

DB2 Web Logs Guide



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Purpose

This document describes the setup and configuration of the DB2 Web Logs. You only need to review these instructions if you have installed the DB2 product and want to monitor eServ Website activity.

Before You Begin

Make sure you have completed the setup and installation of DB2 before continuing. These instructions require DB2 to be installed and either authorized or operating in evaluation mode. You cannot complete these instructions until you complete the setup and authorization of DB2.

These instructions cover both the DB2 Web Log Processor and the eServ Website Monitor. The DB2 Web Log Processor requires authorization before it can be used. Please contact Jack Duncan at 800-722-3615 to receive authorization codes for this function.

Creating an ODBC Data Source

Unlike other functions in DB2 that read the common setup to determine database locations, the Web Log functions, including the eServ Website Monitor, require you to establish an ODBC data source before information can be written to the log database by your eServ Website.

The specifics described and the sample screens are from Windows 2000. Windows NT has the same or similar functions.

Important! You only need create the ODBC Data Source on the server running the eServ Website. You do not need to create an ODBC data source on workstation computers to monitor your eServ Website.

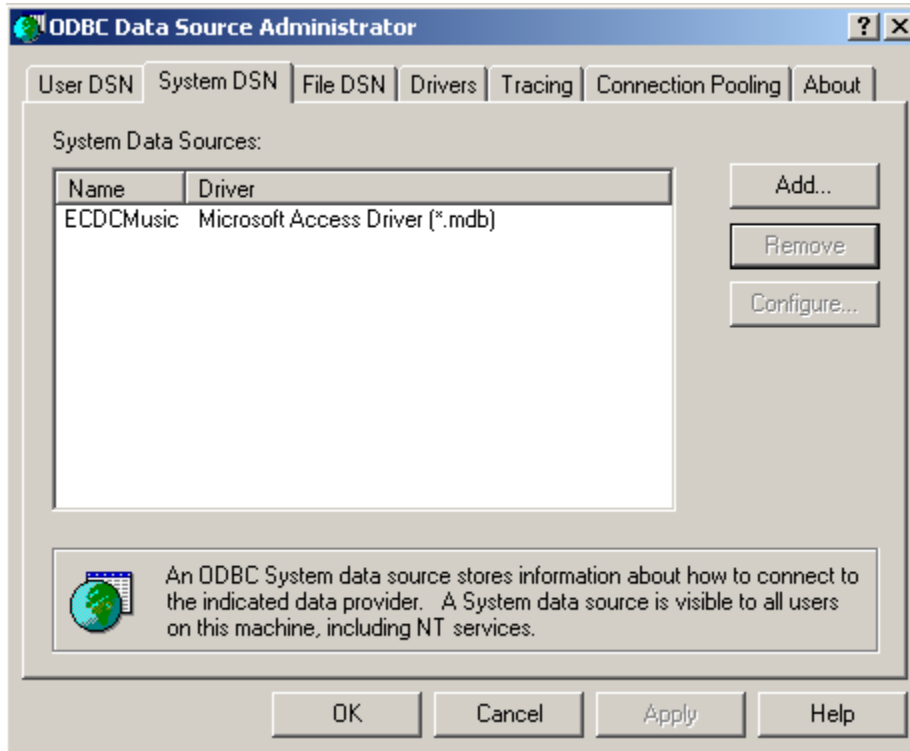
Open ODBC Data Source Administrator:

Click on Start – Settings – Control Panel. You should have link in the control panel to Administrative tools. Click that link to open the Windows 2000 Administrative tools. Under the Administrative Tools, you should have an entry called “Data Sources (ODBC). Double-click this entry to open the data sources administration program. Windows NT users may have the ODBC administration directly under Control Panel.

Adding the Data Source:

Make sure you are on the System DSN tab. If you are on any other tab, then your data source will not be available to the eServ Website. There may already be many data sources listed on this tab. These are OK and you should not change or delete them without knowing exactly what you are doing.

