

Tech Note 704

Configuring ActiveFactory Reporting from Wonderware Information Server (WIS)

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Introduction

All external data sources configured for Wonderware Information Server (WIS) use a common definition and configuration, called a shared data source. Shared Data Sources are shared by WIS components such as ActiveFactory reports, TableWeaver, Factory Alarms, and ArchestrA reporting. This allows the user to have a single data source and use it in multiple components.

This *Tech Note* shows you step-by-step procedure to configure a **Historian** data source so that you can use ActiveFactory Reporting Website (AFRWS) components such as Reports, Trend and Query in WIS to access data from the Historian Server.

Application Versions

- Wonderware Historian Client v10.0
- Wonderware Information Server (WIS) 4.0
- Wonderware Historian 9.0 P02 or 10.0
- Microsoft Office Excel 2003 SP2 (or later), or 2007 SP2 (or later)
- Microsoft SQL Server 2005 or Microsoft SQL Server 2008

Acronyms

- **AFRWS**: ActiveFactory Reporting Website.
- **WIS 4.0**: Wonderware Information Server 4.0 (used together with AFRWS).
- **InSQL**: Wonderware Historian version 9.0 or 10.0.

Assumptions

This *Tech Note* assumes that you are familiar with the following products:

- Historian (or InSQL Server) v9.0 or later.
- Historian Client v10.0 or later.
- Wonderware Information Server (WIS) version 4.0 or later.

- MS SQL Server version 2005 or later.

Configuration Tasks

Review Your Configuration

Use the WIS Configurator to set the connection properties and acquire the server license. Configuration must be completed before you can begin configuring the **Historian** data source. Figure 1 (below) shows the successful Information Server configuration.

Note: A strong **sa** User Name and Password is highly recommended for SQL Authentication. The sa login shown in Figure 1 is used in a secure lab environment.

