

## **ASTRA V: SQL Server 2002 Configuration**

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To use SQL Server as the repository for Experiment and Sample Set data files, the following conditions are required:

- Windows 2000 or XP Professional (XP Home does not support the minimum network requirements to run ASTRA with the Security Pack feature enabled).
  - Step 1 – Windows User Accounts and Groups for access to ASTRA and SQL databases used by ASTRA.
  - Step 2 – A SQL Server database with “dbo” access permissions to create, read and write tables and records.
  - Step 3 – An ODBC connection on the computer running ASTRA to a SQL Server database.
  - Step 4 – One or more Windows User Accounts with Local or Domain Group membership in an ASTRA recognized Windows Group account.
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### Step 1 – Setup User Accounts for ASTRA and SQL Server Database Access

- A. Create the required Local Groups or Domain Groups for access permissions for ASTRA.

When the Security Pack feature is enabled User accounts and Groups managed as Microsoft Windows User Accounts and Groups are used to control access to ASTRA and its features.

Once the Security Pack feature is enabled ASTRA will require a User Account membership in one of the following Windows Groups.

**NOTE:** the group names that follow are **case sensitive** and there is **one space** between the word **ASTRA** and the category description.

#### **ASTRA Administrator**

This group provides Administrative access permissions to ASTRA. Membership to this group permits access to all features of ASTRA, including maintenance privileges to delete data. This group has all of the privileges of ASTRA Researcher, ASTRA Technician and ASTRA Guest.

#### **ASTRA Researcher**

Ability to perform non-Administrative actions (create/modify data files, configure hardware and collect data. Membership in this group excludes the ability to delete data. This group has all of the privileges of ASTRA Technician and ASTRA Guest group.

#### **ASTRA Technician**

This group has the ability to use existing templates for data collection, analysis and saving resulting from the usage of a template. The group of existing Sample Set and/or Experiment Templates is restricted to templates created by an ASTRA Research or ASTRA Administrator account and those installed with ASTRA. This group has all of the privileges of ASTRA Guests.

#### **ASTRA Guest**

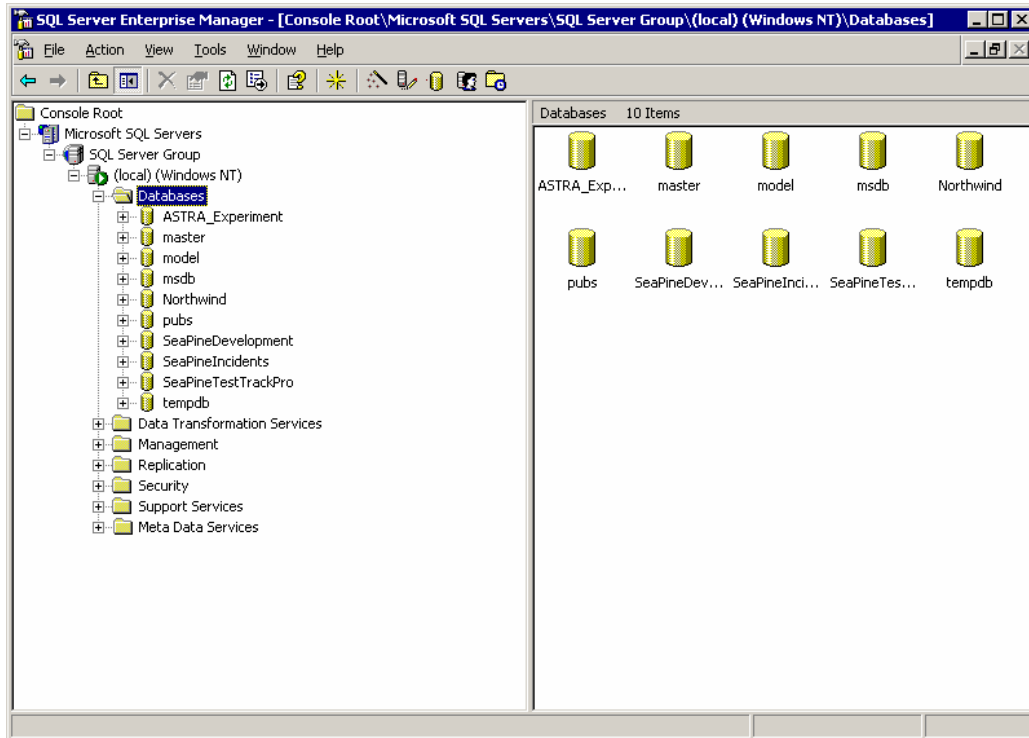
This group permits read-only access permission to ASTRA and stored data. This group can open data files for viewing analysis results and/or printing. This group does not have the ability to modify stored data. This group can be used for auditing log files and data.

