Installation Guide

This document applies to the following ERP system(s):

Sage 100 (ProvideX and SQL)

Installation Overview

Creating and installing a new BizInsight environment requires the following steps. If you are upgrading your BizInsight installation to a new version, please refer to the document titled "Applying Updates".

If you are installing on a Terminal Services or Citrix server, please also refer to the document titled "Citrix Terminal Sevices Deployment Guide" for steps specific to that environment.

Notice Screenshots in this document are provided as examples and may not exactly match what you see in your environment or the values displayed in the screenshots may not be appropriate for your implementation. Be sure to read all instructions completely for guidance on what values you may need to enter.

System Requirements

Prior to running the content installer, confirm that the following system requirements are satisfied. If any of the following are not satisfied, this installer tool cannot be used.

- IMPORTANT **For Sage 100 ProvideX customers, the installer *must* be run on the server where the Sage 100 ProvideX data files reside.**
- **The server operating system is one of the following:**
  - Windows Server 2003 R2 (SP2 or later)
  - Windows Server 2008 (SP2 or later)
  - Windows Server 2008 R2
  - Windows Server 2012

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Last Revised: Friday, January 09, 2015

- **The user performing the installation has Administrator privileges**
- **Existing SQL Server installations that can be used are SQL Server 2008, SQL Server 2008 R2, SQL Server 2012 and SQL Server 2014.** If the existing SQL Server installation is not one of the supported versions, use the Content Installer to install a side-by-side SQL Server 2008 R2 Express instance.
- **The C:\ drive must have at least 5 GB of available space for the SQL Server installation (if an existing SQL installation cannot be used)**
- **The server is NOT a domain controller.**
  In the event the server is a domain controller, a supported version of SQL Server and Reporting Services must be installed manually before running the Content Installer. Example installation steps can be found in the document titled "Installing SQL Server and Reporting Services".
- **If the Content Installer will not be used to install an Express edition of SQL Server and Reporting Service, the server *must* have a SQL database engine installed.**
- **If using an existing SQL Server installation, the Windows log in of the user performing the installation must have sysadmin rights to the SQL server installation.**

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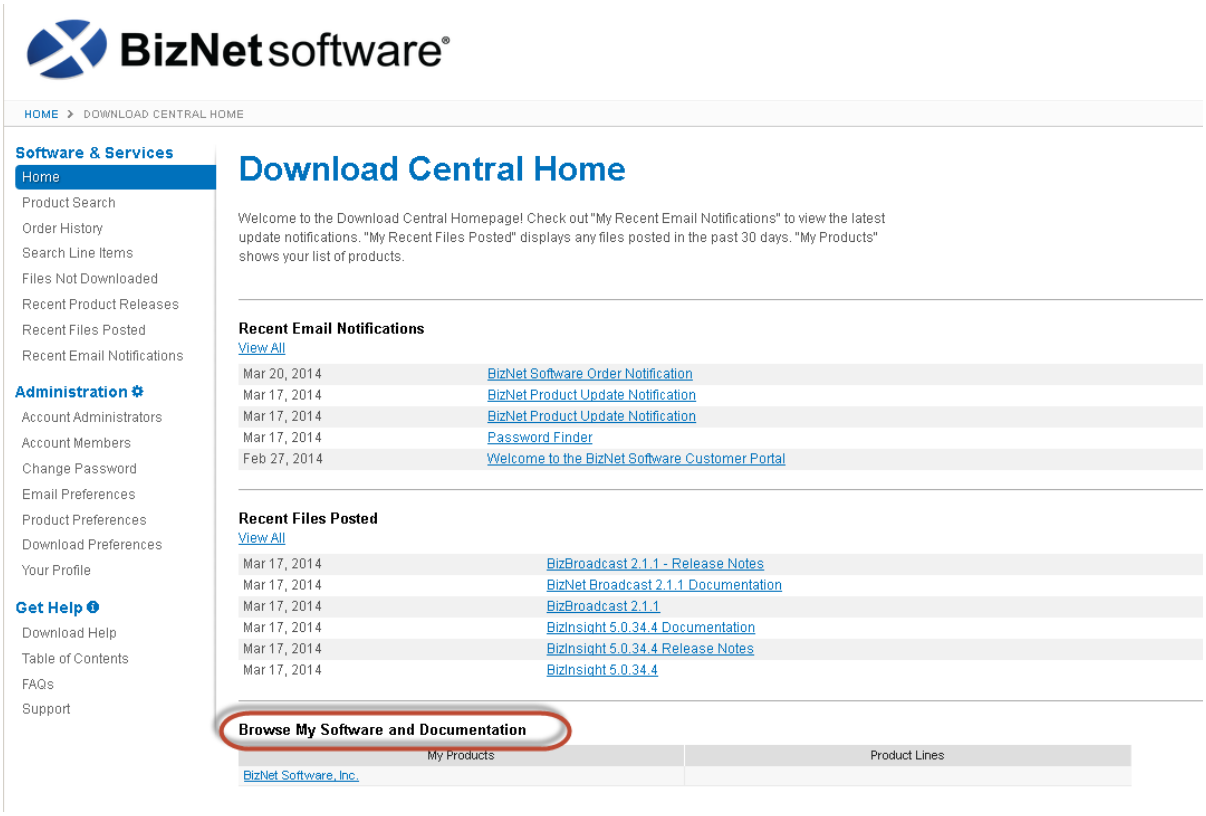
Locate Installation Files

In preparation for installation, download the files that will be required for installation from the BizNet Software portal, (http://biznet.flexnetoperations.com). All files can be found under "Browse My Software and Documentation".



Following are the files you will need to download:

- BizInsight 5.0.35.1
- BizInsight Tools.zip - this download file contains several tools that you might need to use during implementation. It can be found with the BizInsight product download file.
- BizContent - download all BizContent files to which you are entitled (required)
- SQL Server 2008 R2 Installer (required)

Save these files to any network location that is accessible from both the server and the client workstations. Throughout the documentation you will be instructed to access the contents of these different zip files.

Installation Activities for the Server

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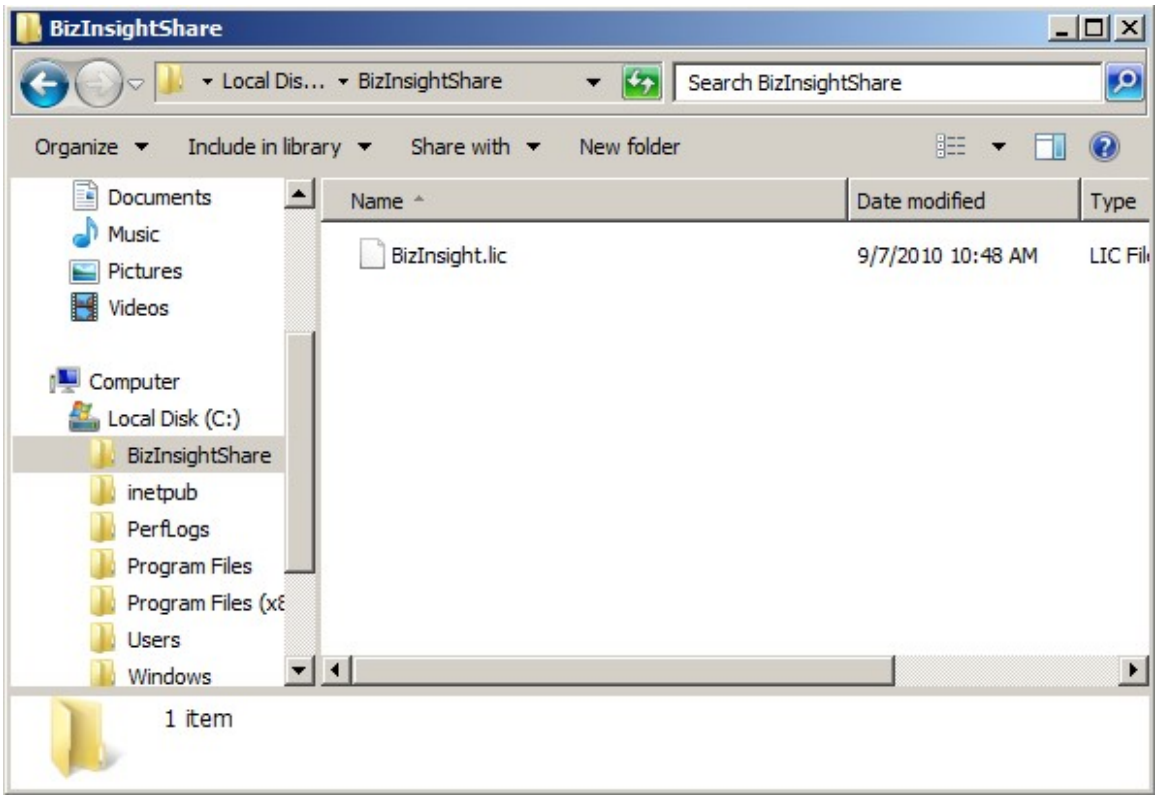
Step 1: Create Shared Directory

Create a folder on your server or any network location that will be accessible by the BizInsight users. Copy the BizInsight license to this folder.



You may want to create two subdirectories, one for Admin files and the second for Configuration files for more granular security control. BizInsight users must have modify rights to the config files but will only need read rights to the admin files. Copy the BizInsight license to the Admin folder if you choose to use this folder structure.

The Admin Tool, which will be used later, will configure sharing and security permissions of this directory for the BizInsight end users.

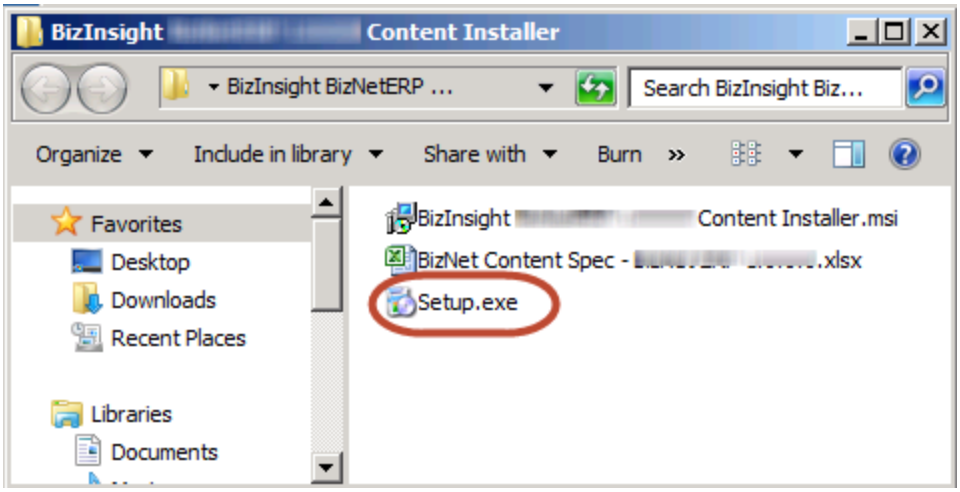
IMPORTANT If you are upgrading from a V4 version of BizInsight and want to run your V4 reports without converting them to V5 functions, you must copy your BizFunctions.xml to the content shared directory. See "Converting V4 Reports to BizInsight 5.0 " on page 131 for more information about running V4 reports in V5.

Step 2: Run Content Pack Installer

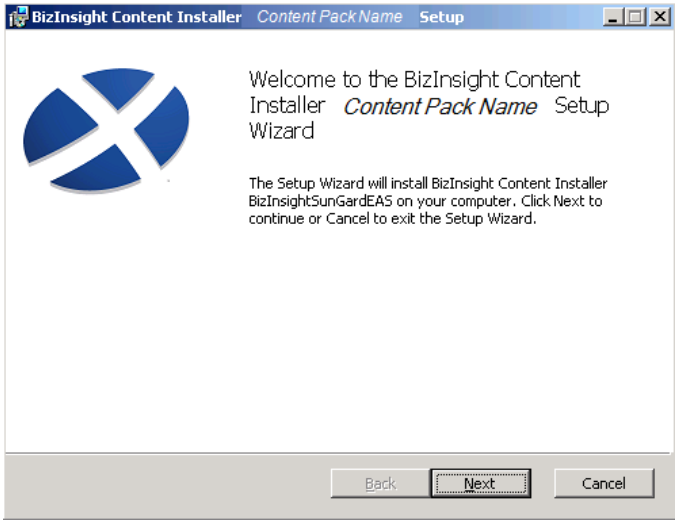
Each content pack comes with an installer package that needs to be run on the server that will be used to host Microsoft SQL Server Reporting Services, a required element of a BizContent installation.

IMPORTANT For Sage 100 ProvideX customers, this installer **must** be run on the server where the Sage 100 ProvideX data files reside. If you intend to use an existing SQL Server installation and Reporting Services instance, the content installer **must** be run on the database server or a server where a SQL database engine has been installed. It is not designed to be run from a client workstation.

1. Browse to the extract directory and double-click on the file named setup.exe.

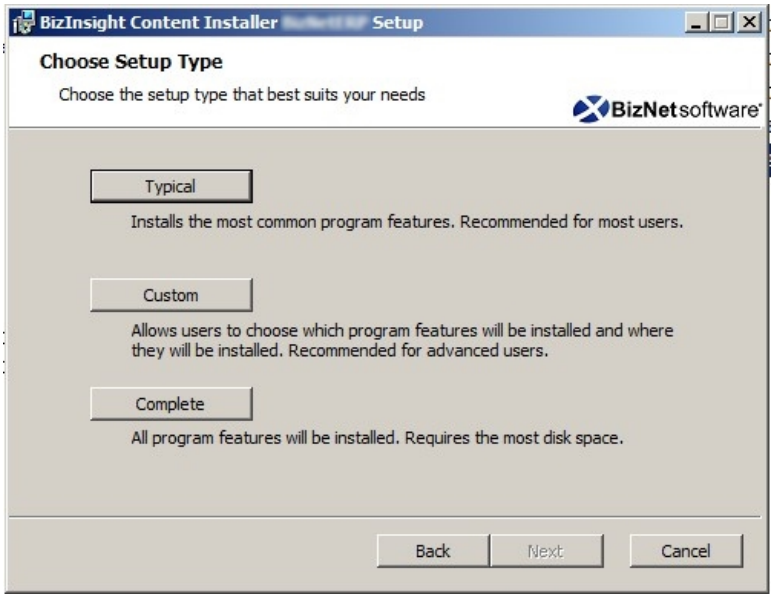


2. The **Welcome** dialog will open. Click **Next**.

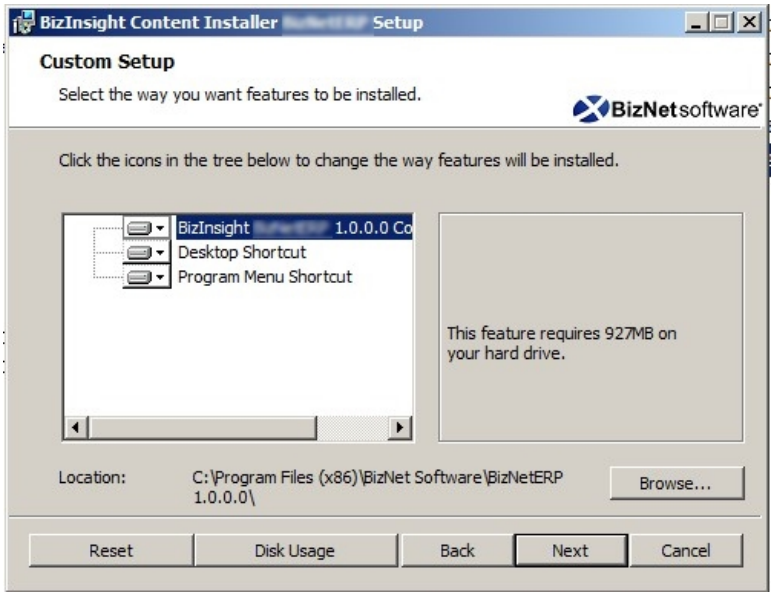


3. Review the End User License Agreement and if you agree to the terms, check the **I accept the terms in the License Agreement** checkbox and click **Next**.

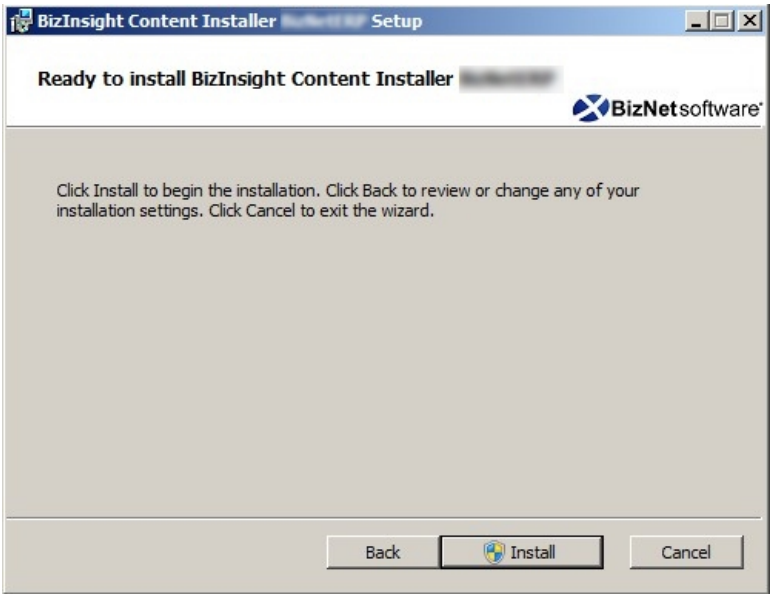
4. Click on the desired **Setup Type** button.



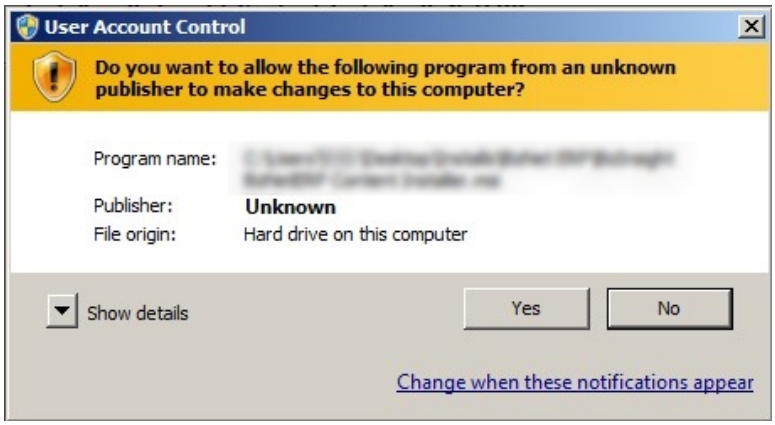
Custom setup type options that are available:



5. Click **Install**.



6. Click **Yes** to any User Account Control messages.

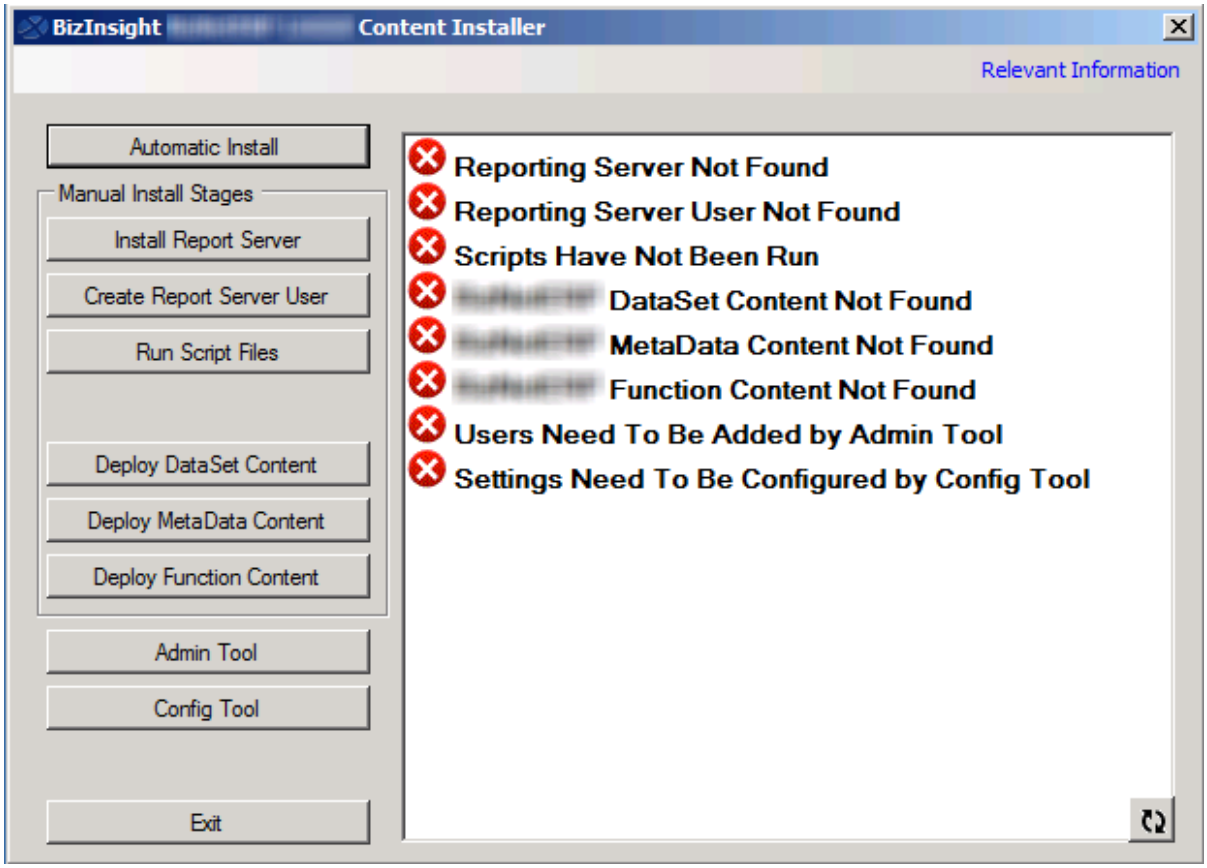


7. When the installer completes, an icon will exist on the desktop if you did not disable the creation of shortcuts.

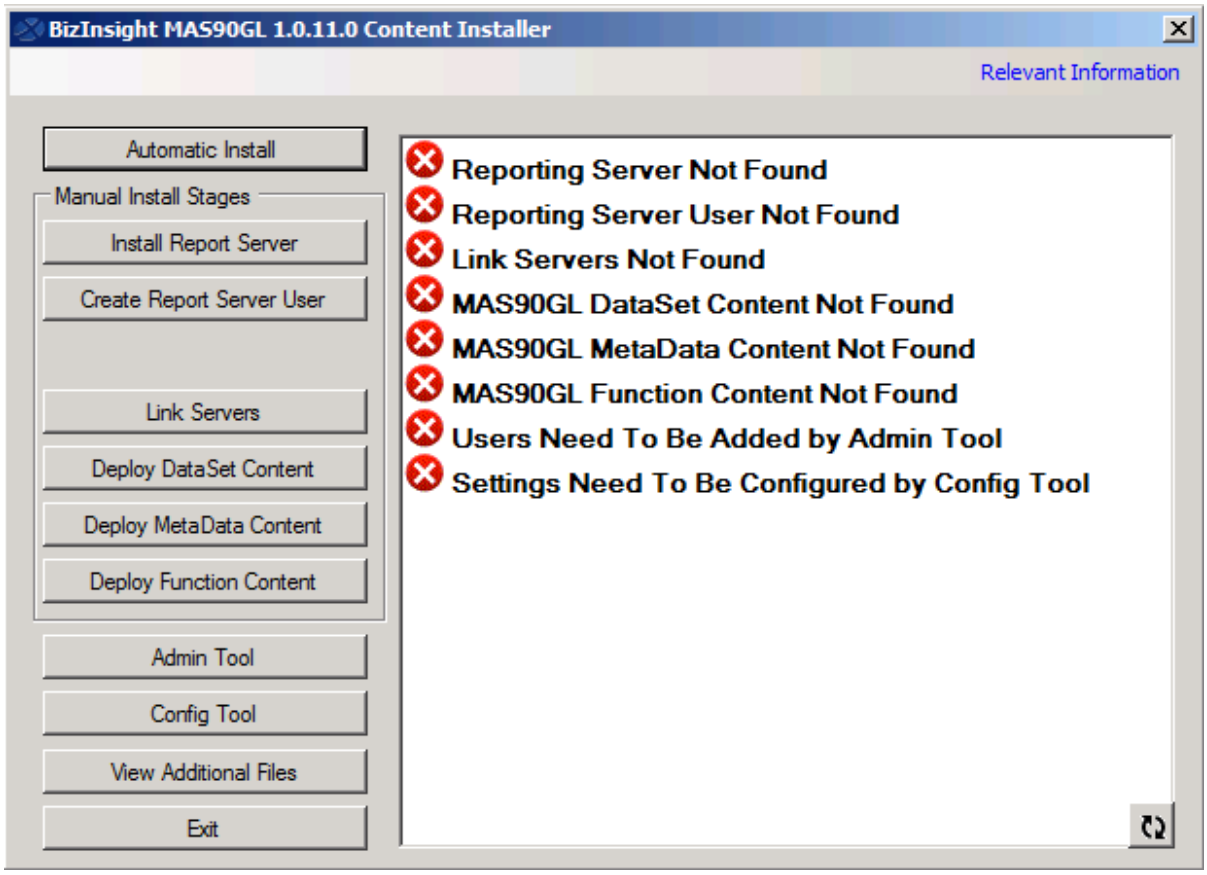
8. Double-click the shortcut on the desktop to launch the content installer. If you chose a Custom installation and disabled the creation of shortcuts, you must browse to the

directory to which the content installer files were extracted and double-click the **BizNet Content Installer.exe**.