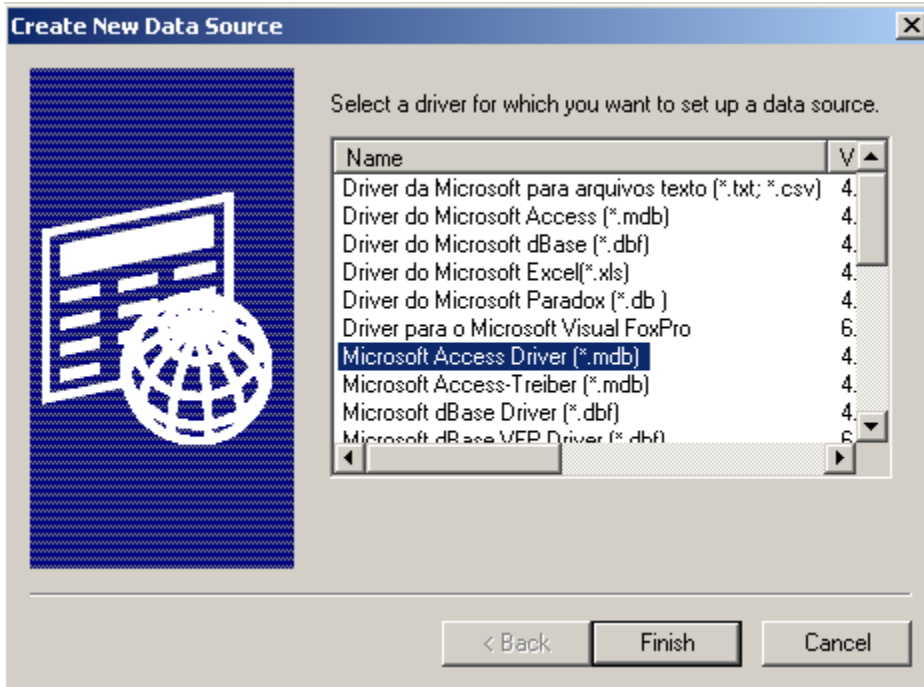
Click the Add Button to create the new data source.



Select the Driver:

You must select the Microsoft Access Driver. Be very careful to select the correct driver. Some of the drivers are available in different languages and although they are similar, they are not the same. In the screen below the correct driver is selected. If you do not see this exact same driver in your list, then you cannot setup the ODBC data source required by Web Logs.

Click the Microsoft Access Driver on the list and then click the Finish Button to continue.



Data Source Name:

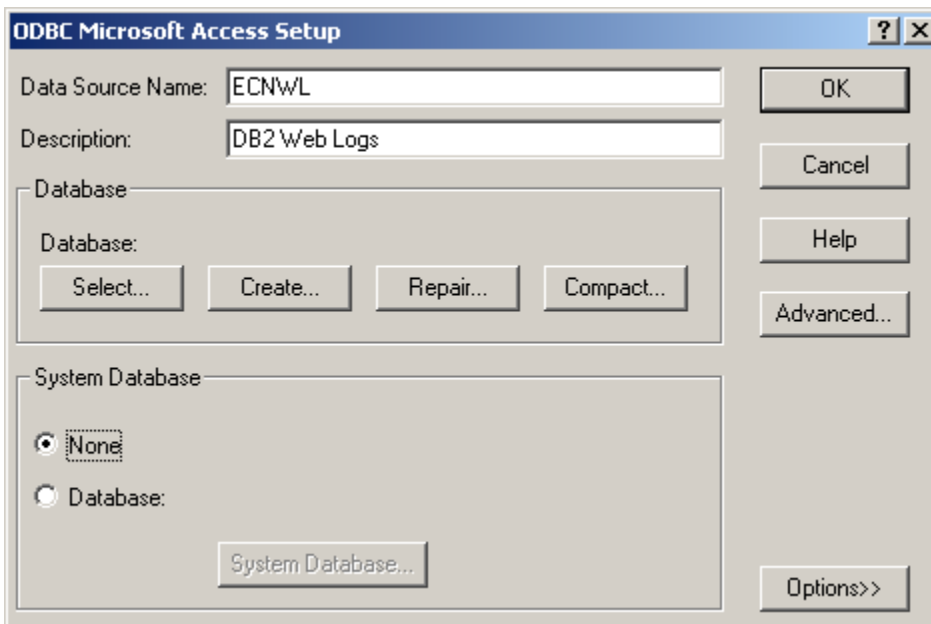
You must enter the exact data source name. If this name is not exact, then eServ will be unable to find the data source and no logging will take place. Below is a screen shot of exactly how your entries should appear. The data source name must be ECNWL!