- B. Create necessary User Account(s); add the User Account(s) to one of the Groups from step A.

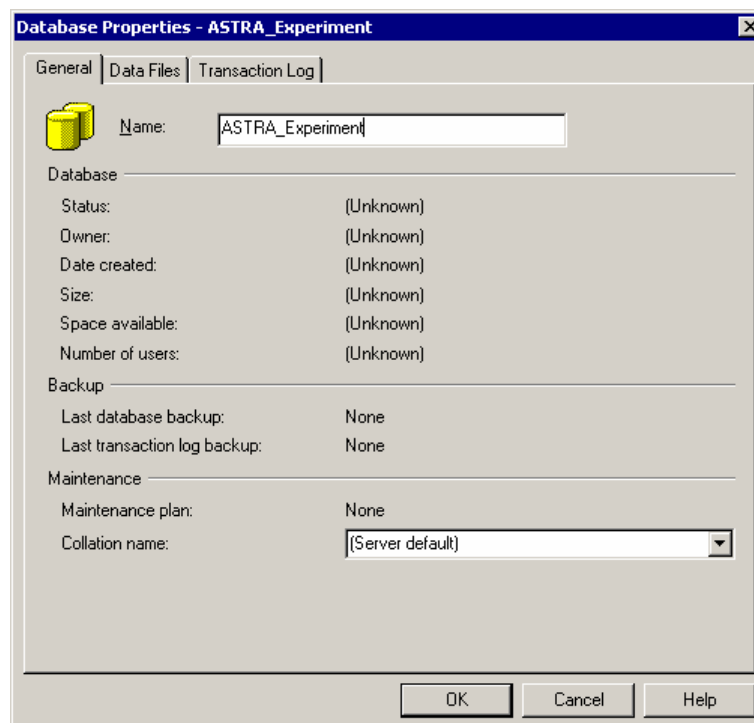
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### Step 2 – Configure SQL Server Database

- A. Run SQL Server Enterprise Manager.
- B. Navigate to “Databases” section.



- C. Right-click on Databases and select “New Database...”. The Database Properties dialog will be displayed:

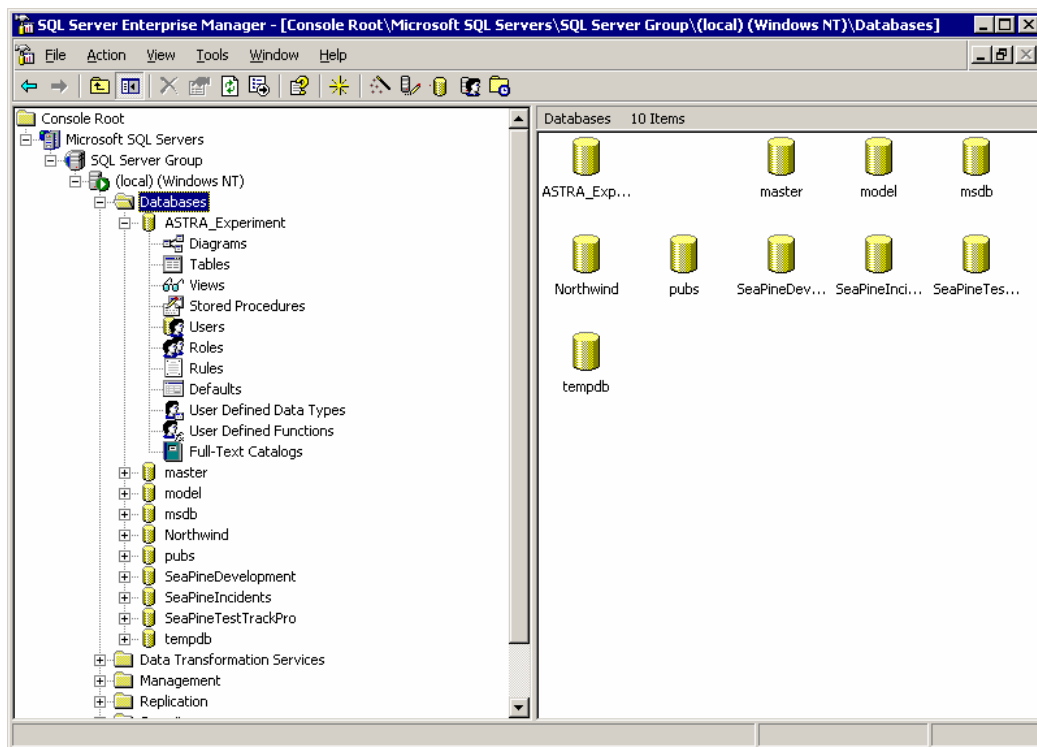


Enter a unique database name and press OK. A new Databases entry with the specified name will be listed under M6003 Rev B

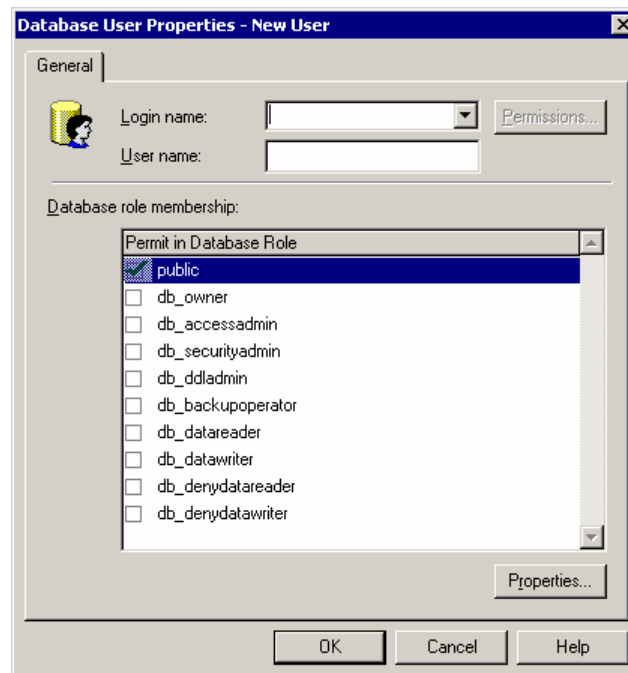
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Databases. “**ASTRA\_Experiment**” will be used from here on to represent the name of the newly created database.

- D. Expose the database properties for the new database by expanding the tree for **ASTRA\_Experiment**.

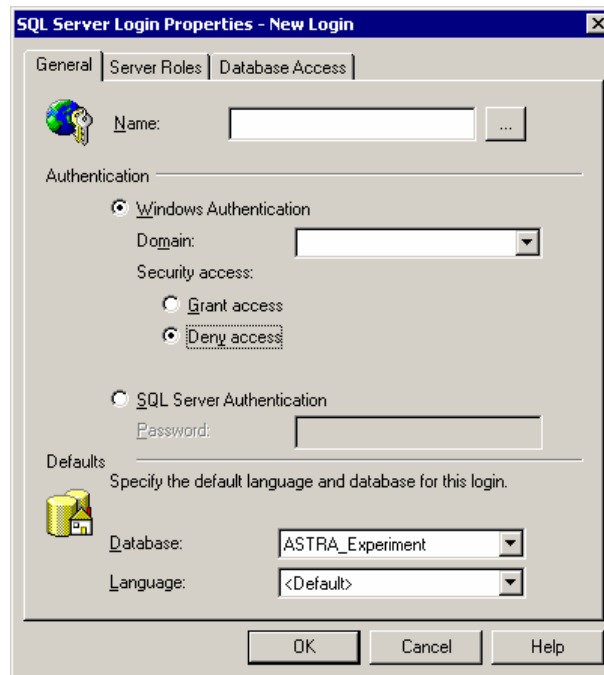


- E. Right-click on the Users entry for **ASTRA\_Experiment** and select “New Database User...”. The Database User Properties – New User dialog will be displayed:



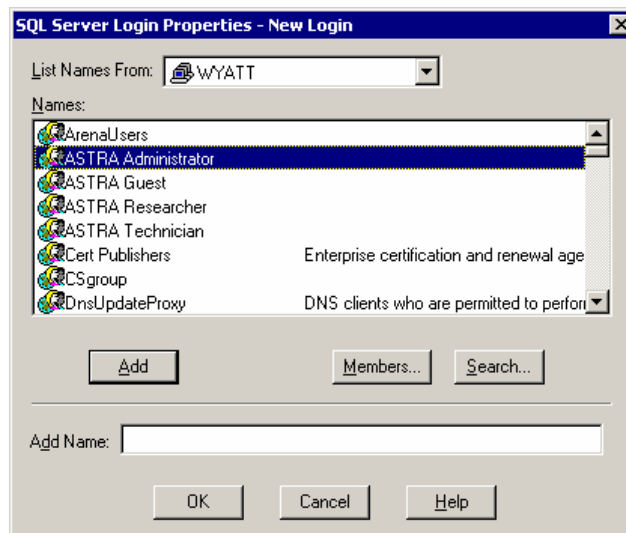
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F. In the “Login name” field select <new>. The New Login dialog will be displayed:



G. In the “Database” field near the bottom of the dialog select **ASTRA\_Experiment**.

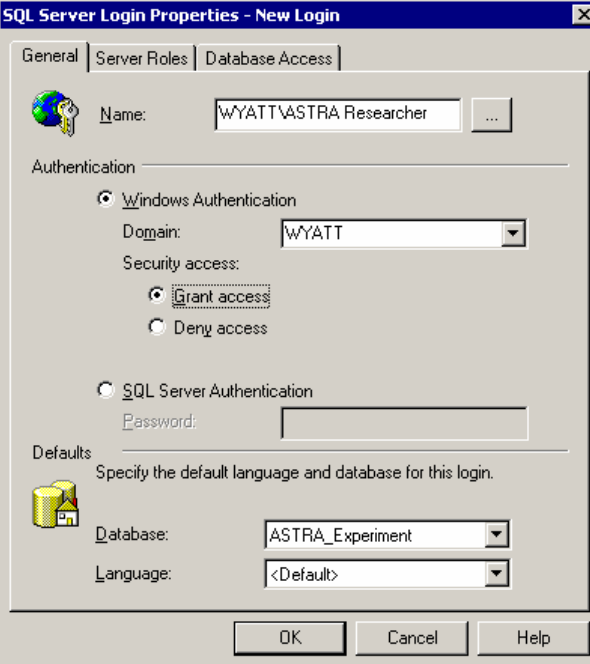
H. Press the “...” Browse button following the “Name” field. The following dialog is displayed:



I. Use the “List Names From” field to select the domain containing the ASTRA groups created in Step 1 – Setup User Accounts for ASTRA and SQL Server Database Access.

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- J. Select one of the ASTRA groups created in Step 1 – Setup User Accounts for ASTRA and SQL Server Database Access and press the **Add** button to place, then press OK. The following dialog will be updated with the selection:

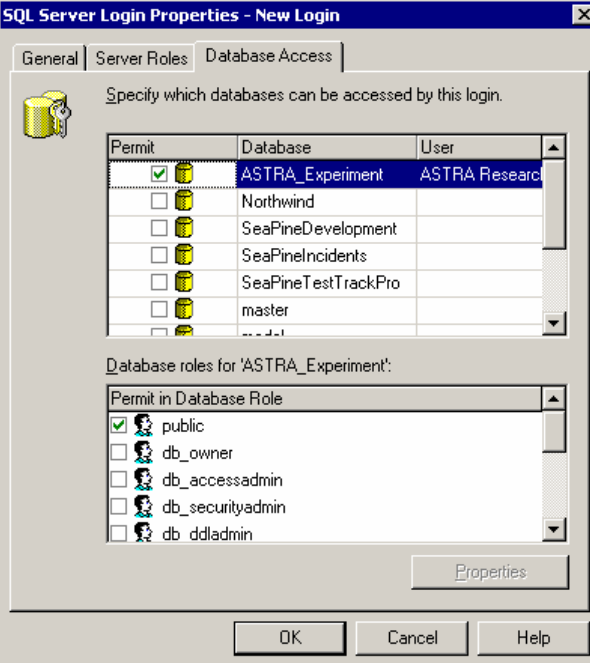


The dialog box is titled "SQL Server Login Properties - New Login". It has three tabs: "General", "Server Roles", and "Database Access". The "General" tab is selected. It contains the following fields and options:

- Name:** WYATT\ASTRA Researcher
- Authentication:**
  - ☒ Windows Authentication
    - Domain:** WYATT
    - Security access:**
      - ☒ Grant access
      - ☐ Deny access
  - ☐ SQL Server Authentication
    - Password:** (empty field)
- Defaults:** Specify the default language and database for this login.
  - Database:** ASTRA\_Experiment
  - Language:** <Default>

Buttons at the bottom: OK, Cancel, Help.