9. The content installer will inspect the server and determine what elements might already exist and indicate their presence. The following screenshot illustrates a system that has not had any content previously installed by a content installer.



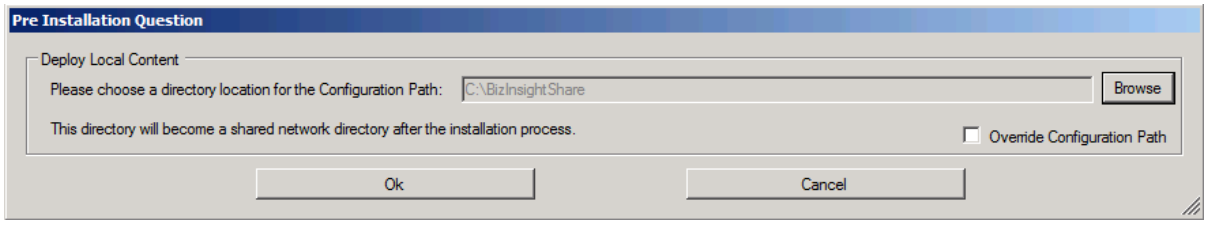
If you are installing content for Sage 100 ProvideX, the options will be slightly different.


BizInsight MAS90GL 1.0.11.0 Content Installer
Relevant Information
Automatic Install
Manual Install Stages
Install Report Server
Create Report Server User
Link Servers
Deploy DataSet Content
Deploy MetaData Content
Deploy Function Content
Admin Tool
Config Tool
View Additional Files
Exit
Reporting Server Not Found
Reporting Server User Not Found
Link Servers Not Found
MAS90GL DataSet Content Not Found
MAS90GL MetaData Content Not Found
MAS90GL Function Content Not Found
Users Need To Be Added by Admin Tool
Settings Need To Be Configured by Config Tool

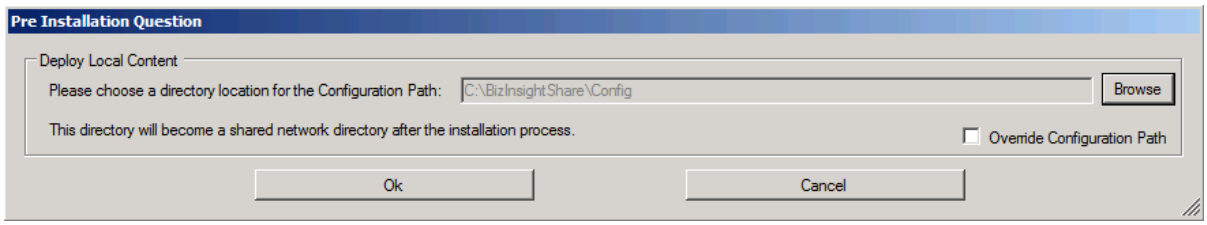
Step 3: Automatic Install

This section describes installing using the Automatic Install button. For more details or to install manually, see "Content Installer Manual Install Steps" on page 148 in the Appendices section.

1. Clicking on **Automatic Install** will open a prompt to designate a folder location. Click on the **Browse** button and browse to the folder that will be used as the shared directory for BizInsight.

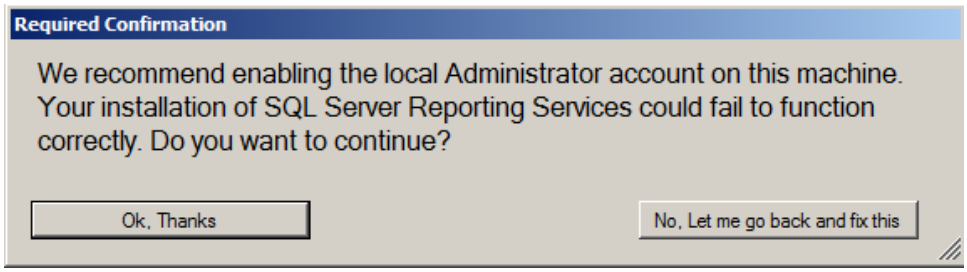


If you chose to create separate folders for the admin files and config files, choose the config folder for the path.

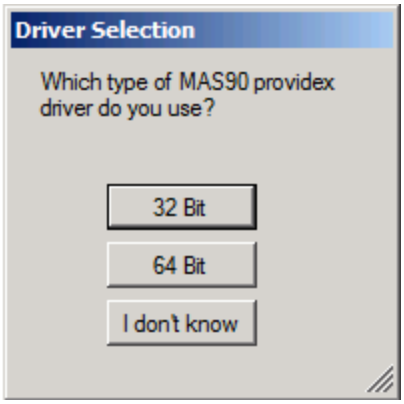


Click **OK**.

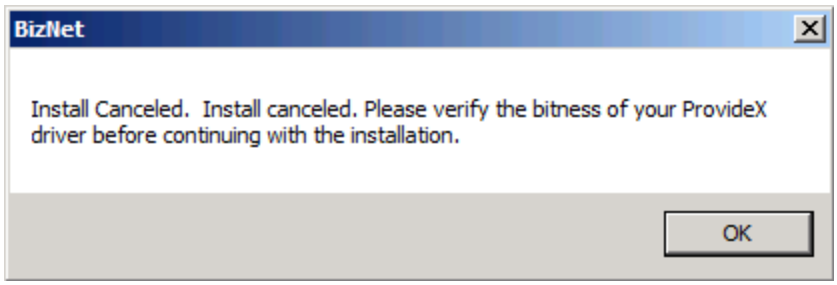
2. You may be asked to enable the local Administrator account. Click **OK, Thanks**, even if you know that the Administrator account is enabled.



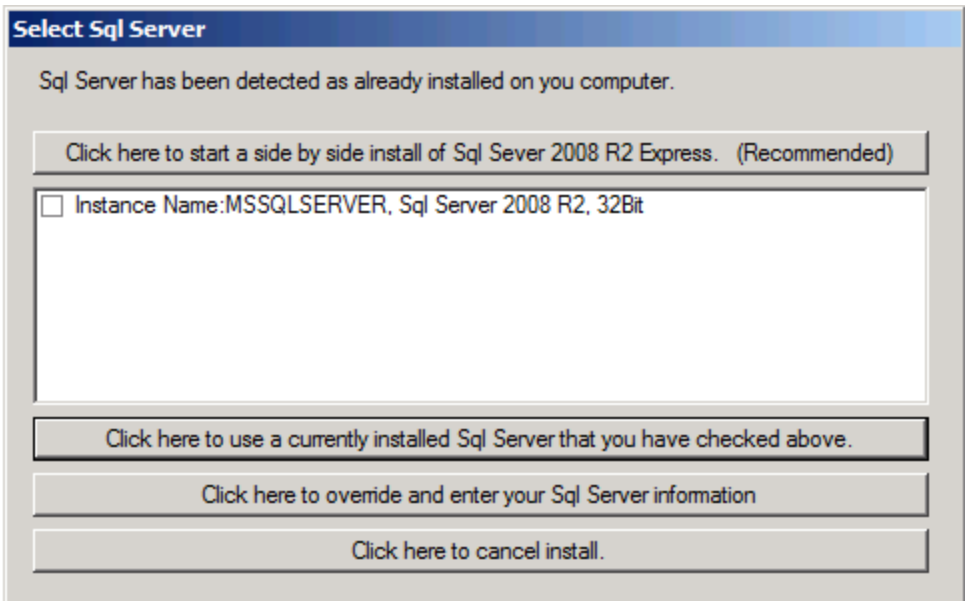
3. The installer will ask whether you are using a 32-bit version of Sage 100 or a 64-bit version. Choose the appropriate button.



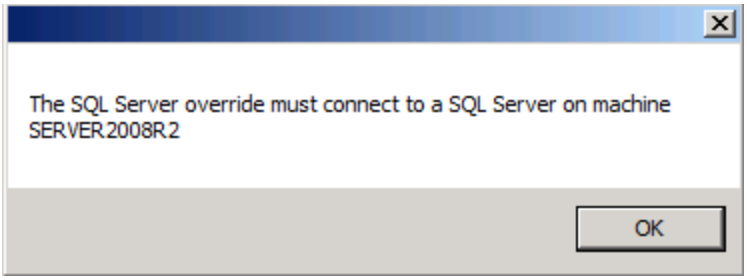
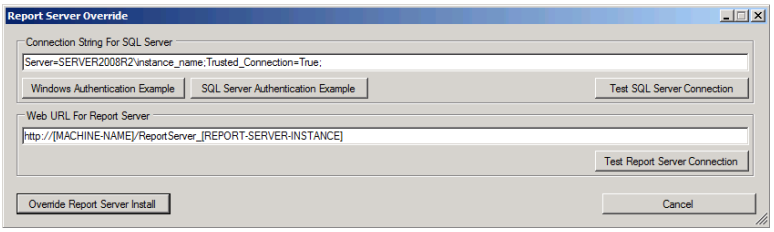
IMPORTANT This question controls whether a 32-bit a 64-bit version of SQL Server is installed. SQL Server can only access and use ODBC drivers that are the same bitness. If you do not know whether your Sage 100 installation is using a 32-bit or 64-bit ODBC driver, click **I don't know** and the installation will be canceled. You will need to ascertain that information before the installation can proceed.



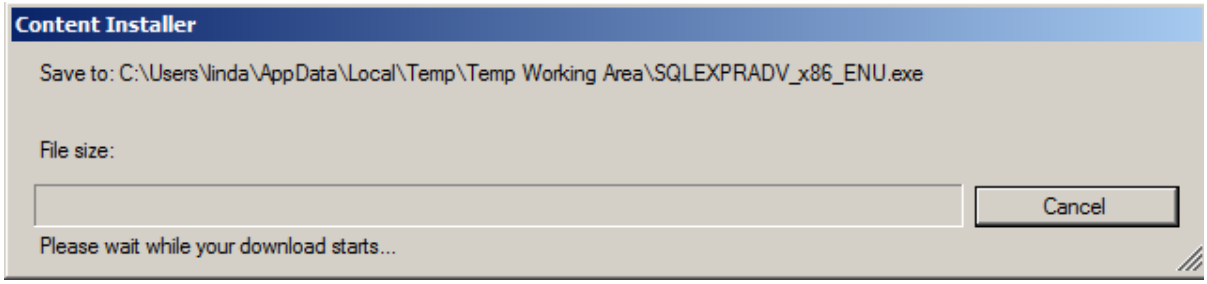
4. If the Content Installer detects existing instances of SQL Server Reporting Services installed on the local server machine, the following dialog will display giving you the option to use the existing installation or to install a side by side installation.



Option	Description
Click here to start a side by side installation of SQL Server 2008 R2 Express	The side-by-side option is the recommended option to ensure that all configuration changes needed for BizInsight purposes do not interfere with other applications that may be using SQL or Reporting Services. It is especially recommended when your existing SQL Server is version 2005. **BizNet Software Support will not assist with implementing Reporting Services 2005**.
Click here to use a currently installed SQL Server that you have checked above	Use this button to specify that the installer use a detected existing instance. Be sure to check the checkbox next to any detected instance before using this button. **IMPORTANT** If Sage 100 is using a 64-bit ODBC driver and an existing 32-bit SQL instance is detected, do **not** choose that existing instance. Instead, choose to do a Side-By-Side installation of SQL Server. A 64-bit ODBC driver cannot be used by a 32-bit SQL Server instance.

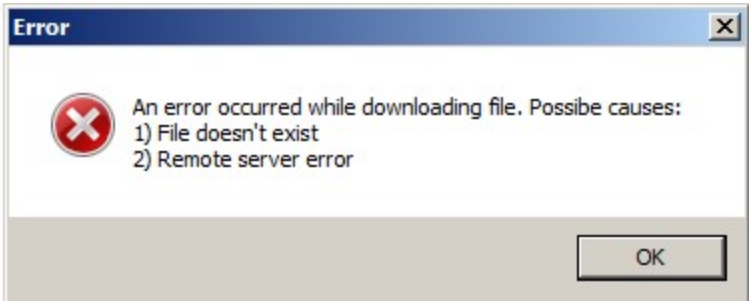
Option	Description
Click here to override and enter your Sql Server information	Use this button If you need to specify a different port or want to use HTTPS for secure communications or your existing installation is not detected. When this button is clicked, a warning will display to emphasize the requirement that the content installer must be run on a server with a SQL database engine installed. Click OK to clear the message.   In the **Connection String for SQL Server** field, enter a valid connection string for the SQL Server instance to which the Content Installer should install the SQL MetaData databases. Use the **Windows Authentication Example** or the **SQL Server Authentication Example** buttons to populate the connection string with sample syntax. Be sure to change the values to values valid for your environment. In the **Web URL for Report Server** field, enter the **web service URL** for the Reporting Services site to which Content Installer should deploy the content RDLs.

If no Reporting Services Server is detected, the process automatically installs SQL Server 2008 R2 Express with Advanced Services and uses “BIZNET” as the default Report Server instance name.



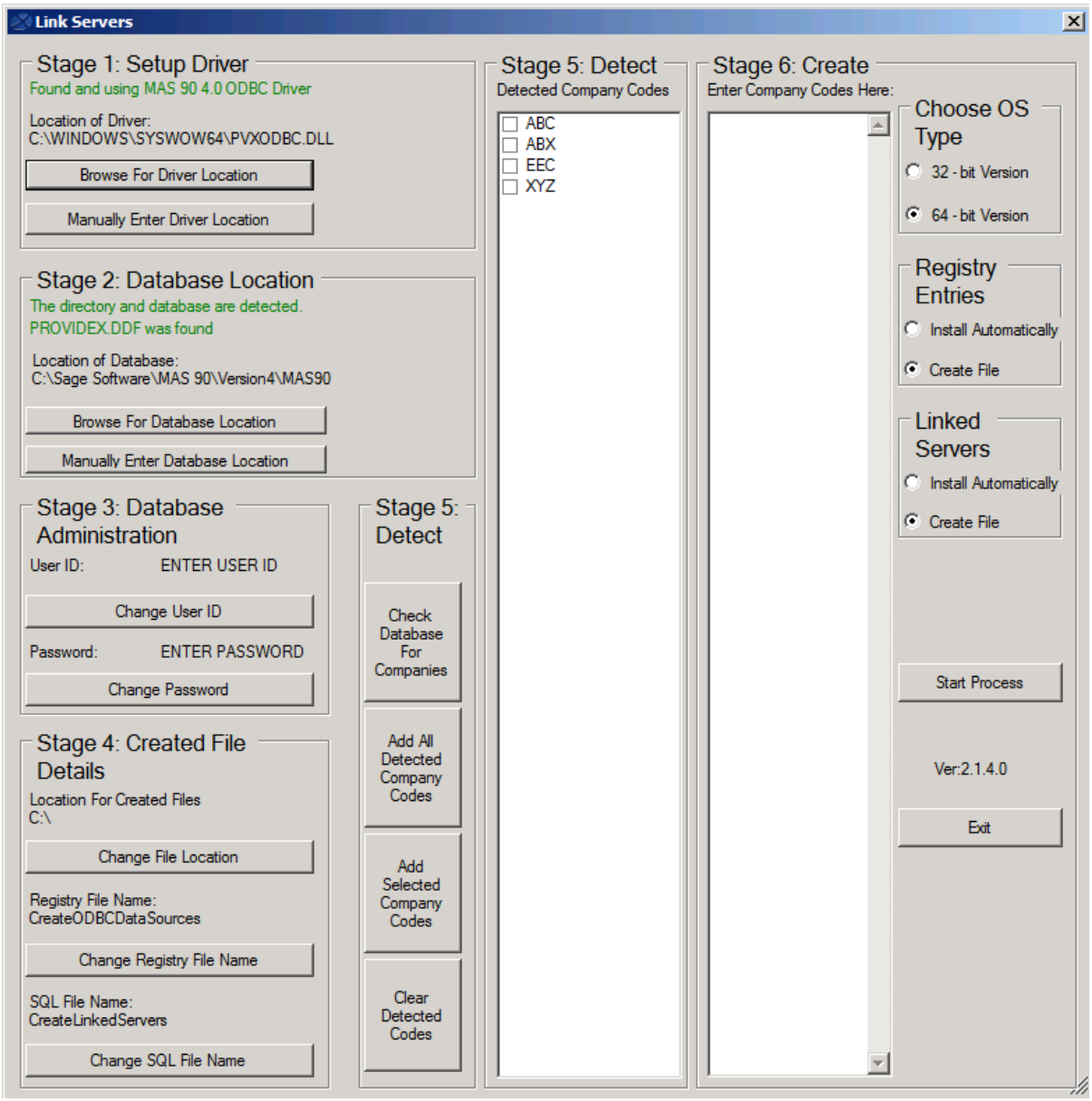
IMPORTANT IF an existing reporting services installation that you want to use is not detected by the installer or you are not able to use the Override option, contact BizNet Software Support for assistance.

If you get the following error after selecting the side by side installation, verify that you have internet access.



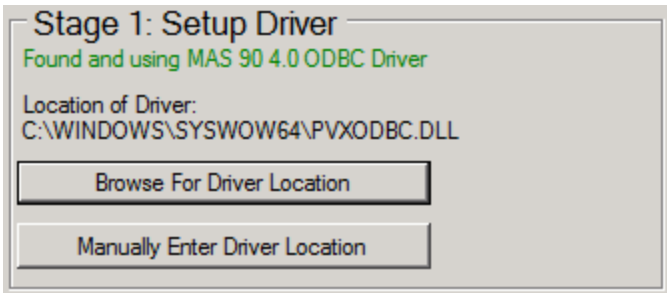
If the side-by-side installation fails, contact BizNet Software Support for assistance.

5. For customers installing Sage 100 ProvideX content, the **Link Servers** dialog will open. This step will create ODBC data sources and Linked Servers for each Sage 100 company from which data will be retrieved using BizInsight. Sage 100 SQL customers can skip forward to the next step, Content Deployment.

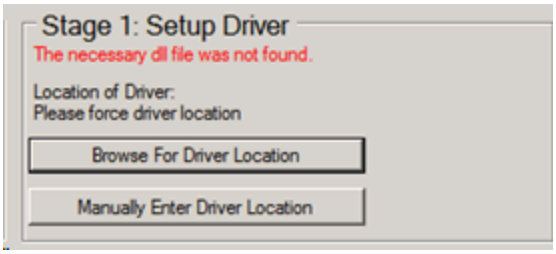


6. You will work through this dialog starting with the Stage1 section (upper left).

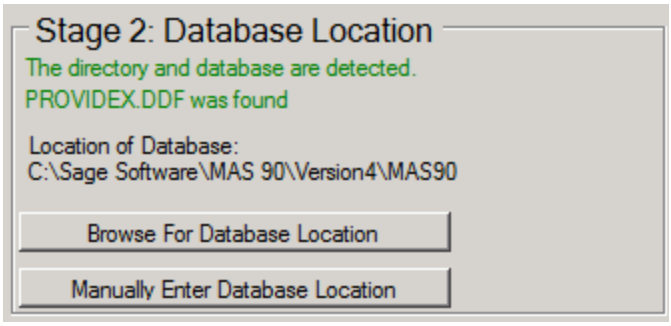
   a. **Stage 1: Setup Driver**
   The installer will try to automatically detect the ProvideX ODBC driver



If the driver is not found, click on the Browse button to browse to the directory in which the driver is located. Or manually enter the path.



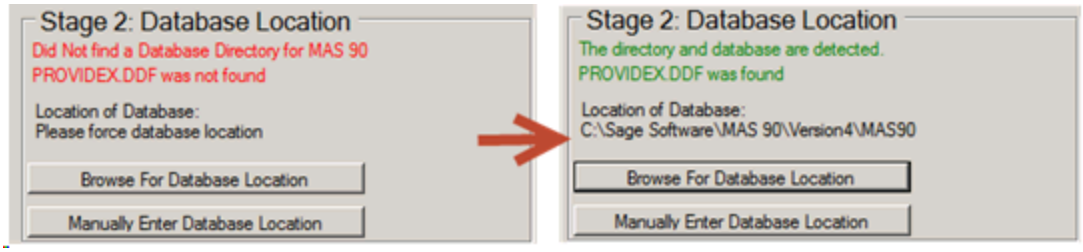
b. **Stage 2: Database Location**
The installer will try to automatically identify the location of the MAS90 company data directories.



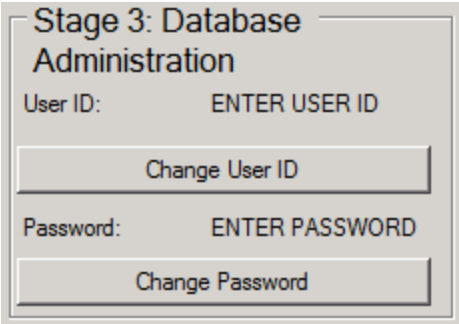
CRITICALLY IMPORTANT If the detected database location is a UNC path or a mapped drive path, you must go to Task Manager and end task the Content Installer. See "Adjusting the Sage 100 ODBC paths" on page 109 for instructions on how to change the detected paths to a local directory on the server. If this installation is being done on a server that is not where the Sage 100 ProvideX data is located, you must perform the installation on the Sage 100 data server.

If the installer cannot find the directories, click on the Browse button and browse

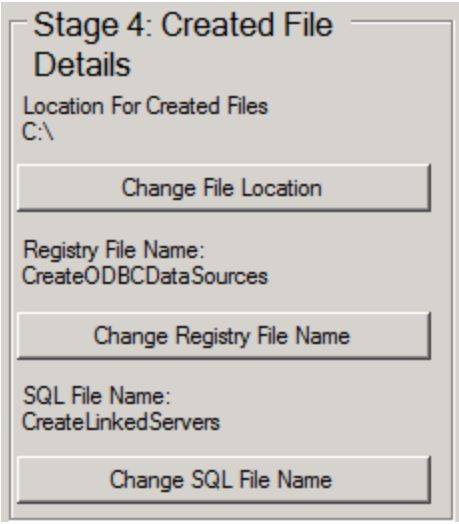
to the directory that contains the SAGE 100 company database directories (MAS_*XXX*). This location should be a local drive, not a mapped drive or a UNC path.



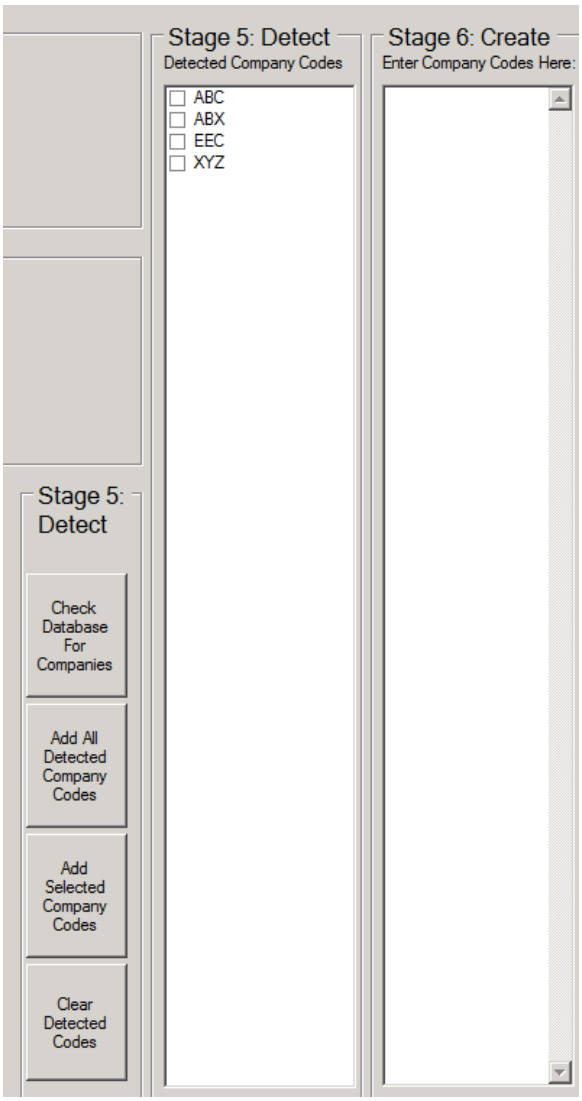
c. **Stage 3: Database Administration**
Provide a SAGE 100 login id and password with rights to all companies from which data will be retrieved using BizInsight. BizNet recommends creating a login id for BizInsight reporting purposes and using this login id instead of using an existing user's login and password that could be changed or deleted in the future.



d. **Stage 4: Created File Details (Optional)**
This section allows you to override the default file location and file names that the tool can create for the next installation steps.