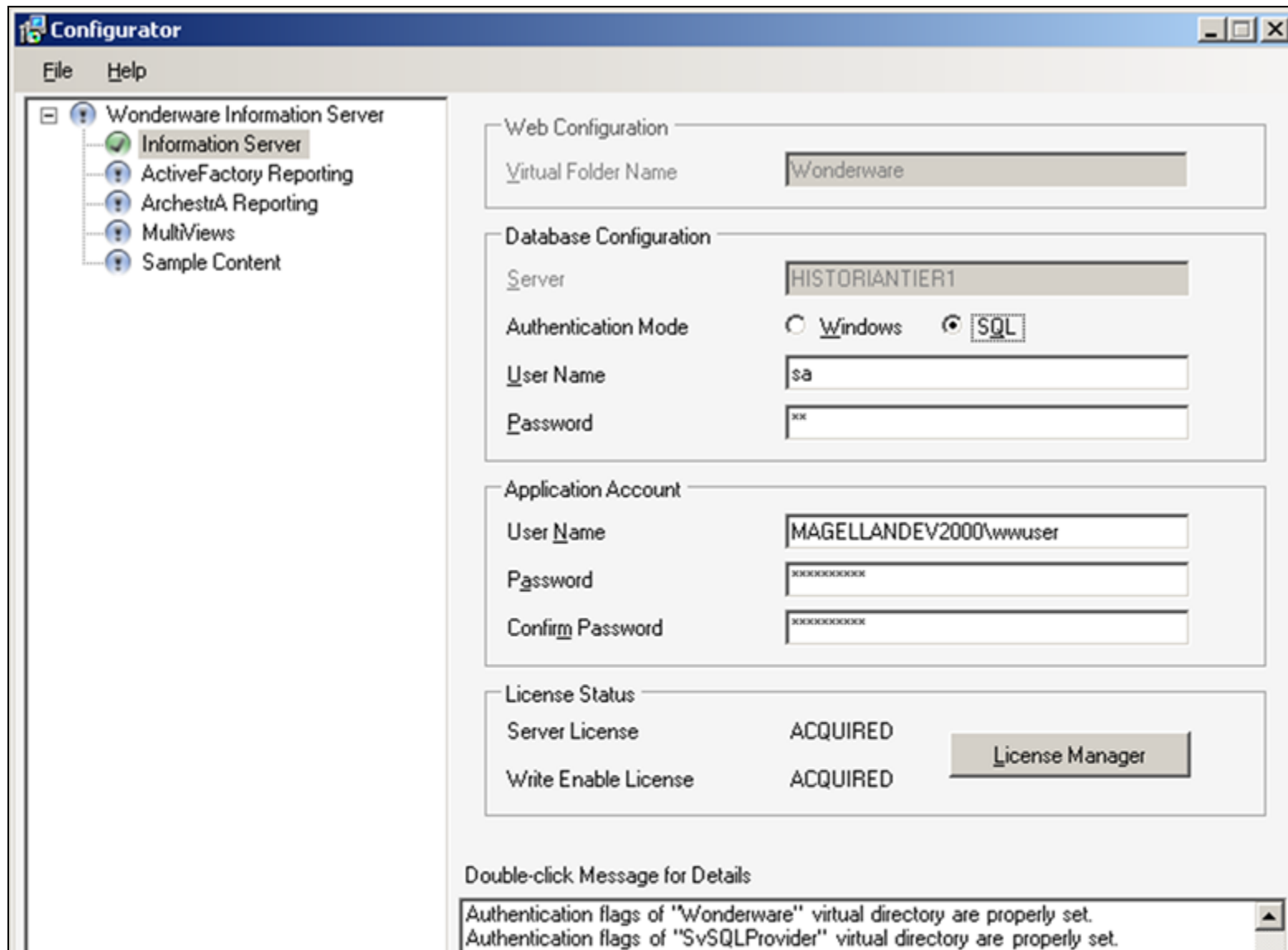


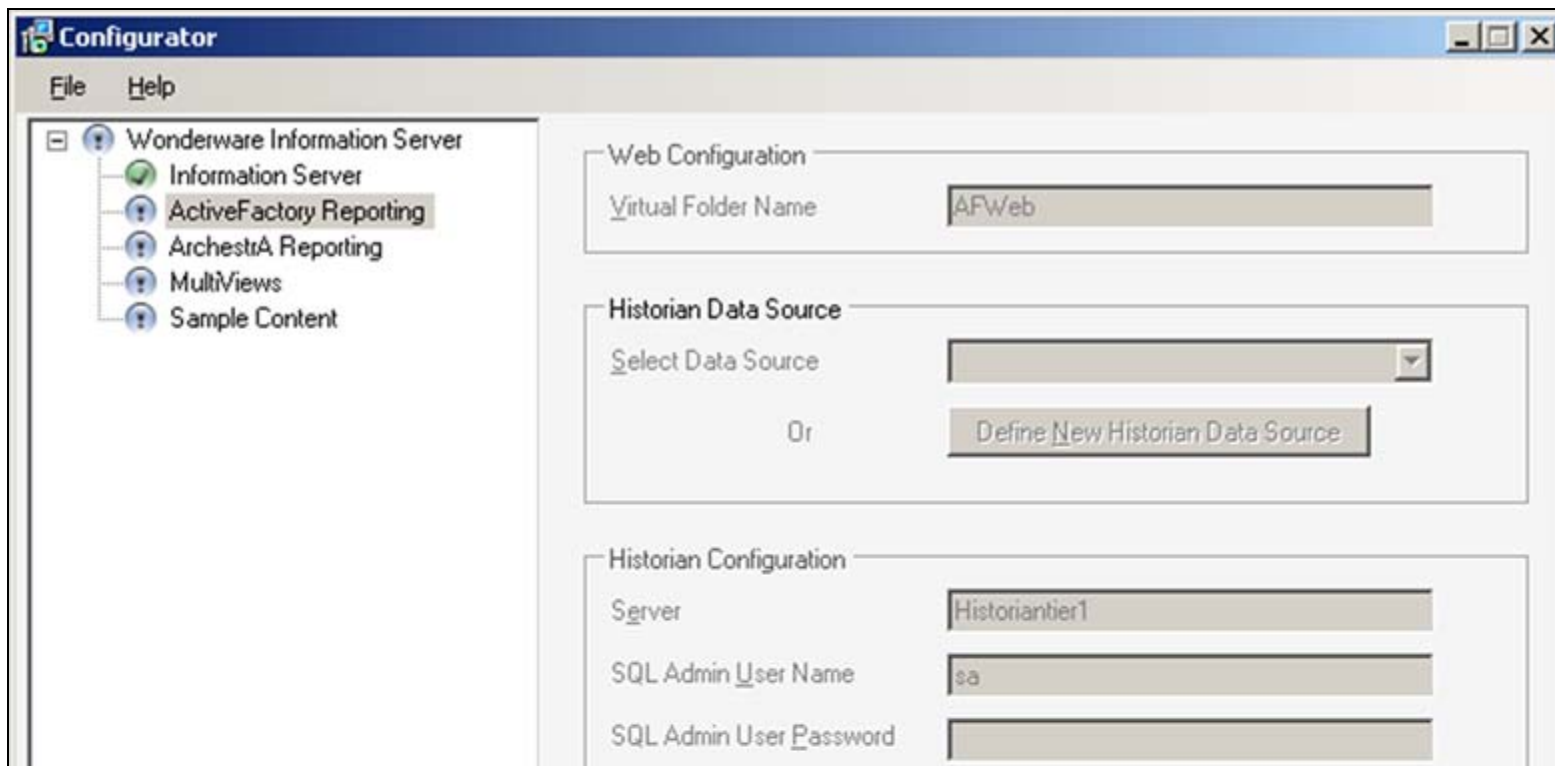


FIGURE 1: SUCCESSFUL WIS CONFIGURATION

Note: If the License Status does not show ACQUIRED as shown in above figure, click the **License Manager** button to open the ArchestrA License Manager and make sure to install the proper license for WIS v4.0.

1. Click the ActiveFactory Reporting item.
2. You will see a dialog box similar to Figure 2 (below).

Note that because the items in this box are disabled, you cannot modify anything. This is because the Historian data source has not been configured. Clicking the **Configure** button will generate the **Historian data source details are invalid** message.