Enter a description of DB2 Web Logs, although this entry is not critical like the Data Source Name, it helps to identify this data source.

Except for the Select Button, there is no need to click any other button on this screen. Follow the instructions exactly for best results.

After making these entries, you must click the Select Button to select the Access database to use with this data source. The data source will not work until you select a database.

Click the Select Button to continue setting up the data source.



Selecting the Database:

From the Select Database screen, make sure to first choose the correct drive (at the bottom of the screen) and then choose the directory containing your DB2 databases.

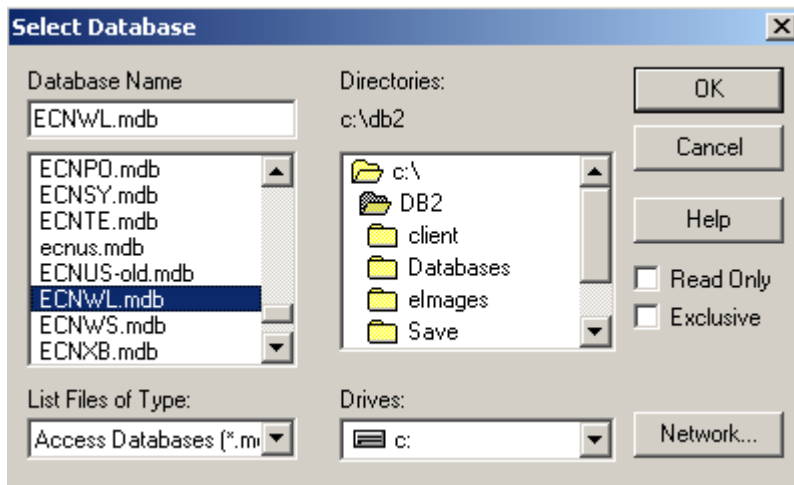
Scroll down the list of database names and make sure you select the ECNWL.MDB database file.

You must select this exact file. No other file will work correctly!

Make sure the Read Only and Exclusive check boxes are NOT checked as shown below.

Click OK to select the database and return to the Data Source setup.

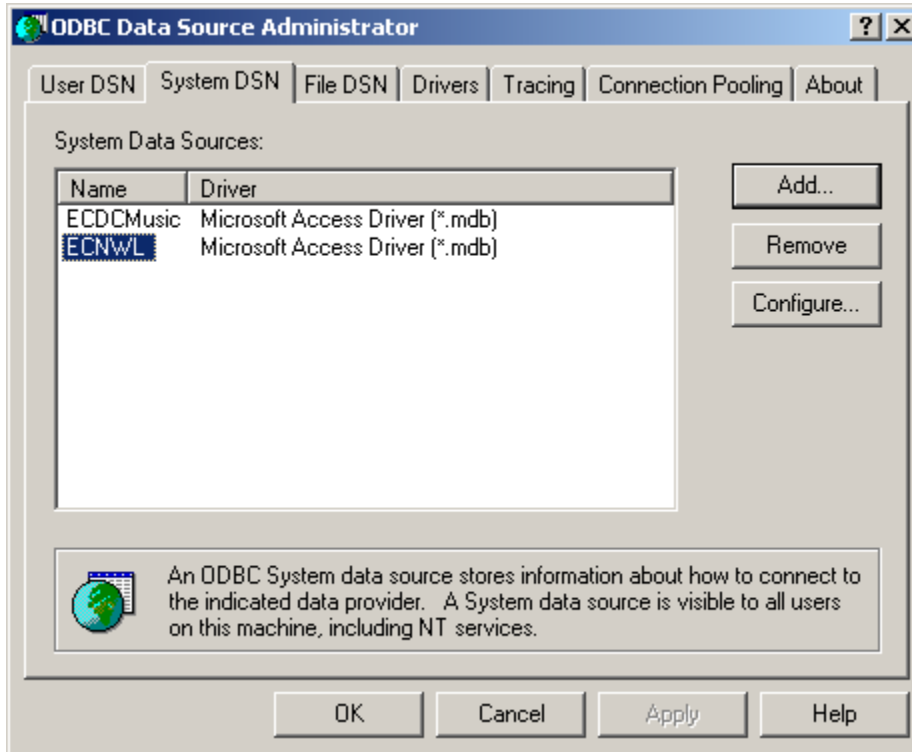
Click OK again to finish the data source setup.