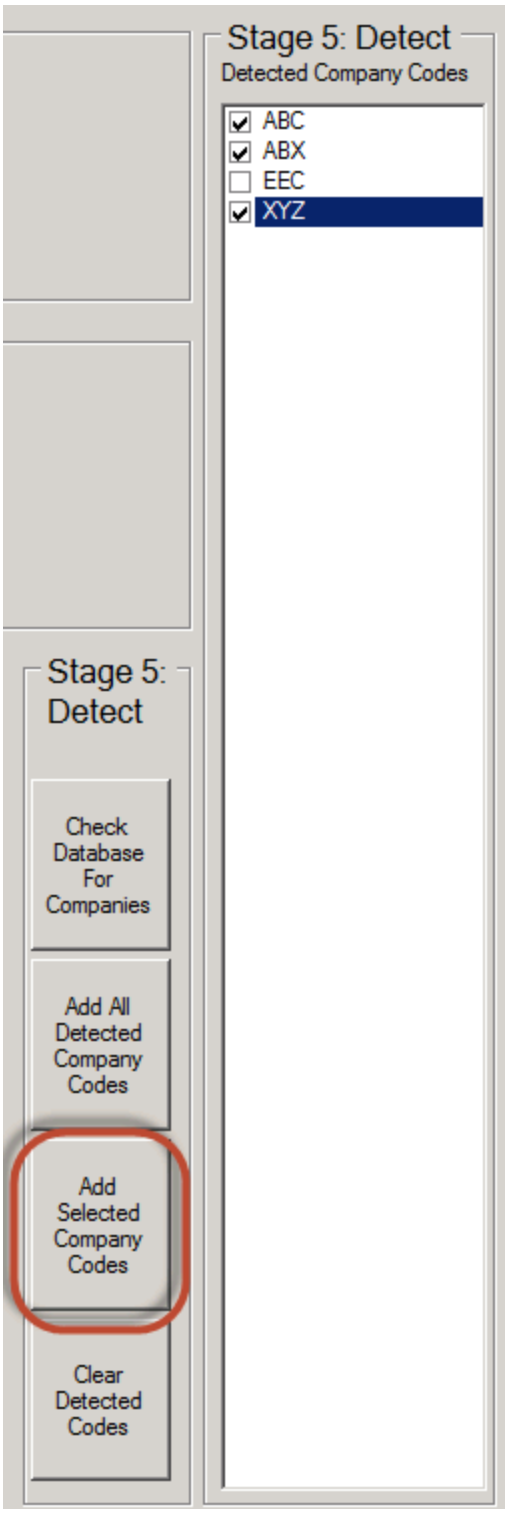
e. **Stage 5: Detect** and **Stage 6: Create**
Use this section to automatically detect existing Sage 100 companies and select which ones to setup for BizInsight reporting.



The **Check Database For Companies** button will load all Sage 100 companies into the **Stage 5: Detect** pane.

The **Add All Detected Company Codes** button will add all detected companies to the **Stage 6: Create** pane.

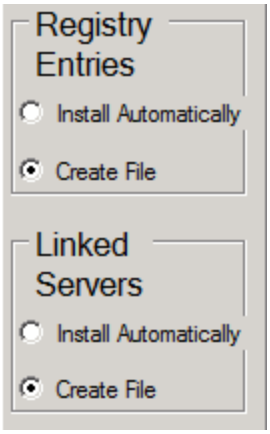
To add only certain companies for BizInsight reporting, check the checkbox next to the company code in the **Stage 5: Detect** pane and then click the **Add Selected Company Codes** button.



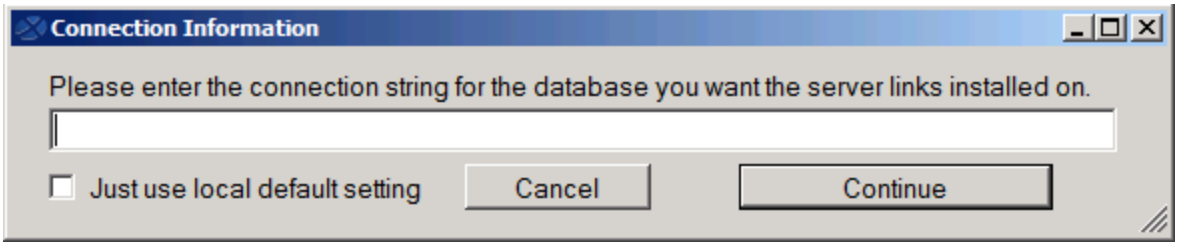
Use the **Clear Detected Codes** button to start over.

f. **Choose OS Type**
Select the appropriate radio button to indicate the bitness of the ***server*** hardware, 32-bit or 64-bit.

g. **Registry Entries** and **Linked Servers**
Use these options to control the next installation steps. The default option, **Create File** will create files in the directory specified in the Stage 4 section. You will then be responsible for executing these files yourself.



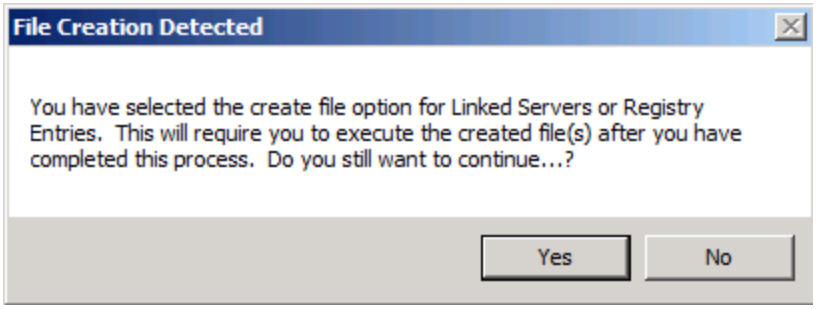
The **Install Automatically** option will automatically run the registry update file and connect to SQL Server Management Studio to run the Linked Servers script. If you choose the option to install the Linked Servers automatically, you will need to provide the connection string to the SQL Server instance that the installer connects to in order to run the Linked Server script.



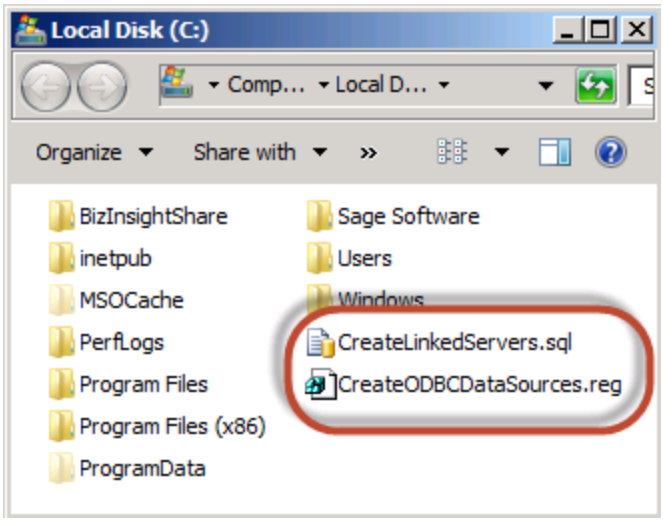
Click the **Just use local default setting** checkbox to automatically populate this field with the default connection string for the instance installed by or selected earlier during the installation. **IMPORTANT** If you are using your own instance, you **MUST** be logged in as a user with **sysadmin** rights to that SQL Server instance in order for the linked server script to be successfully run.

h. Click on the **Start Process** button.

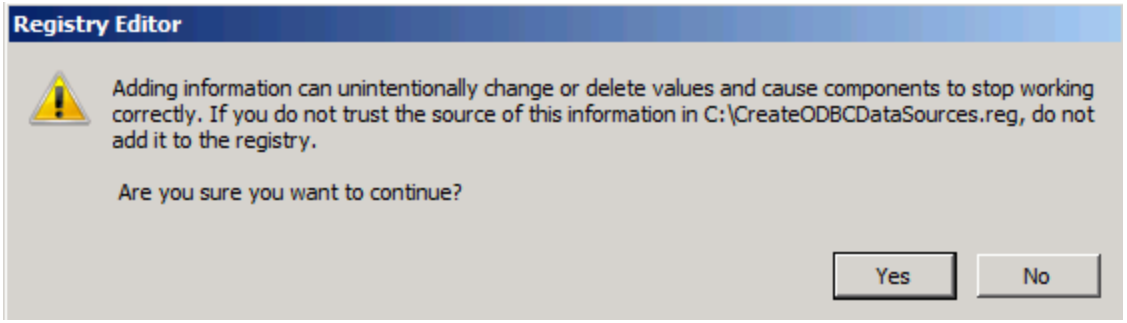
If you left the default selection to Create the files, you will receive the following message. Click **Yes**.

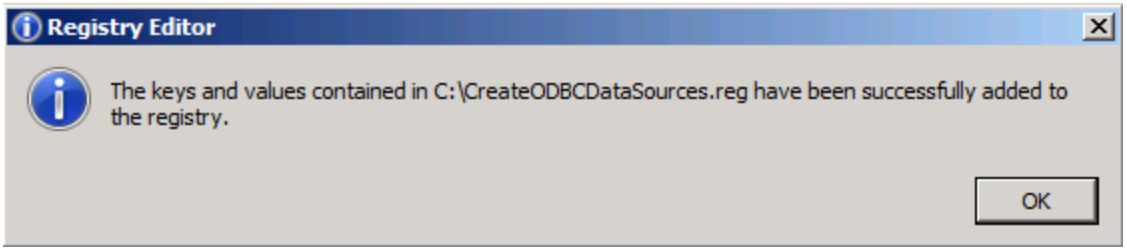


A Windows Explorer window will open to the directory containing the files that were created.



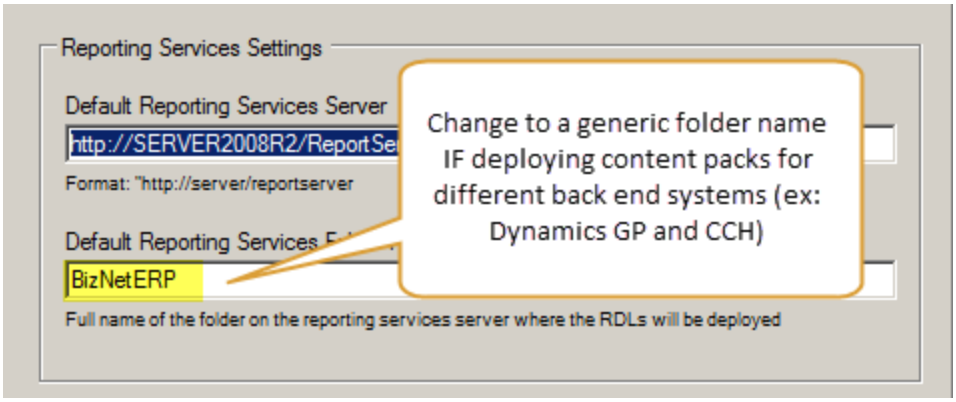
If you chose to automatically install the registry entries, you will get the following messages. Click **Yes** and **OK** respectively.



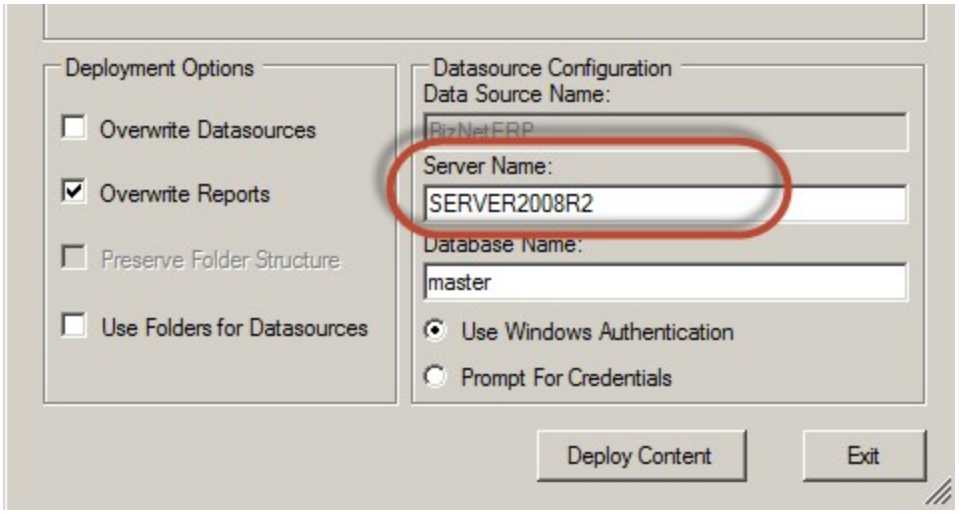


7. The Content Deployment dialog will open next. Most values will be automatically completed for you in this dialog.

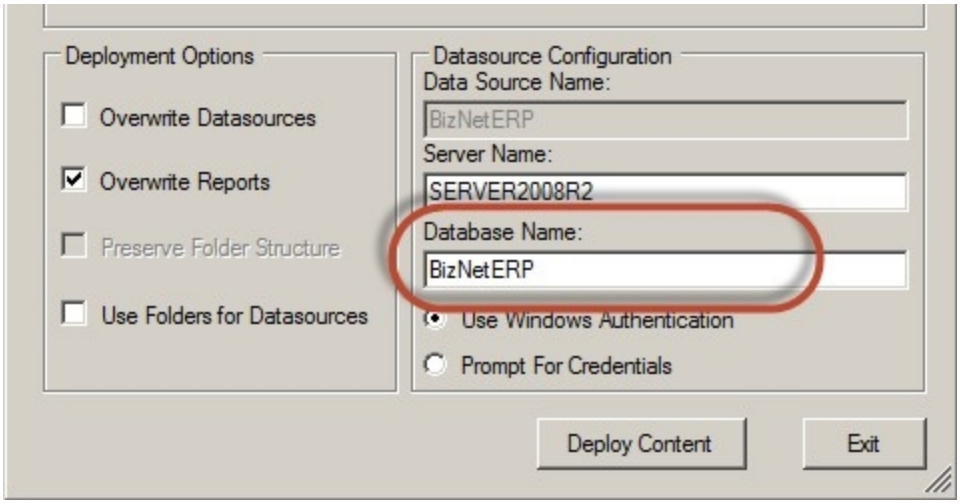
   a. **IMPORTANT** If you will be installing content packs for multiple back end systems (example, , change the **Default Reporting Services Folder Path** to something generic like “” to ensure the content is deployed to the same folder. Do this for each content pack being installed. This is important because BizInsight can be pointed to only one reporting services folder so all content must be deployed to the same folder.



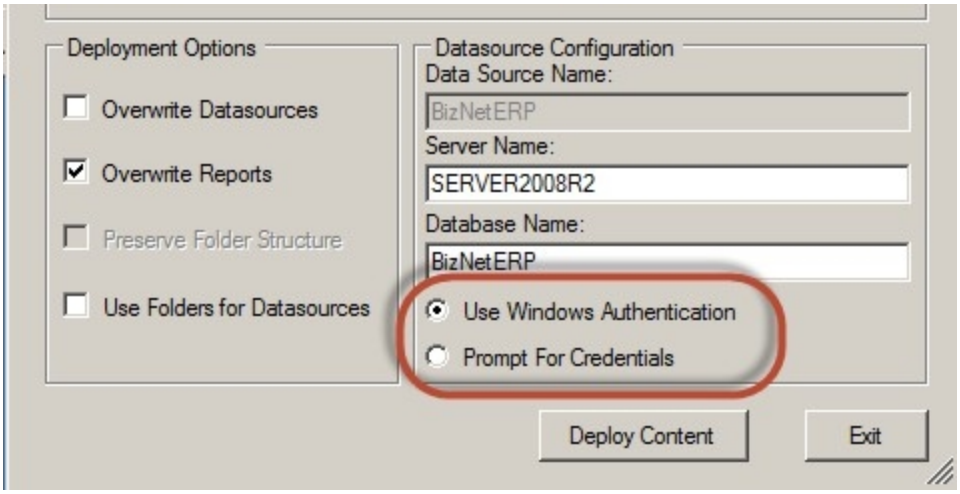
b. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Server Name** field if your accounting system database is on another server.



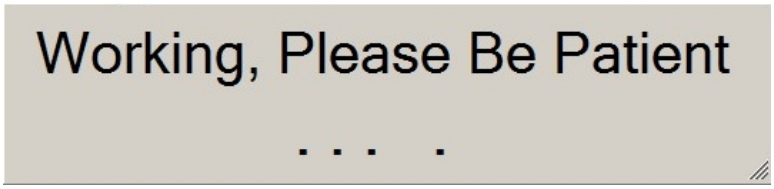
c. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name.



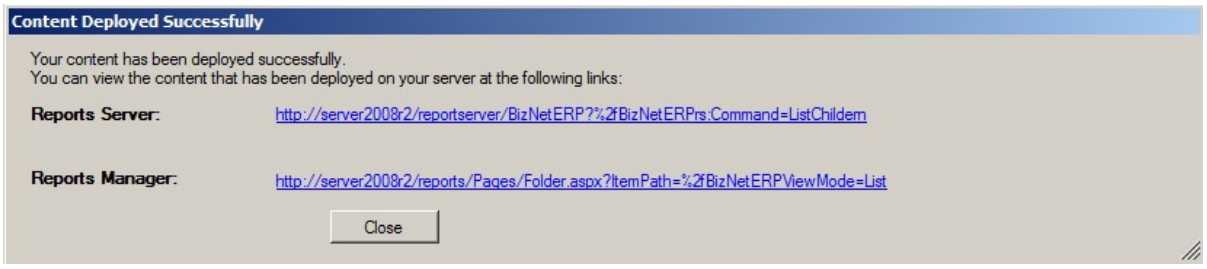
d. **Skip this step if you are using Sage 100 ProvideX** - **data can only be retrieved using Windows authentication**.
Select the desired authentication method – Windows authentication or Prompt for Credentials.



e. Click **Deploy Content** to continue.

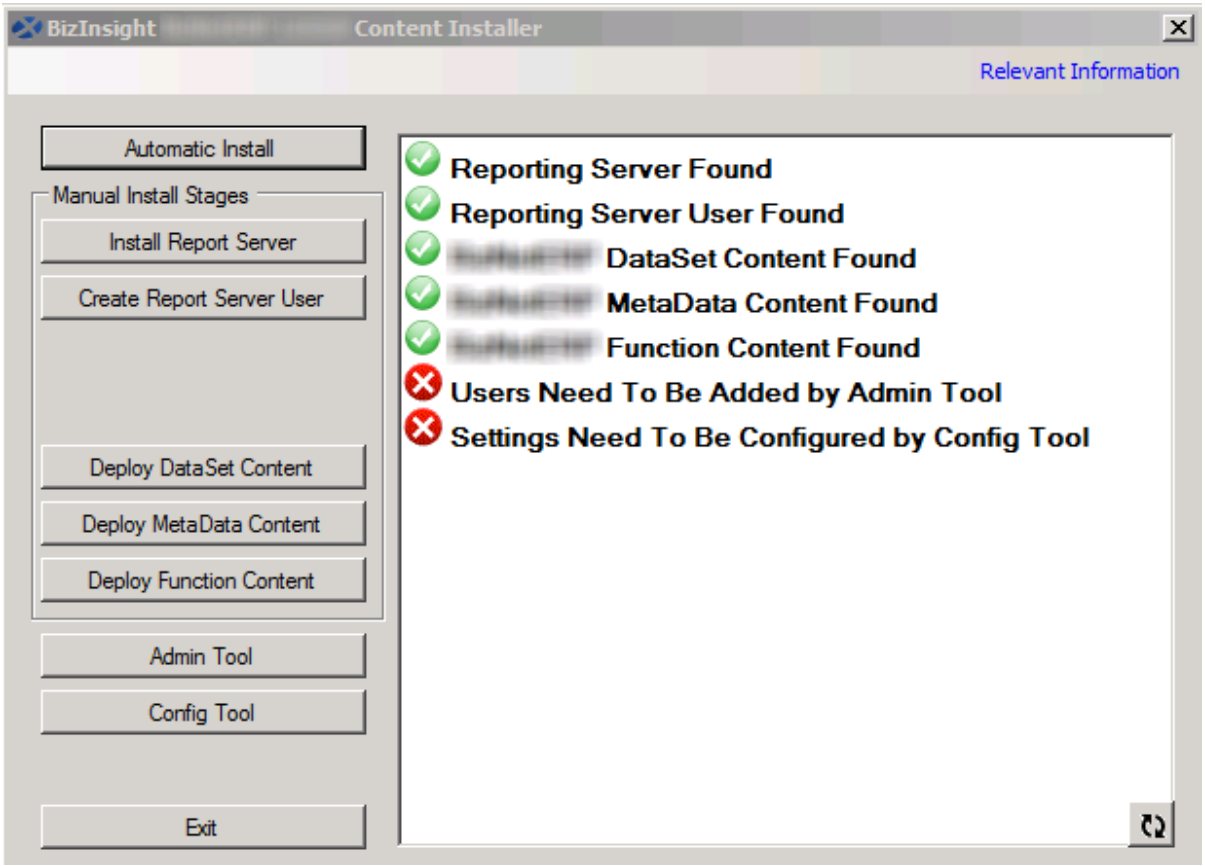


The **Content Deployed Successfully** dialog will open and display the Web Service and the Report Manager URLs. Click **Close**.



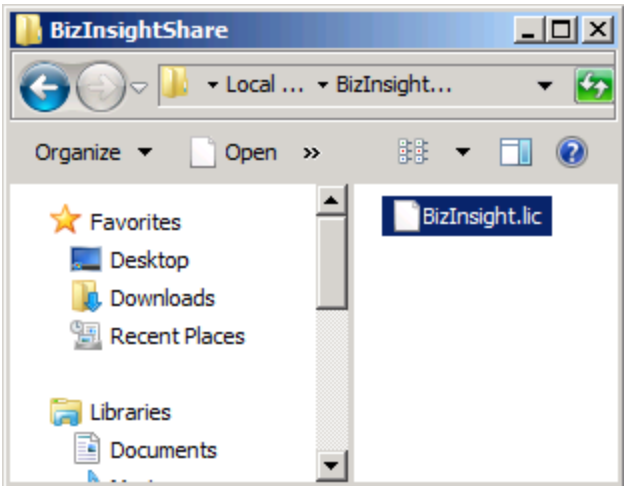
If you encounter an error deploying the DataSet Content, contact BizNet Software Support for assistance.

8. The content installer will continue automatically installing elements. You will see the content installer window update with green checks as the installer completes the elements.

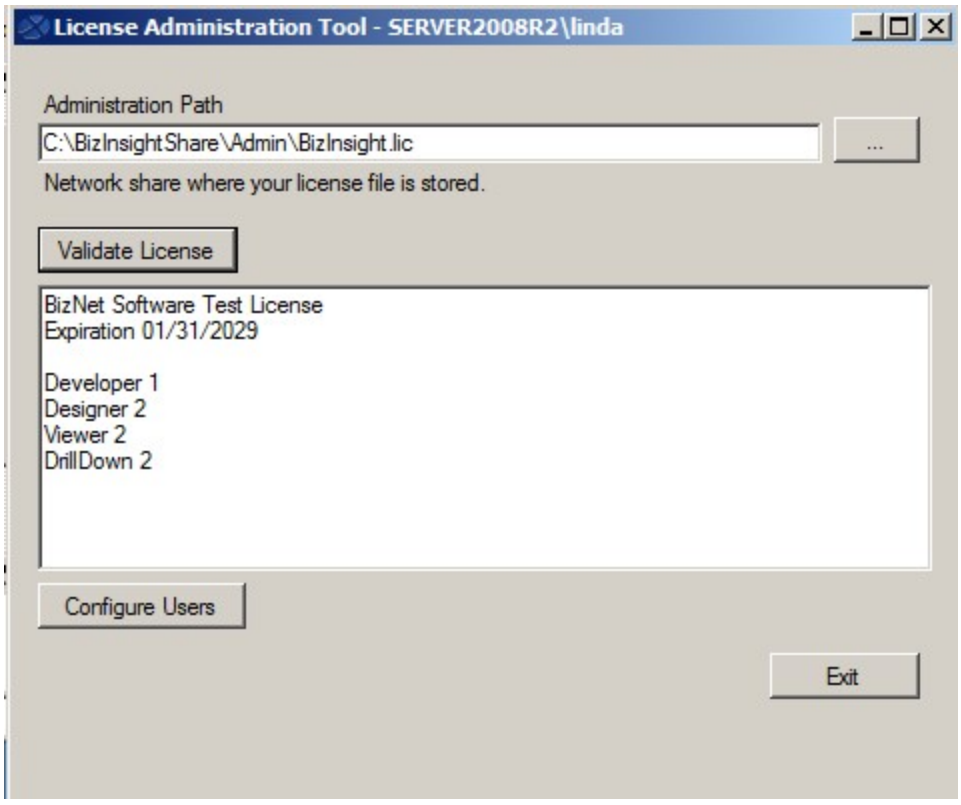


9. The **License Administration Tool** will open. Click on the browse button.

Browse to the directory that contains the BizInsight license file.

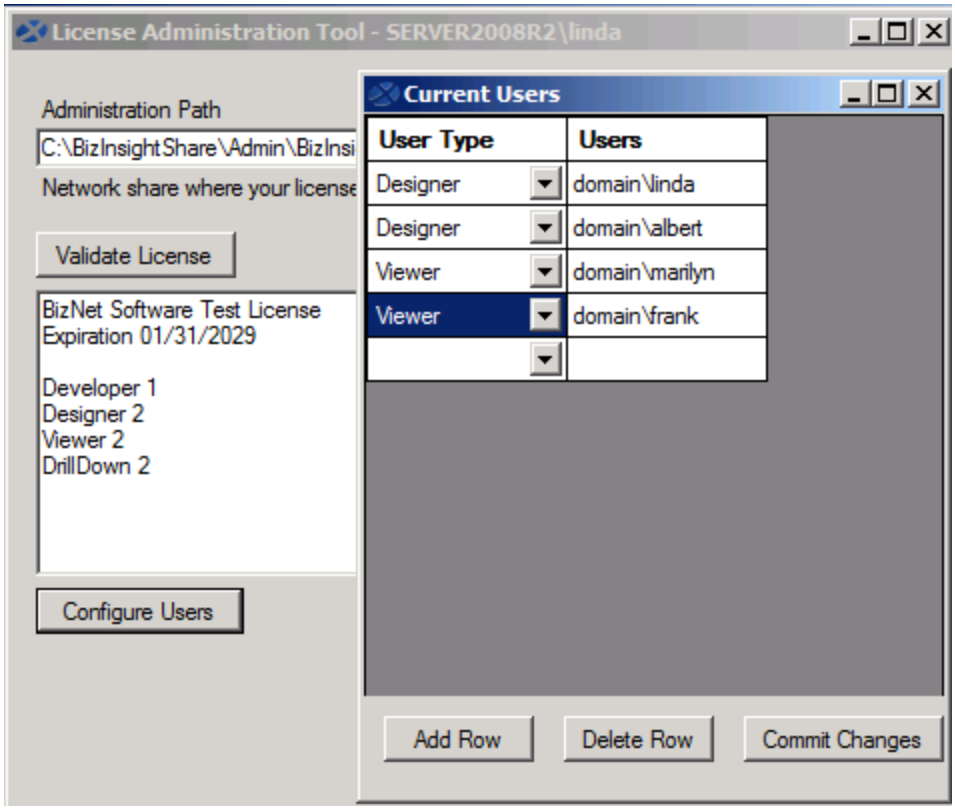


10. Click the **Validate License** button to review the license information. The number of licenses purchased will be displayed.

