Data Mining ActiveX - Data Connection

APPLICATIONS NOTE

October 2013

Description: Guide to configuration of the Data Mining Control ActiveX data connection in GraphWorX32
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: The Default Data Mining Configuration is active.

Introduction

The ICONICS Data Mining Control ActiveX allows you to look at data in a database table in a GraphWorX32 display; with a little bit of scripting, you can even add, delete, or change a record using your display. You can connect the ActiveX to display an MS SQL, MS Access, or Oracle database for viewing and manipulation.

In this document, we will walk you through the steps of displaying information in a table stored in a MS Access database using ADO connection and a Data Mining Connection.

Inserting the ActiveX

1. Open GraphWorX32 by going to Start → Programs → ICONICS GENESIS32 → GraphWorX32 → GraphWorX32
2. Insert the Data Mining Control ActiveX by clicking on ICONICS Data Mining Control ActiveX button on the ActiveX toolbar.

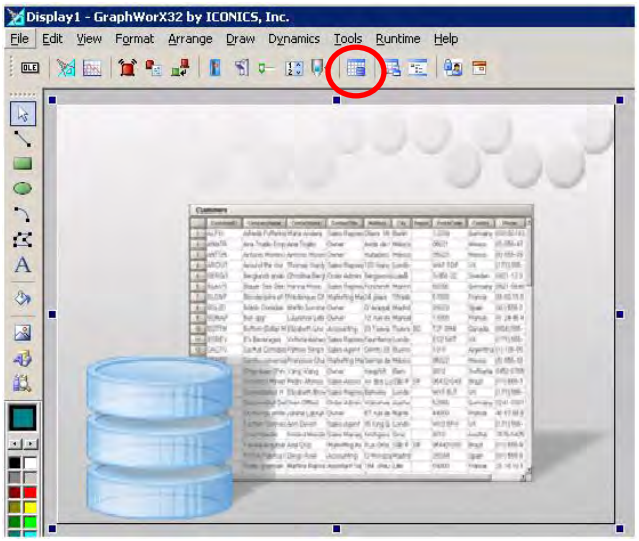

Figure 1 - ICONICS Data Mining Control ActiveX

3. Double-click on the ActiveX to bring up the properties window. For more information on these properties, please refer to our help file.

ADO Connection to an Access Database

1. Click on the "Connection parameters…" button on the General tab of the properties window to bring up the Data Source Connection Window.

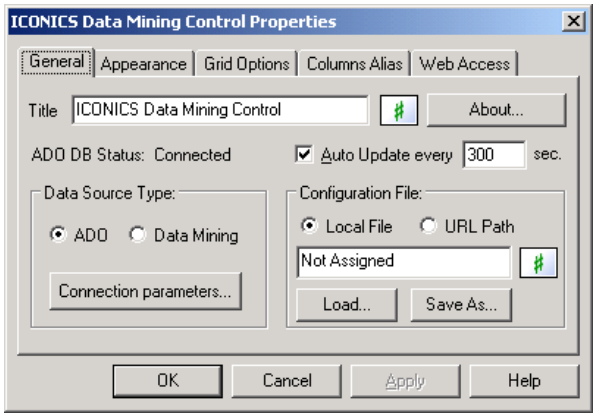

Figure 2 - ICONICS Data Mining Control Properties

NOTE: Notice the default data source type is ADO

2. Choose MS Access as your Data Provider and click on the "Build Connection String…" button

NOTE: You may also select either MS SQL Server or ODBC (for Oracle or other databases) as your Data Provider.

3. In the Data Link Properties window, click on the button to browse to the *.mdb file that contains the table which you want to display.

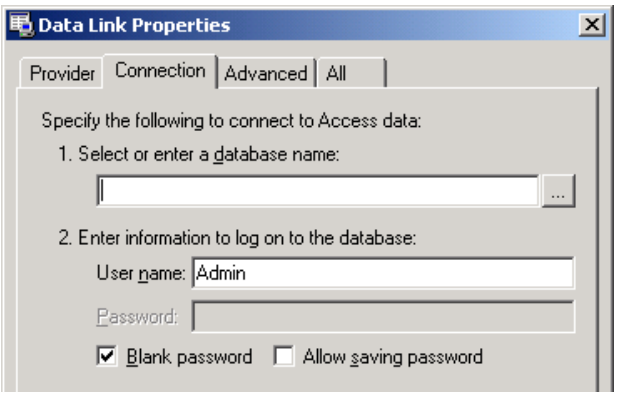

Figure 3 - Data Link Properties For MS Access Database

NOTE: Depending on the Data Provider you have selected, you may see a different Connection tab in the Data Link Properties window.

4. You can test the connection to the database by clicking on the "Test Connection" button, click "OK" when you are done.

