



Description: WebHMI Alarm Report ActiveX Security Settings for SQL or MSDE databases.

OS Requirement: Windows NT or 2000 with IIS

General Requirement: This applications note requires knowledge of how to use and configure WebHMI, and requires basic knowledge of the Alarm Report ActiveX/

Overview

When accessing alarm reports from SQL or MSDE databases, you are always required to provide security authentication information either in the form of Windows integrated security or by providing an SQL username and password. When accessing the same alarm reports via WebHMI there can be extra steps involved in authenticating users. All configuration for the Alarm Report ActiveX saved on the IIS Server machine, and then re-published to HTML to provide WebHMI access.

SQL Authentication Method

The easiest way to configure access to an SQL or MSDE database is to create one or more user accounts in the SQL Enterprise Manager and give permission for each user to access the database. By default, MSDE comes configured with an account that has access to all databases. This account is:

User Name: sa

Password: <blank>

Since MSDE does not come with an Enterprise Manager, you will have to use the **sa** account to access the database. However, you can connect to your MSDE database through SQL Enterprise Manager if you have a copy of SQL on the same network. Note that the copy of SQL and MSDE must be the same release version (for example, SQL 2000 and MSDE 2000).

- 1) Open the Alarm Report ActiveX Properties by double-clicking on the Report ActiveX.
- 2) Go to the **General** tab and click on the **Connection Properties** button to setup SQL Authentication. Enter the User Name and Password that you configured in the SQL Enterprise Manager, or enter the default MSDE "sa" account. Then select the database and table to which you wish to connect.

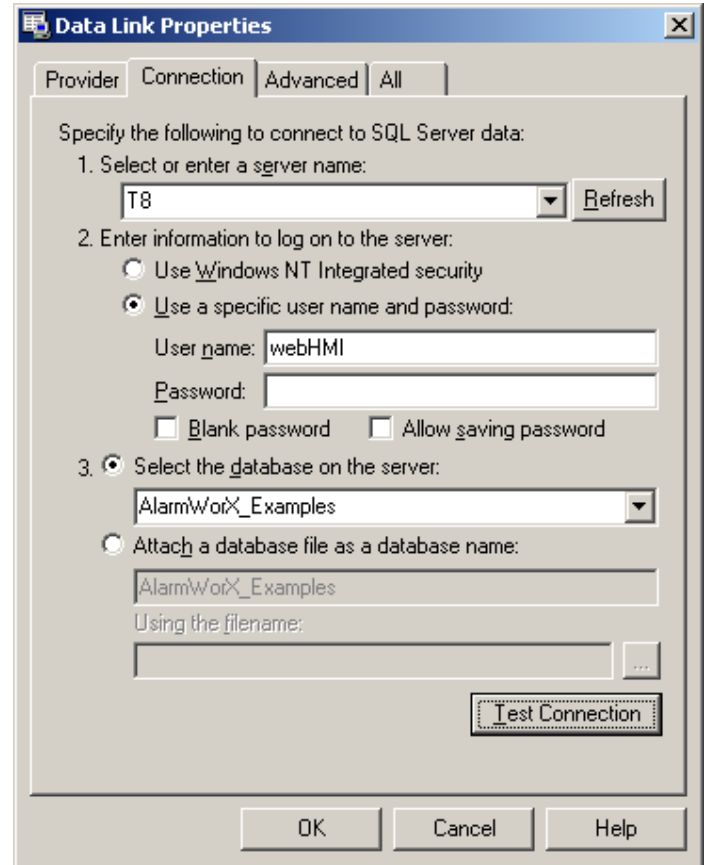


Fig.1 Alarm Report ActiveX SQL Authentication

- 3) Press OK, and then save the display. Publish the display to HTML again so that you can access the page over WebHMI.
- 4) Test the display over the web to ensure that you have access to the database.

Windows Authentication Method

The Windows authentication method is potentially more secure than using SQL authentication, however it is much more complicated to set up. Follow these steps to setup Windows authentication over WebHMI.

- 1) On the IIS Server PC open the Computer Management screen from the following location:
Start\Settings\Control Panel\Administrative Tools\Computer Management
- 2) Open the MSADC properties by right-clicking on and selecting properties from:
Services and Applications\Internet Information Services\Default Website\MSADC
- 3) Go to the **Directory Security** tab in the MSADC properties page, and press the **Edit** button for **Anonymous access and authentication control**.