Verifying the Data Source:

After clicking OK, you should be returned to the main ODBC data source screen. You should see your newly created data source shown exactly as below.

Note that there may be other data sources shown on your computer.



Finishing the Data Source Setup

Click OK to close the ODBC Data Source Administrator. You must now shutdown and re-start your DB2 Server and the eServ Website. eServ will be unable to read the newly created data source until you shut down and restart.

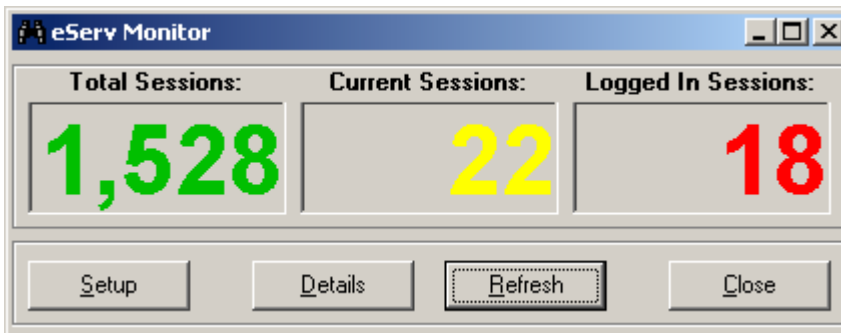
DB2 eServ Website Monitor

If you have completed the data source setup and re-started your eServ computer, then you can open, setup and test the eServ Website monitor.

The DB2 eServ Website Monitor is used to monitor activity occurring on your eServ Website. You can access this program from either the DB2 Main Menu or the DB2 Workstation Menu. You can also run this program stand-alone. The primary reason you may want to run the program in stand-alone mode is that when run from the DB2 Server Menu, no scheduled jobs will occur.

To run the program in stand-alone mode, open your DB2 folder (either on the Server or Workstation) and locate the EC_KZ.EXE program file. Right-click on this file and choose the Create Shortcut item from the pop-up menu. This will place a link to the DB2 eServ Website monitor on your desktop. You can then double-click this shortcut to open the monitor.

The DB2 version of the monitor has been improved over the similar eOrder 3 monitor. Much less overhead is required and the refresh times can be much more often. Other display controls and screens have been added to more completely display what is happening on your site.



The main monitor screen shown above contains session counters from your eServ Website. Please note that these counters only apply to your eServ site, even if you host other Websites on the same server.

The Total Sessions counter displays the total sessions since the last re-boot.

The Current Sessions counter displays the number of current eServ sessions.

The Logged In Sessions counter displays the number of sessions that have successfully logged into your eServ site.

The reason you may have more Current Sessions than Logged In Sessions is the second someone accesses your eServ site a session is created for them. They may sit at the login page for many seconds, possibly minutes, before they log in. Also, they may never log in and just close their browser.