- K. Grant access permissions by selecting "Grant Access" under Windows Authentication.
- L. Select the Database Access tab. The following dialog will be displayed:



The dialog box is titled "SQL Server Login Properties - New Login". It has three tabs: "General", "Server Roles", and "Database Access". The "Database Access" tab is selected. It contains the following fields and options:

- Specify which databases can be accessed by this login.**
- | Permit                              | Database            | User             |
|-------------------------------------|---------------------|------------------|
| <input checked="" type="checkbox"/> | ASTRA_Experiment    | ASTRA Researcher |
| <input type="checkbox"/>            | Northwind           |                  |
| <input type="checkbox"/>            | SeaPineDevelopment  |                  |
| <input type="checkbox"/>            | SeaPineIncidents    |                  |
| <input type="checkbox"/>            | SeaPineTestTrackPro |                  |
| <input type="checkbox"/>            | master              |                  |
| <input type="checkbox"/>            | model               |                  |
- Database roles for 'ASTRA\_Experiment':**
- | Permit in Database Role             | Role             |
|-------------------------------------|------------------|
| <input checked="" type="checkbox"/> | public           |
| <input type="checkbox"/>            | db_owner         |
| <input type="checkbox"/>            | db_accessadmin   |
| <input type="checkbox"/>            | db_securityadmin |
| <input type="checkbox"/>            | db_ddladmin      |
- Properties** button

Buttons at the bottom: OK, Cancel, Help.

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- M.** Select Permit row for **ASTRA\_Experiment** and enable access by toggling the check mark for Permit.
- N.** Select any column of the **ASTRA\_Experiment** row and set the **Database roles for 'ASTRA\_Experiment'** in lower section of the dialog, enabling the following:
  - db\_ddladmin
  - db\_datareader
  - db\_datawriter
- O.** Repeat steps F through N for all ASTRA access groups.
- P.** Exit the Enterprise Manager.

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### Step 3 – Setup ODBC connection to SQL Server Database

**Note:** Depending on your network security permissions, this step may require that you log onto the local computer with an account with administrative permissions.

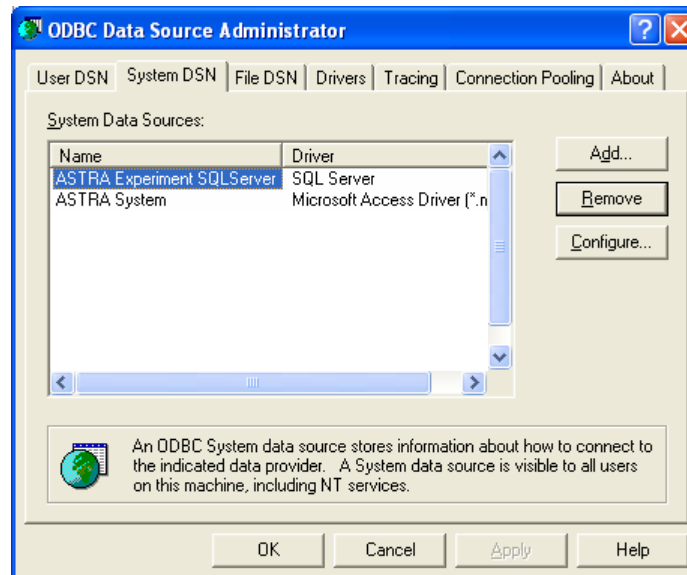
**Q.** Logon to the computer which will be running ASTRA.

**R.** Open Data Sources (ODBC).

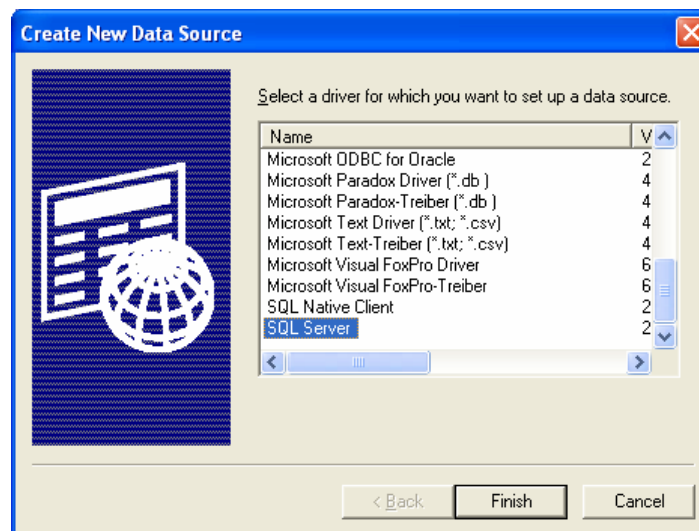
**Windows XP:** navigate to Start, Control Panel, Administrative Tools and select Data Sources (ODBC).