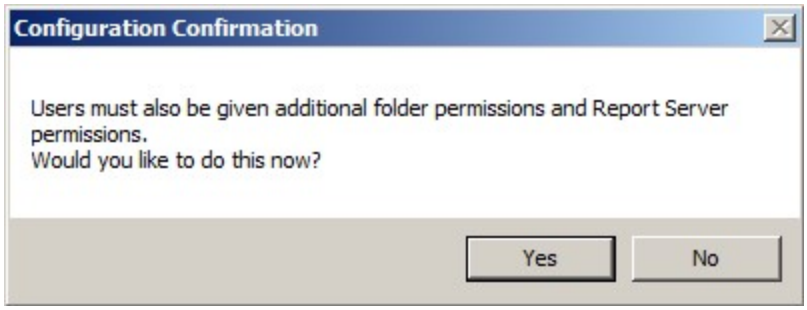


11. Click on the **Configure Users** button to add your BizInsight users and assign them to a BizInsight user type (Developer, Designer, Viewer or Drilldown). Click **Commit Changes** when finished.

WARNING Do **not** add your own login using the Admin Tool unless you know for sure that you have another login available with sysadmin rights to the SQL Server instance. Early versions of the content installer (pre version 1.6) will remove existing permissions for users, including those with sysadmin rights. If uncertain, skip this step and confirm sysadmin access will not be lost then return to complete the Admin Tool step.

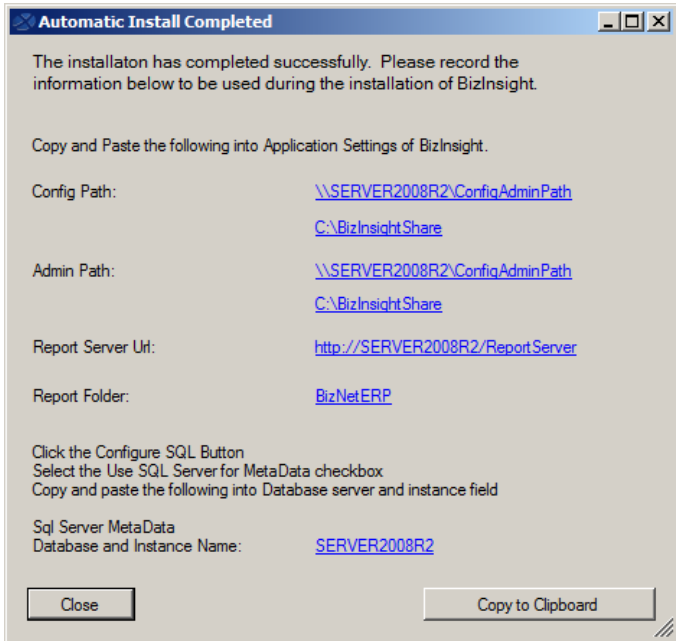


12. You will be prompted to assign the necessary folder permissions and Reporting Services security to the users. Click **Yes**.

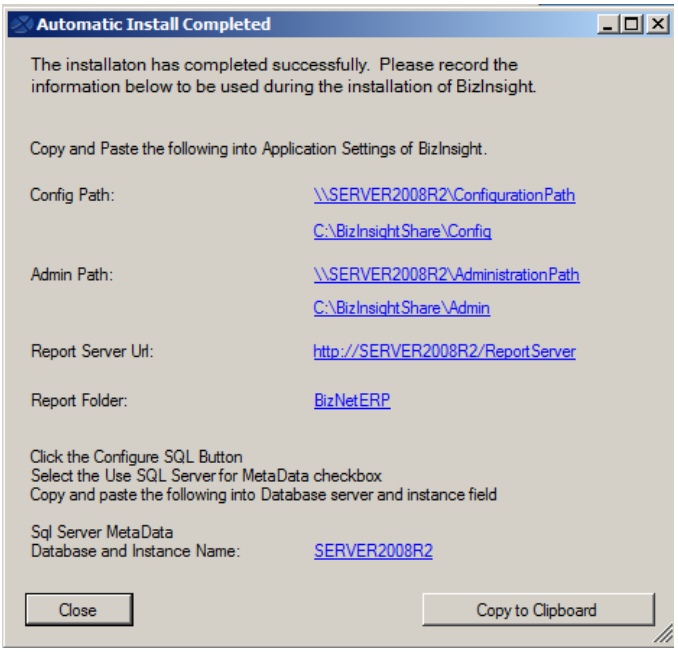


For more information about the permissions that are set, see "Permission Details" on page 178.

13. After automatic install is complete, relevant information about the installation is displayed. Click **Close**.



If you chose to use separate folders for the Admin and Config files, the dialog will look similar to the following:



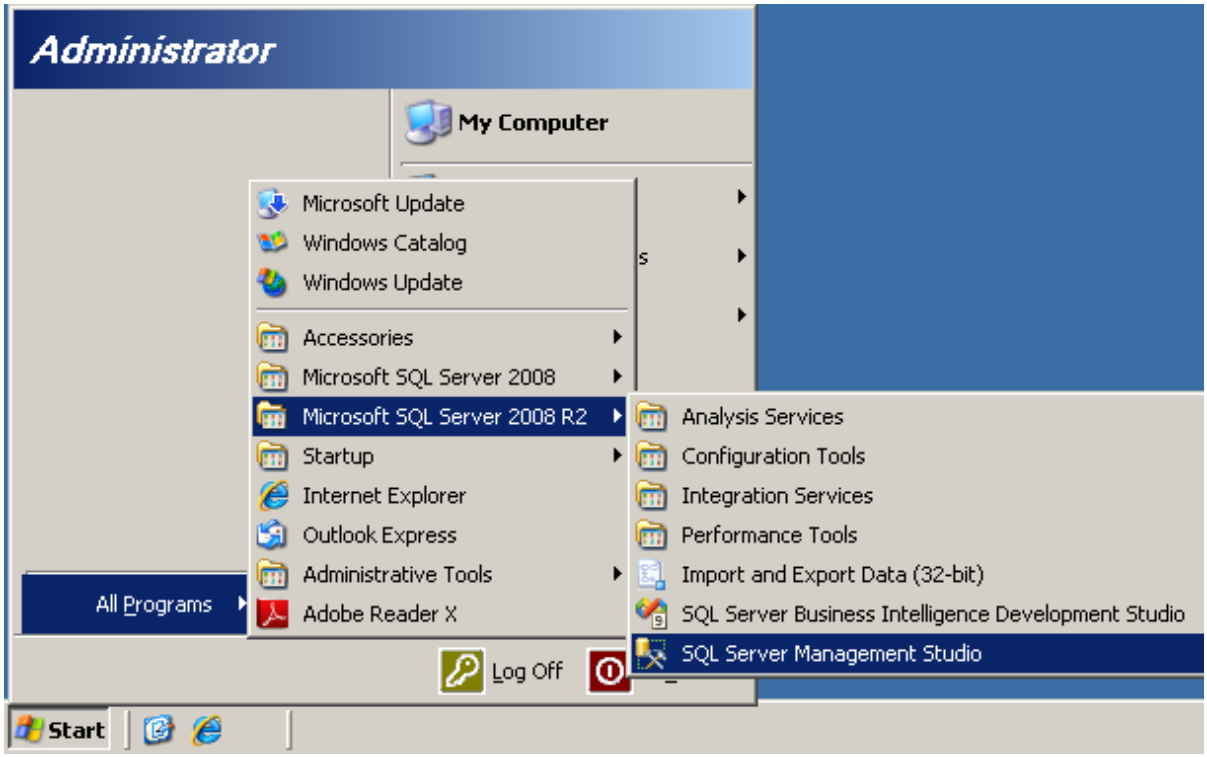
14. The content installer will indicate that all elements have been successfully installed. Click **Exit**.

Step 4: Assign rights in SQL Server Security

BizInsight users will need permissions to retrieve data from the accounting system database or if the content pack is designed to retrieve data using a SQL linked server, the users will need rights to the master database in SQL Server.

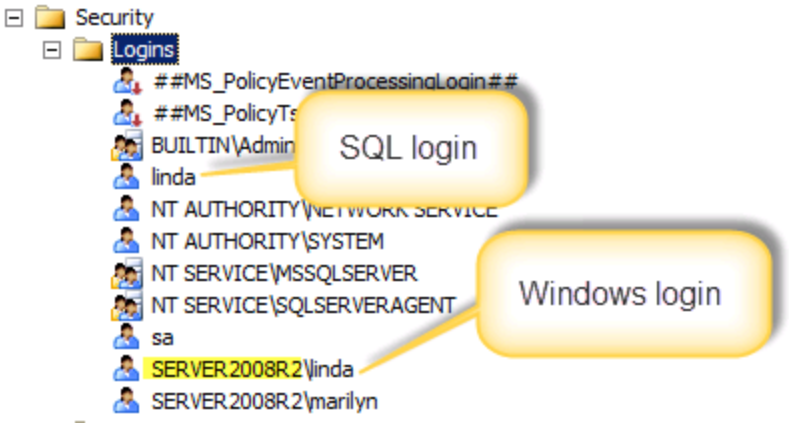
NOTE If you are managing SQL Server security with an Active Directory group, just add the new BizInsight user to that Active Directory group and go to the next step.

1. Click on **Start** >**Programs** > **Microsoft SQL Server *Version*** > **SQL Server Management Studio**.



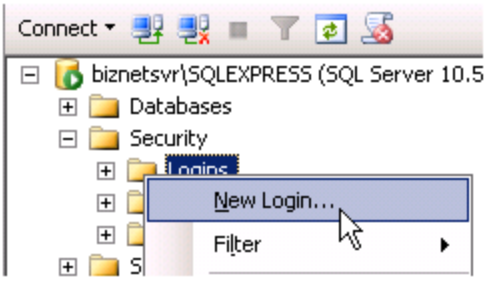
2. The **Connect to Server** dialog will open. Connect to the SQL Server instance that hosts your accounting system database. Sage 100 ProvideX customers, this will be the instance that contains the linked servers.

3. In the left pane, expand **Security.** Look for your existing users to determine whether they have been setup to use their Windows domain account or a SQL Server account. You can tell one from the other by the presence of the domain in front of the user name.

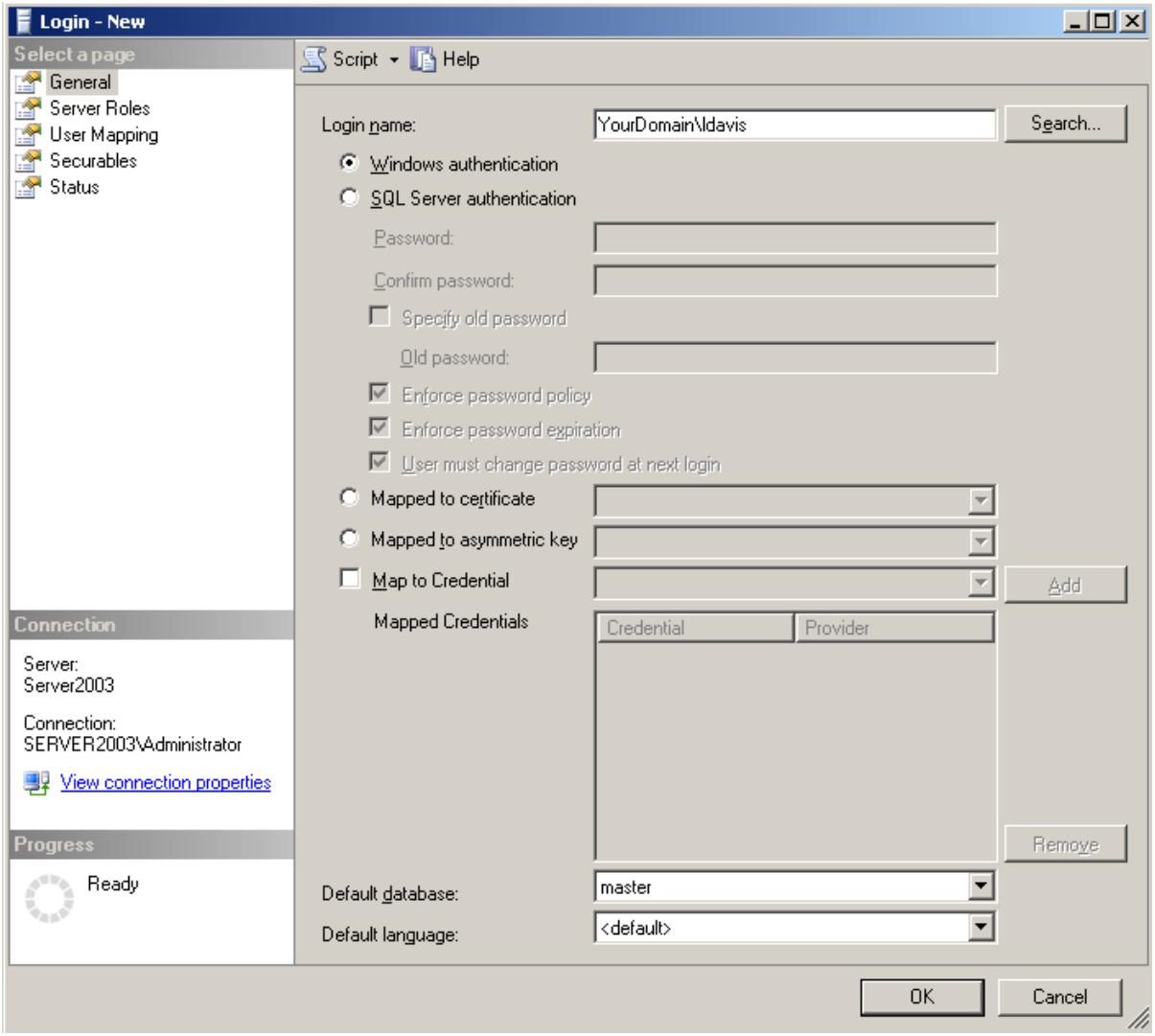


NOTE If the user's login already exists in SQL Server, right-click their login id and choose Properties. Then click here to jump to the User Mapping step.

4. Right-click on Logins and click **New Login**.

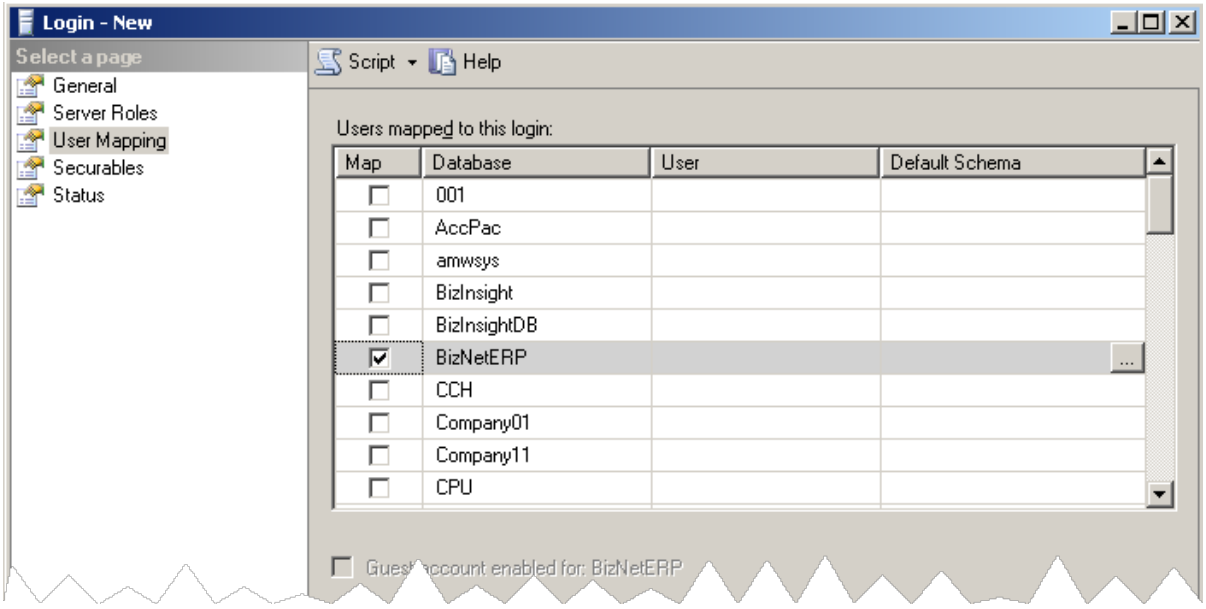


5. In the Login – New dialog box, enter the user's name in the **Login name** field. If your existing users were setup with their Windows logins, click on **Search** to browse for an existing Windows login id. If your existing users were setup with a SQL account, type the new user's login id and change the radio button to SQL Server authentication.

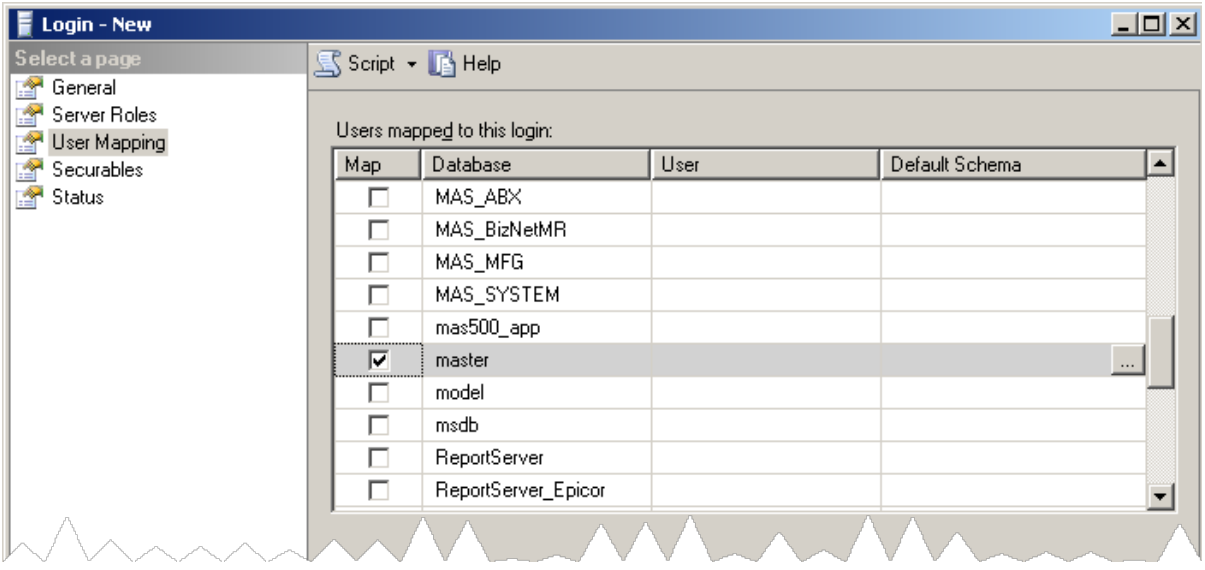


IMPORTANT SQL authentication will not work for Sage 100 ProvideX accounting systems. If you do not have an Active Directory domain, each user's login will need to be created as a local login on the Sage 100 ERP data server with the same login id and password that the user uses on their client workstation to mimic Windows authentication.

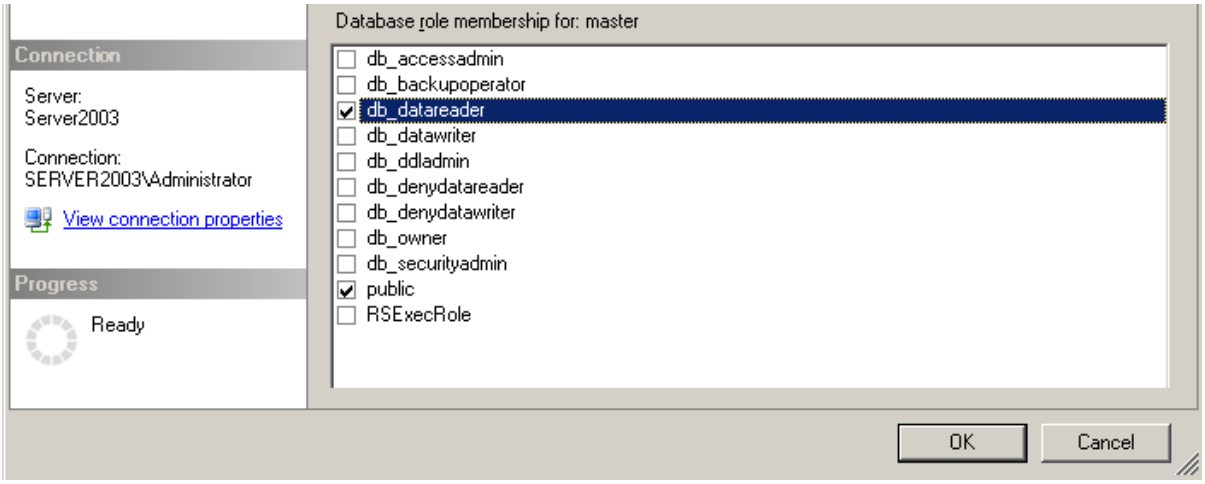
6. Click on **User Mapping** in the left pane. Check the **Map** checkbox next to the accounting system database.



If your content pack uses linked servers (Sage 100, QAD SE or EE, etc.), click the checkbox next to the master database.



7. Once the database is checked in the upper pane, check the **db_datareade**r role membership in the bottom pane. Click **OK**.



8. If the accounting system stores company data in separate databases, repeat the steps of checking the database and the db_datareader role for each company database.

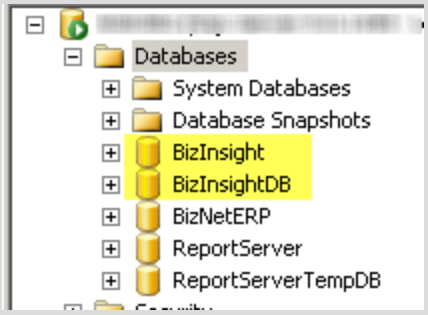
Step 5: Implement Column Based Security (Optional feature)

The Security Tool for BizInsight is an application that activates or deactivates column security and configures restriction for user access. When the column based security mode is activated, all content modules installed on the server are impacted. See " BizInsight Column Based Security Overview" on page 134 for more information about Column Based Security.

System Requirements

Verify that your environment meets the following system requirements for Column Security before proceeding:

- BizInsight 5.0.35.0 and later is installed on all client machines.
- Existing BizInsight and BizInsightDB databases created using a Content Installer and were created directly in SQL Server (not converted using the Access to SQL conversion tool).



- Reporting Services versions 2005*, 2008, 2008 R2, 2012 or 2014

IMPORTANT Reporting Services 2005 requires additional files to be installed. IT administrators must install the prerequisite files in a particular order. Following is a link to a Microsoft article with links to the necessary download files.

http://www.microsoft.com/en-us/download/details.aspx?id=16978

a. Install Microsoft® System CLR Types for SQL Server® 2008 R2

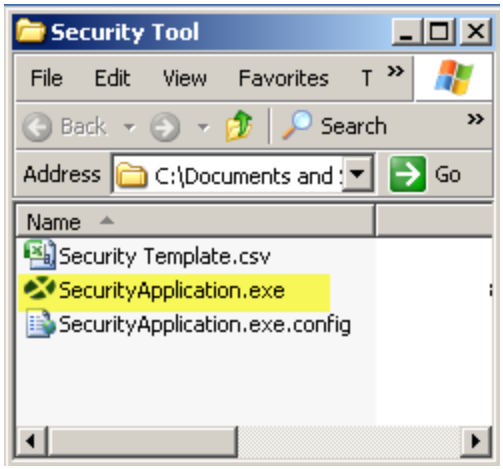
The SQL Server System CLR Types package contains the components implementing the geometry, geography, and hierarchy id types in SQL Server

2008 R2. This component can be installed separately from the server to allow client applications to use these types outside of the server.

