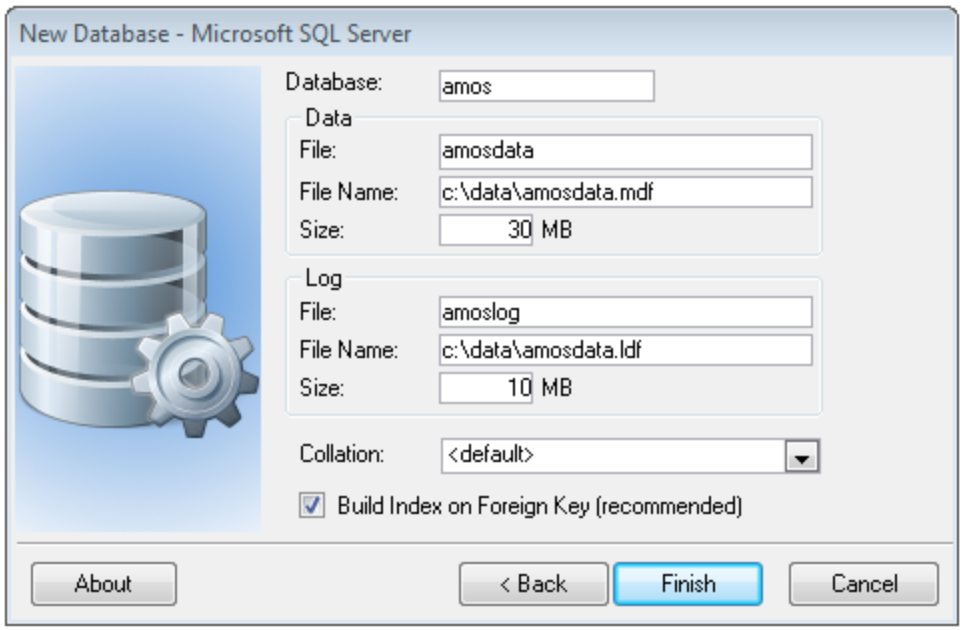


Figure 11 New Database Details - MS SQL Server

Specify the size of the **Data** and **Log** devices. Enter suitable values, depending on the expected size of the database.

5. Click **Finish** to continue.

   If the named database already exists, the following message is displayed:

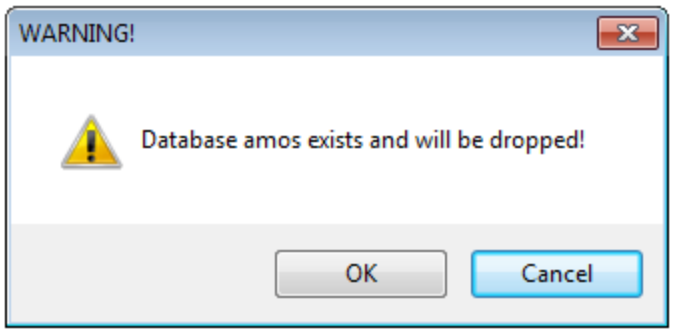


Figure 12 Warning Message dialog box

Click **OK**, and **Create DB** to continue.

6. As the database is being created, the progress is displayed in the Message Output section of the dialog. When the process is complete, a confirmation dialog box will appear.

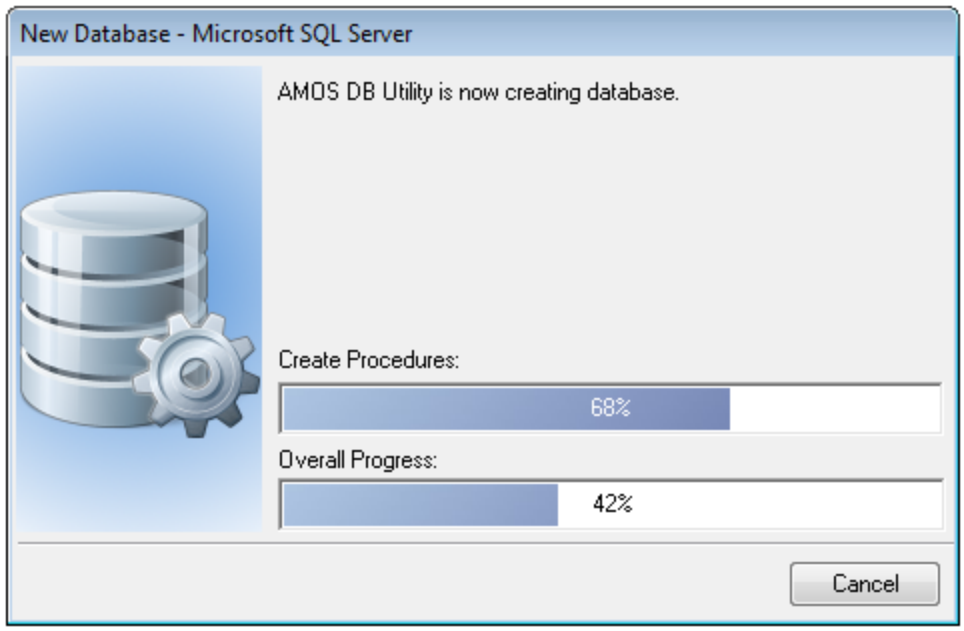


Figure 13 New Database - progress screen

Once the database is created, see Chapter 5 to set the parameters required for AMOS to run against MS SQL Server.

6.2 AMOSUtil - Silent Mode

The AMOSUtil application can also be run in silent mode - that is, without any user interaction.

From the command line interface, users can specify arguments to the application, such as "amosutil.exe/upgrade". Adding "/Silent=TRUE" to this argument indicates that there will be no user interactions: presuming all necessary command line parameters are provided. Any resulting errors will be logged in the '/logfile' but not shown on-screen.

If any errors occur, AMOSUtil will return 1; if the operation is successful AMOSUtil returns 0.

The error level can be retrieved by the calling application. Below is a sample CMD file:

echo off

echo This will upgrade your database

pause

amosutil.exe /upgrade /silent=true /<other parameters>

if not errorlevel 1 goto end

echo An error occurred during database upgrade

:end

echo End of batch program

The table below contains the valid parameters:

Parameter	Setting	Default
/Database=		
/DSN=		
/ServerName=		
/PassWord		
/Connection_ Authentication=	ASA only	
/DBMS=	[<None>|ANY|MS7|ORA] Which DBMS is selected by default when running in none silent	ANY
/LogFile=	<Filename>	<amosutil directory> + "\error.txt"
/BackupFile=	<Filename>	<None> No file and no backup
/Silent=	[TRUE|FALSE] Upgrade only	FALSE
/CryDir	<Location of the cry files>	<amosutil directory> + "\cry"

CHAPTER 7 Setting Up SQL Anywhere

This Chapter applies only to users running on Sybase SQL Anywhere. When you have completed the tasks described in this chapter, you may need to modify the amosw.ini file. Turn to Chapter 8 for instructions on modifying the amosw.ini file.

7.1 Configuring The SQL Anywhere Server

To configure the Sybase SQL Anywhere server for use with AMOS Business Suite:

1. Go to **Start > Programs > SQL Anywhere 10/11 > Sybase Central** to open Sybase Central:

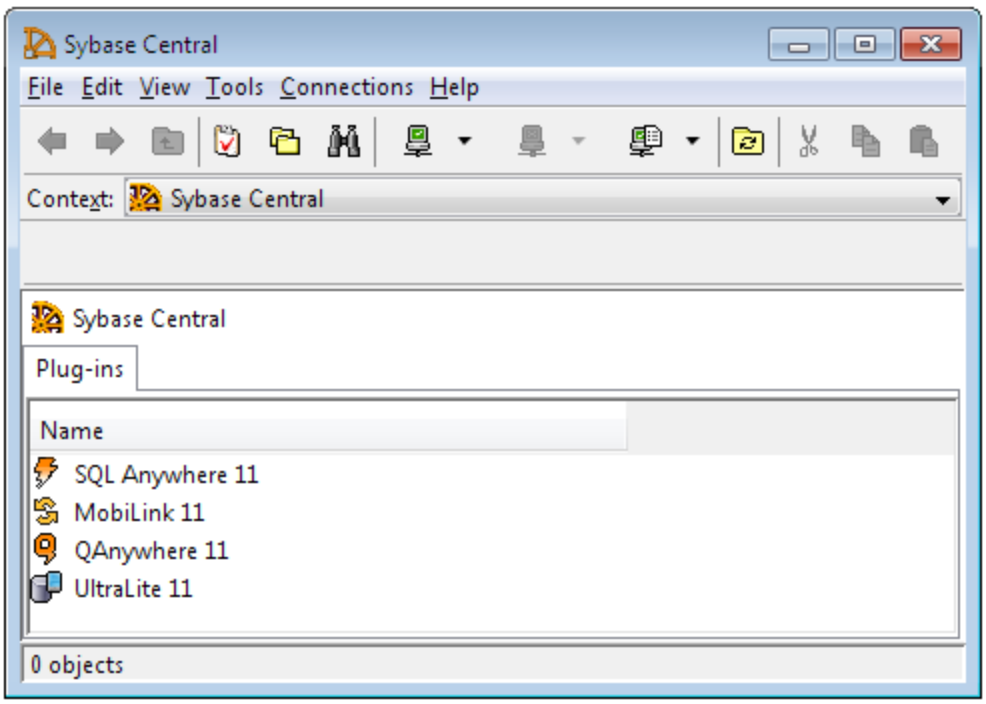
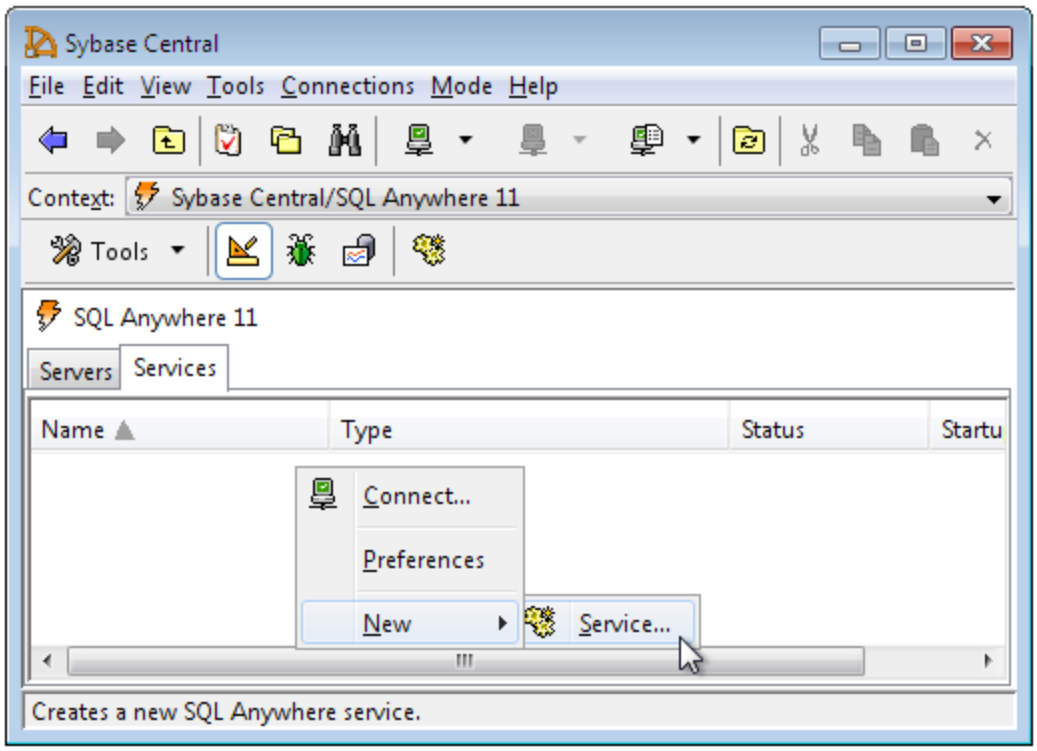


Figure 14 The Sybase Central window

Double-click on the SQL Anywhere 10/11 option and then open the Services tab. Go to **File > New > Service** or right-click on the right pane and select **New > Service**:



2. The Create Service Wizard opens.

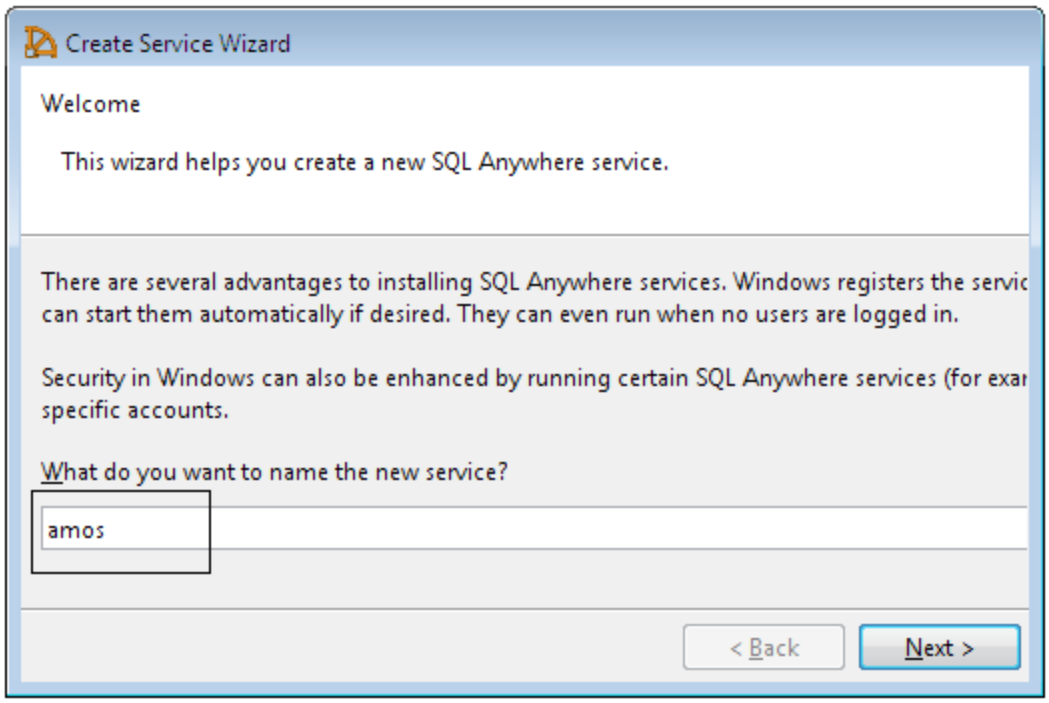


Figure 15 Create New Service - Welcome window

Enter amos as the service name and click **Next** to continue.

3. The New Service - Select a Type window opens.

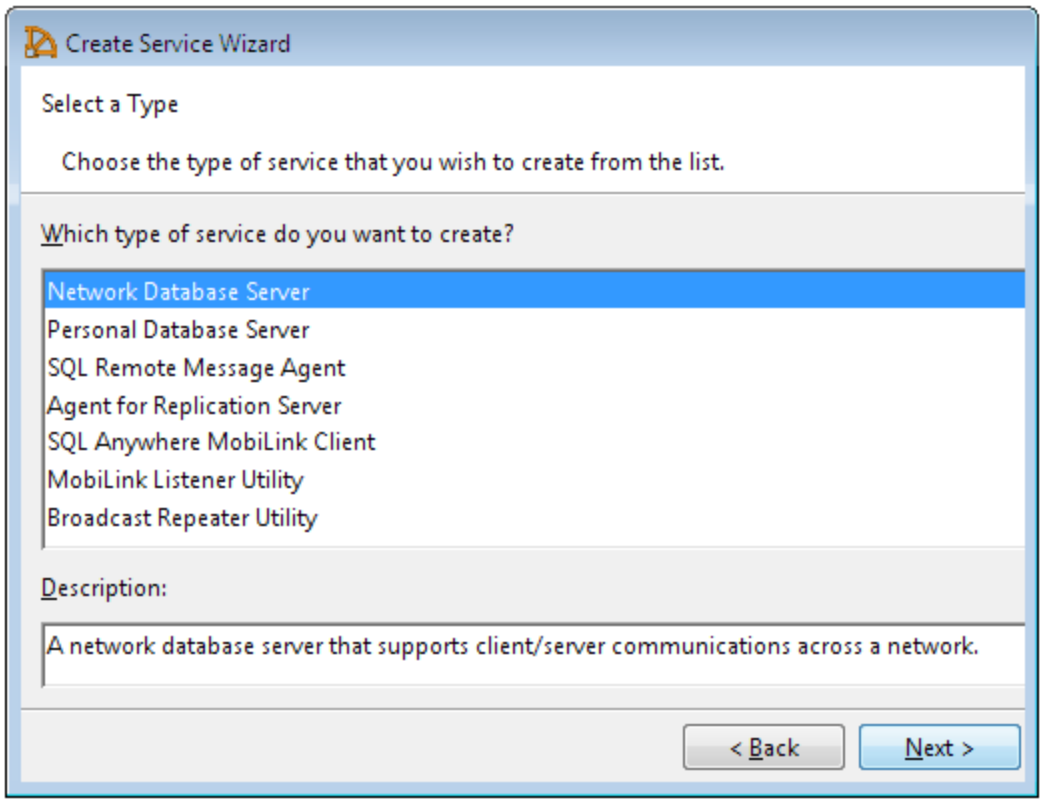


Figure 16 Create New Service - Select a Type window

Ensure that the Network Database Server option is selected and click **Next** to continue.