DB2 eServ Monitor Setup:

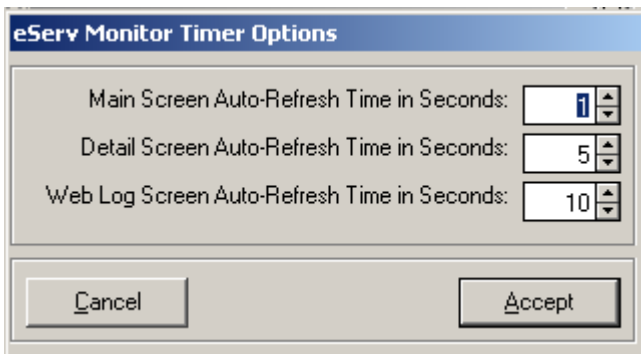
Click the Setup Button from the main screen to display the timer option settings. Note that these new settings are in seconds where the eOrder 3 settings were in minutes. These short refresh times are possible due to the new efficiencies.

The Main Screen Auto-Refresh controls how often the main screen will automatically refresh.

The Detail Screen Auto-Refresh controls how often the detail screen (displayed when you click the Details Button from the main screen) will automatically refresh.

The Web Log Screen Auto-Refresh controls how often the web log screen (available from the details screen) will automatically refresh.

Setting any of the timers to zero will disable the auto-refresh function on that screen and require you to click the Refresh Button on that screen in order to view the current data.



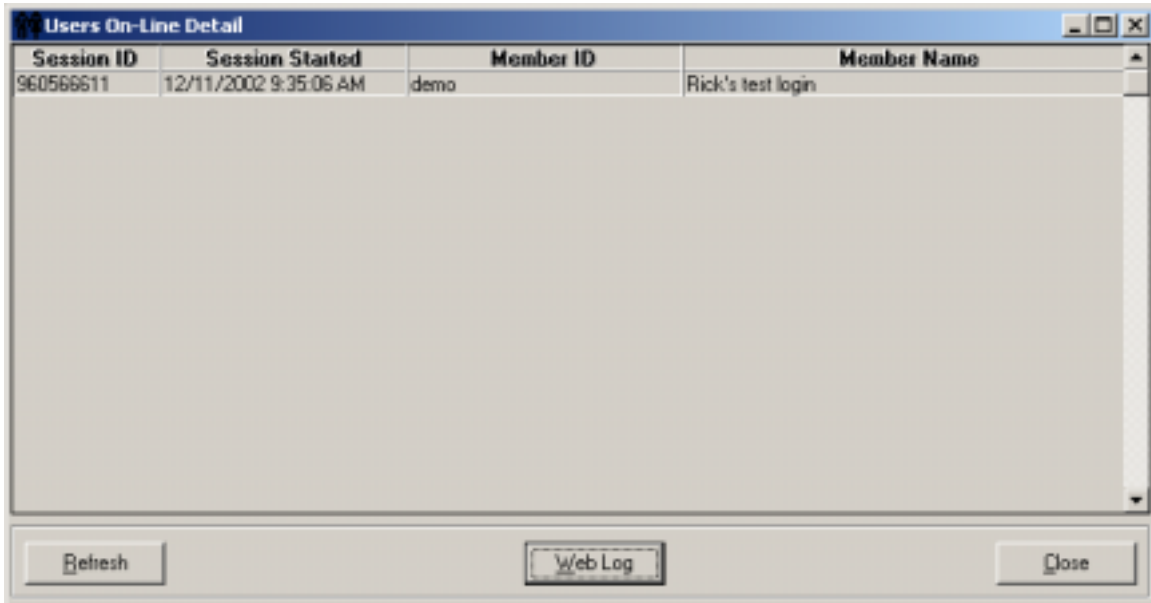
The image shows a dialog box titled "eServ Monitor Timer Options". It contains three rows of settings, each with a text label and a numeric spinner control:

- Main Screen Auto-Refresh Time in Seconds: 1
- Detail Screen Auto-Refresh Time in Seconds: 5
- Web Log Screen Auto-Refresh Time in Seconds: 10

At the bottom of the dialog box, there are two buttons: "Cancel" on the left and "Accept" on the right.

Detail Screen:

Clicking the Detail Button from the Main Screen will show the current session details. Note that if a user has logged on, then their Member ID and name will be available on this display.



The screenshot shows a window titled "Users On-Line Detail" with a table containing one row of session data. Below the table are three buttons: "Refresh", "Web Log", and "Close".