5. Click on the "Simple SQL Wizard…" button in the Data Source Connection window

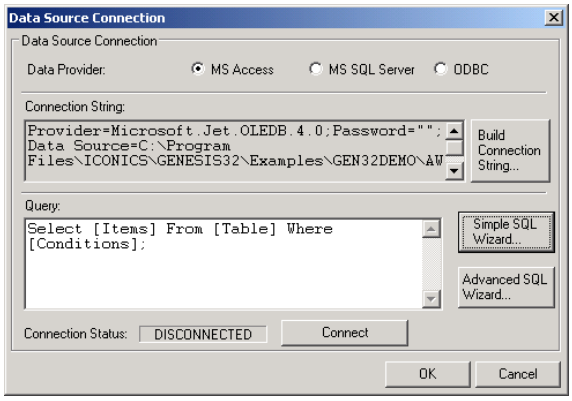

Figure 4 - Data Source Connection

6. In the SQL Query Builder window, select the table you want to display.
7. Once you have selected that, you should see all the available columns in the table. Check the columns you want to display. You can give it an optional filter if you like. You can set up the optional record sorting here as well.
8. Once you are done, click on "OK" to return to the Data Source Connection window.
9. Click on the "Connect" button and then click "OK" until you are back in the GraphWorX32 display.
10. Go into runtime and you should see data in your table.
11. It is possible to look at the currently connected database over the internet when using an ADO connection. In configuration mode, double click on the Data Mining Control ActiveX to bring up the properties window.
12. Select the Web Access tab and check the option "Access currently connected database over the Internet via RDA".

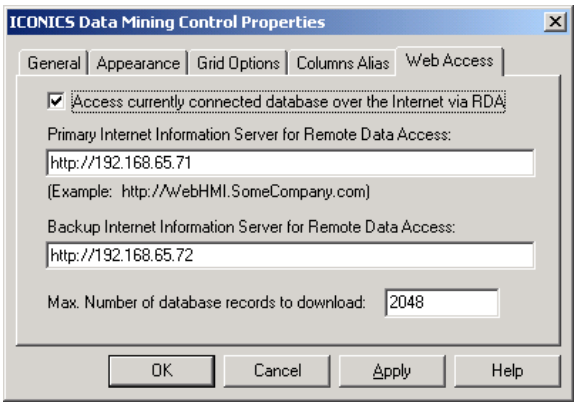

Figure 5 - Data Mining Control Properties Web Access

NOTE: Remote Data Access (RDA) is hosted by Internet Information Services (IIS). You must have IIS installed to use this feature.

13. By default, the primary and back up Internet Information Server for RDA is filled with http://YourHostIPAddress, you can change this as desired.

Data Mining Connection to an Access Database

1. Start by inserting a Data Mining Control ActiveX as described in the Inserting the ActiveX Section.
2. In the Data Source Type area, select Data Mining and click on the "Connection Parameters…" button.

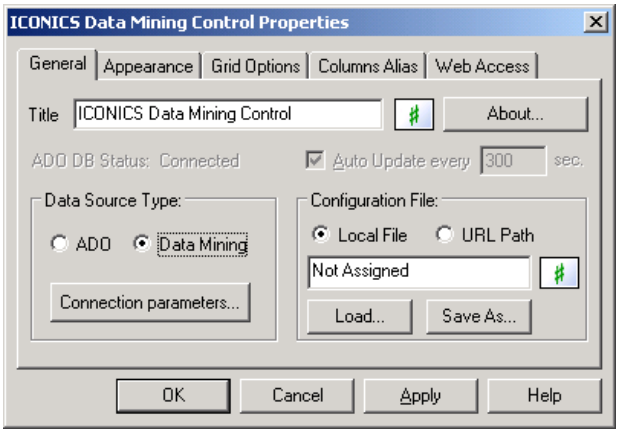

Figure 6 - Data Mining Control Properties Data Mining

3. In the Data Mining Properties window, click on "Add Tags…" button to add a tag from the ICONICS DBOPC Server.
4. In the Unified Data Browser, select the Database Access Tab.
5. Select AccessConnection → DataSource04 → Tag4 and click "OK". This tag should return the entire Customers Table in the Northwind Access database.

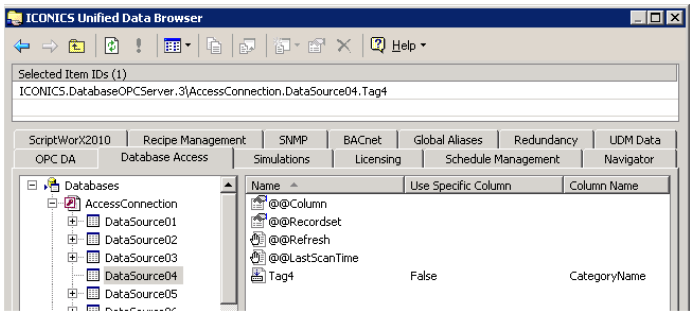

Figure 7 - Database Access in Unified Data Browser

6. Click "OK" until you are back in your GraphWorX32 display.
7. Enter runtime, and you should see data from your table.