**Windows 2000:** navigate to Start, Settings, Control Panel, Administrative Tools and select Data Sources (ODBC).

The ODBC Data Source Administrator will be displayed.



**S.** Select the System DSN tab in the Administrator and press Add to create a reference to the existing SQL Server Database created in Step 2 – Configure SQL Server Database. The Create new Data Source dialog will be displayed:

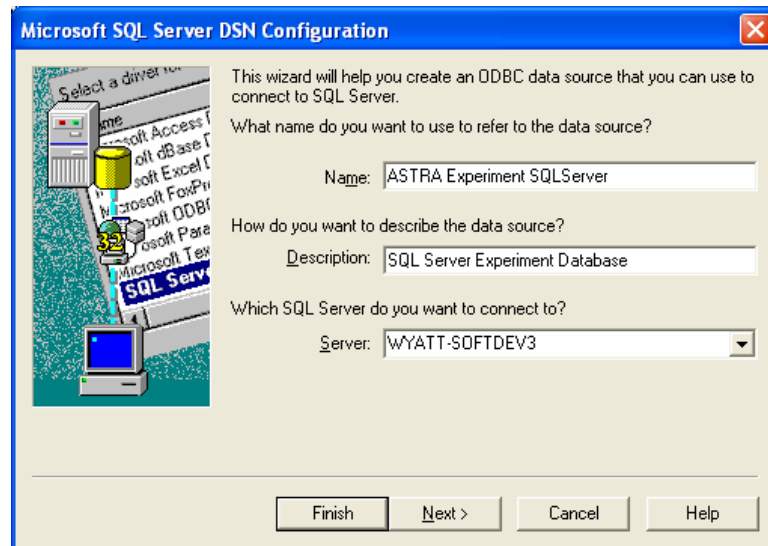


**T.** Select "SQL Server" and press Finish. The Create a New Data Source to SQL Server dialog will be displayed:

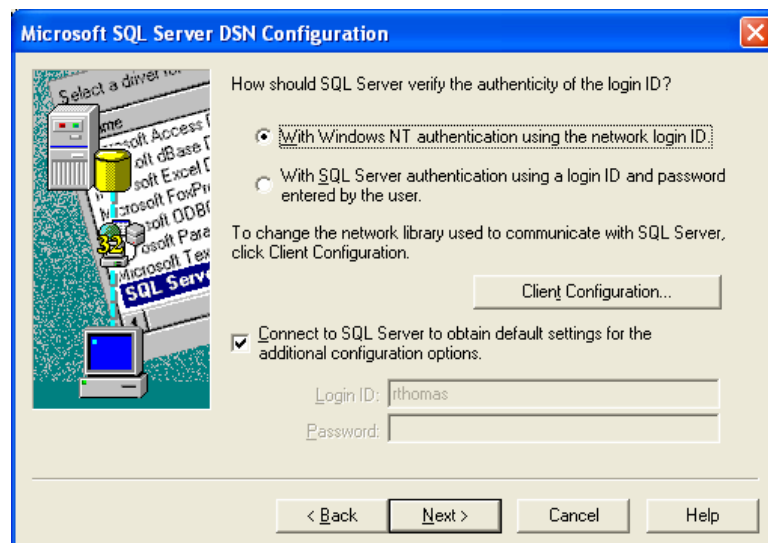


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- U. Enter a unique name for the ODBC connection and select the server hosting the SQL Server Database.