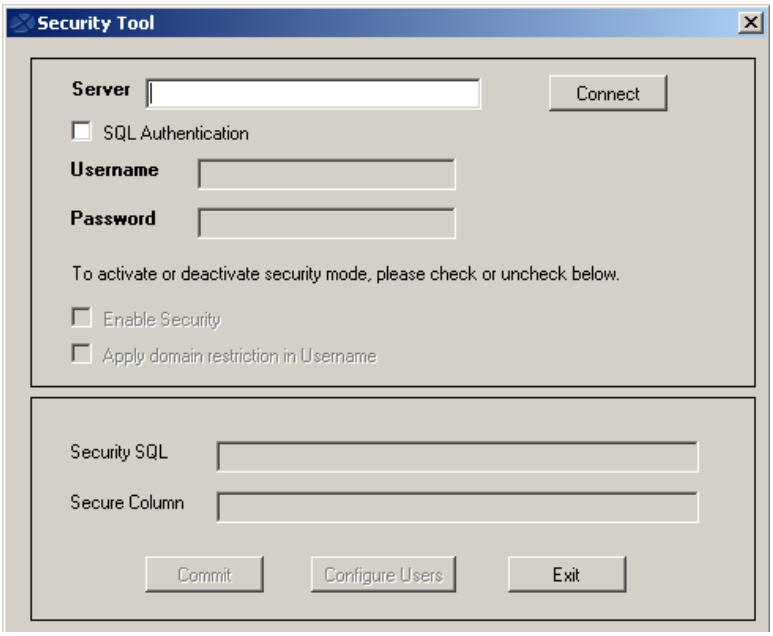
b. Install Microsoft® SQL Server® 2008 R2 Shared Management Objects

The SQL Server Management Objects (SMO) is a .NET Framework object model that enables software developers to create client-side applications to manage and administer SQL Server objects and services. This object model will work with SQL Server 2000, SQL Server 2005, SQL Server 2008 and SQL Server 2008 R2.

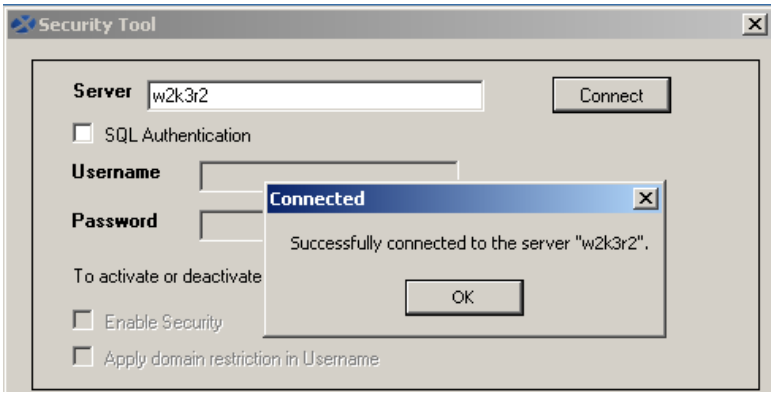
1. If you have not already downloaded the BizInsight Tools.zip., log into the BizNet Software portal (http://biznet.flexnetoperations.com) and download the file. You will find the tools with the BizInsight download file.
2. Extract the contents and open the Security Tool folder..
3. Double-click the **Security Application.exe** to launch the Security Tool.



4. The Security Tool dialog will open.

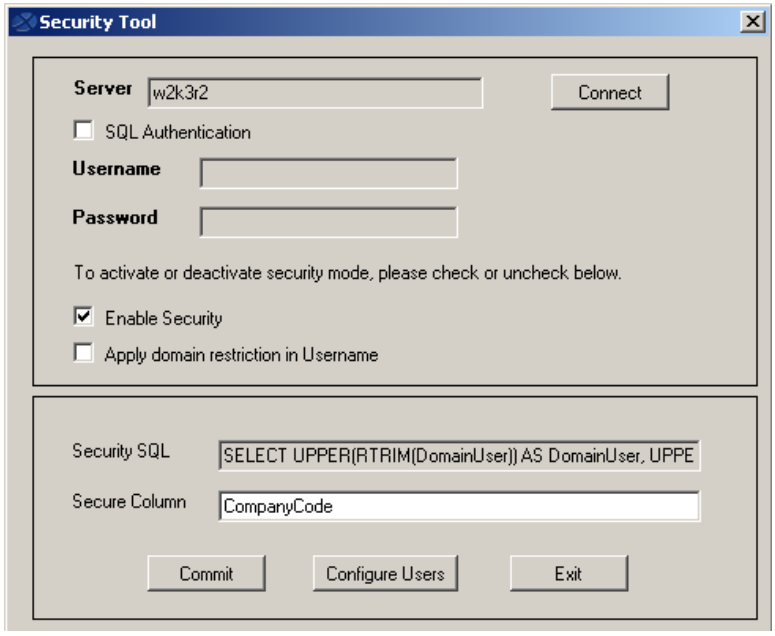


5. In the **Server** field, type in the Server name and, if applicable, the instance name for the SQL Server that hosts the SQL metadata databases (BizInsight and BizInsightDB). The connection will be made using Windows Authentication by default. Check the **SQL Authentication** checkbox to switch to SQL credentials and supply those credentials in the Username and Password fields. Click **Connect**.

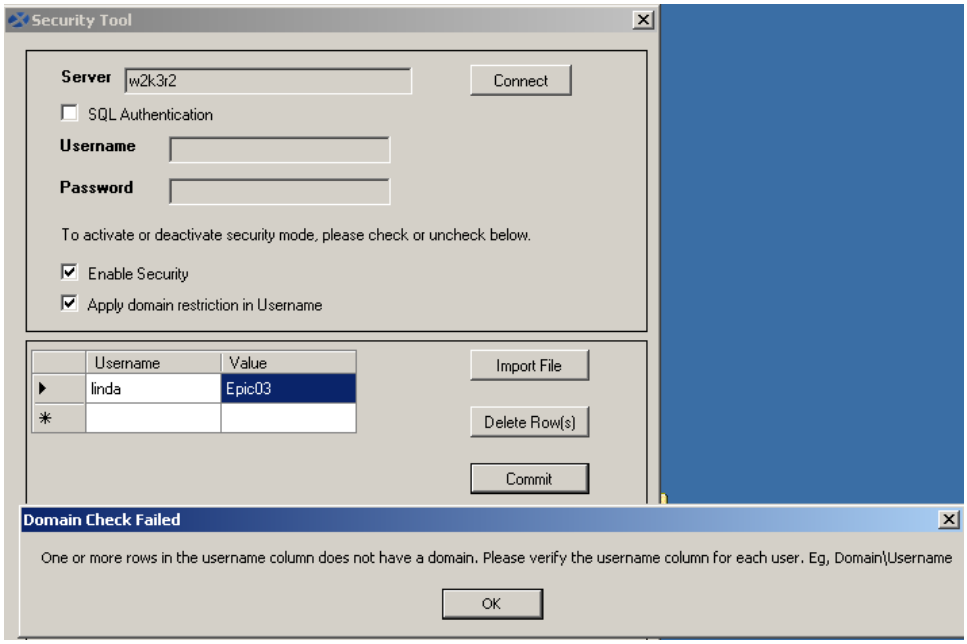


6. Click **OK** and the tool will create the tables needed for Column Security.

7. Click the **Enable Security** checkbox to turn on Column Security. This will enable the **Secure Column** field.

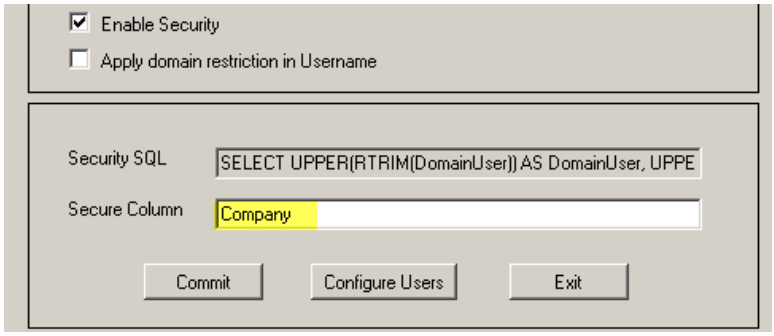


8. To enable security restrictions by domain\username, check the **Apply domain restriction in Username** checkbox. This will cause the security tool to evaluate the usernames entered and enforce a requirement that the user's domain be present before their record can be committed.

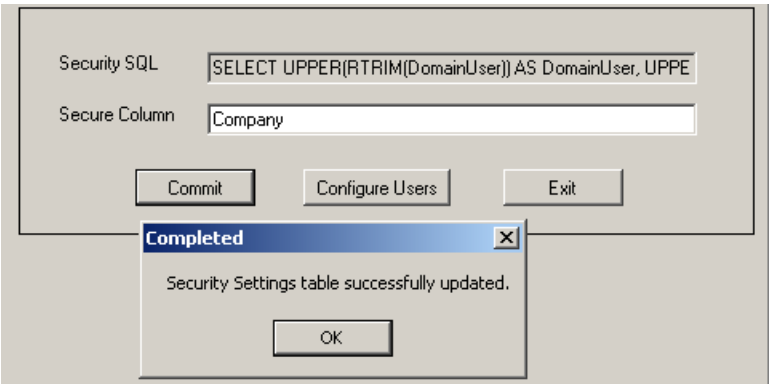


9. Disregard the **Security SQL** field. This field contains a generic query to read from the ColumnSecurity table. This field cannot be modified and is for display only.

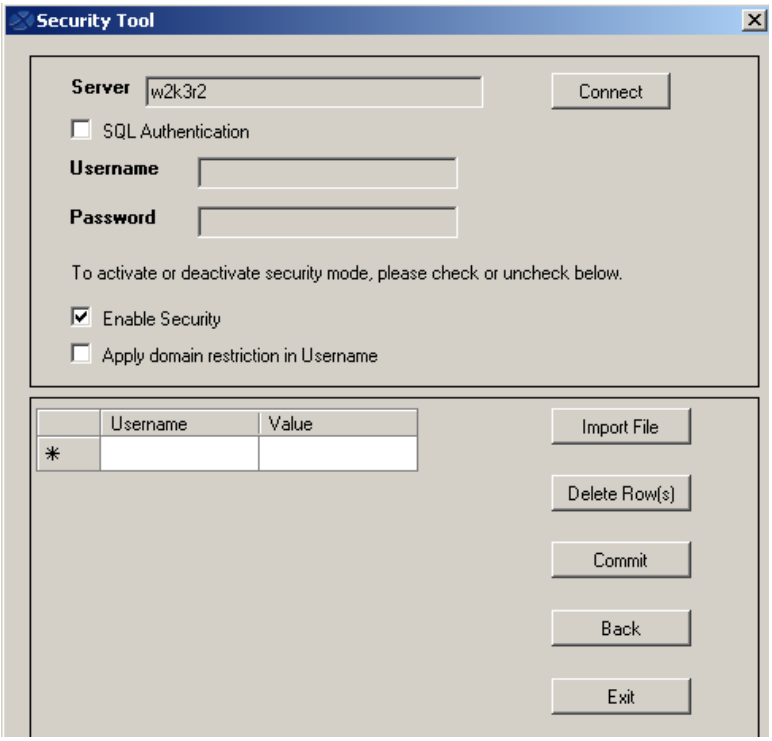
10. Type in the column name that will be used to restrict user access in the **Secure Column** field. The Secure Column field contains a default value of “CompanyCode”. Depending on the ERP system, the secure column value will be different. In most circumstances, securing the company column is the ideal method to restrict users from accessing confidential information. This column name must exist in all RDLs across all content packs to be able to be used for column restriction.



11. Click **Commit** to write the Secure Column value to the database.

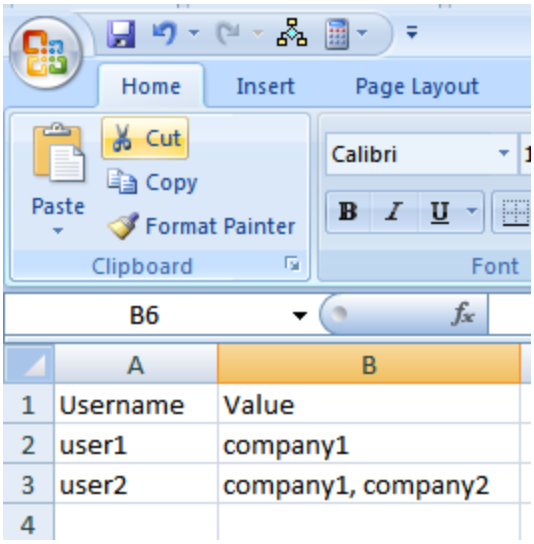


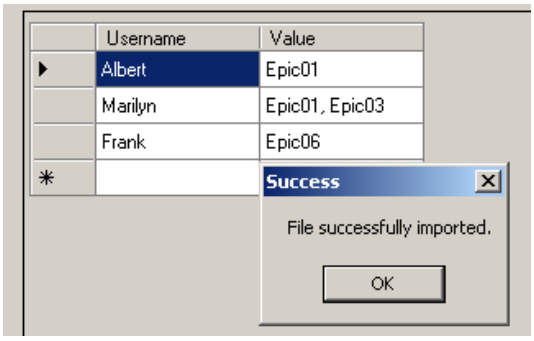
12. Click **OK** and the Security Tool dialog will update to display a section to add user restriction values. Security is based on an "Exclusion Method". The IT administrator must provide a restricted value to prevent user access. **Users not listed in this dialog will have access to all data**.

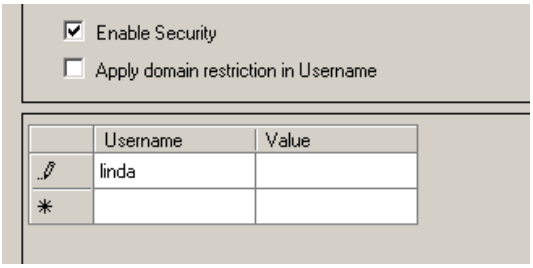


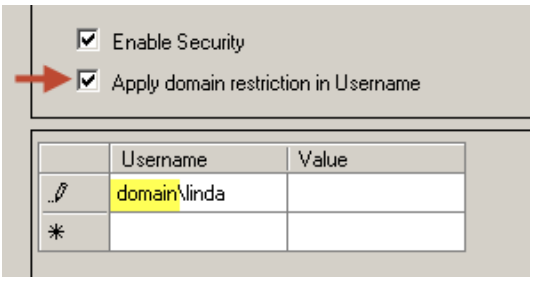
13. Use the **Import File** button to import a CSV file of usernames and Values or manually type in the values to which the user should be denied access in the Values field.

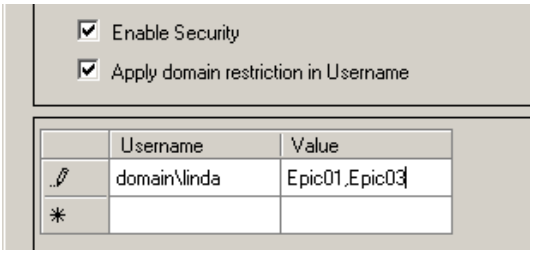
Import CSV	Manual Entry
An example CSV file is located in the same folder as the Security Tool executable.	Type in the user's Windows login id in the Username field.
	If the **Apply domain restriction in Username** checkbox is checked be sure to provide the domain name for the Username field.
	Type in the Values to which the user will be denied access. Separate multiple values with commas.



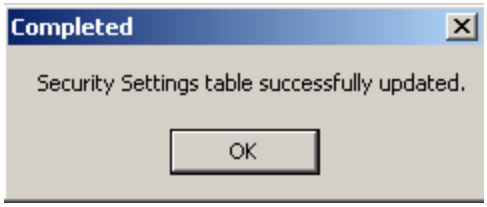


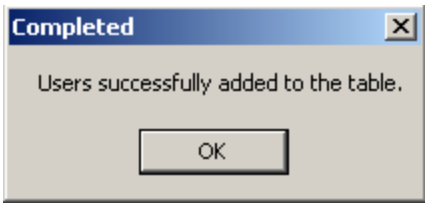


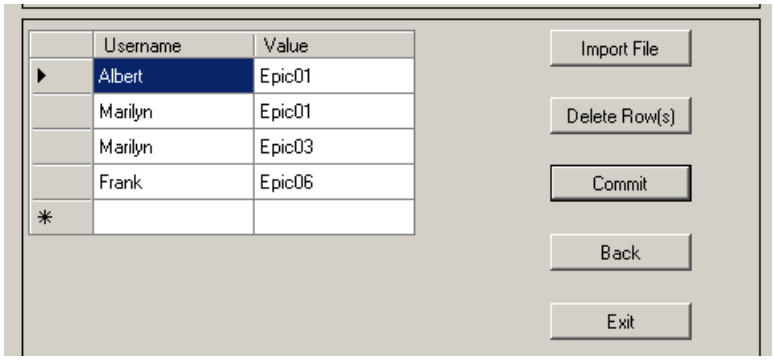




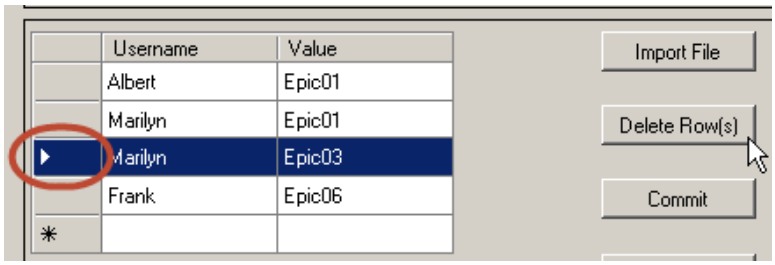
14. When all usernames and values have been entered, click the **Commit** button. The application will commit the changes to the ColumnSecurity table. Click **OK** to the next two messages and the Dialog will update and display rows for each username/value combination.







15. Use the **Delete Row(s)** button to remove any entries that are not wanted. Be sure to highlight the entire row to be deleted.



16. Click **Exit** to close the tool.

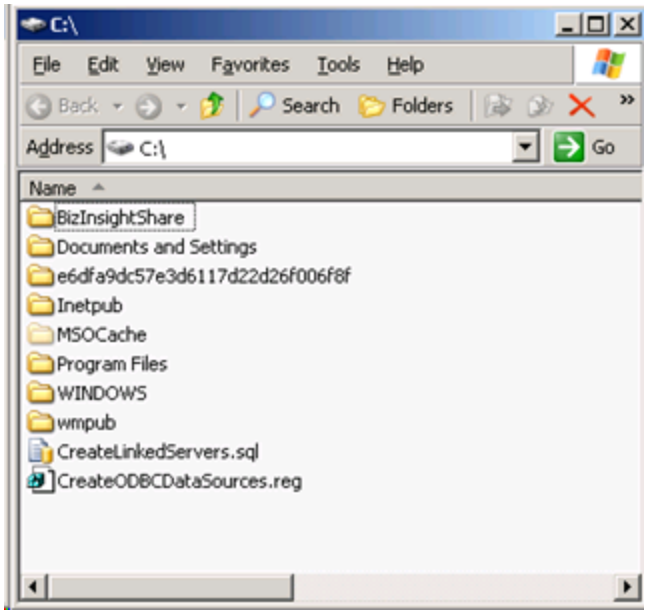
17. Remove the two biz files (BizInsight.biz and BizInsightDB.biz) from the Configuration Path directory. If you are not sure where the Configuration Path is located, go to any BizInsight workstation. Start Excel and click on the **Application Settings** button on the BizInsight ribbon.

For security to be fully implemented, each BizInsight workstation must be configured to use SQL databases. This is covered in the section titled "Configure BizInsight" later in this guide.

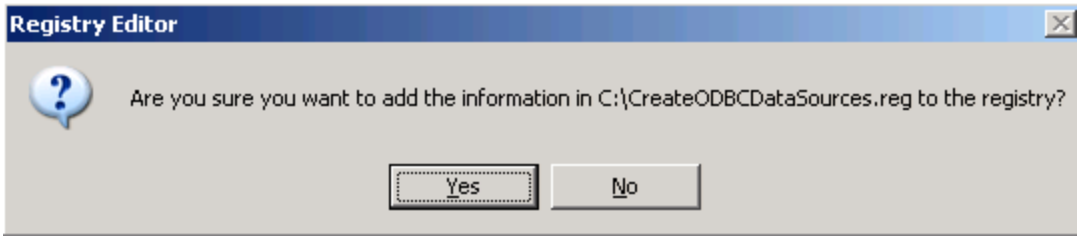
Step 6: Add Registry Entries and Linked Servers

Skip this step if you used the Content Installer to automatically create the ODBC data sources and Linked Servers.

1. Browse to the directory to which the files were saved. If you did not close the Windows Explorer window that opened during the Content Installer process, it should still be open.

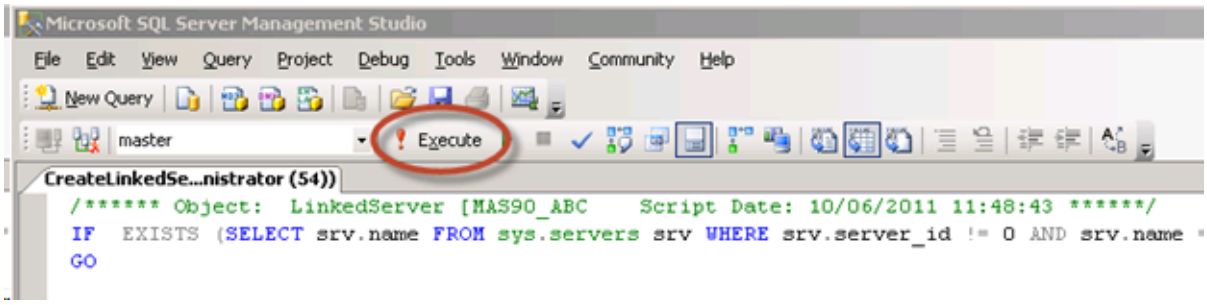


2. Double-click the file named **CreateODBCDataSources.reg**.
3. Click Yes to confirm the addition of the information to the registry.

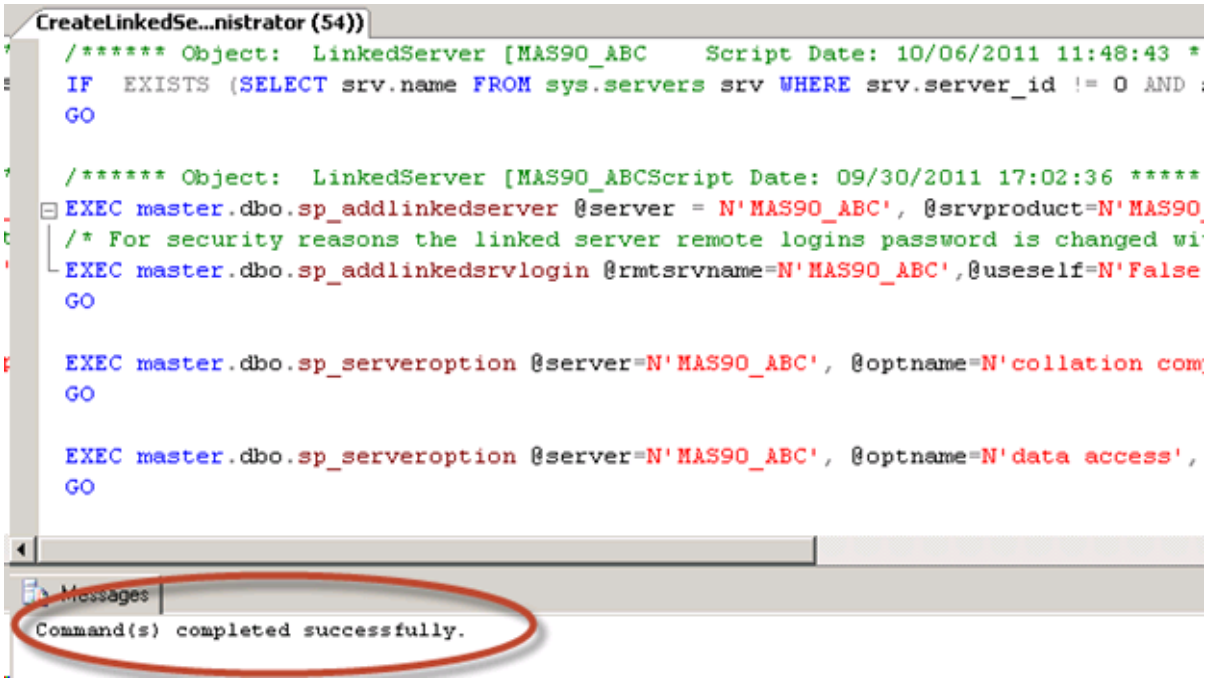


4. Click **OK** at the Success message.

5. Double-click the file named **CreateLinkedServers.sql**. This file should automatically open in SQL Management Studio.
6. Click the **Execute** button.



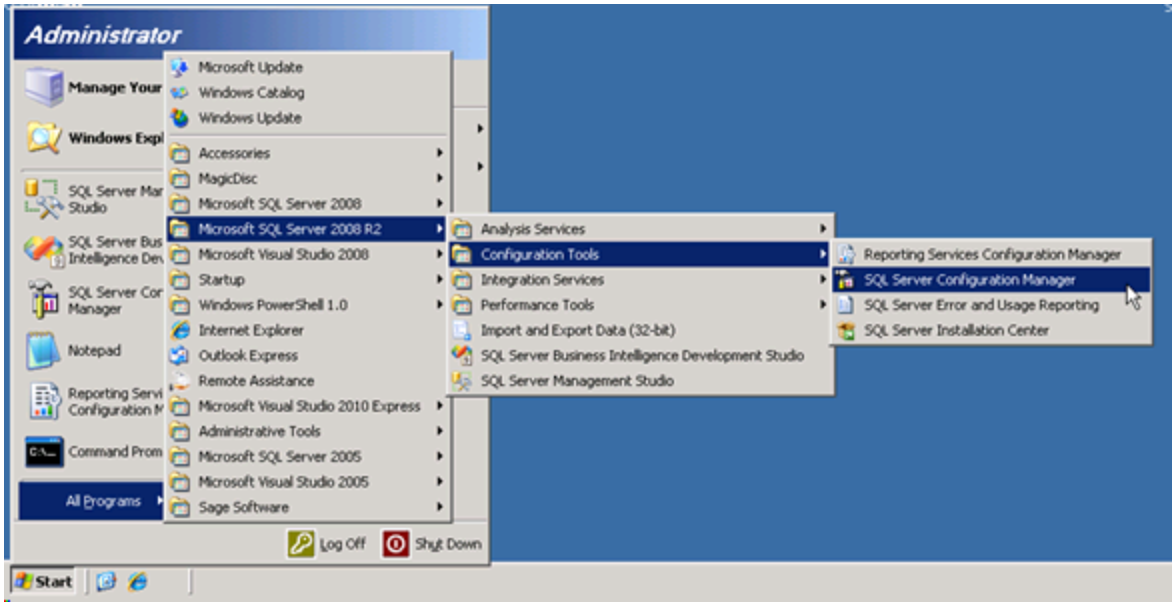
7. The **Messages** window should open indicating that the script ran successfully.



