Using Pervasive SQL Connections to Optimize CYMA Reports

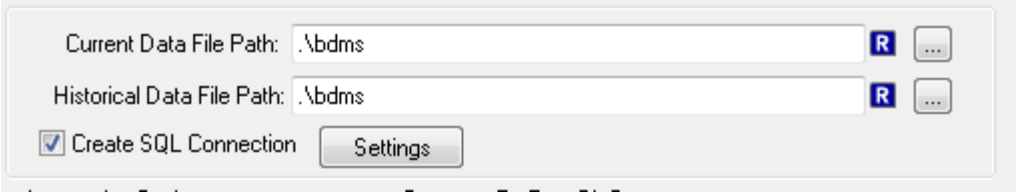
CYMA 13 added the ability to use the Pervasive SQL database from within CYMA providing greater reporting flexibility. Some CYMA reports will see a dramatic performance benefit using a relational SQL connection rather than preprocessing using the standard connection.

Please note that this is designed to speed up some reports – forms and checks are not affected by this updated connection. Additionally, pre-processed reports may not see as dramatic of time savings considering CYMA has already optimized these Crystal Reports.

For Crystal Reports to be able to use the Pervasive SQL connections, a data link file (UDL) is required. This file is created automatically when a new company is added or when the "Create SQL Connection" checkbox is selected.

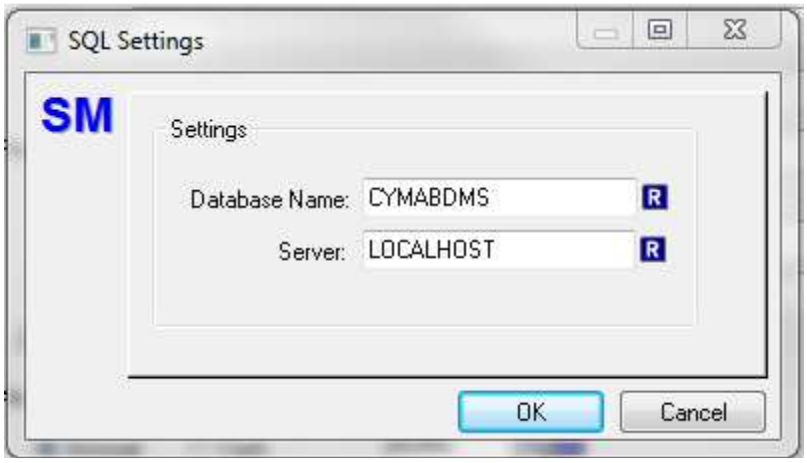
Create SQL Connection / Enabling Pervasive SQL Database

- System Manager / Maintain Companies now includes a checkbox called "Create SQL Connection" below the Current and Historical group box.



- Review the button next to the "Create SQL Connection" labeled "Settings".
  - When the "Settings" button is pressed a popup dialog is displayed called "SQL Settings".
  - "Database Name" is pre-populated with "CYMA" + the company ID
  - "Server" should automatically populate using the server name when new company is added or "Create SQL Connection" checkbox is checked.

    Note: If server name fails to be identified, the local computer name is set as the server name.



- When the company is saved a new Pervasive PSQL database will be created along with the required UDL file for Crystal Reports.
  - The file is created using the company name with ".udl" as the file extension.

- The <company>.udl file is saved in the company data location.
- The UDL file is in unicode format and should not be edited directly.
- To verify or modify the UDL and running on a 64bit computer you must run this command to open the Data Link Properties dialog: "C:\Windows\syswow64\rundll32.exe" "C:\Program Files (x86)\Common Files\System\Ole DB\oledb32.dll",OpenDSLFile C:\cyma4net\demo\demo.udl. If running on a 32bit computer just double click on the file to modify or verify settings.