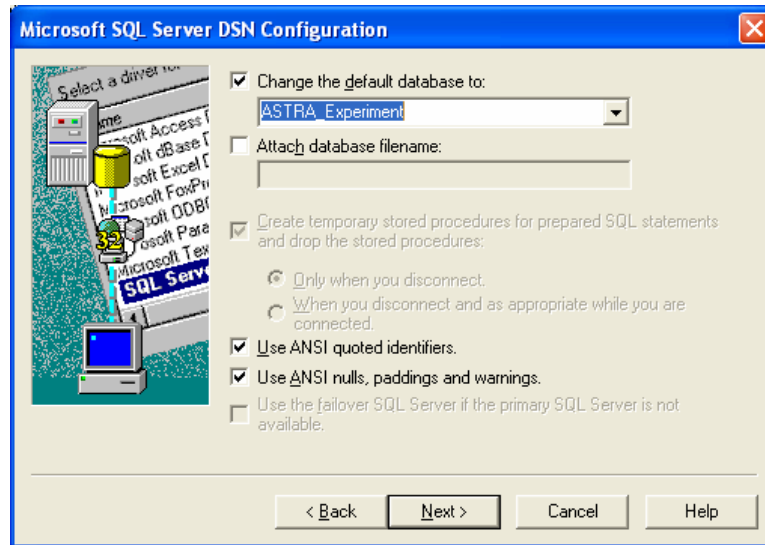
Press Next to proceed to the next step. The Microsoft SQL Server DSN Configuration will be displayed:



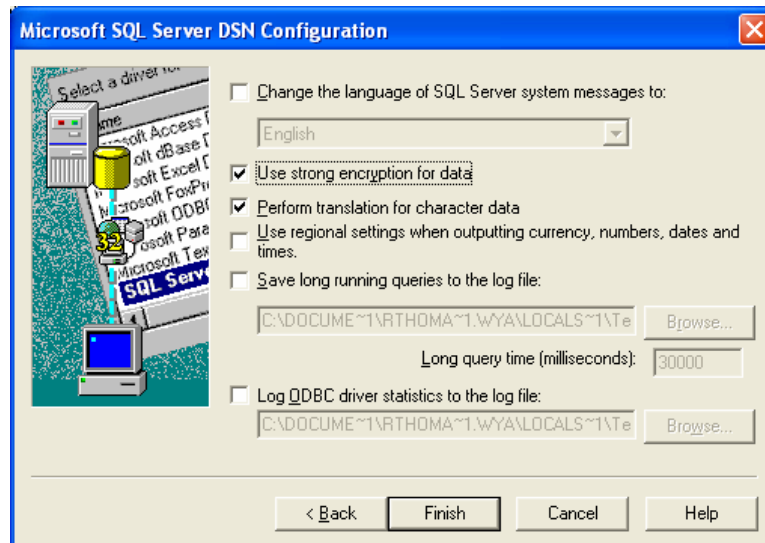
- V. Select "With Windows NT authentication using the network login ID".

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- W. Enable “Connect to SQL Server to obtain default setting for the additional configuration options”. Press Next to proceed to the next step. The following dialog will be displayed:



- X. Enable “Change the default database to:” and select the SQL Server Database from Step 2 – Configure SQL Server Database. Press the Next to proceed to the next step. The following dialog will be displayed:

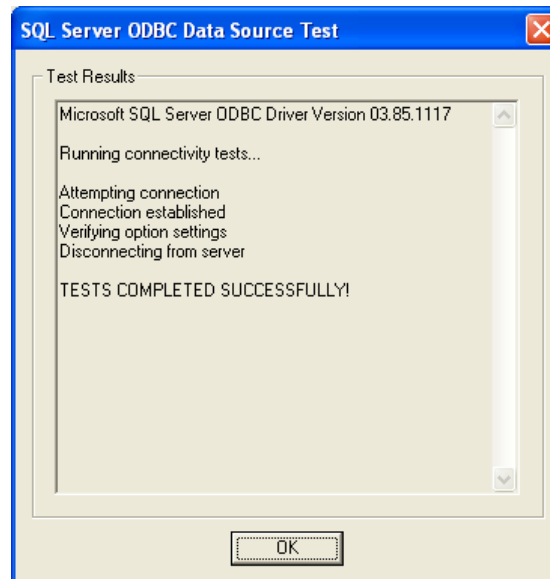


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Y. Press Finish to complete the setup. The following dialog will be displayed:



Z. Press "Test Data Source..." to validate the setup. If successful, the following dialog will be displayed:



AA. Press OK to close the SQL Server ODBC Data Source Text dialog.