4. The New Service - Specify an Executable window opens.

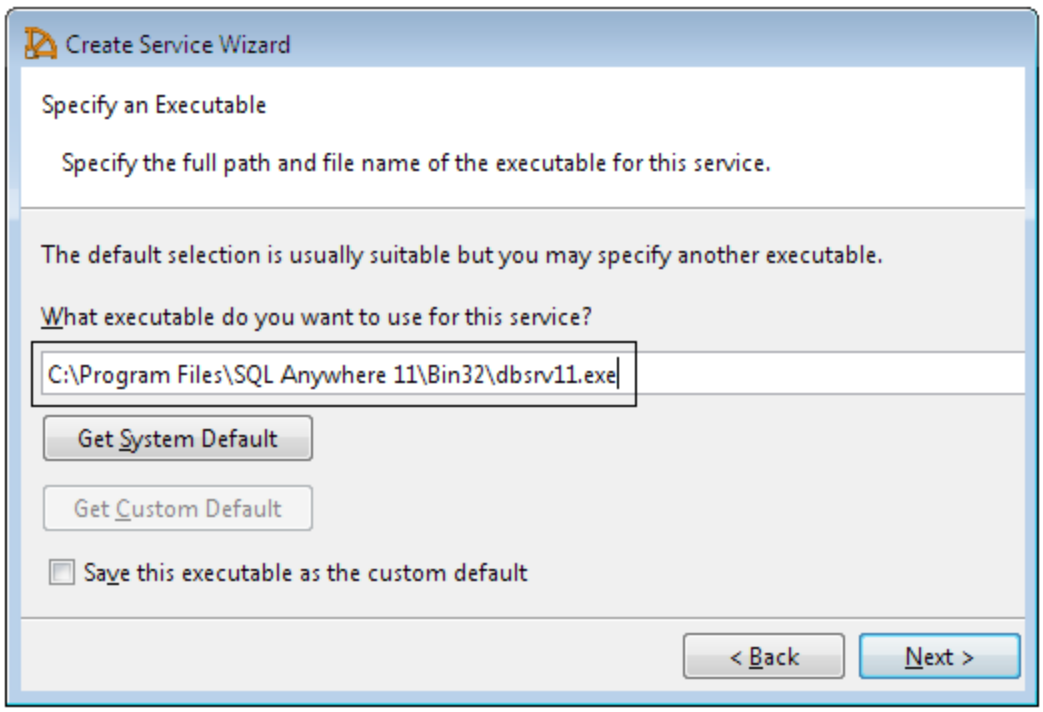


Figure 17 New Service - Specify an Executable window

Sybase Central selects the default installation path to locate the dbsrvn.exe file. If during the SQL Anywhere installation you installed this file in another location click the **Browse** button to locate it.

5. When the path is correct click **Next** to continue.

   The New Service - Specify Parameters window opens.

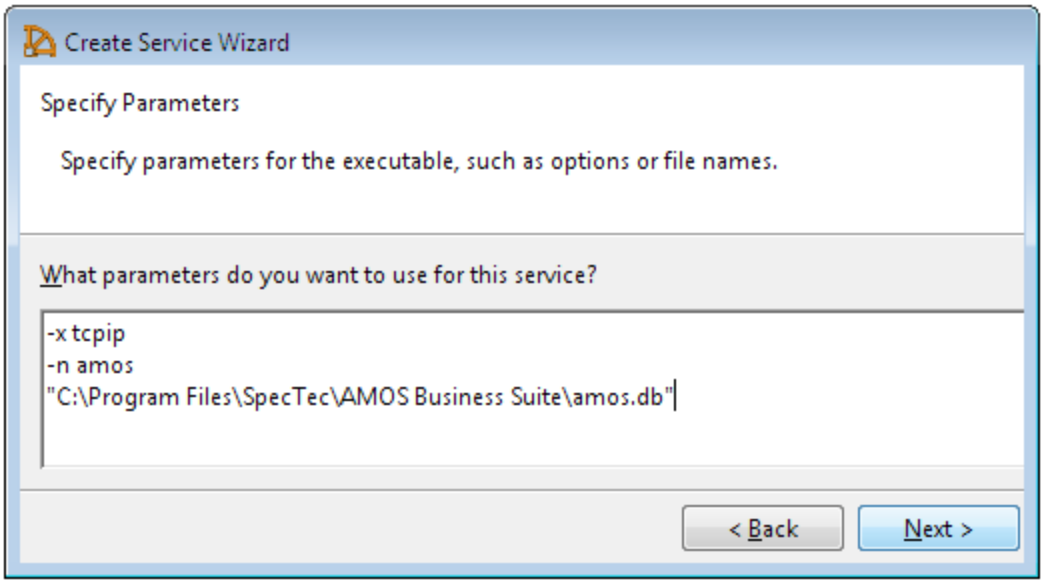


Figure 18 New Service - Specify Parameters window

Specify the necessary parameters and the path to the database you created in section 6.1.1. Type the three lines:

The first line indicates the type of communication protocol to be used and the second line indicates the server name. The third line is to indicate the path and file name where the actual database file is located (remember to use the quotation marks and type in the exact path and database name).

6. When all the details are correct click **Next** to continue.

   The New Service - Select an Account window opens.

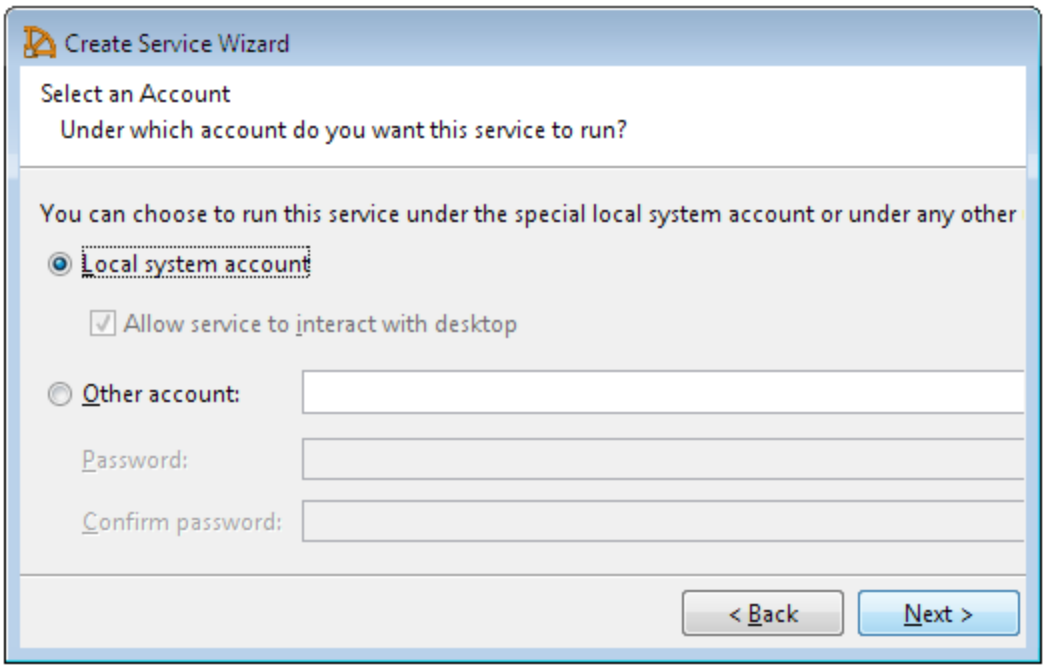


Figure 19 Create New Service - Select an Account window

The New Service - Account window should not need to be modified unless you want to hide the SQL icon that is displayed in the system tray next to the clock on the taskbar.

To hide the icon, clear the **Allow service to interact with desktop** checkbox.

7. Click **Next** to continue.

The New Service - Startup Type window opens.

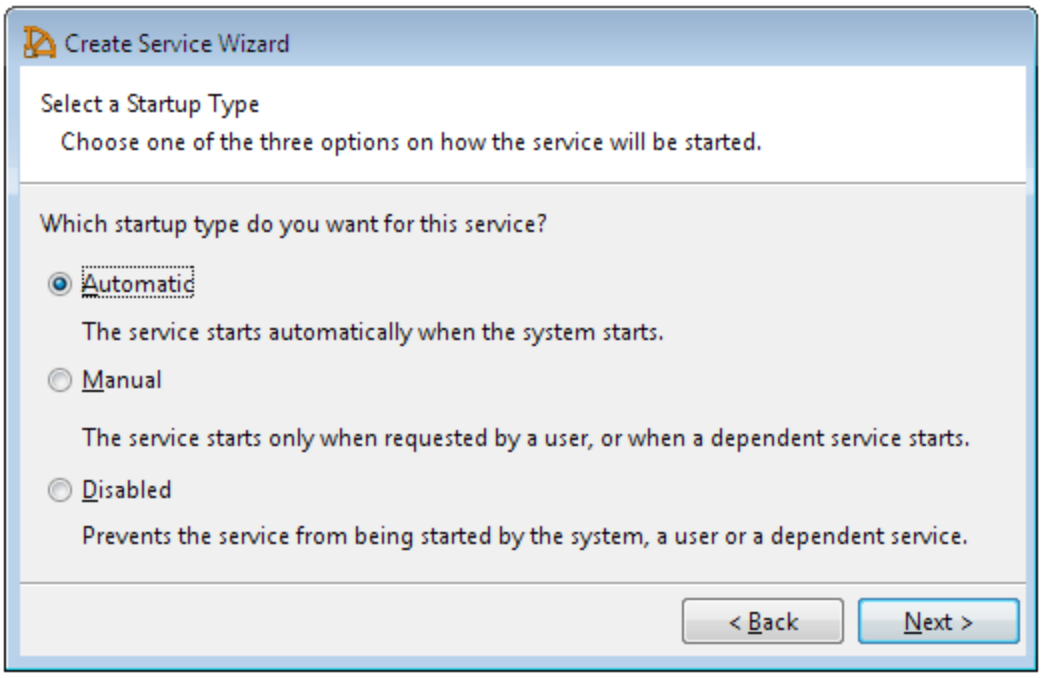


Figure 20 New Service - Startup Type window

SpecTec recommends that you use the default start-up setting **Automatic**, for a network server. This ensures that the service will always be available provided the host machine is running.