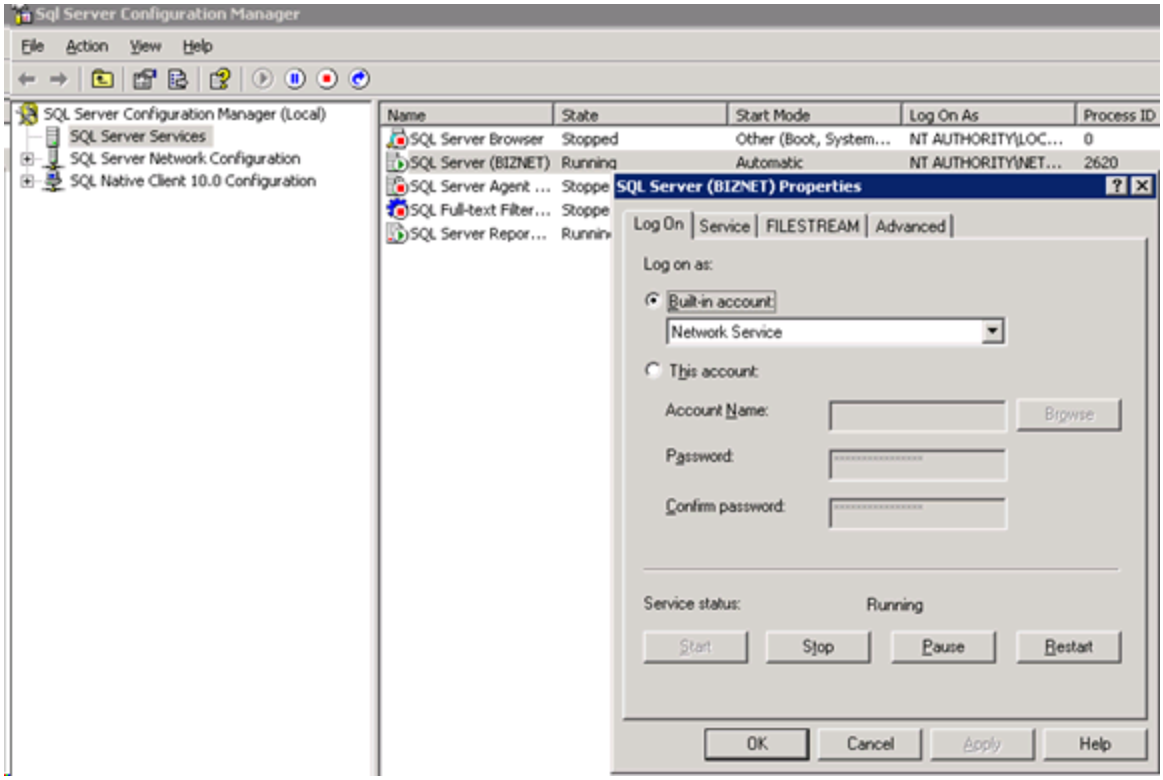
Step 7: Grant Rights to Service Account's Temp Directory

Some BizContent RDLs require access to the temp directory of the SQL Server service account to perform advanced manipulation of the data retrieved from Sage 100. When these RDLs are executed by BizInsight users, SQL Server will impersonate the BizInsight user's Windows id when trying to access the temp directory. To avoid permissions issues, the BizInsight user accounts should be granted write access to the SQL Server service account's temp directory.

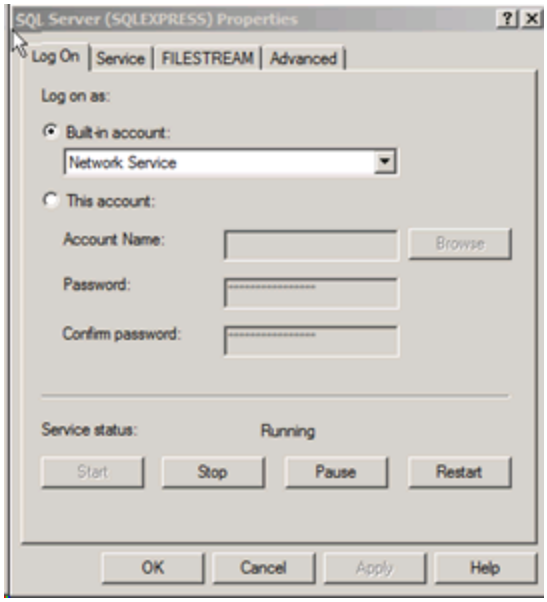
1. Click on **Start** > **All Programs** > **Microsoft SQL Server *version*** > **Configuration Tools** > **SQL Server Configuration Manager.**



2. Double-click the SQL Server service, usually SQL Server (BizNet), to open the Properties dialog.



3. On the Log On tab, note the name of the account being used for the service.



4. Browse to the temp directory for the service account and add the BizInsight users to this directory giving them Modify permissions.

   IMPORTANT Be sure to change the permissions only for the folder named “temp” and not higher level folders.

   NOTE It may be necessary to change Windows Explorer’s Folder Options to Show hidden files and folders as the temp directory is usually located in the account’s profile directory.

   Windows Server 2003:
   Temp directories are located in C:\Documents and Settings\profile name\Local Settings.
   How to show hidden files and folders:
   http://www.microsoft.com/resources/documentation/windows/xp/all/proddocs/en-us/win_fcab_show_file_extensions.mspx?mfr=true

   Windows Server 2008 and higher:
   User temp directories are usually located in C:\Users\profile name\App Data\Local.
   Built-in service account temp directories are located in located in C:\Windows\ServiceProfiles.
   How to show hidden files and folders: http://windows.microsoft.com/en-US/windows7/Show-hidden-files

Step 8: CheckTCP/IP, SQL Browser and Firewall Exceptions

The XMLFast feature added in an earlier BizInsight build requires the following server configuration changes:

- The TCP/IP protocol must be enabled for SQL Server and the SQL Browser Service must be running. see "Enable TCP/IP" below.
- Server firewall exceptions must be added for TCP Port 1433, UDP Port 1434 and a program exception for sqlservr.exe. see "Add Windows Firewall Exceptions" on page 61

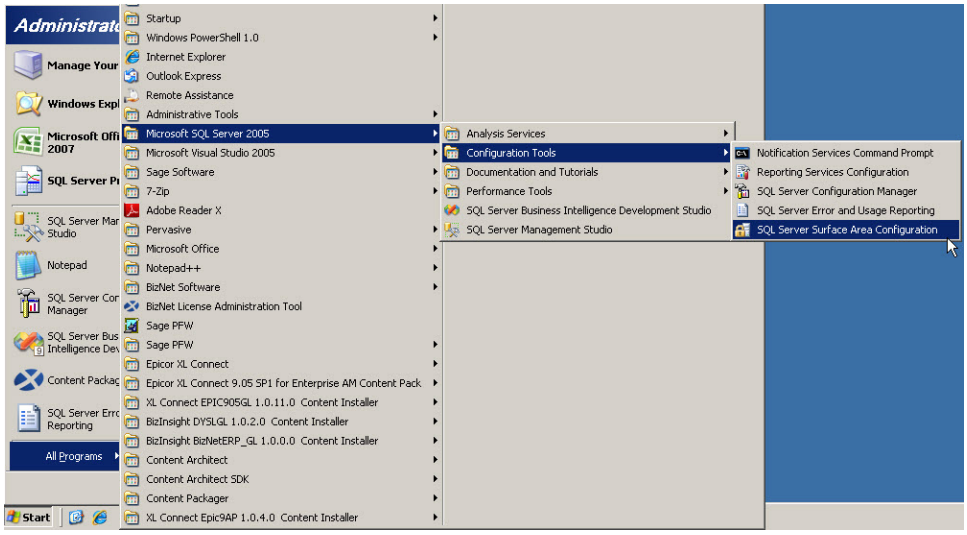
Customers are strongly encouraged to make these changes in order for the XMLFast feature to work. While the XMLFast feature can be turned off on the client workstation in Application Settings, doing so will result in significantly slower data retrieval times.

Enable TCP/IP

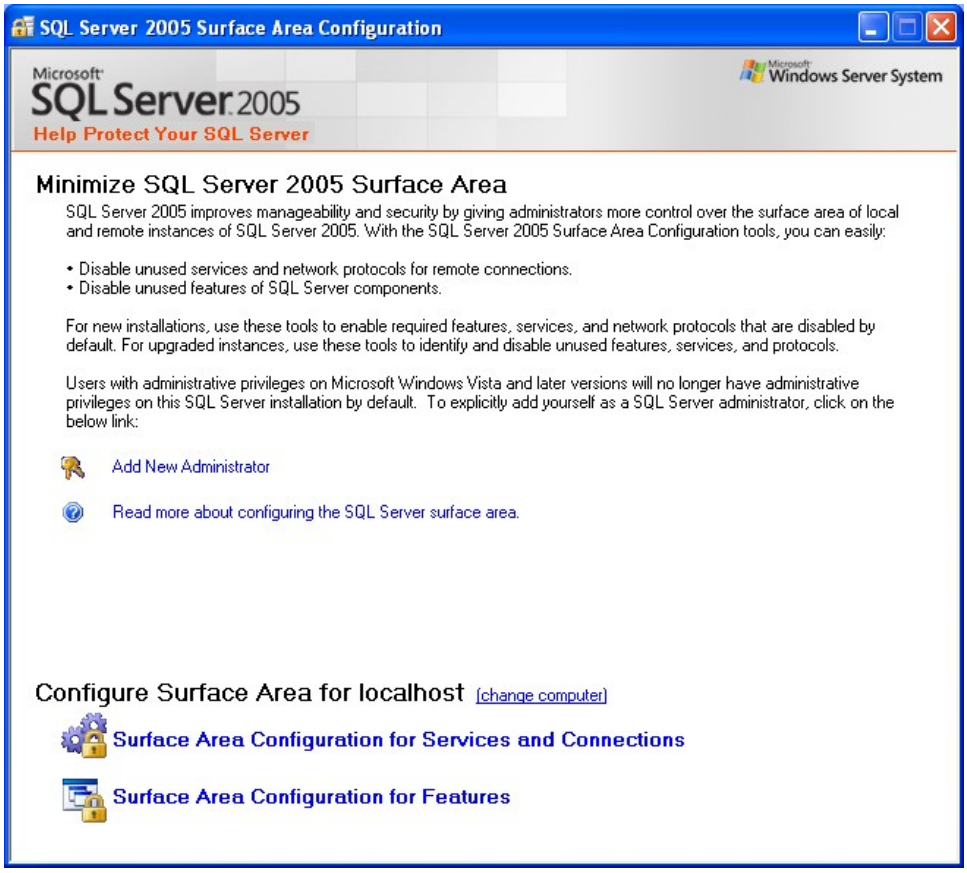
To enable TCP/IP, the steps vary depending on your SQL Server version. The steps for SQL Server 2005 are as follows. For SQL Server 2008 or higher, see "SQL Server 2008" on page 56.

SQL Server 2005

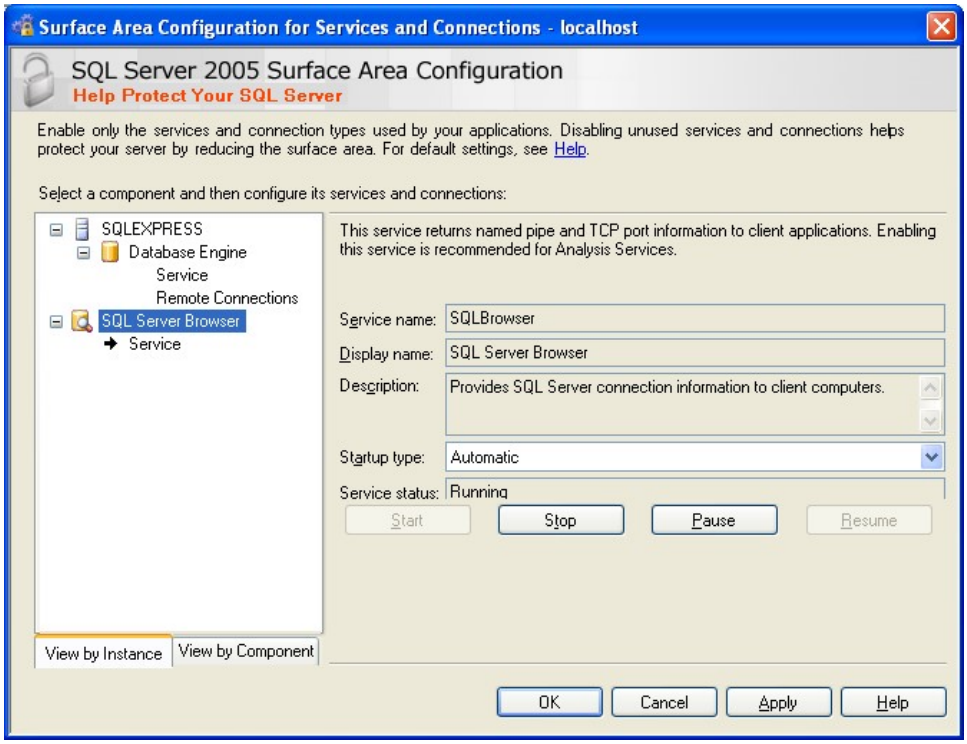
1. Click on **Start** > **All Programs** > **Microsoft SQL Server 2005** > **Configuration Tools** > **SQL Server Surface Area Configuration**.



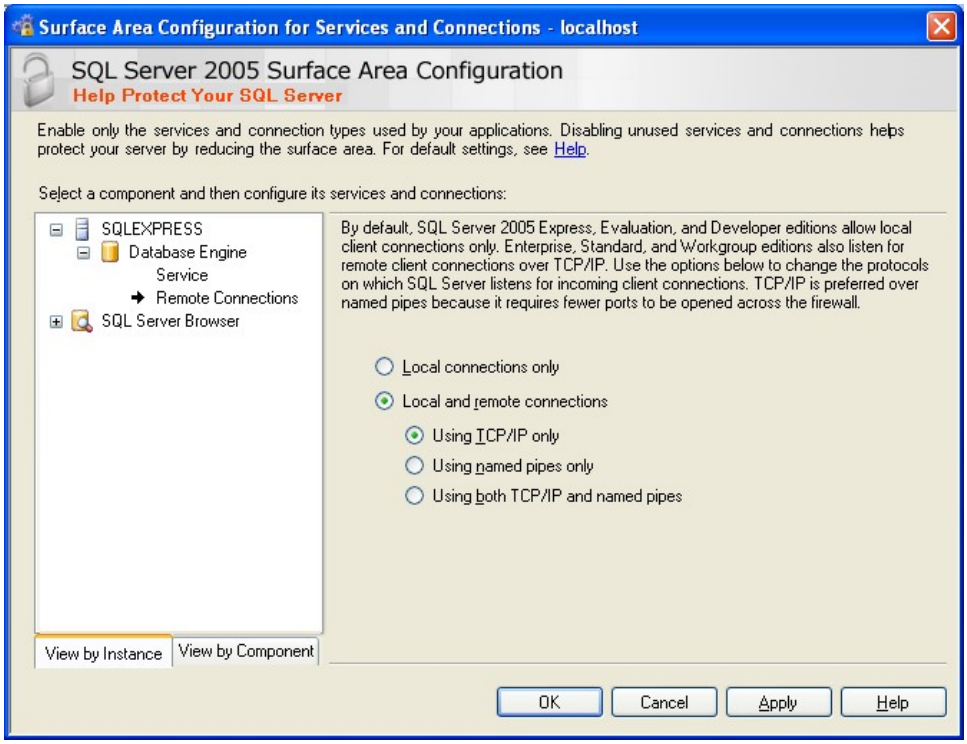
2. Click on **Surface Area Configuration for Services and Connections**.



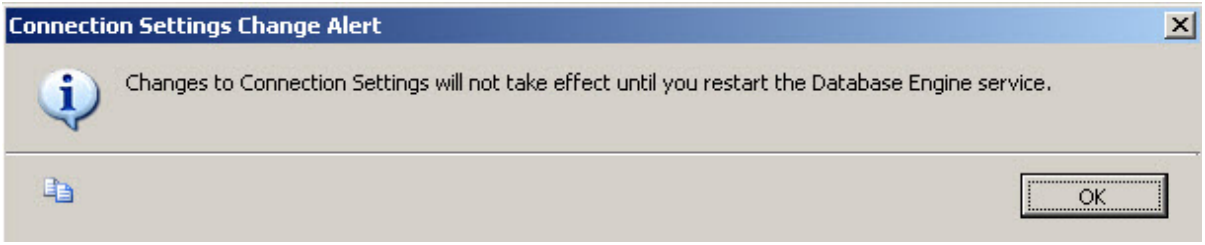
3. In the left pane, click on **SQL Server Browser**. When the right pane has refreshed with the options for the SQL Server Browser, make sure that **Startup Type** is set to "Automatic" and click on **Start** if the service is not started.



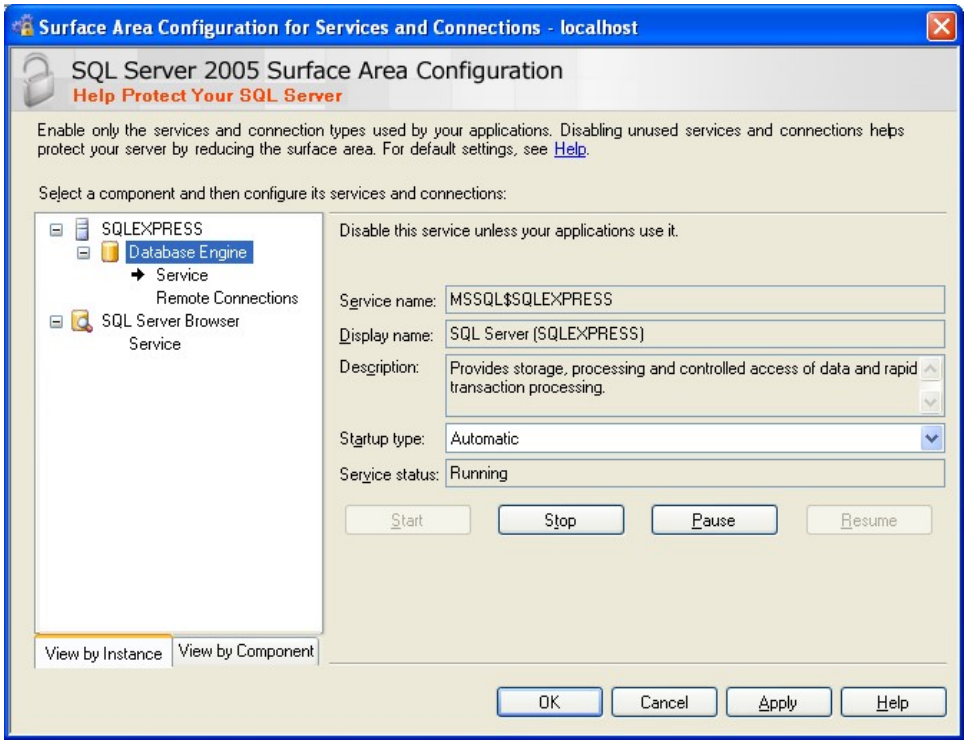
4. Under Database Engine, click on **Remote Connections**. Select the **Local and Remote Connections** radio button to enable remote users to access this SQL Server instance. Click **Apply**.



5. An alert dialog will be displayed indicating that the changes will not take effect until the Database Engine service is stopped and restarted. Click **OK**.

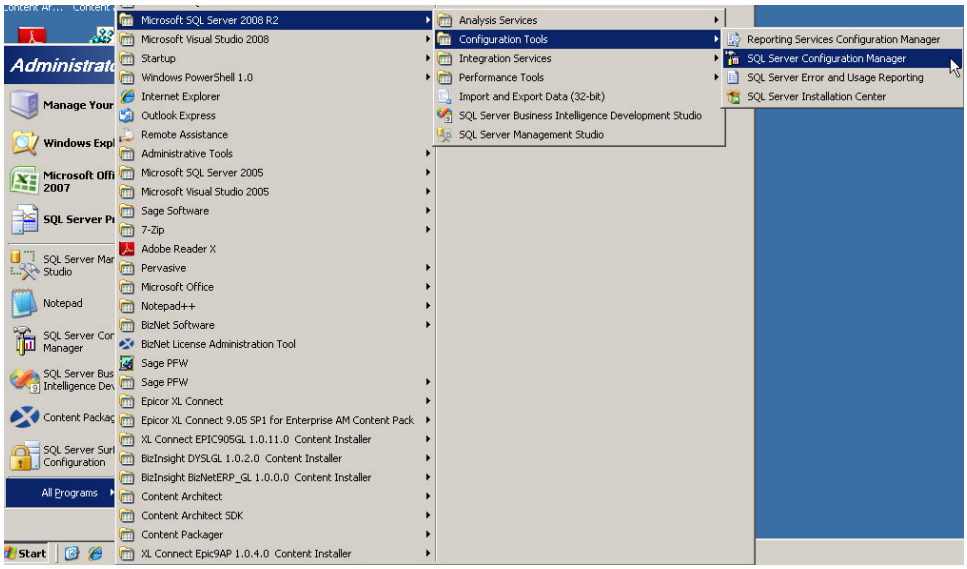


6. In the left pane, expand **Database Engine** and click on **Service**. In the right pane, click on **Stop** and then click on **Start** when that button becomes enabled. Once the service is restarted, click **OK** to exit the Surface Area Configuration tool.

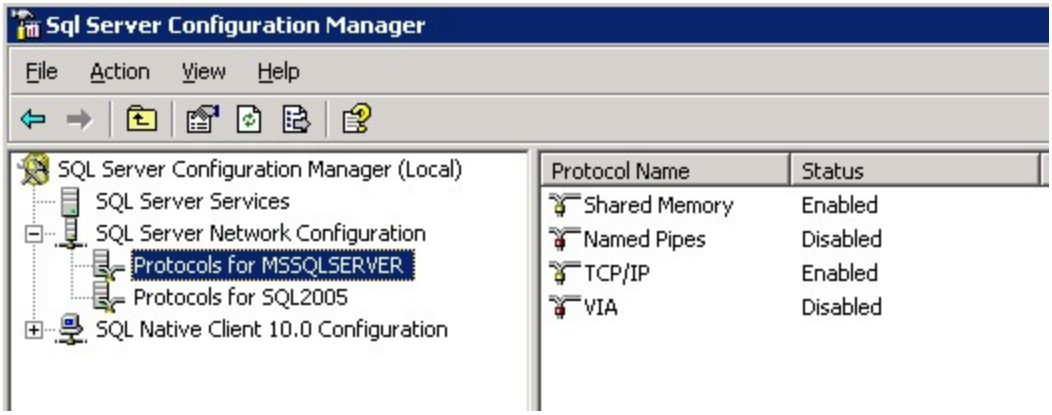

Surface Area Configuration for Services and Connections - localhost
SQL Server 2005 Surface Area Configuration
Help Protect Your SQL Server
Enable only the services and connection types used by your applications. Disabling unused services and connections helps protect your server by reducing the surface area. For default settings, see Help.
Select a component and then configure its services and connections:
SQLEXPRESS
Database Engine
Service
Remote Connections
SQL Server Browser
Service
Disable this service unless your applications use it.
Service name: MSSQL$SQLEXPRESS
Display name: SQL Server (SQLEXPRESS)
Description: Provides storage, processing and controlled access of data and rapid transaction processing.
Startup type: Automatic
Service status: Running
Start
Stop
Pause
Resume
View by Instance
View by Component
OK
Cancel
Apply
Help

SQL Server 2008

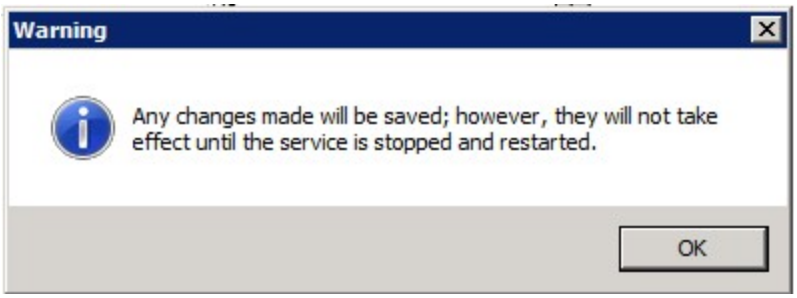
1. Click on **Start** > **All Programs** > **Microsoft SQL Server 2008 (2008 R2)** > **Configuration Tools > SQL Server Configuration Manager**.