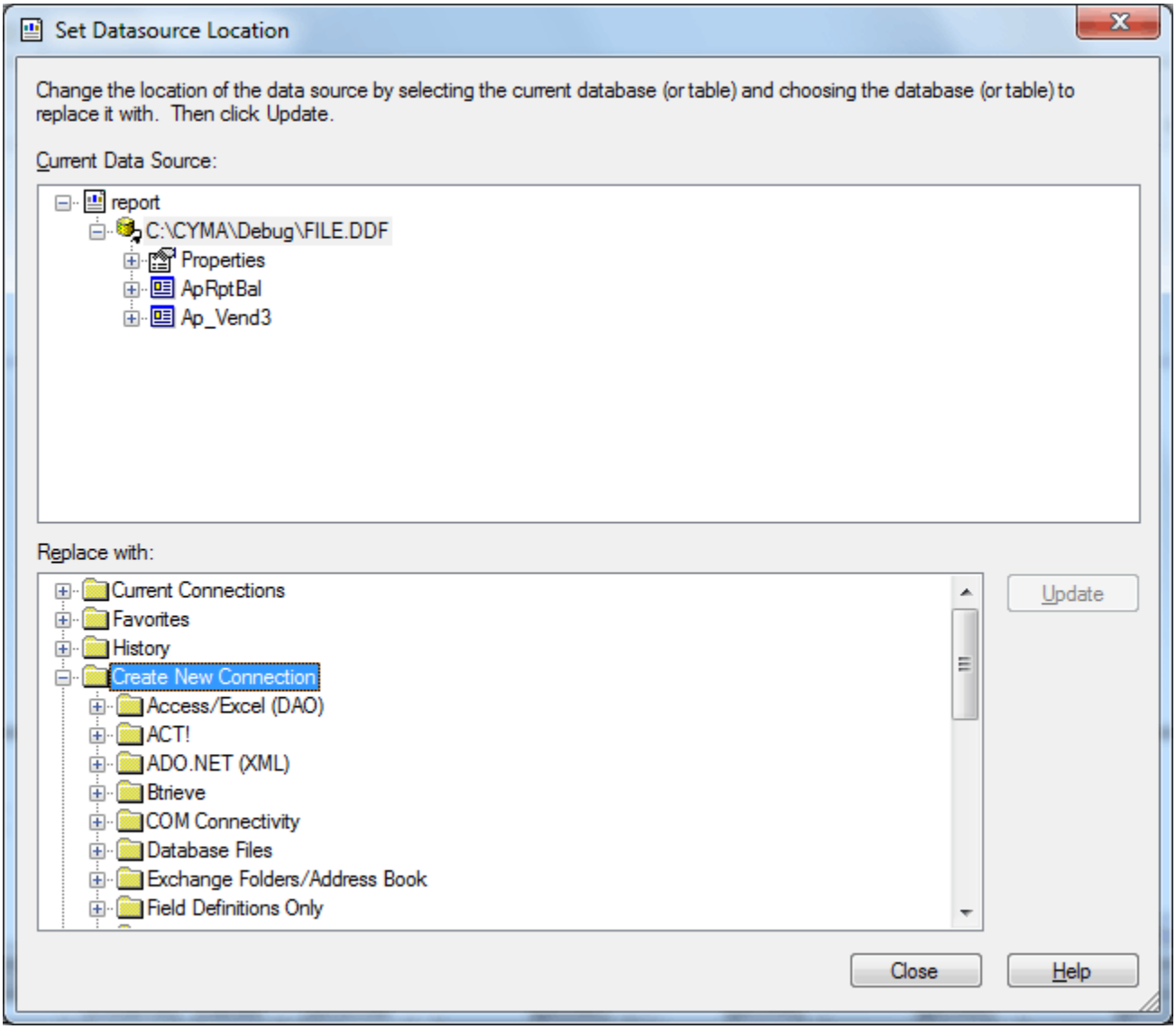
Modifying Reports to Use the Pervasive SQL Connection

To reconfigure your CYMA report to utilize the Pervasive SQL connection, use the following steps:

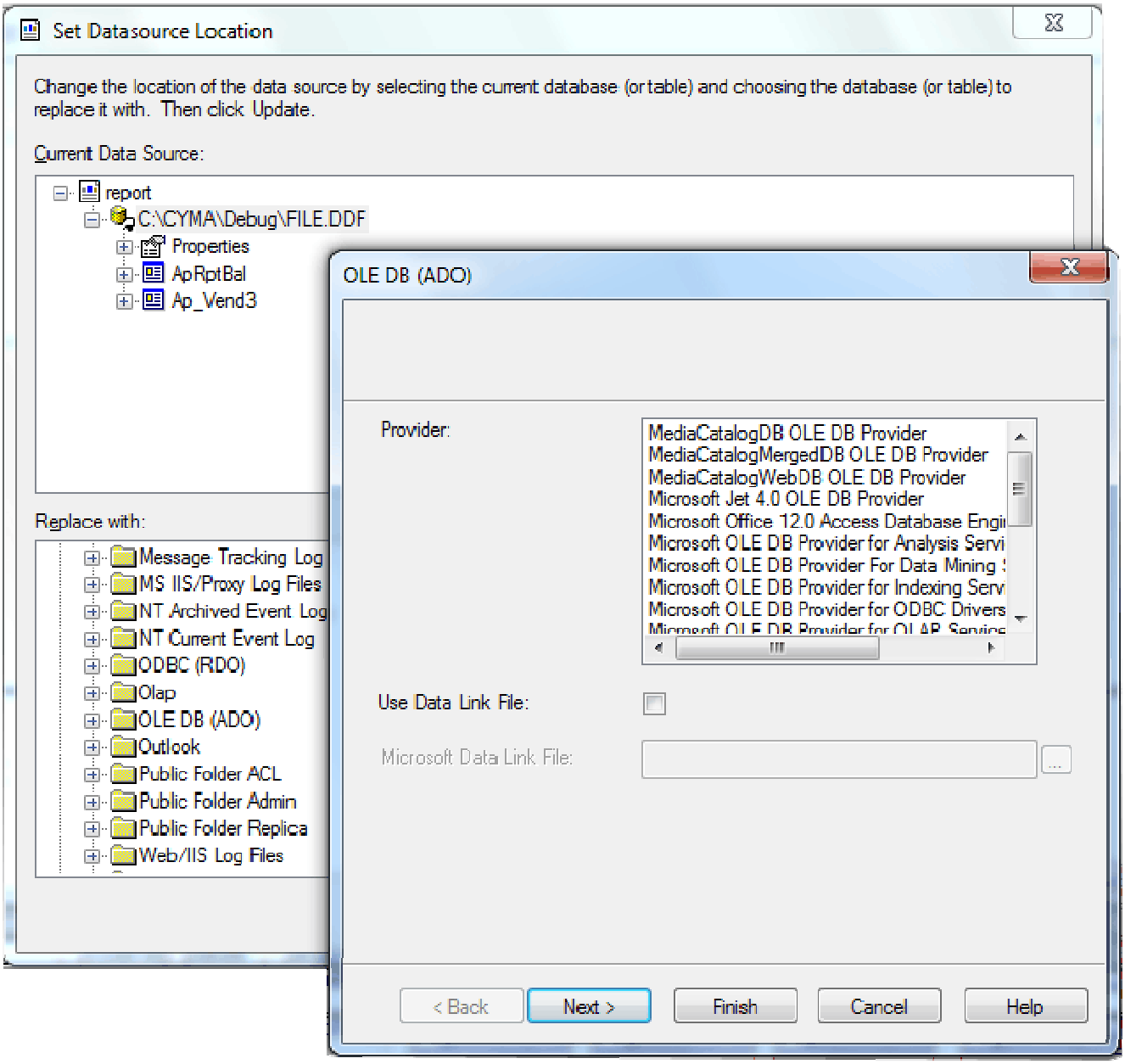
1. In Crystal Reports Writer, open a CYMA report.

2. Once the report has opened, access the Database menu and choose Database Location.

3. Notice that there is a top window ("Current Data Source") and a lower window ("Replace with"). In the folder tree in the "Replace with" window, look for Create New Connection and expand the tree to reveal OLE DB.