8. Click **Next** to continue.

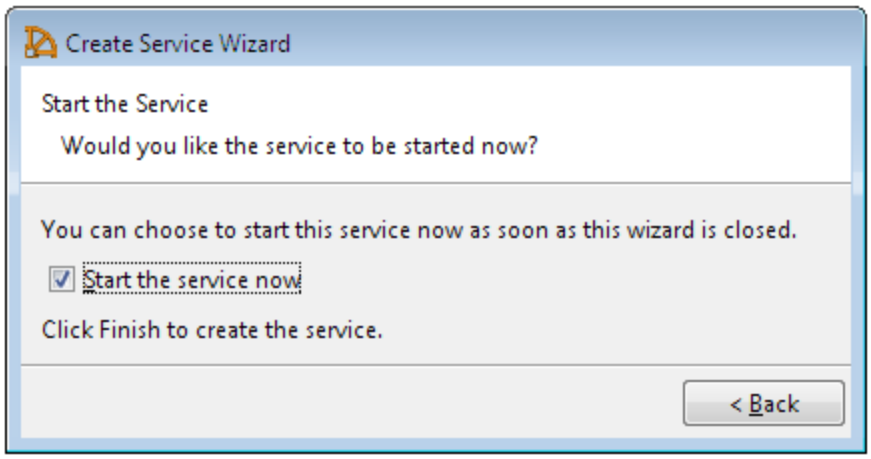


Figure 21 New Service - Start Now window

The final screen contains a checkbox enabling you to start the service upon completion. Check or clear the box as required, then click **Finish** to complete the service creation.

Once you have created the service called amos, you should see a screen showing that the service is created and running. To alter the settings for this service at any time, right-click on the service name and select Properties from the popup menu.

7.2 Configuring The Network Server Client Setup

Use the following procedure to configure the ODBC connection.

1. When the installation of SQL Anywhere Client is complete, go to **Start > Settings > Control Panel > Administrative Tools > ODBC**. Double-click to open the ODBC tool.
2. Click on the System DSN tab to create a new ODBC connection that will be available to all users on the current machine.
3. Click the **Add** button and select SQL Anywhere 10/11 from the pop-up window.

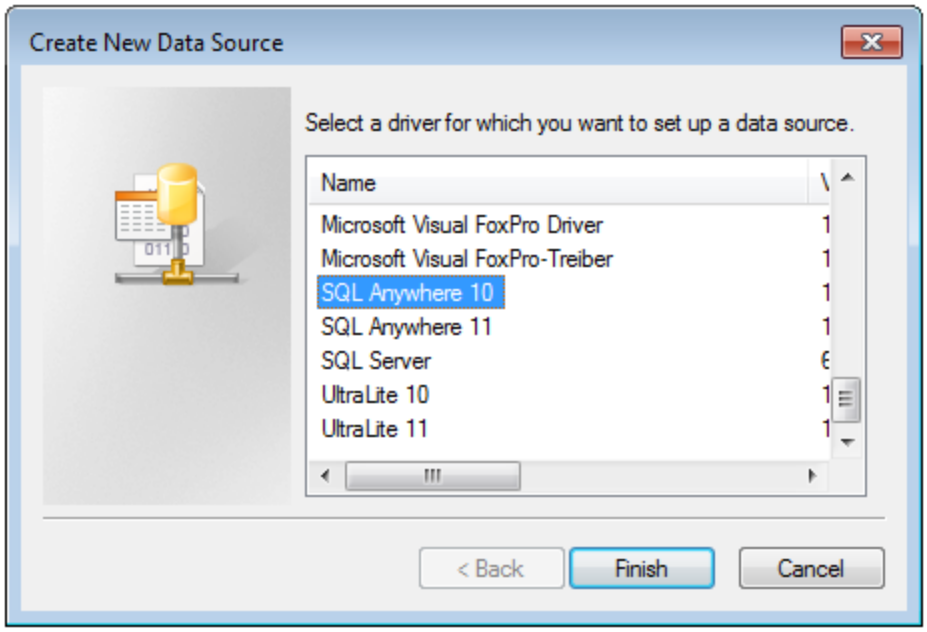


Figure 22 New Data Source dialog

4. Click **Finish** to continue. The ODBC Configuration for SQL Anywhere opens, at the ODBC tab.
5. Enter the **Data Source Name**. A DSN is for establishing the connection to your database. In this example, the DSN is amos.

   The screen should then appear as below:

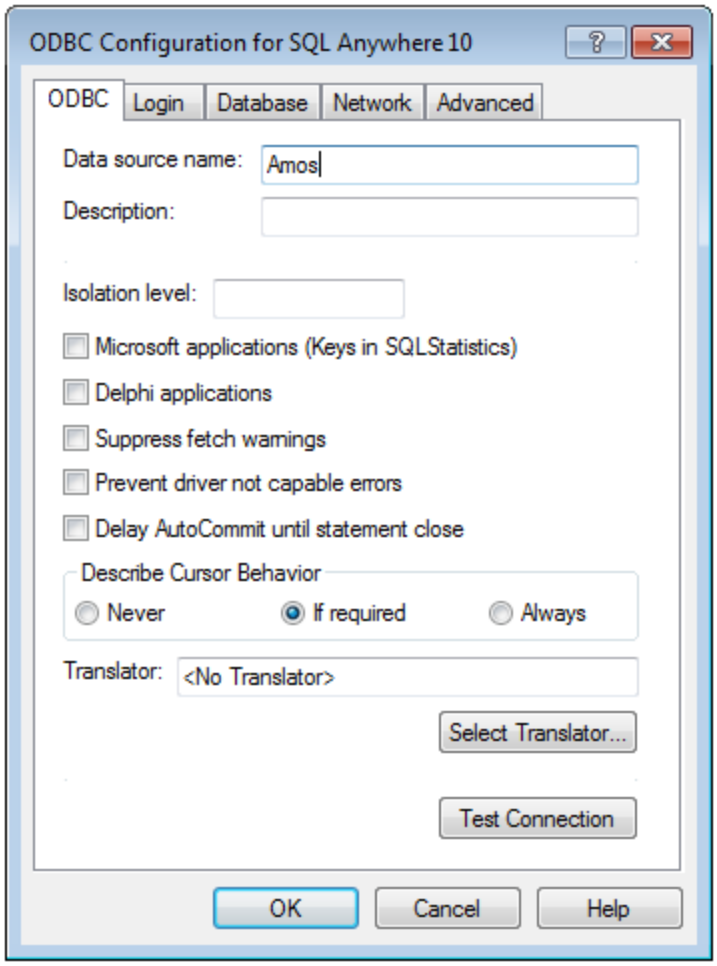


Figure 23 ODBC Configuration - ODBC tab

6. In the Login tab, enter the following User ID and Password:

- **User ID** - amos
- **Password** - voyager

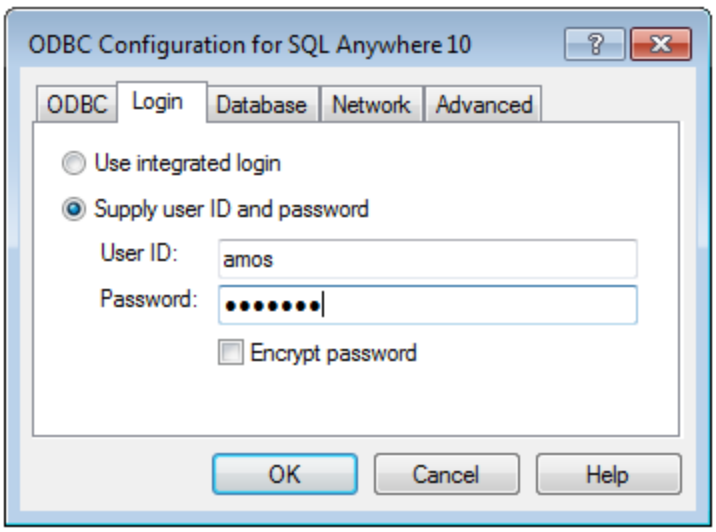


Figure 24 The Login tab

7. Open the Database tab. Enter the name of the database (in this example, amos) in the **Server Name** and (optionally) **Database Name** fields:

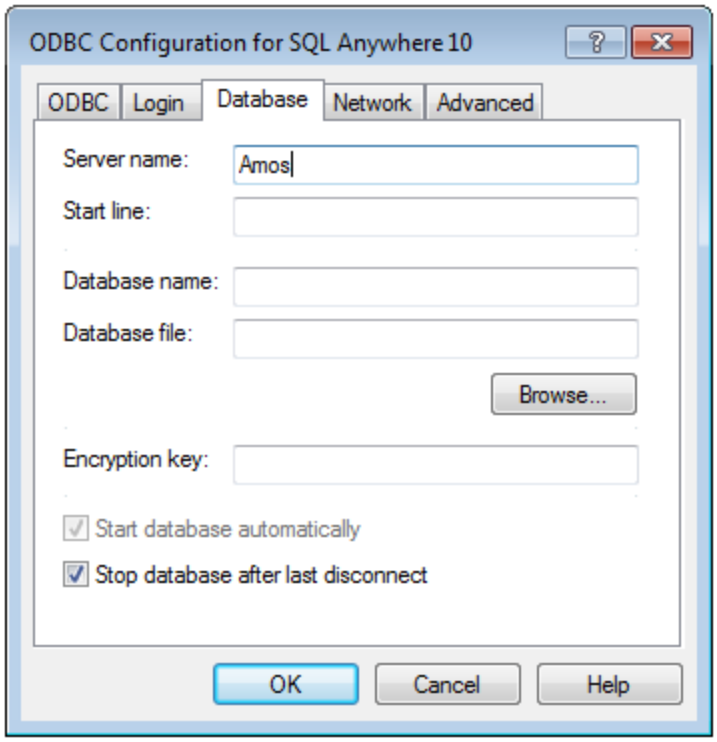


Figure 25 ODBC Configuration - Database tab

8. Open the Network tab. Select the network protocol **TCP/IP**.

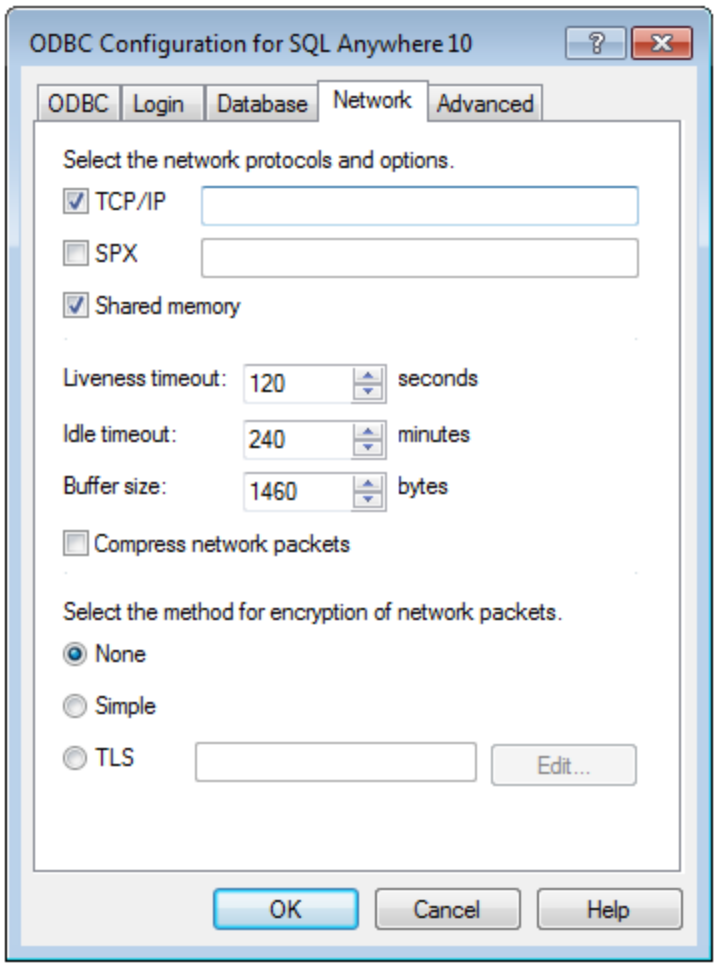


Figure 26 ODBC Configuration - Network tab

9. The Advanced tab requires no user alteration.
10. When you have entered the correct information, test the connection by clicking the **Test Connection** button at the bottom of the dialog in the ODBC tab. If the connection works, you will see a confirmation box.
11. Click **OK** to complete the ODBC set-up.

7.3 Configuring The Personal Server Client Setup

Use the following procedure to configure the ODBC connection for a Personal Server Client setup:

1. When the installation of SQL Anywhere Personal Server/Client Interfaces is complete, select **Start > Settings > Control Panel > Administrative Tools > ODBC** and double-click to open the ODBC Data Source Administrator dialog.
2. Open the System DSN tab to create a new ODBC connection that will be available to all users on the current machine.
3. Click the **Add** button. The Create New Data Source window opens.

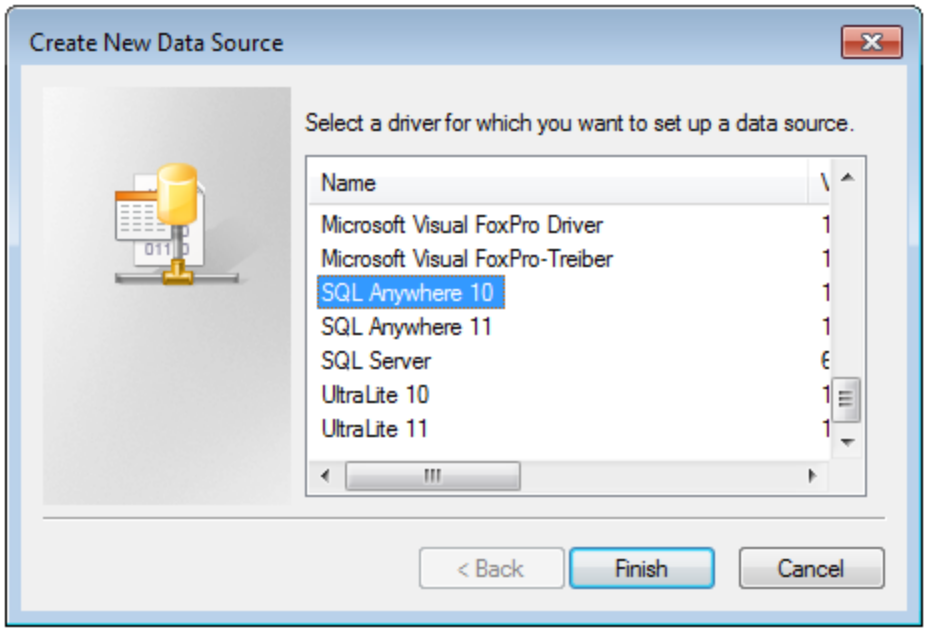


Figure 27 Create New Data Source screen

4. Select SQL Anywhere 10/11, and click **Finish** to continue. The ODBC Configuation dialog appears.
5. In the ODBC tab, enter the **Data Source Name**. A DSN is for establishing the connection to your database. In this example, the DSN is amos.

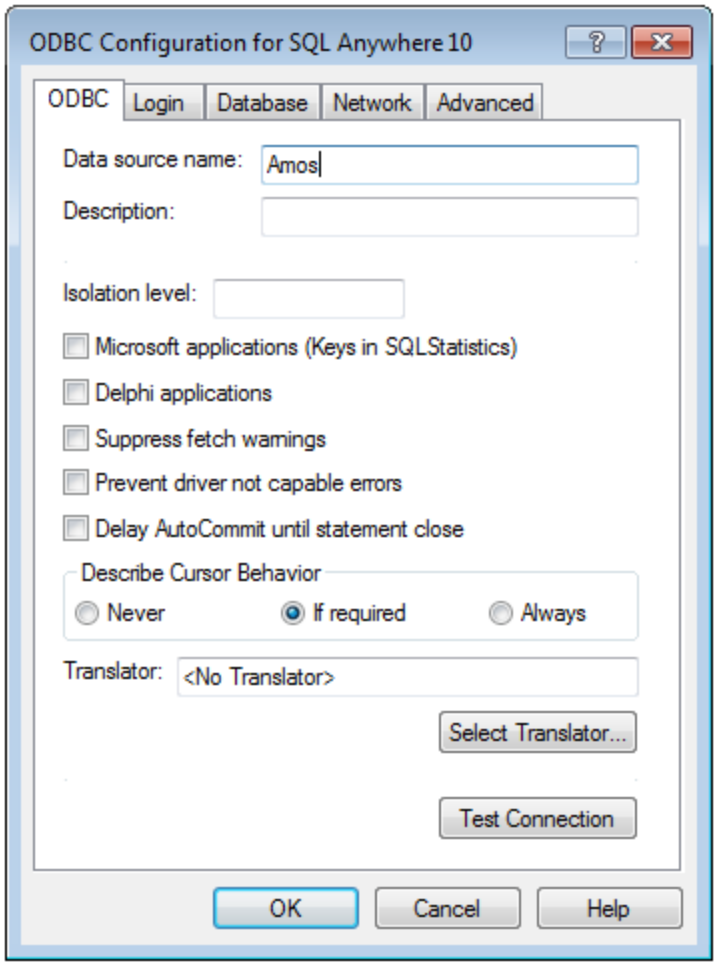


Figure 28 ODBC Configuration - ODBC tab

6. In the Login tab, enter the following User ID and Password:

- **User ID** - amos
- **Password** - voyager

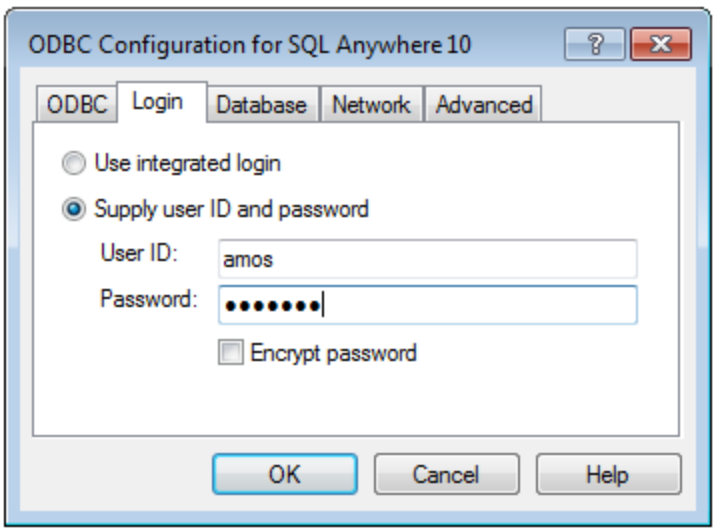


Figure 29 The Login tab

7. Open the Database tab. **Browse** to the location of the database file you created in section 6.1.1 and enter it in the **Database File** field.