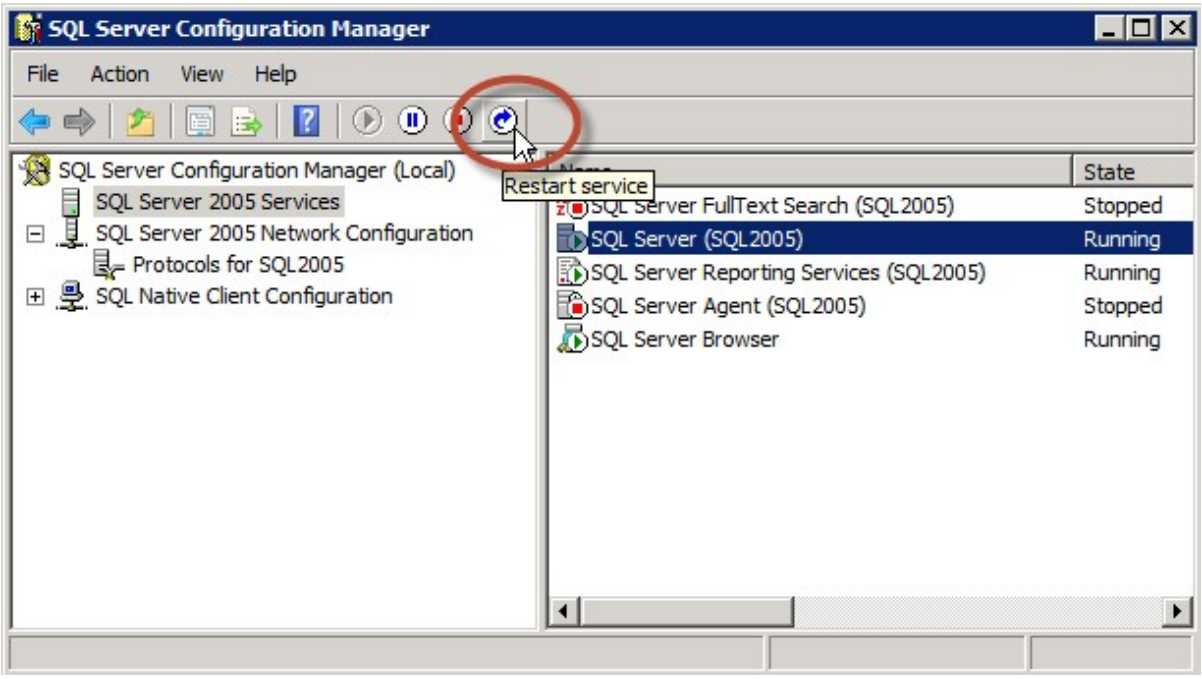
2. Expand **SQL Server Network Configuration** and select the **Protocols for *InstanceName*** that corresponds to the SQL Server instance that hosts the accounting system database.



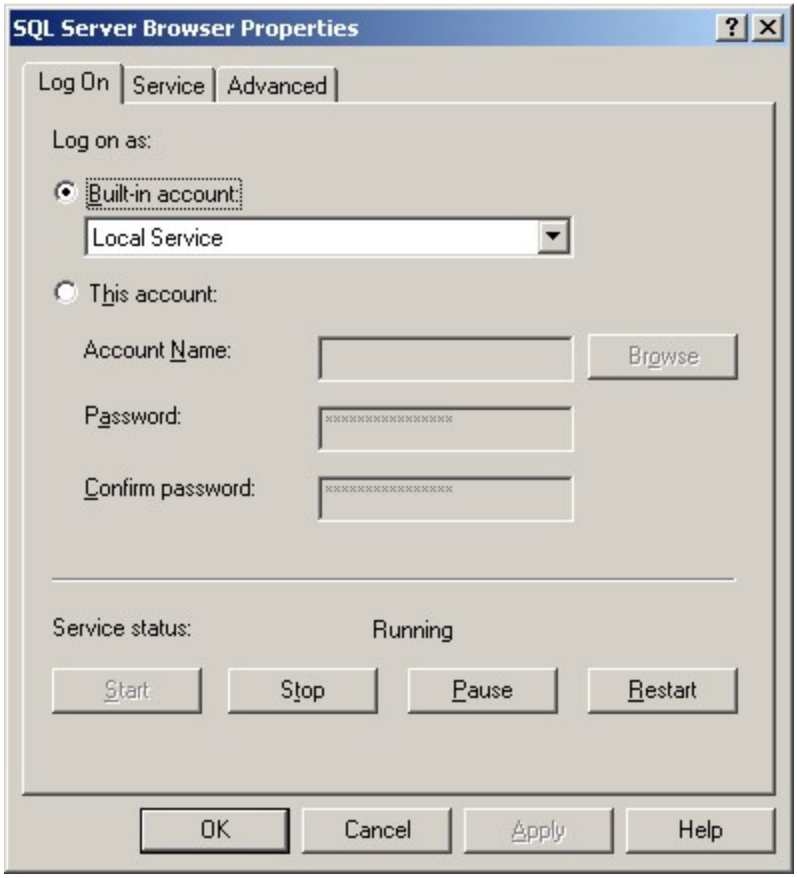
3. Verify that the **TCP/IP** Protocol is "Enabled". If it is not enabled, double-click on the protocol and change its properties to enabled. You will receive a warning that the service will need to be stopped and restarted:



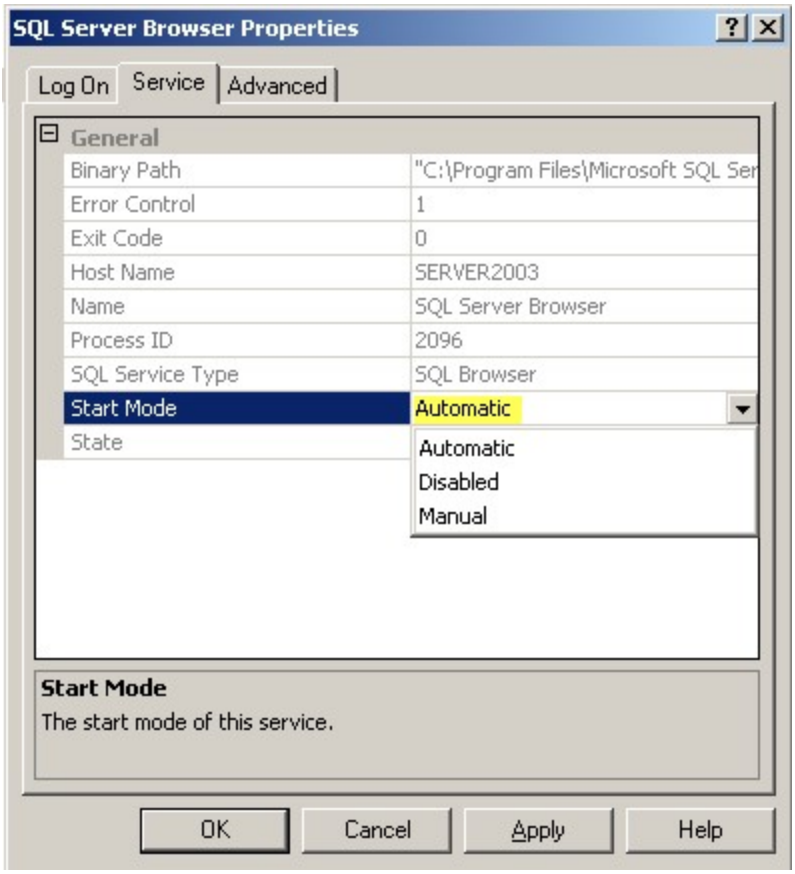
4. Go to the **SQL Server Services** section. Select the SQL Server service and click on the restart the service button.



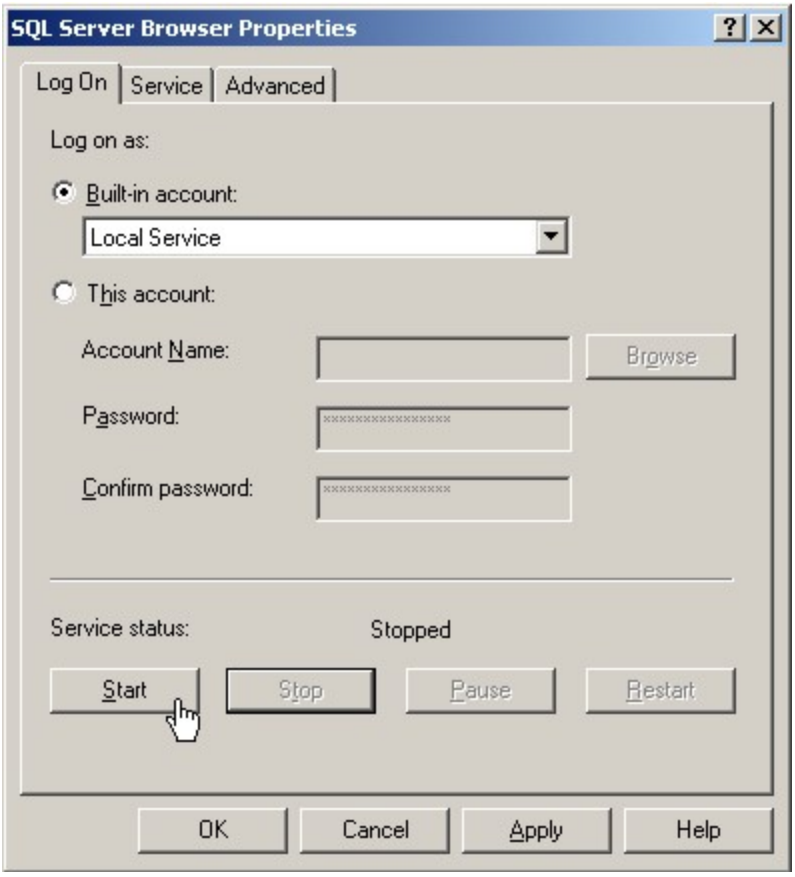
5. In the SQL Server Services section, verify that the SQL Server Browser service is started. If it is not, double-click on the service to open the service properties.



6. Click on the **Service** tab and make sure the **Start Mode** is set to "Automatic".



7. On the **Log On** tab, click on the **Start** button to start the service

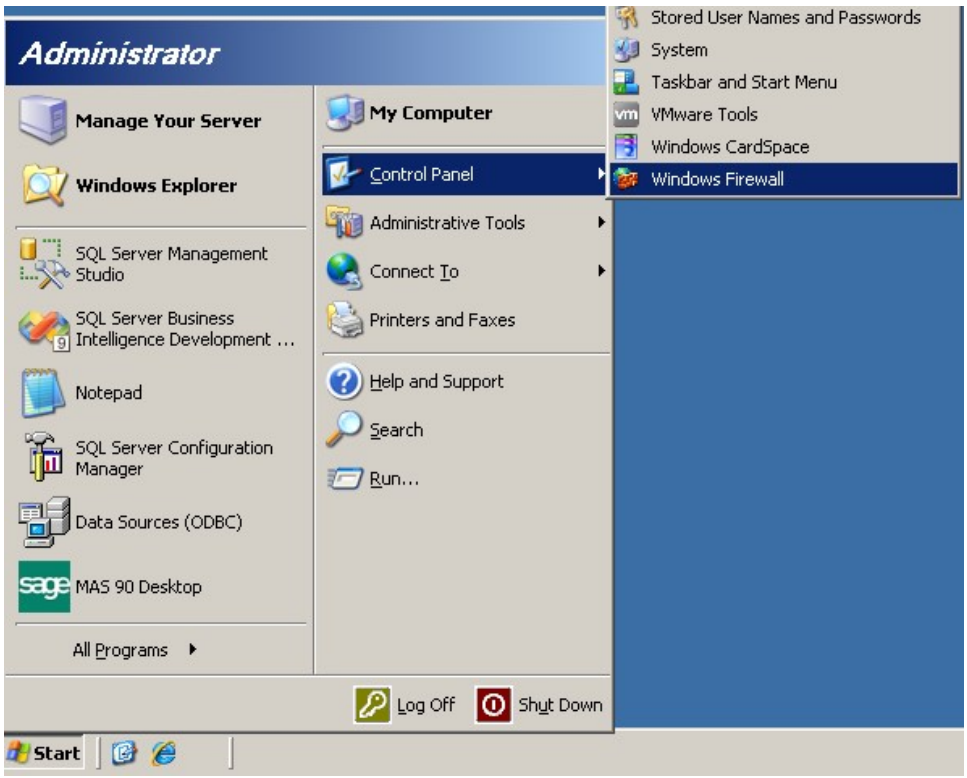


Add Windows Firewall Exceptions

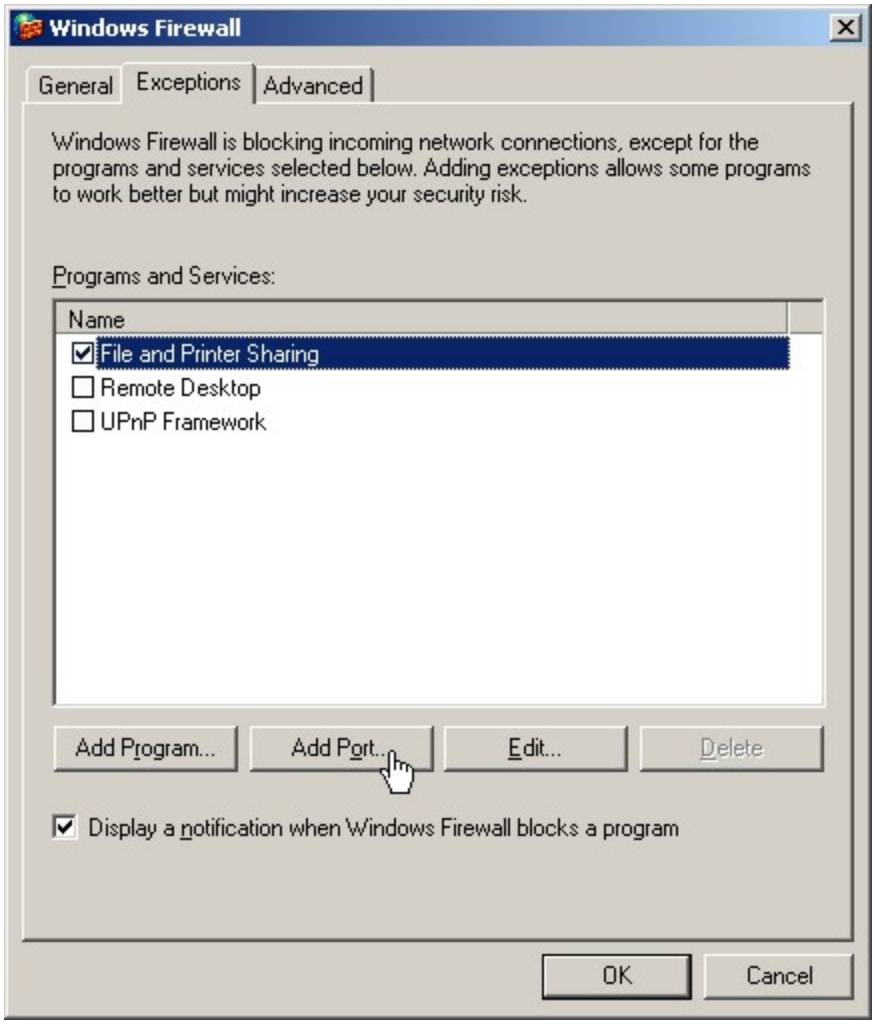
This step may not need to be performed if the Windows Firewall is turned off on the server.

Server 2003 (click **here** to go to the Server 2008 instructions**)**

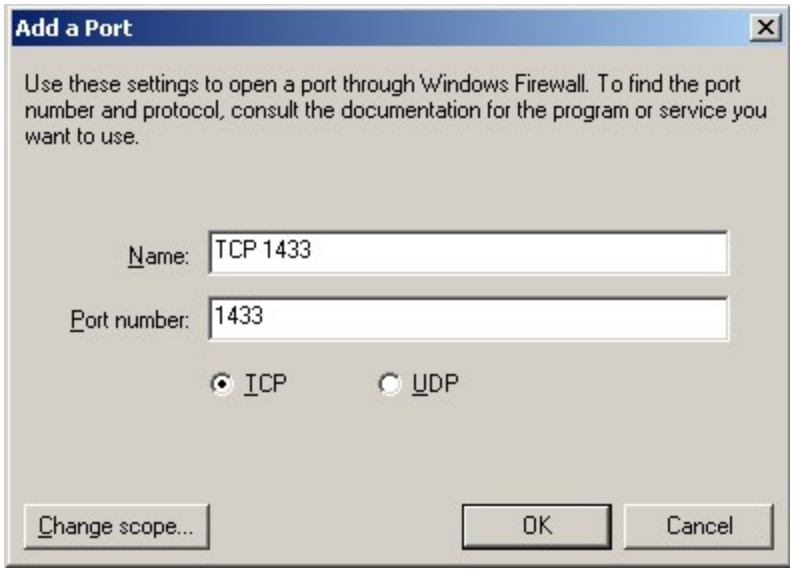
1. Click on **Start** > **Control Panel** > **Windows Firewall**



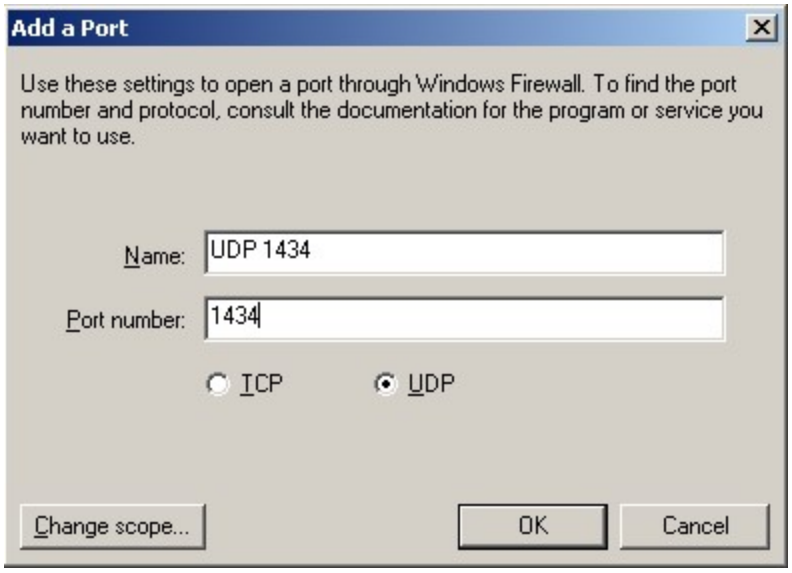
2. On the **Exceptions** tab, click the **Add Port** button.



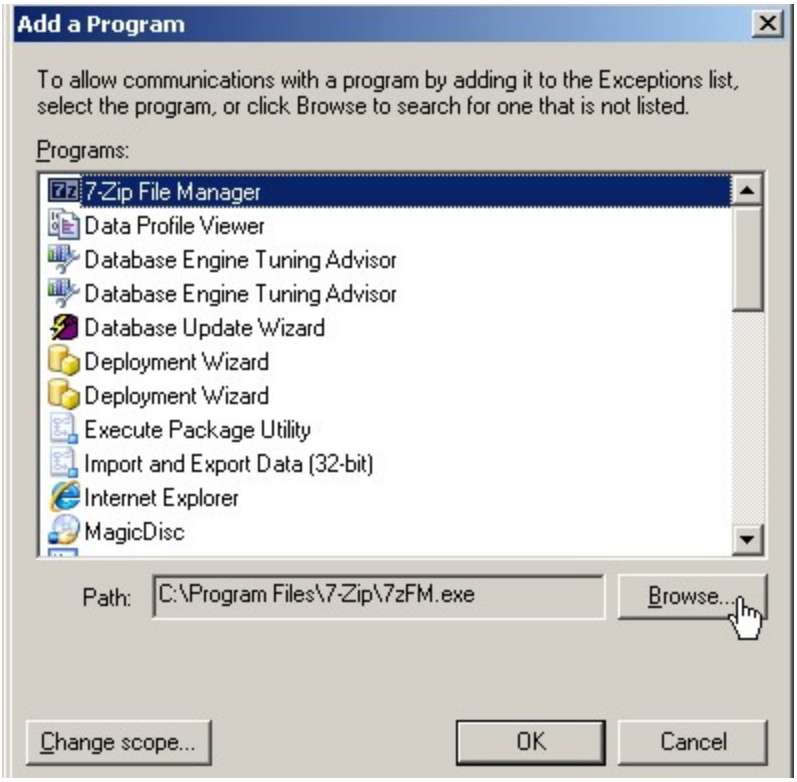
3. In the **Add a Port** dialog, enter a name for the exception entry and type "1433" for the port number. Click **OK**.



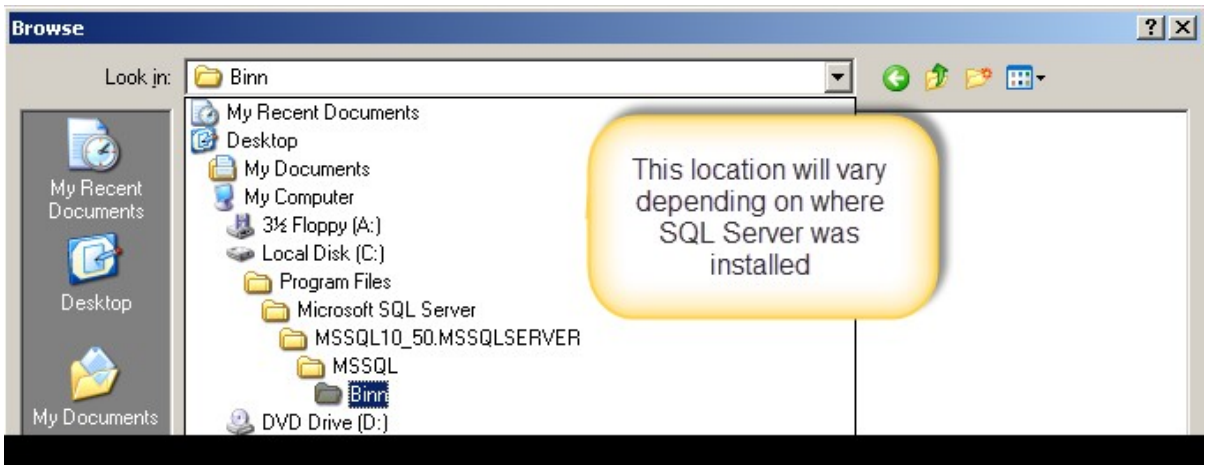
4. Add a second port exception for UDP 1434.