- 4) Setup the Authentication Methods for Integrated Windows authentication as shown below:

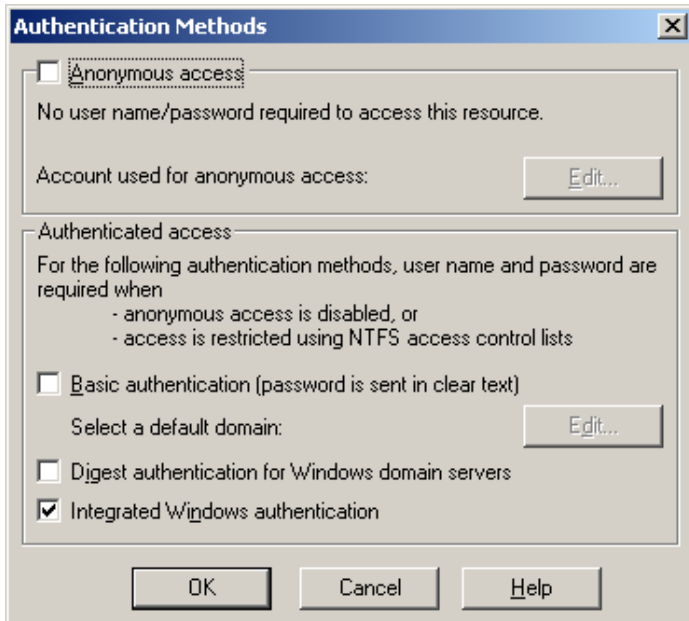


Fig.2 Authentication Methods for Integrated Windows

- 5) Open the display that contains the Alarm Report ActiveX. Double-click on the ActiveX to edit the properties. Edit the **Web Access** tab and enter the IP address or web address of the IIS Server, and press Apply.

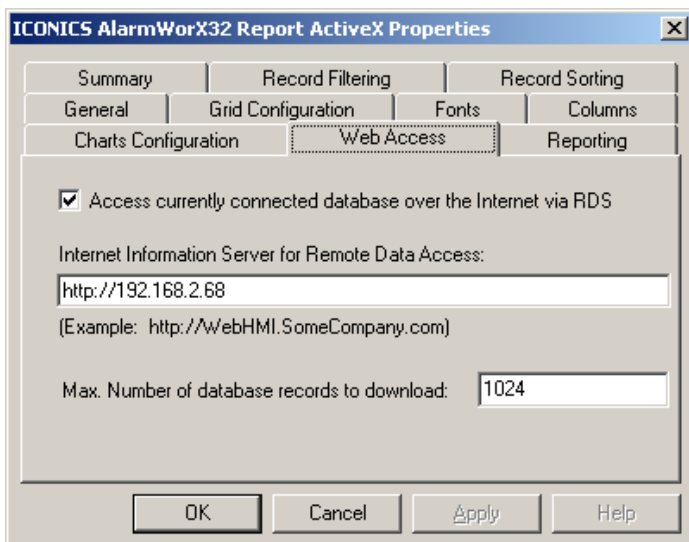


Fig.3 Alarm Report Web Access

- 6) Go to the **General** tab in the Alarm Report ActiveX properties and click the **Connection Parameters** button to configure the connection as shown below:

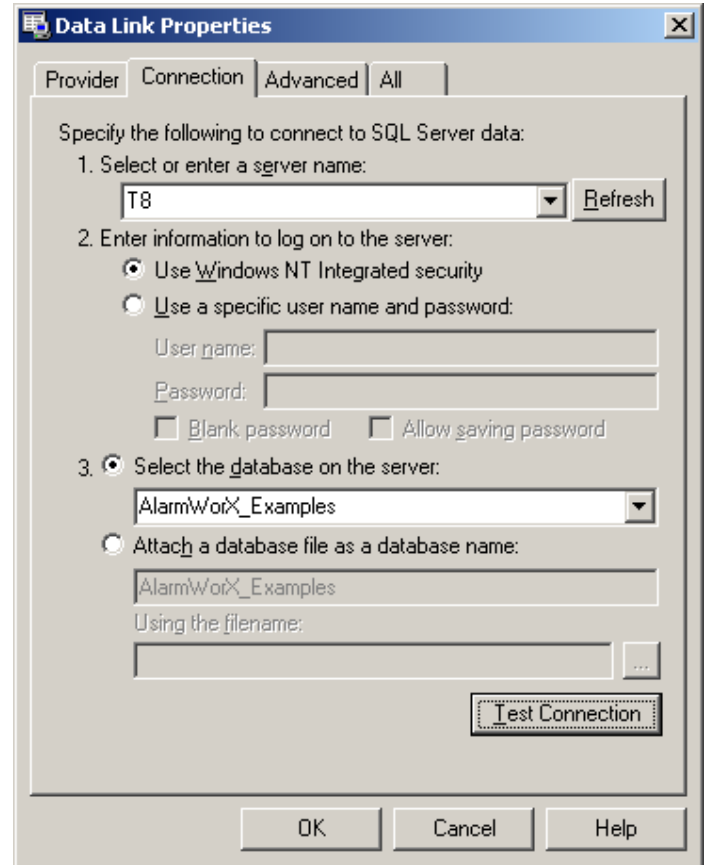


Fig.4 Alarm Report ActiveX Windows Authentication

- 7) Now, re-publish the display to your WebHMI server.
- 8) Test the web page by opening it in your web browser. You should be presented with a Windows login screen as shown below. After entering your login information correctly, the connection to the database should be established and the alarm report should be displayed in the browser.



Fig.5 Windows Login screen for database connection