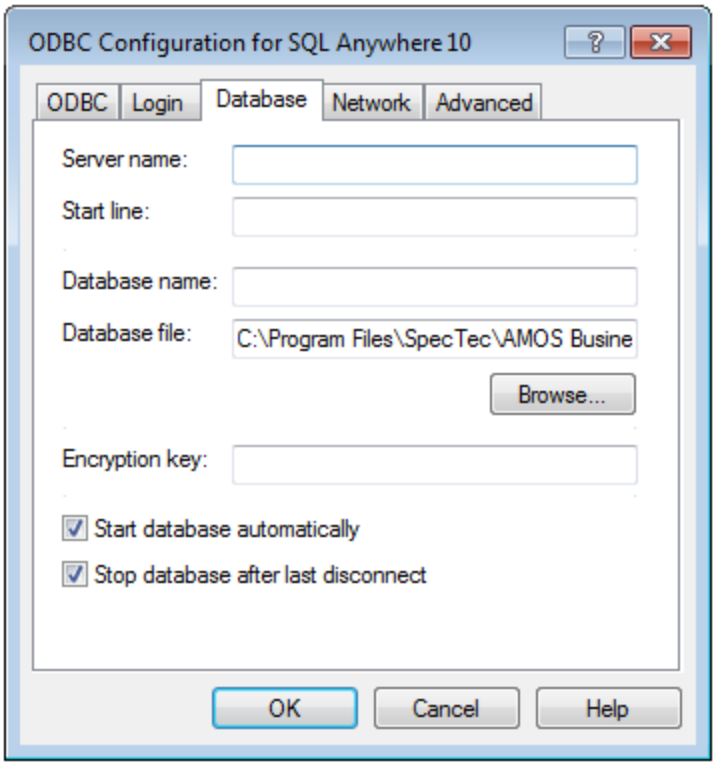


Figure 30 ODBC Configuration - Database tab

8. The Network tab requires no user alteration.
9. The Advanced tab requires no user alteration.
10. When you have entered the correct information, test the connection by clicking the **Test Connection** button at the bottom on the ODBC tab. If the connection works, you will see a confirmation box.
11. Click the **OK** button to complete the ODBC connection set-up.

CHAPTER 8 Modifying The Amosw.ini File

After you install AMOS Business Suite you may need to modify the settings in the amosw.ini file to allow AMOS to access the database, if the DSN in the .ini file is different from the one in the ODBC. Proceed with the modifications in the section for your DBMS below.

NOTE: Do not change the **DelimitIdentifier** setting in the amosw.ini file. DelimitIdentifier='no' is the default and changing it to 'yes' is not supported by the system on any DBMS.

After modifying the amosw.ini file, you are ready to start AMOS.

8.1 Sybase SQL Anywhere

To modify the amosw.ini file for Sybase SQL Anywhere:

1. If the AMOS application is not already installed, refer to Chapter 4 for instructions.
2. Open Windows Explorer and find the file named amosw.ini, which is in your AMOS Business Suite installation folder, normally c:\Program Files\SpecTec\AMOS\AMOS Business Suite <version number>.
3. Double-click the file to open it in your text editor.
4. Find the section called 'SQL Anywhere example', for the Sybase DBMS. Scroll to the header **[Database].**

   In the line beginning with DBParm=, change the **DSN** name to the name specified in the ODBC.

   Scroll to the header **[Import]**.

   Change the **DSN** name here again.
5. Deactivate the Oracle and MS SQL sections by adding a semicolon in front of these database entries as shown below:

   [;Database]
6. **Save** your changes before closing the file.

8.2 Oracle

To modify the amosw.ini file for Oracle:

1. If the AMOS Business Suite application is not already installed, refer to Chapter 4 for instructions.
2. Open Windows Explorer and find the file named amosw.ini, which is in your AMOS Business Suite installation folder, normally c:\Program Files\SpecTec\AMOS Business Suite <version number>.
3. Double-click the file to open it in your text editor.
4. Find the section called 'Oracle example', for the Oracle DBMS. Under the header **[Database]**, scroll to the line beginning with **ServerName**.

   Change the ServerName <yourDBserver> to the name specified when the database was created.
5. Scroll to the header **[Import].** Change the **ServerName** here again.
6. Deactivate the MS SQL and SQL Anywhere sections by adding a semicolon in front of these database entries as shown below:

   [;Database]
7. **Save** your changes before closing the file.

8.3 MS SQL

To modify the amosw.ini file for MS SQL:

1. If the AMOS Business Suite application is not already installed, refer to Chapter 4 for instructions.
2. Open Windows Explorer and find the file named amosw.ini, which is in your AMOS Business Suite installation folder, normally c:\Program Files\SpecTec\AMOS Business Suite <version number>.
3. Double-click on the file to open it in your text editor.
4. Find the section called 'Microsoft SQLServer example using ODBC', for the Microsoft DBMS. Scroll to the header **[Database]**.
5. Change the settings as follows.

   If you are installing with the **SQL Server driver**:

   in the line beginning with DBParm=

   change the **DSN** name to the name specified in the ODBC, in this case **AmosMSSQL**. Also ensure that **UID** is set to **amos** and that **pwd** is set to **voyager**.

   If you are installing with the **SQL Native Client driver**, ensure the settings appear as below:

   DBMS=SNC

   Logid=amos

   Logpassword=N+81cCW2k5A=

   PasswordScrambled=yes

   ServerName=<servername>

   DBParm=DisableBind=1,StaticBind=1,DelimitIdentifier='no',OJSyntax='ANSI_Escape'

6. Scroll down to the section marked **[Import]**:

   If you are installing with the **SQL Server driver**:

   ensure that the **DSN** corresponds to the **ODBC** setting you will be using, in this case **AmosMSSQL**. Also ensure that **UID** is set to **import** and that **pwd** is set to **tropmi**.

   If you are installing with the **SQL Native Client driver**, ensure the settings appear as below:

   [Import]

   DBMS=SNC

   Logid=import

   Logpassword=NtIkYW+94Q==

   PasswordScrambled=yes

   ServerName=<servername>

   DBParm=DisableBind=1,StaticBind=1,DelimitIdentifier='no',OJSyntax='ANSI_Escape'

7. Deactivate the Oracle and SQL Anywhere sections by adding a semicolon in front of these database entries as shown below:

   [;Database]

8. **Save** the changes before closing the file.

CHAPTER 9 Upgrading A Database

When you want to upgrade to a newer version of the AMOS Business Suite program, there will be an operational database that normally needs to be updated to the new program version. The AMOS-Util program handles this.

Read about running the AMOSUtil application in silent mode in section 6.2.

NOTE: Before you upgrade to a new version of AMOS Business Suite, make a back-up copy of the database and log files in case problems occur during the upgrade process. You will also be offered the chance to make a back-up during upgrade that will be automatically restored if the upgrade fails.

After you have installed the new AMOS Business Suite program version and started it, you will get a dialog box informing you that the database requires upgrading.

To carry out the upgrade:

1. Click **Yes**.

   The Upgrade Database - Select Database Manager dialog opens.

2. Specify the database manager used and click **Next** to continue.

   NOTE: Upgrading your database for MS SQL 2005/2008 can cause errors if your version of AMOS Business Suite is an earlier version which does not support MS SQL 2005/2008. To avoid any problems, upgrade to a version of AMOS Business Suite that supports MS SQL 2005/2008, before changing the DBMS to this version.

3. Follow the instructions and continue clicking **Next** in the wizard until the final dialog appears.
4. Click **OK** to complete the upgrade.

CHAPTER 10 Sending Email: Installing Ghostscript

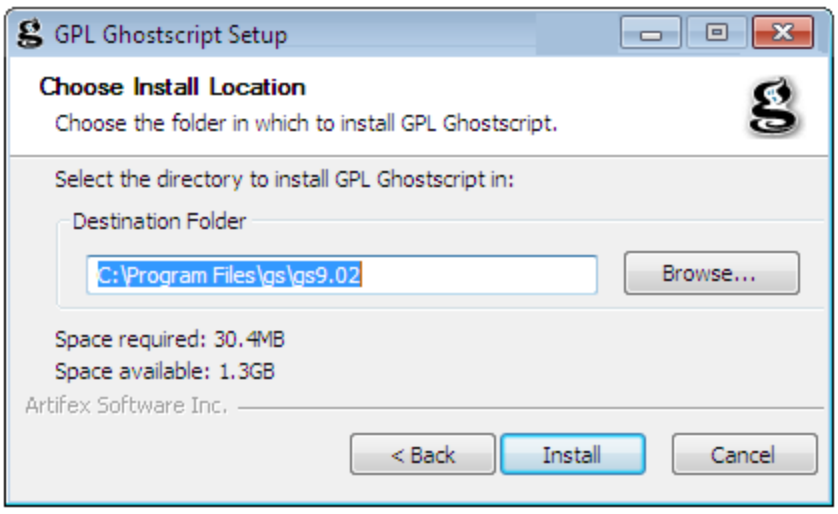
To send order forms from AMOS with multiple pages of items as emails with attachments, it is required to install Ghostscript.

After installing the driver, set the parameter 'Mail Attachment Type' to PDF Ghostscript. If you set this parameter before installing the driver, when a user attempts to print a form to email AMOS will inform the user to download and install Ghostscript.

Ghostscript is available at: http://www.ghostscript.com/

The following instructions apply to users running on Windows 7. If you are running on a different version of Windows, some steps will differ slightly.