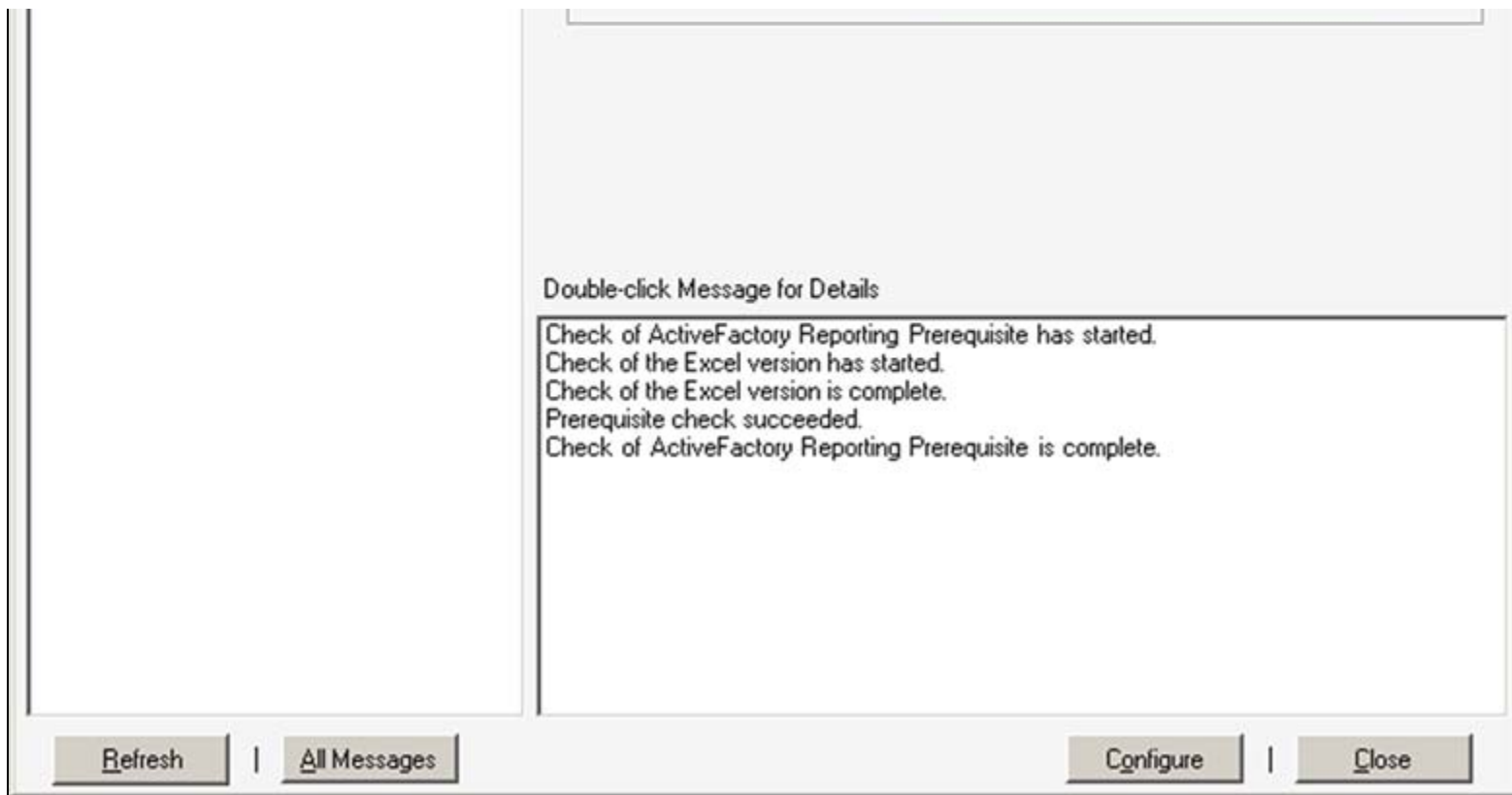


FIGURE 2: HISTORIAN DATA SOURCE NOT CONFIGURED YET

To Configure the Historian Data Source

1. Click on Windows **Start > Programs > Wonderware > Information Server > Home Page** to start up the Wonderware Information Server.
2. Click **Launch Pad > System**, and expand the **Administration** node.
3. Click **Data Source Manager**. The Data Source Manager panel appears:

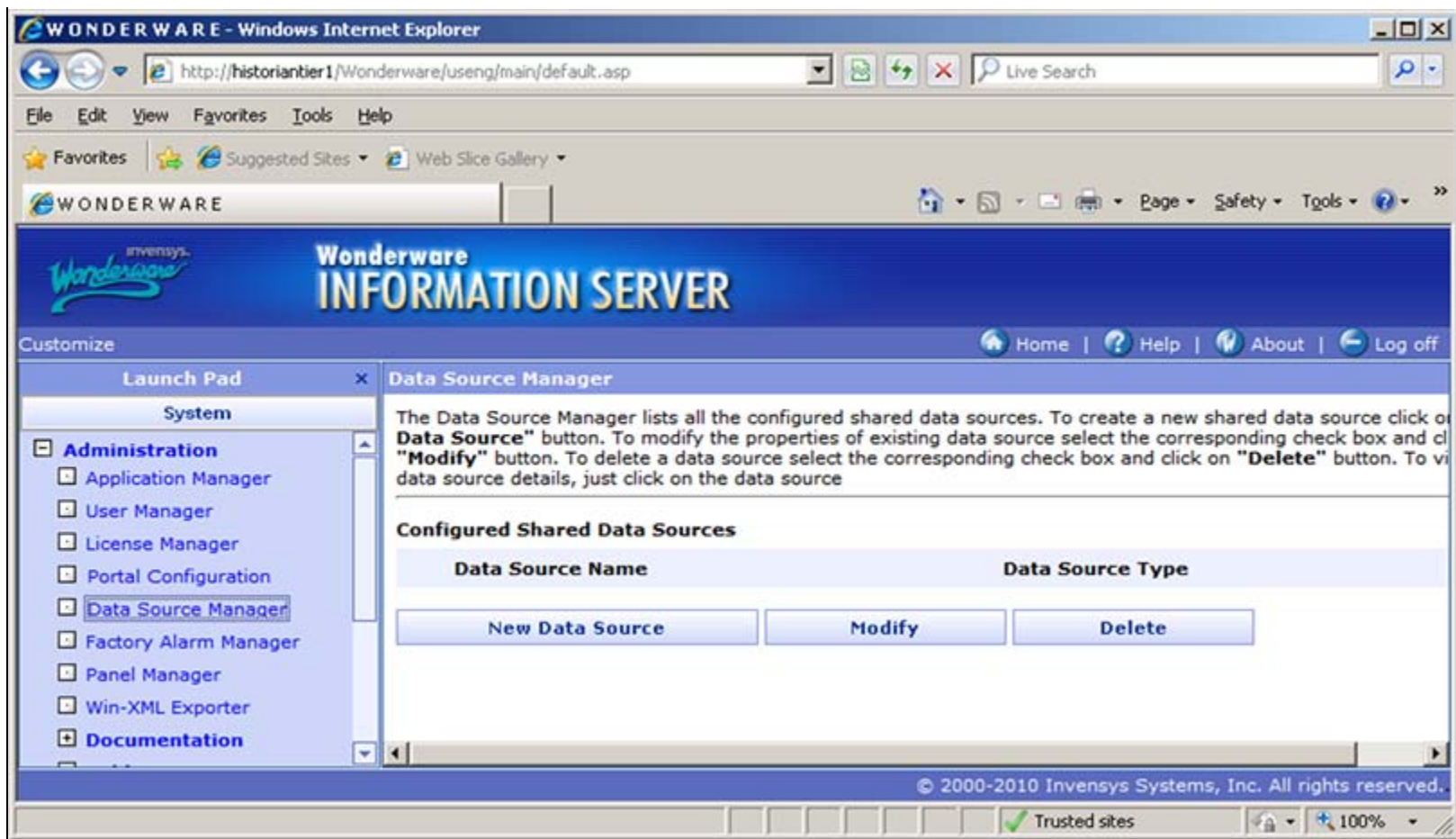


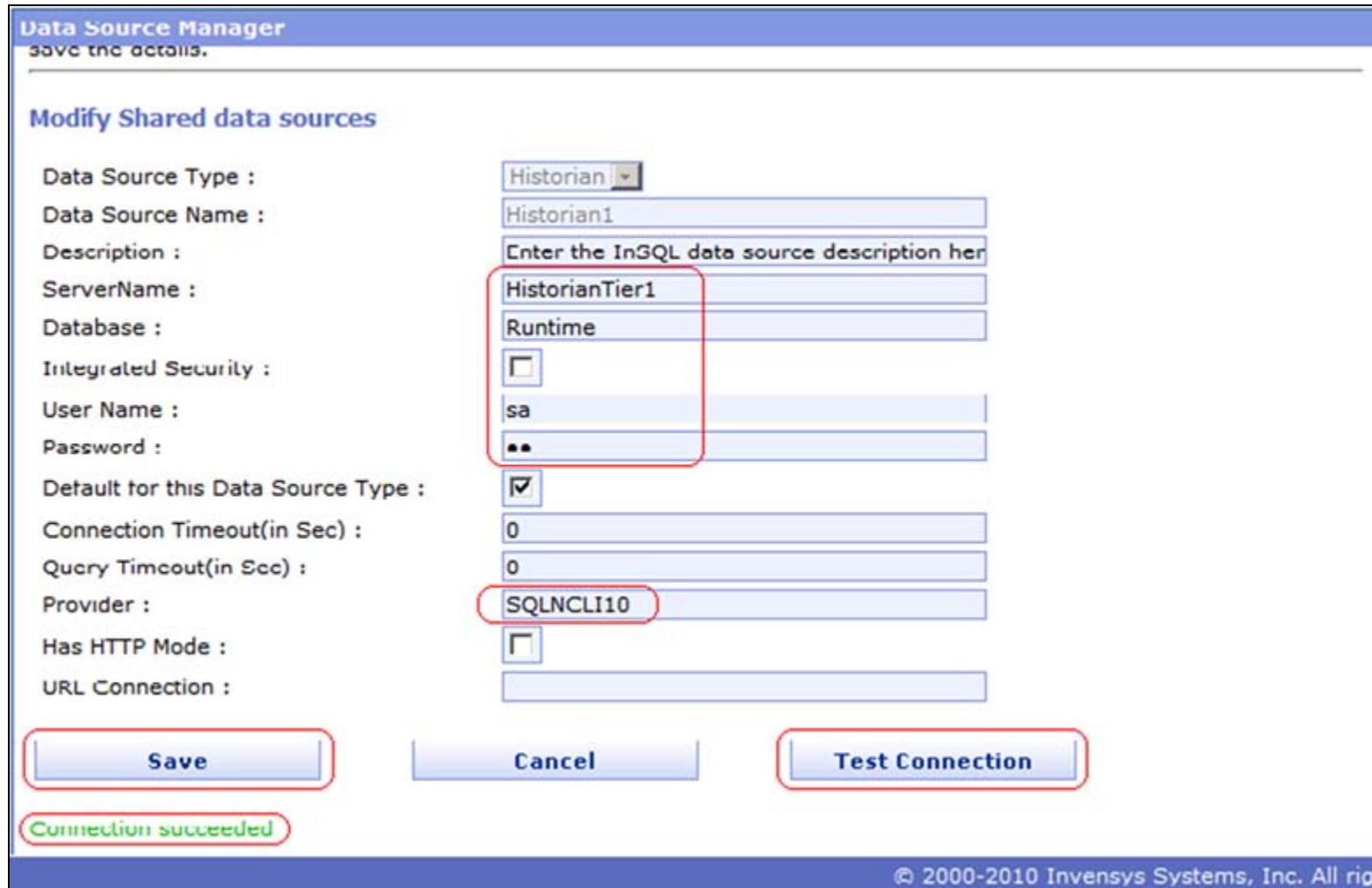
FIGURE 3: DATA SOURCE MANAGER PANEL

4. Click **New Data Source** then select Historian from the list. You see the **Add New Shared Data Source** dialog box.
5. Type the Data Source name, Descriptions, ServeName, and Database name (Figure 4 below).