4. Click on OLE DB and choose the Provider of "Pervasive PSQL OLE DB Provider".



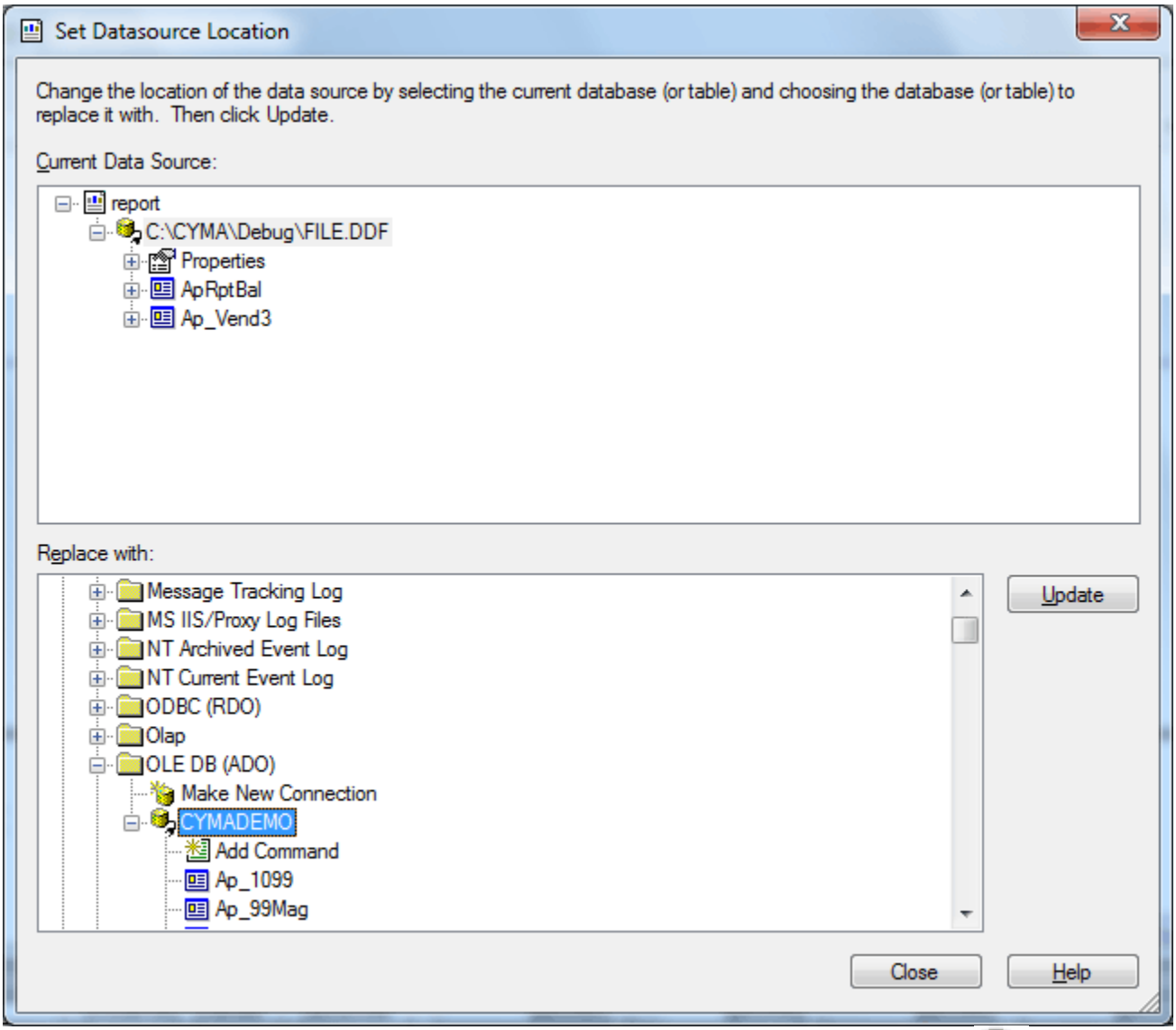
5. Check the "Use Data Link File" checkbox.

6. In the Microsoft Data Link File box, Browse to your company data file and look for the UDL file labeled <COMPANY>.udl. Click Next.

7. Crystal Reports will ask for a Data Source (DSN). This is a previously established name in Pervasive Control Center that was established by checking “Create SQL Connection” in CYMA (review first section). Please note that this step is only needed if you will be running the report directly in Crystal Reports for testing purposes.
   Important Note: Continue to click on **Next** to complete the process. Clicking on Finish before the Next option has been exhausted caused Crystal Reports 10 to crash during testing.

8. You will now see a tree below OLE DB (ADO) with a list of CYMA data files.

9. In the “Current Data Source” pane, select the database name (starts with the icon )



10. In the “Replace with:” pane, select the database name (starts with the icon ) created under the OLE DB (ADO) connection

11. Click Update to change the connection.

    NOTE: Steps 10 and 11 will need to be repeated for subreports.

Your report should now be accessing the Pervasive SQL connection. In some cases this will speed up processing of your report. If you encounter any errors while running this new report, please revert back to the table references in the FILE.DDF connection or contact your CYMA Representative for support.