Session ID	Session Started	Member ID	Member Name
960566611	12/11/2002 9:35:06 AM	demo	Rick's test login

Refreshing the Screen

Clicking the Refresh Button will update the list. If you set the auto-refresh timer in the settings, then this screen will automatically refresh at the specified interval.

Web Log Viewer

By first selecting a session from this screen, and then clicking the Web Log Button will show what pages have been accessed by the selected session. The Time, Page Name, IP Address, and the registered company name for the IP address will be shown.

Note that this function is optional and may not be enabled on your system. Contact Jack Duncan for details.

Refreshing the Main Screen:

You can click the Refresh Button at any time on the main screen to update the session counters. If you entered an auto-refresh time for the main screen in the setup, then the screen will be automatically refreshed at the specified interval.

DB2 Web Logs

The DB2 Web Logs are an optional function of DB2. Please contact Jack Duncan for details.

The DB2 Web Logs provide two functions:

Capturing of all activity on your Website (eServ and any other Website). This activity is detailed in nature and contains the client IP address, time and date the activity occurred, the time the operation required, bytes send, bytes received, and many more fields.

Matching the client IP addresses with the registered company name. Through an agreement with ARIN (American Registry of Internet Names) OPSoftware maintains a “who is” server for the exclusive use of our customers. This server is updated directly from ARIN.

Before you can start capturing the Web Log details, you must have completed the ODBC data source setup described earlier. You must also be authorized for DB2 Web Logs. Contact Jack Duncan for details.

You must then modify your Web Server configuration to start writing this detail to our ODBC data source.

Configuring Your Web Server for DB2 Web Logs:

The instructions here are for Windows 2000 Server. Windows NT has the same or similar functions. To begin, you must open the Web Server management utility for your operating system. For Windows 2000, right-click on My Computer and choose Manage from the pop-up menu.

Locate your default web site and then right-click on this entry.

Choose Properties from the pop-up menu to set the Web Logs.

You must choose the Default Website. You cannot set the logging properties on sub-webs. You can however select sub-webs to not participate in logging.

Default Website Properties:

Make sure you are on the Web Site tab. Located at the bottom of this screen is the logging settings for the Website. Make sure the Enable Logging check box is checked and the Log Format is set to ODBC Logging.

After making these settings, click the Properties Button to set the ODBC Logging properties.

The screenshot shows the 'Default Web Site Properties' dialog box with the 'Web Site' tab selected. The 'Web Site Identification' section contains a 'Description' field with 'Default Web Site', an 'IP Address' dropdown menu set to '(All Unassigned)', and 'TCP Port' and 'SSL Port' input fields with '80' and an empty field respectively. The 'Connections' section has 'Unlimited' selected, 'Limited To' set to '1,000 connections', and 'Connection Timeout' set to '900 seconds'. The 'Enable Logging' checkbox is checked, and the 'Active log format' dropdown is set to 'ODBC Logging'. A 'Properties...' button is located next to the log format dropdown. At the bottom of the dialog are 'OK', 'Cancel', 'Apply', and 'Help' buttons.

ODBC Logging Properties:

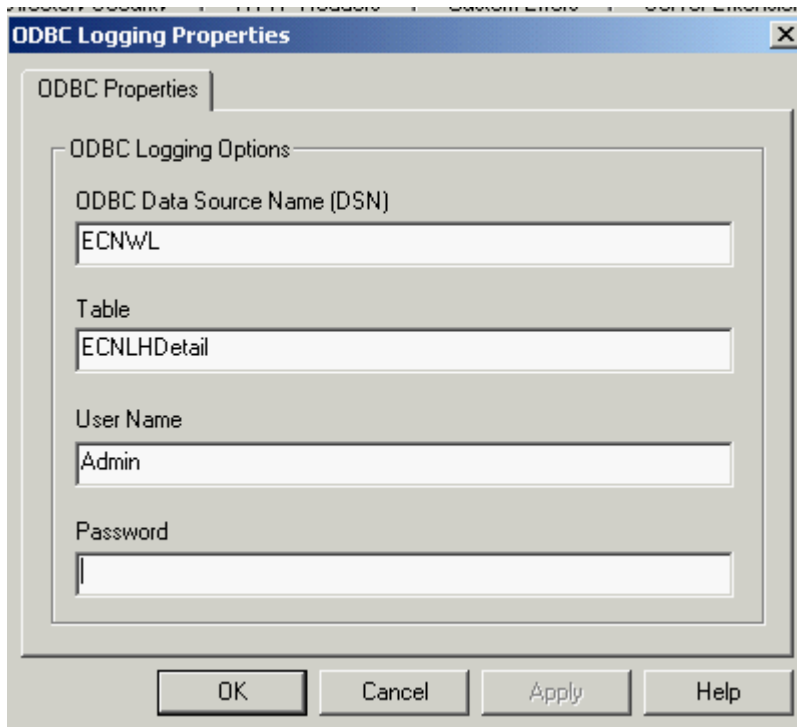
You must make the settings in this screen exactly as shown below. The ODBC Data Source Name (DSN) must be ECNWL (the data source you created earlier).

The Table must be ECNLHDetail spelled exactly as shown including the exact same upper and lower case letters..

The user name must be Admin again in the exact same case.

You must leave the Password blank.

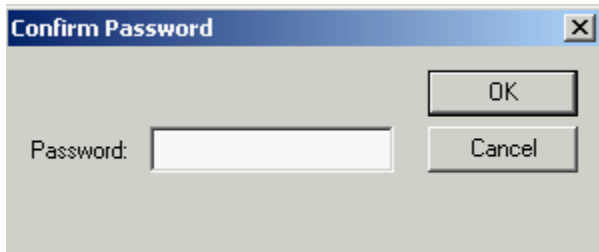
Once these settings are made and confirmed, click the OK button to save the changes.



The image shows a screenshot of the 'ODBC Logging Properties' dialog box. The dialog has a title bar with the text 'ODBC Logging Properties' and a close button (X). Inside the dialog, there is a tab labeled 'ODBC Properties'. Below the tab, there is a section titled 'ODBC Logging Options' which contains four text input fields: 'ODBC Data Source Name (DSN)' with the value 'ECNWL', 'Table' with the value 'ECNLHDetail', 'User Name' with the value 'Admin', and 'Password' which is empty. At the bottom of the dialog, there are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

Confirm Password:

When you set the ODBC Logging Properties, you will get a password confirmation box. Just click OK on this box without entering a password.



DB2 Web Log Update

The DB2 Web Log Update is a DB2 Server application available only on your DB2 Server. This application connects to the OPSSoftware “who-is” server to obtain the registered company name for an IP address.

To run the DB2 Web Log Update manually, open your DB2 Server Menu and choose the Web Logs link. Select the Partial Update (the full update is disabled) and then click Next to get the name records.

You can also schedule the DB2 Web Log Update to run with the DB2 Scheduler.

ARIN

ARIN (American Registry of Internet Names) is the official registrant of IP addresses. They maintain the complete listing for North America. They do not contain registered names for Europe or the Asia Pacific regions. OPSSoftware has an agreement with ARIN to access their ‘who-is’ database to obtain data for our customers. You will connect directly with our servers and not with ARIN.

Who Is Timing:

Our servers check with ARIN every 15 minutes. If you request an IP address that is not contained in the OPSSoftware who is database, then that IP address is added to our queue. The next time our automated processes start (every 15 minutes), we will get the requested name data for that IP address. The next time you connect to OPSSoftware, the name data will be sent to your machine.

Not only is getting the data from OPSSoftware faster and in compliance with the ARIN agreement, it allows for simpler change to a new source or format should it become necessary.

OPSSoftware does not collect any information regarding your Website activity other than what is required to look up the name for an IP address. Once the lookup is accomplished, absolutely no data remains regarding who requested an IP address.

Web Logs Database:

The ECNWL Web Log database contains many queries and functions developed originally for OPSSoftware use. These sample queries provide the beginning tools to know exactly what is happening with your Website.