Note that the **ServerName** is the name of the computer on which the **Historian** is installed, and the Database name for the Historian is **Runtime**.

6. You can either use the SQL Server or the Windows Integrated Security authentication mode. SQL Server authentication mode is being used in this example.
7. Check the **Default for this Data Source Type** option.
8. Because you will use the ActiveFactory Web reporting feature, set the connection timeout for the data source to some value other than **0** (the default). Doing so will ensure Internet Explorer doesn't time out when Wonderware Information Server tries to connect to the Wonderware Historian database.
9. In the **Provider** field, type the name of the provider based on the SQL Server version installed according to the following:
 - If SQL Server 2005 is installed, type **SQLNCLI**.

- If SQL Server 2008 is installed, type **SQLNCLI10**.
10. Check the **Has HTTP Mode** box if you want to access the database with HTTP. Enter the associated URL in the URL Connection box (see [Technote 498 Installing SQLXML on Wonderware Information Server 3.0](#)).
 11. Click the **Test Connection** button to verify that the Add New Shared Data Source is configured correctly. The connection test should return with **Connection succeeded** as shown in Figure 4 (below).
 12. Click **Save** to save the data source configuration.



Data Source Manager
save the details.

Modify Shared data sources

Data Source Type : Historian

Data Source Name : Historian1

Description : Enter the InSQL data source description here

ServerName : HistorianTier1

Database : Runtime

Integrated Security :

User Name : sa

Password : ..

Default for this Data Source Type :

Connection Timeout(in Sec) : 0

Query Timeout(in Sec) : 0

Provider : SQLNCLI10

Has HTTP Mode :

URL Connection :

Save **Cancel** **Test Connection**

Connection succeeded

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FIGURE 4: DATA SOURCE CONFIGURATION IN DATA SOURCE MANAGER

13. Now, go back to the Configurator and select the **ActiveFactory Reporting** item. The Historian configuration you made for the Historian data source should now be active on this window.
14. Since the Historian data source was configured to use SQL authentication mode, type the corresponding password and click the **Configure** button.

- Wonderware Information Server
 - Information Server
 - ActiveFactory Reporting
 - ArchestrA Reporting
 - MultiViews
 - Sample Content

Web Configuration

Virtual Folder Name

Historian Data Source

Select Data Source ...

Or

Historian Configuration

Server

SQL Admin User Name

SQL Admin User Password

Double-click Message for Details

Check of ActiveFactory Reporting Prerequisite has started.
Check of the Excel version has started.
Check of the Excel version is complete.
Prerequisite check succeeded.
Check of ActiveFactory Reporting Prerequisite is complete.

FIGURE 5: HISTORIAN DATA SOURCE CONFIGURATION IN WIS CONFIGURATOR

15. When it is done successfully, the Configurator should show the **Configuration of ActiveFactory Reporting has successfully completed** message in the Message Panel (Figure 6 below).

- Wonderware Information Server
 - Information Server
 - ActiveFactory Reporting
 - ArchestrA Reporting
 - MultiViews
 - Sample Content

Web Configuration

Virtual Folder Name

Historian Data Source

Select Data Source ...

Or

Historian Configuration

Server

SQL Admin User Name

SQL Admin User Password

Double-click Message for Details

Check of the Excel version has started.
Check of the Excel version is complete.
Prerequisite check succeeded.
Check of ActiveFactory Reporting Prerequisite is complete.
Configuration of ActiveFactory Reporting has started.
Generation of the configuration file is complete.
Creating the "AFWeb" virtual directory is complete.
Configuration of the Historian data source is complete.
Update of the SuiteVoyager database is complete.
Upgrading the ActiveFactory Reporting schema ...
Upgrade of the ActiveFactory Reporting schema is complete.
Updating the language files ...
Update of the language file is complete.
Configuration of ActiveFactory Reporting has successfully completed.

FIGURE 6: SUCCESSFULLY CONFIGURED MESSAGE

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