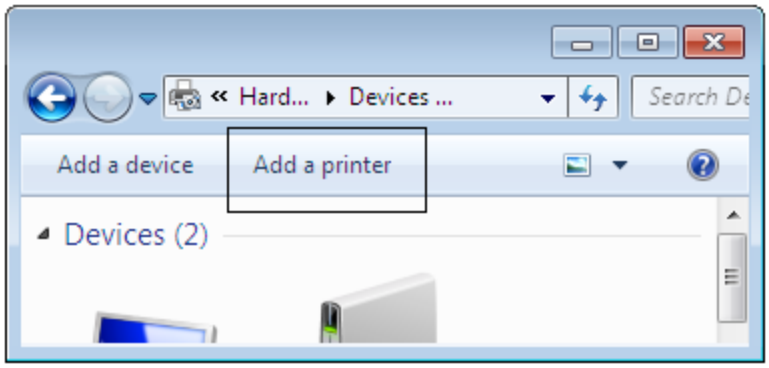
1. Double-click on the downloaded .exe file. Click **Next** in the Welcome dialog and **I Agree** in the License dialog.
2. The GPL Ghostscript Setup dialog appears. Choose the directory where you want to install Ghostscript:



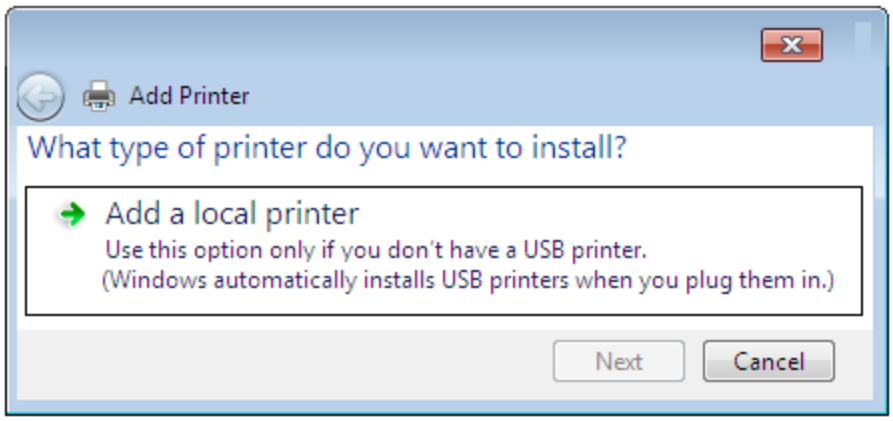
3. Click **Install**. A dialog will inform you when the installation is complete. Click **Finish**.

Configure the PDF printer:

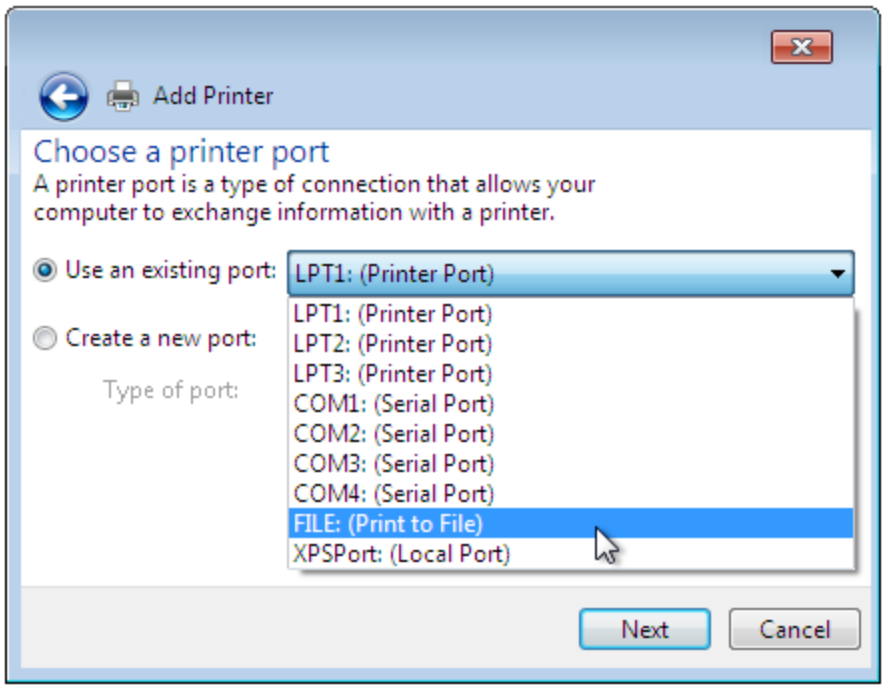
1. Go to **Start > Control Panel** and under 'Hardware and Sound' click on **View Devices and Printers**.
2. Click **Add a Printer**.



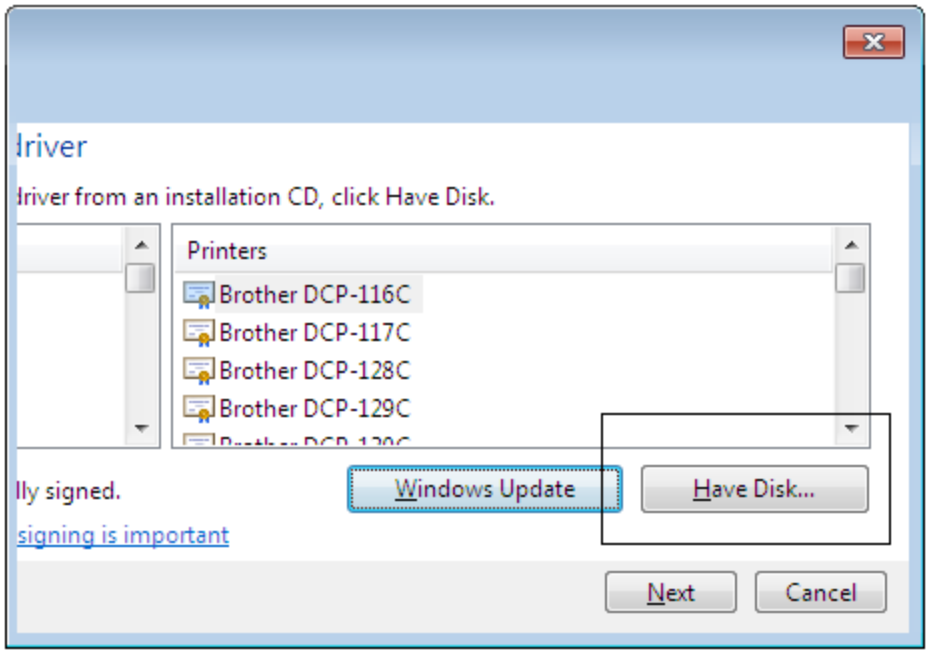
3. The Add Printer Wizard opens. Click on **Add a local printer**.



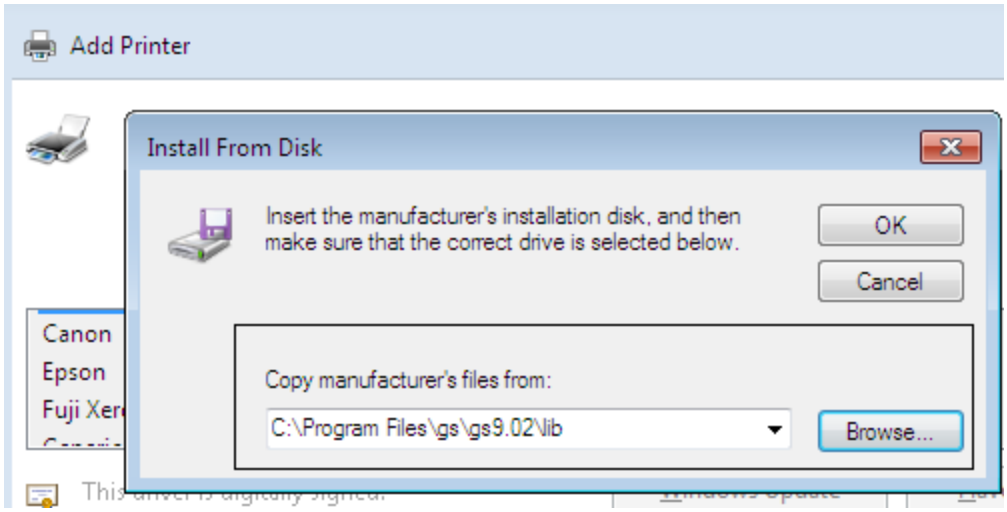
4. Select **Use an existing port** and then choose **FILE** from the drop-down list.



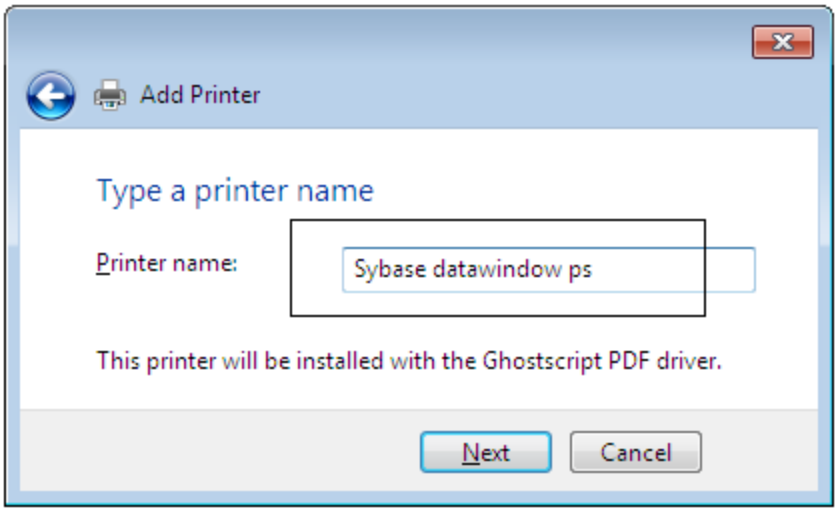
5. Click **Next**.
6. In the following dialog click **Have Disk...**



7. In the Install From Disk dialog, **Browse** to the ghostpdf.inf. This file is located in the path where you installed Ghostscript, in the folder \lib.