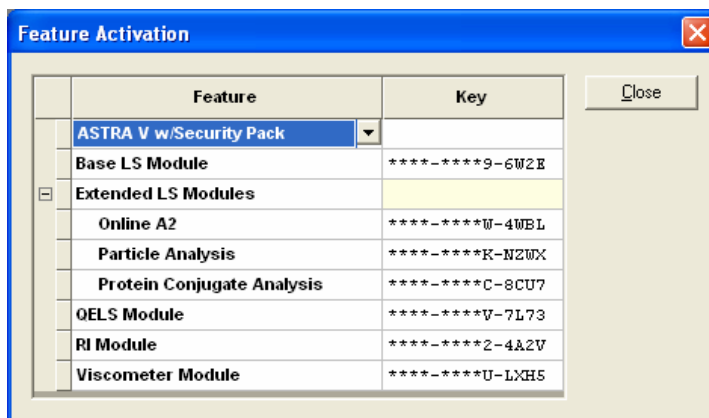
BB. Press OK to close the ODBC Microsoft SQL Server Setup dialog.

CC. Press OK to close the ODBC Data Source Administrator dialog.

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### Step 4 – Setup ASTRA w/Security Pack

- C. Install ASTRA.
- D. Enable the Security pack feature in ASTRA (this feature enables 21 CFR compatibility).
  1. Run ASTRA
  2. From the **System** menu, select **Feature Activation**. The following dialog will be displayed:

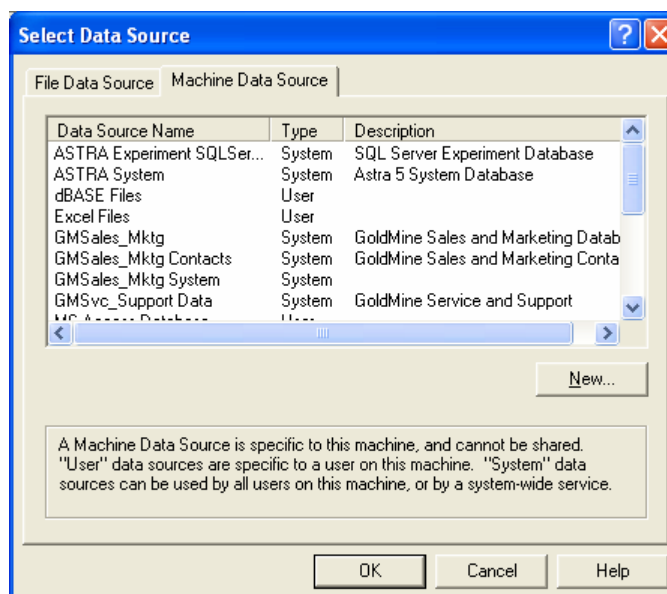


Select “ASTRA V w/Security Pack” in the first feature entry and enter the Security Pack key received from Wyatt Technology and Press the Close button.

3. Exit ASTRA, to enable the Security Pack feature.

The next logon will require that you enter a **user name**, **password** and **domain** associated with an ASTRA access group setup in steps B through C to use ASTRA.

4. Run ASTRA, logon with an account with ASTRA Administrative group membership.
5. From the **System** menu, select **Database Administration** then select **Connect to Database**. The Select Data Source dialog will be displayed:

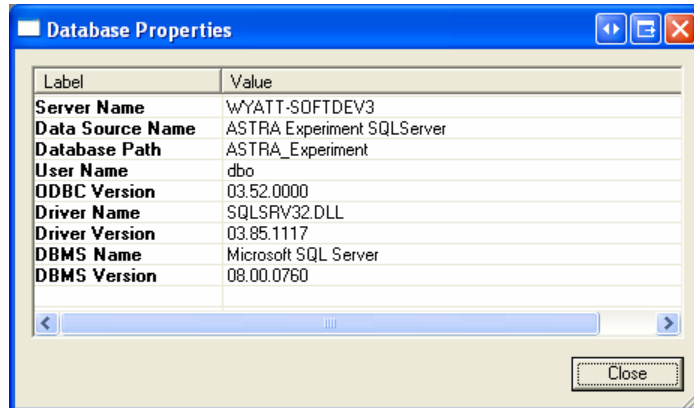


6. Select the Machine Data Source tab, then select the ODBC SQL Server database connection that was established in Step 3 – Setup ODBC connection to SQL Server Database.

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7. Press OK to close the dialog.
8. Exit ASTRA to start using the selected database.
9. Run ASTRA, logon with an account with ASTRA Administrative group membership.
10. From the **System** menu, select **Database Administration** then select **Properties**. The Database Properties dialog will be displayed:



11. Close the dialog by pressing Close.