8. Click **Open** and then **OK**. You return to the Add Printer dialog; click **Next**.
9. In the next dialog, specify sybase datawindow ps in the **Printer Name** field.



10. Click **Next**. Then in the final dialog, click **Finish**.

After installing and configuring Ghostscript:

1. Open AMOS Business Suite.
2. Go to **Tools > Configuration > Parameters**.
3. Exapnd **Options > Purchase > Output** and select the 'Mail Attachment Type' parameter.
4. Set the parameter Globally to 'PDF Ghostscript'.
5. **Save** the window.

CHAPTER 11 AMOSUtil And Customised Triggers

Complex solutions built around AMOS often involve the installation of customised database triggers, procedures and functions. Such customisations are however deleted by AMOSUtil before upgrading the database. Rather than requiring the user to reinstall these customisations manually, AMOSUtil allows re-installation to be performed as part of the upgrading process.

AMOSUtil behaves as described below when upgrading or creating a database.

During Database Upgrade

1. All database triggers, procedures and functions are deleted.
2. Script file <DBMS>USINIT.SQL is executed before the upgrade starts.
3. Script file <DBMS>USFIN.SQL is executed after the upgrade completes.

During Database Creation

Script file <DBMS>USFIN.SQL is executed once the database has been created.

Where <DBMS> must be one of the following:

- 'AY' - representing Sybase SQL Anywhere
- 'MS' - representing Microsoft SQL Server
- 'OR' - representing Oracle

For example, AYUSINIT.SQL is the initial user-defined script for SQL Anywhere.

NOTE: All script file commands must be separated by the ¤ symbol.

CHAPTER 12 Administration Of SQL Anywhere Databases

The tools that come with SQL Anywhere permit you to customise the way the program stores data, handles users and even displays data. These tools are documented in the SQL Anywhere Manual, but you should be aware of the following features/tools.

Sybase Central lets you do quite a bit of administration: If you open up the utilities folder, the left hand window will contain a list of all utilities available along with a brief description of each.

12.1 SQL Anywhere Database Utilities

Database utilities support database administration and interactive data manipulation.

Database tools support administrative activities such as:

- Performing on-line backups
- Loading and unloading databases
- Validating table indexes

12.1.1 Sybase Central

Sybase Central is an integrated graphical database management environment, providing a collection of tools for SQL Anywhere database administration. More information on using Sybase Central can be found in the online help files and on the Sybase homepage at www.sybase.com.

12.1.2 Sorting

AMOS assumes that you write in English, and sorts accordingly. The way the database sorts records alphabetically is described in the SQL Anywhere documentation about Database Collation. For example, it can ensure that text containing the Scandinavian vowels æ, ø and å are sorted correctly.

12.1.3 Log Files

The database can maintain a log of every transaction, making it possible to regenerate a database after a crash. (If possible, the log file should be on a disk other than the database file.) See the DBLOG command line utility or the Transaction Log Utility (a Sybase Central utility). Note that if the database file changes name, the log file will not.

Log files can be used to make so-called incremental backups of the database or to rerun the actual commands that have been given.

12.2 Starting A Network Database Server Under Windows 2003/2008

Installing an SQL Anywhere database server engine starting as a Windows 2003/2008 service.

As a service

When the SQL Anywhere database server engine starts as a Windows 2003/2008 service, it logs on using a special system account called LocalSystem, or an account specified for it as a service.

The service is not tied to the user ID of the person starting it, and therefore is not stopped when that person logs off.

An SQL Anywhere database server running as a service can be configured to start automatically when the Windows 2003/2008 computer is started, before a user logs on.

The Services option in the Windows 2003/2008 Control Panel permits control of most aspects of services, including the services of the SQL Anywhere database server engine. SQL Anywhere has its own Service Manager that provides a more convenient and comprehensive way of managing services.

As a program

When the SQL Anywhere database engine starts as a Windows 2003/2008 program, it runs under the user ID of the person starting it and for only as long as the login session lasts. This restricts the use of the computer and reduces the potential security risk.

CHAPTER 13 Other Installation Issues

13.1 Copying Data - Configuring DBCopy

DBCopy is a PowerBuilder program that copies data from one database to another. The application is used when converting data from AMOS-D to MS-SQL Server databases. The conversion procedure from AMOS-D to AMOS Business Suite on MS-SQL Server is not as easy and straightforward as for Sybase ASA databases.

DBCopy uses an ODBC driver towards MS-SQL Server. It is therefore necessary to check that this is properly set up to be able to run DBCopy. The **.ini** file consists of Destination and Source parameters.

- **Source** contains the parameters DBCopy needs to connect to the source database, which is the database from which data will be copied.
- **Destination** is the MSS server to which data will be copied.

DBCopy.ini should look something like this:

[Destination]

DBMS=ODBC

DBParm=connectstring='DSN=xanticmssql;UID=amos;pwd=<password>'

[source]

DBMS=ODBC

DBParm=connectstring='DSN=XXXX;UID=amos;pwd=<password>',

(no line breaks)

where XXXX represents the name of the ODBC connection for ASA.

It is also important that it is possible to connect to MS-SQL Server using ODBC. If the customer does not possess this option, it is possible to install DBInstall, which is to be used anyway.

After DBInstall has been installed, use the **Regedit** program to check that an ODBC connection has been established:

1. Click **H_KEY_LOCAL_MACHINE**.
2. Click **SOFTWARE**.
3. Click **ODBC**.
4. Click **XANTICMSSQL**.

The last folder contains the DLLs to be used for the connection to MSS using the ODBC driver. This is set up during installation of DBInstall.

If everything is set up correctly in DBCopy.ini and the ODBC drivers are available for SQL Anywhere and MS SQL Server database types, you will be able to start DBCopy. If some parameters are set incorrectly, you will not be able to start DBCopy.

13.2 Changing The Database Connection Password

You can change the database connection password for all three database platforms. The new password can be scrambled using a utility in AMOS Business Suite found at **Tools > Utilities > Password Scrambling**, which places the scrambled version of the password into the clipboard.

Copy the scrambled password into the "Logpassword=" parameter of the **Amosw.ini** file for the [Database] and [Import] sections. Below is an example of how this could look:

```
[Database]
DBMS=ODBC
DBMSSyntax=MSS
Logpassword=tpovxcrzx1h8m;ap2c7n
PasswordScrambled=yes
DBParm=connectstring='DSN=mssql;UID=amos;pwd=%password%',DisableB...
```

The Logpassword setting is only taken into account if the parameter PasswordScrambled = yes.

NOTE: The password scramble utility is available from your local AMOS supplier.

13.3 Converting Data From AMOS-D

Converting data from AMOS-D to AMOS Business Suite requires several steps:

- You need to convert the AMOS-D data to flat files.
- You need to run an application that handles the data from the first step and formats these to the file that is to be imported into AMOS Business Suite.
- You need to import the formatted files from the previous step into AMOS Business Suite.

We have specialised software called **AMOS Talk** for converting AMOS-D databases to AMOS Business Suite format. Contact your local AMOS Supplier, or email us on **support@spectec.net**.

13.4 Trouble-Shooting

- **Problem**: Data is truncated:

  The user gets a message that the table or register he opens in AMOS Business Suite has been truncated.

  Suggestion: In the amosw.ini file, set StaticBind=0. See the example below.

  [Database]

  DBMS=ODBC

  DBParm=connectstring='DSN=alph;UID=amos;pwd=%password%',

  DelimitIdentifier='no',DisableBind=1,StaticBind=0

- **Problem**: On starting AMOS Business Suite, some DLLs are not found:

  On new installations of AMOS Business Suite, you could get a message that some of the DLLs are missing. These will normally be MSVCIRT.DLL, OLEPRO32.DLL and MCVCRT40.DLL. These are system files that are to be used by the Windows operating system. They should normally be placed in the windows/system32/ directory.

- **Problem**: Unable to view open objects containing templates:

  An MSSQL user could be unable to open certain records (history, work orders, etc.) that contain complex templates. Instead the user receives an illogical syntax error in template definition but the same template worked before upgrade, or on Sybase.

  And/Or:

  Problem: Unable to insert large pictures or text when using the enhanced editor:

  An MSSQL user could be unable to insert pictures when using the enhanced editor (even if the size is within the editor size parameter setting). The picture is not visible when the screen is re-opened, and after closing AMOS the system locks when trying to access the record.

  Suggestion: Within the pbodb115.ini file located in the AMOS installation folder, amend the following:

  In the [Microsoft SQL Server] section, scroll down to the following lines:

  PBMaxBlobSize='32767'

  PBMaxTextSize='32767'

  Now change the lines to read:

  PBMaxBlobSize='327670000'

  PBMaxTextSize='327670000'

  And **Save** the file.

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