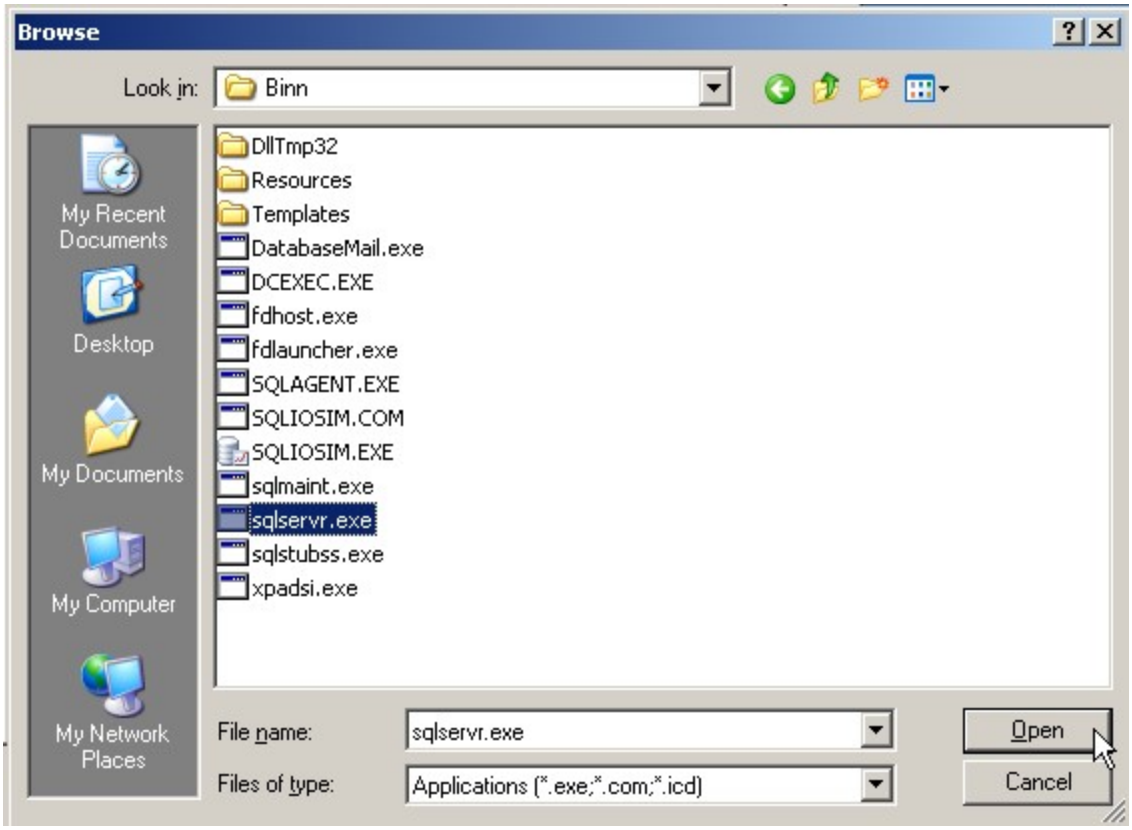


5. Click the **Add Program** button then click the Browse button



6. Browse to the SQL Server installation's Binn directory and select **sqlservr.exe**.

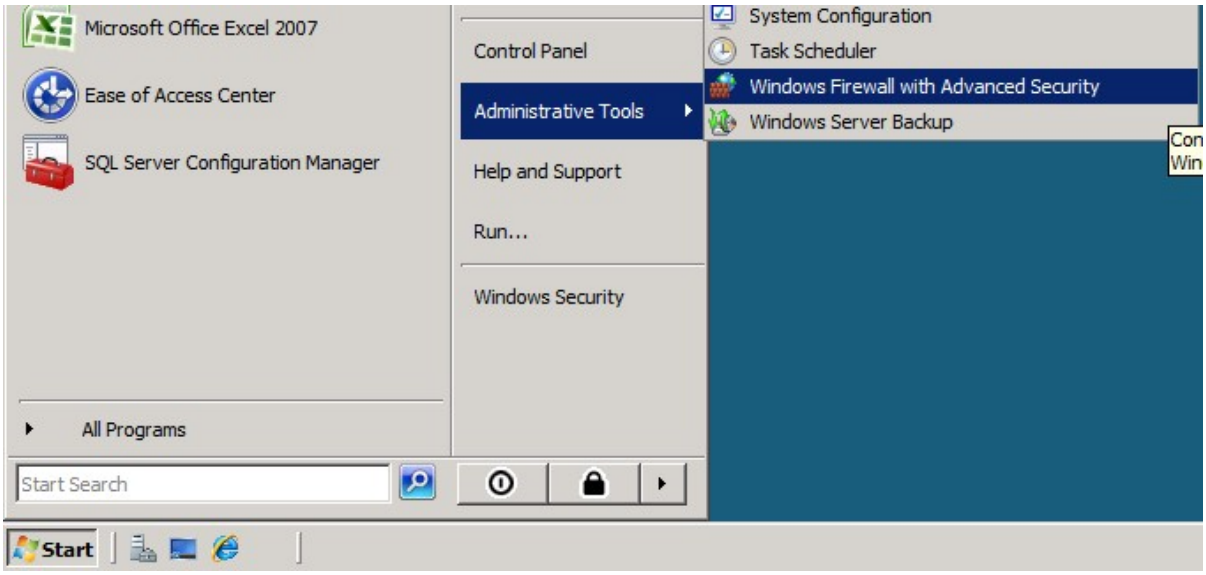




7. Close the Firewall dialog after making these additions.

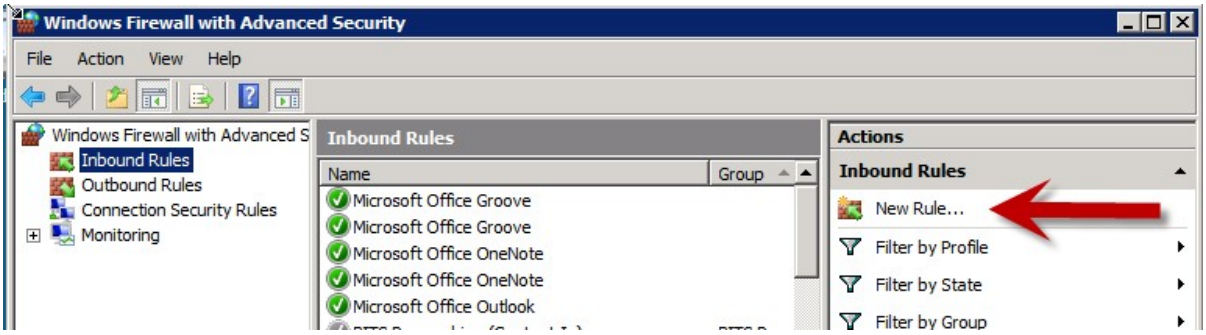
Server 2008

1. Click on **Start** > **Administrative Tools > Windows Firewall with Advanced Security**

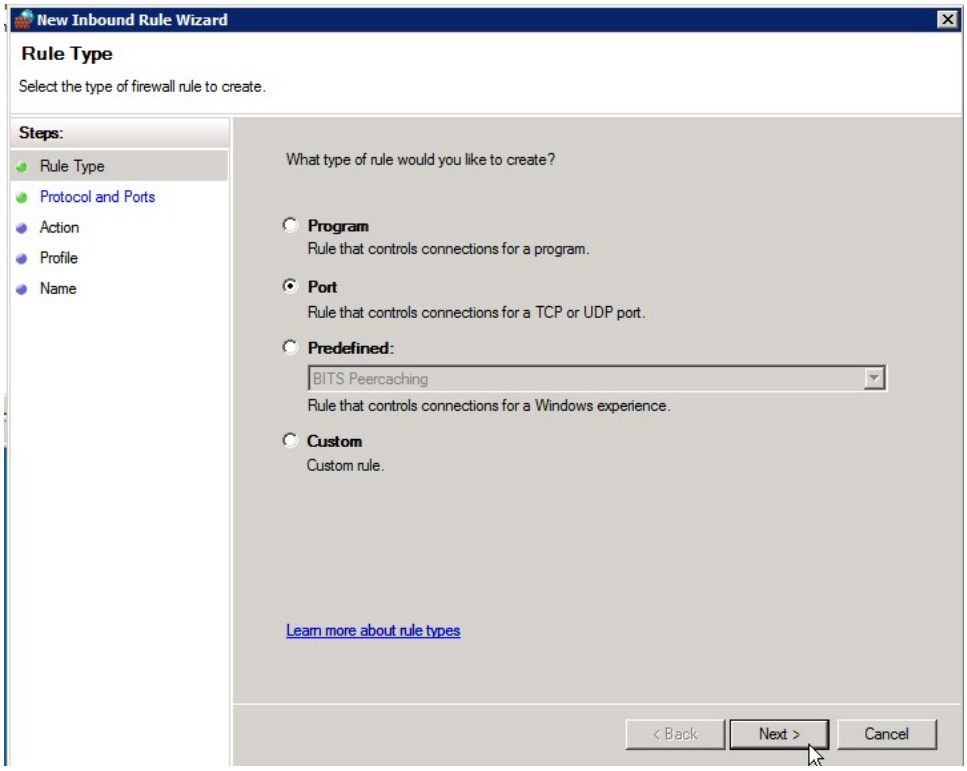


2. Click on **Inbound Rules**.

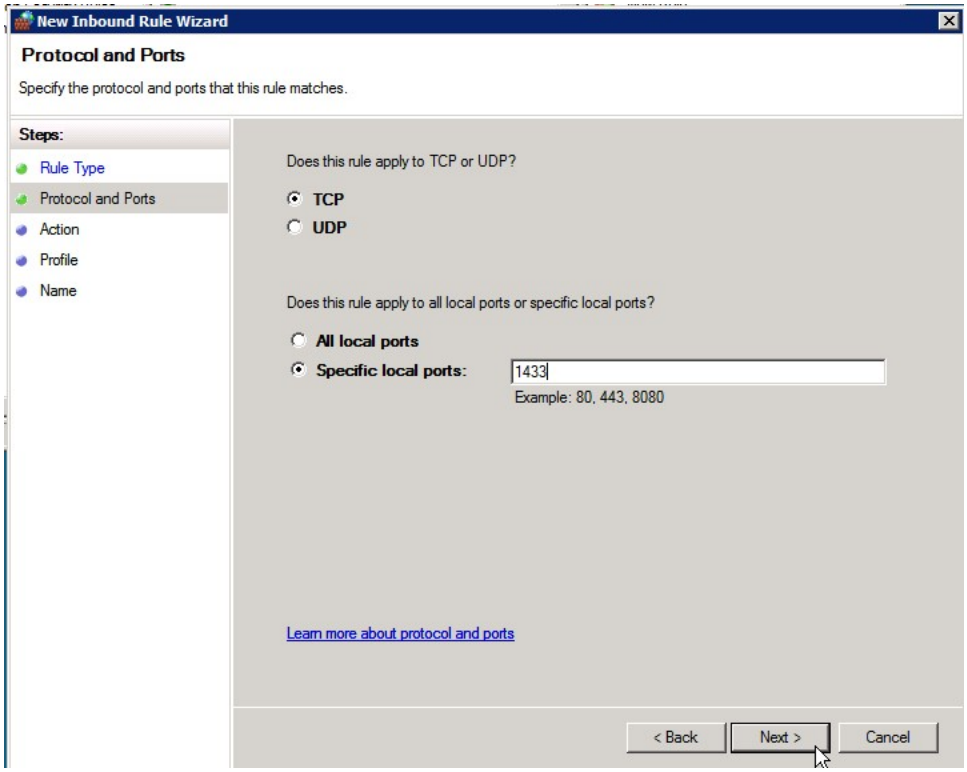
3. Click on **New Rule**.



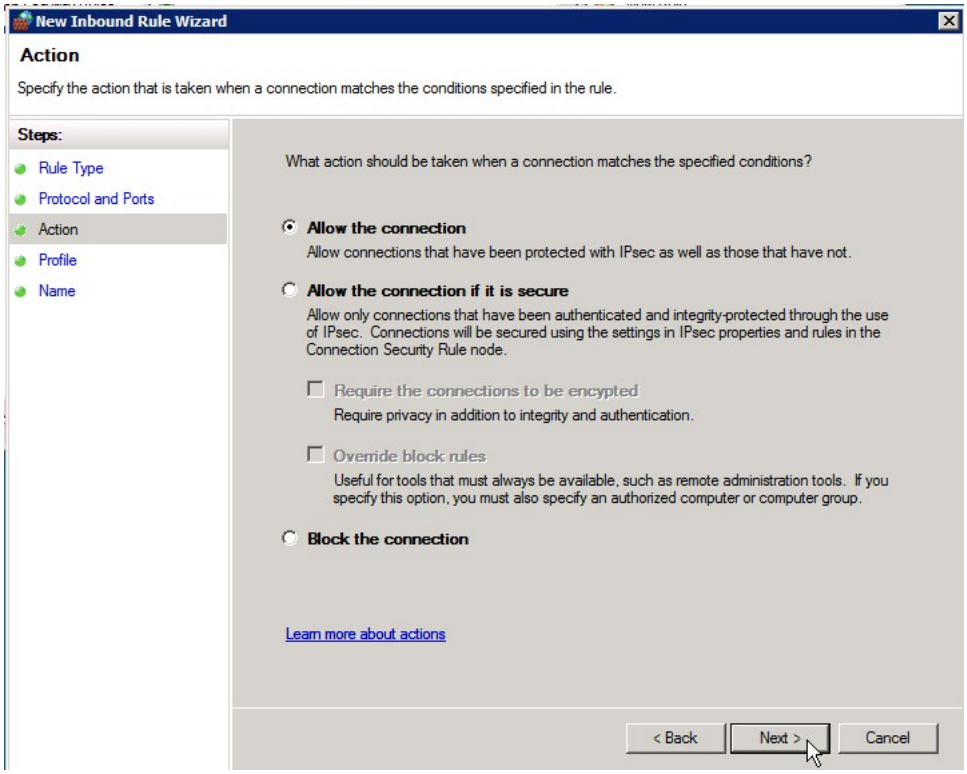
4. Choose the **Port** radio button and click **Next**.



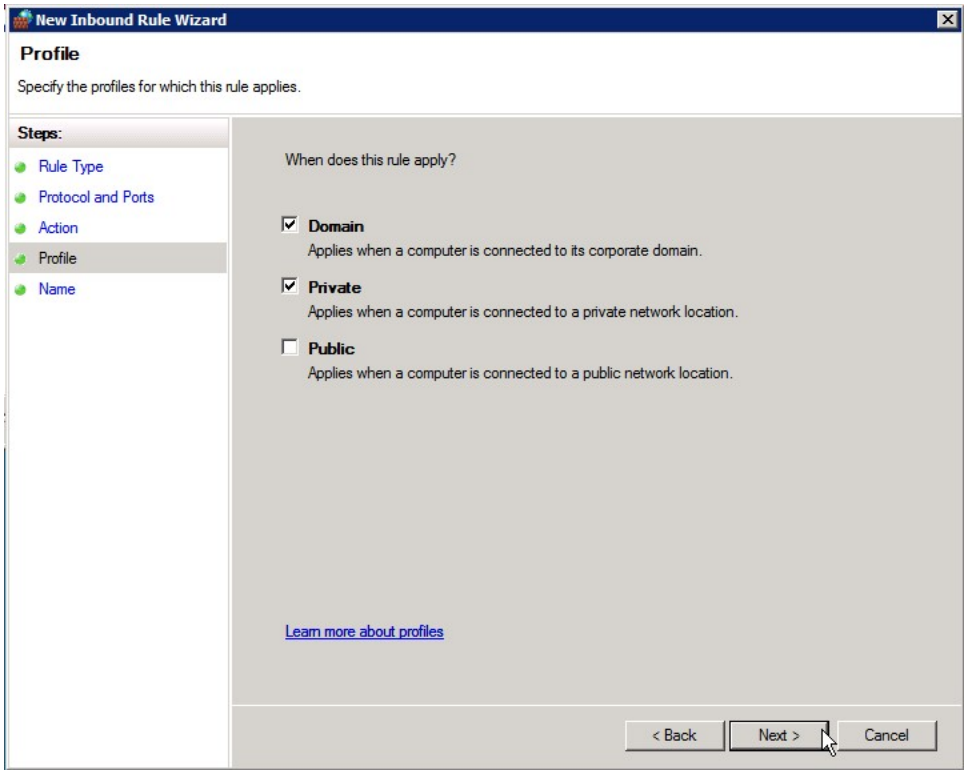
5. Leave the **TCP** option selected and type in port 1433. Click **Next**.



6. Leave the **Allow the connection** radio button selected and click **Next**.

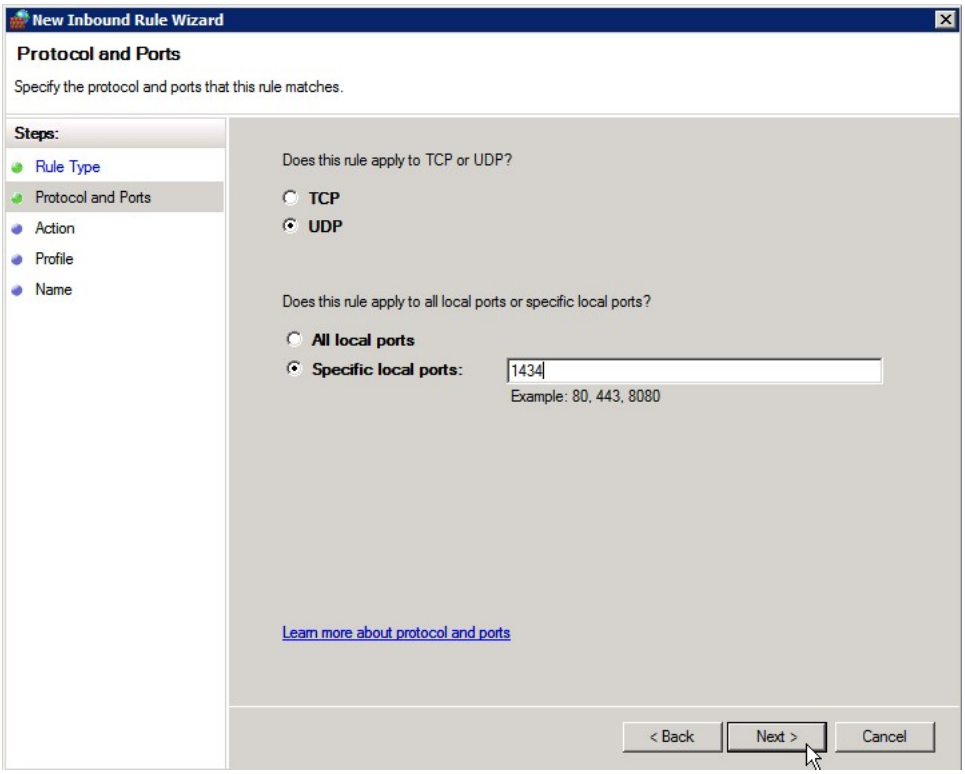


7. Uncheck the **Public** checkbox (unless users are connecting using a public network location) and click **Next**.

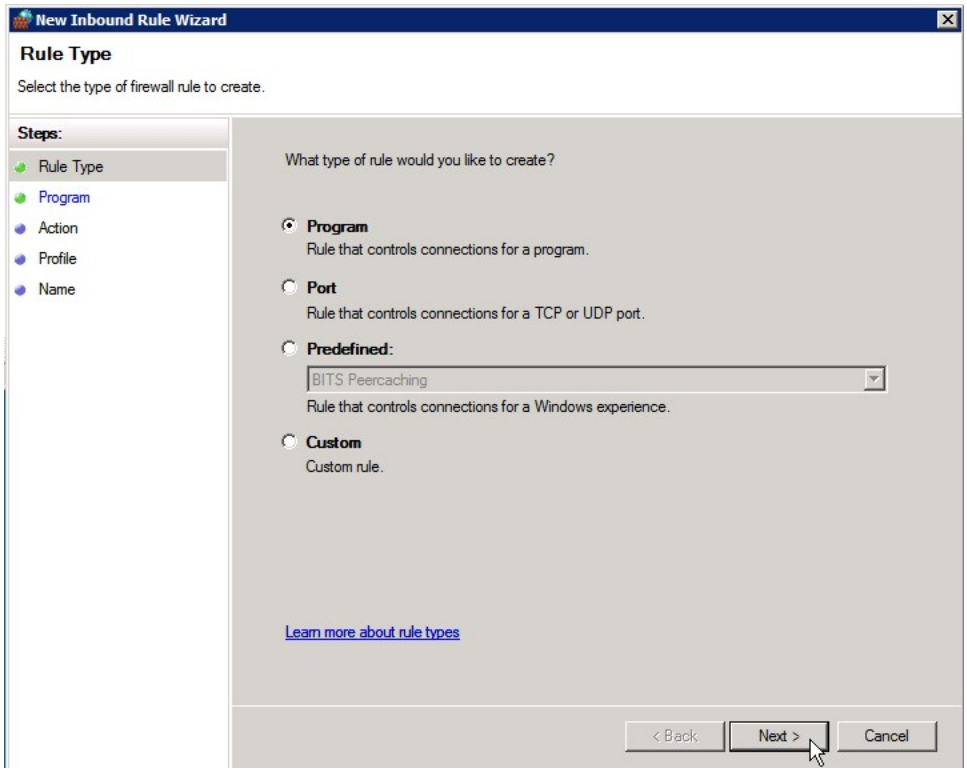


8. Type a name and description for the exception and click **Finish**.

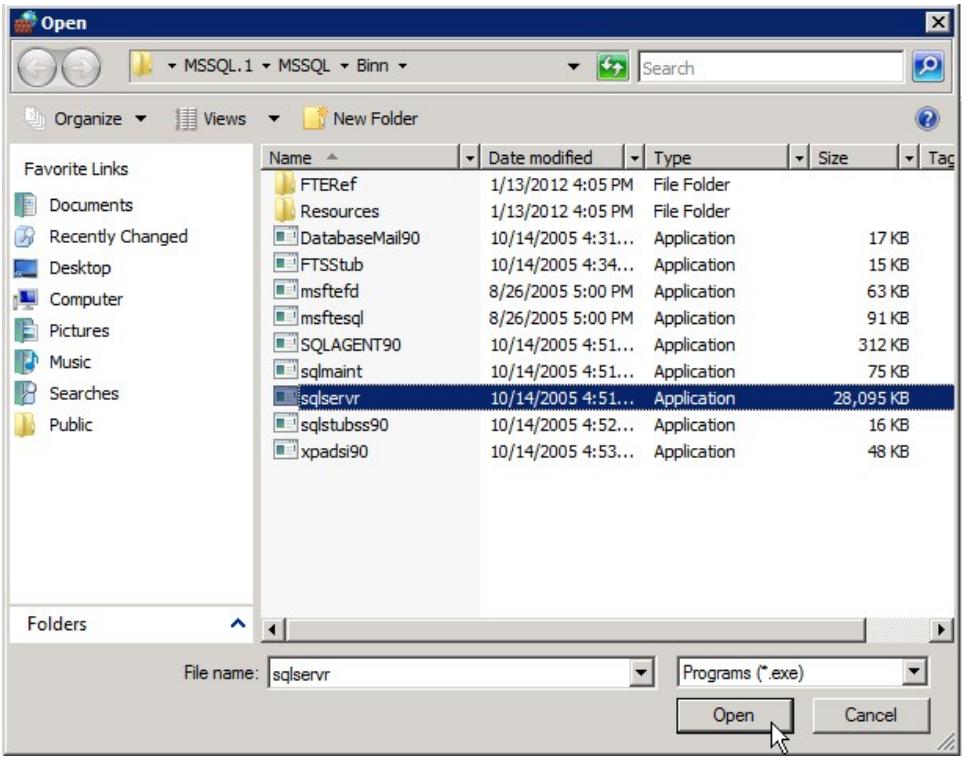
9. Repeat these steps to add a UDP port exception for port 1434.

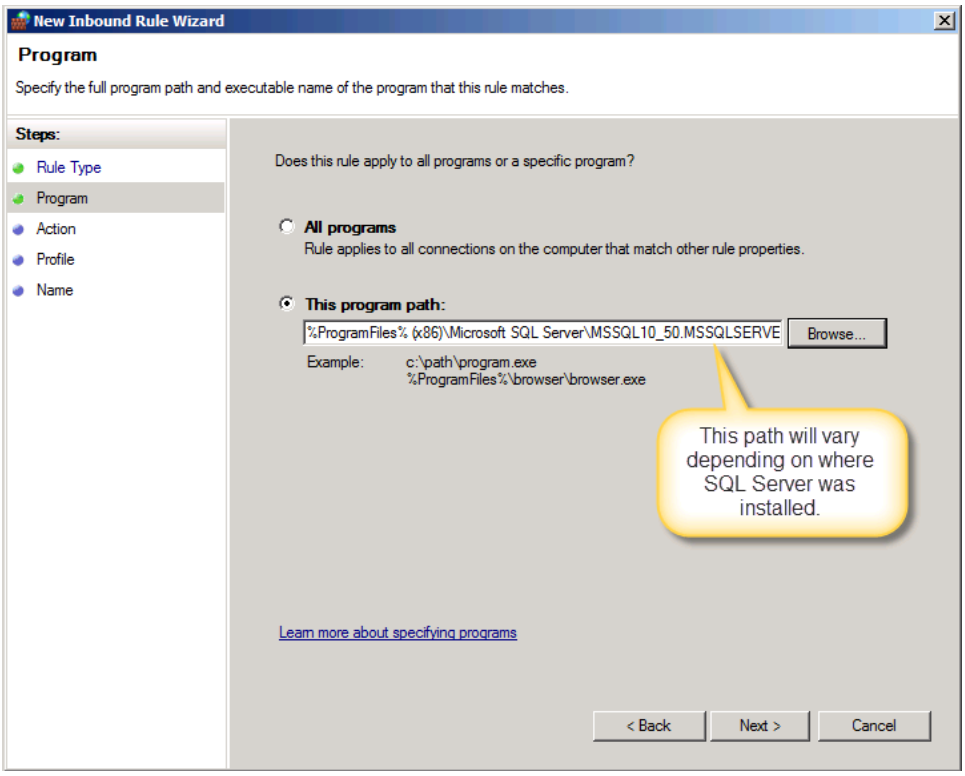


10. Add a third new inbound rule for a program exception.

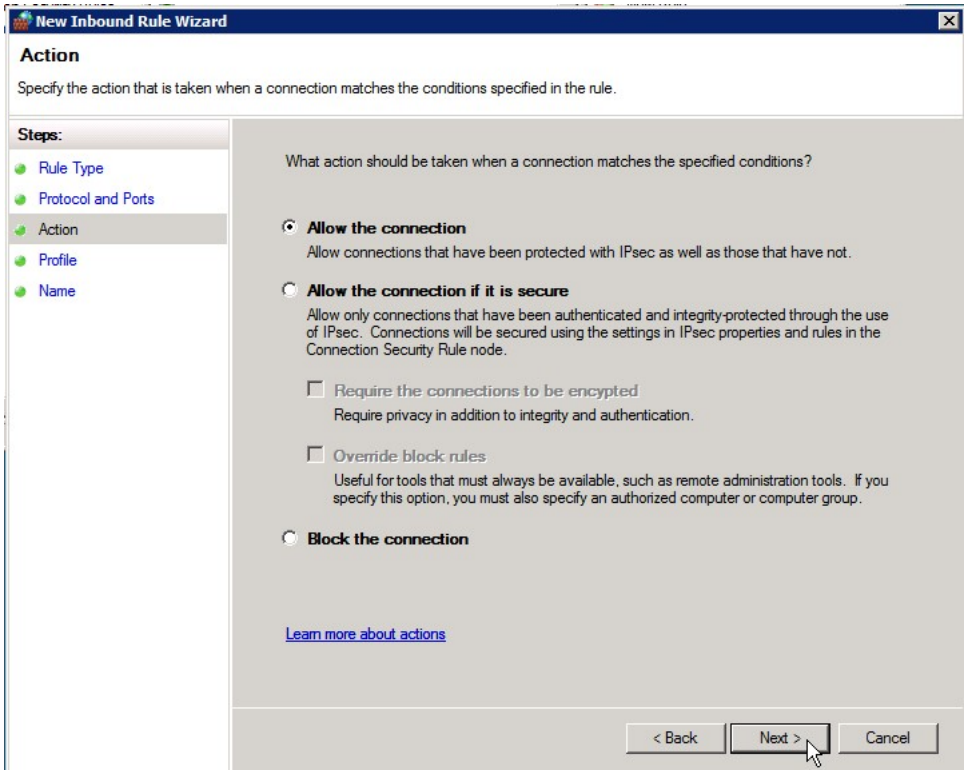


11. Click on the **Browse** button and browse to the SQL Server installation's Binn directory and select **sqlservr.exe**. Then click **Next**.

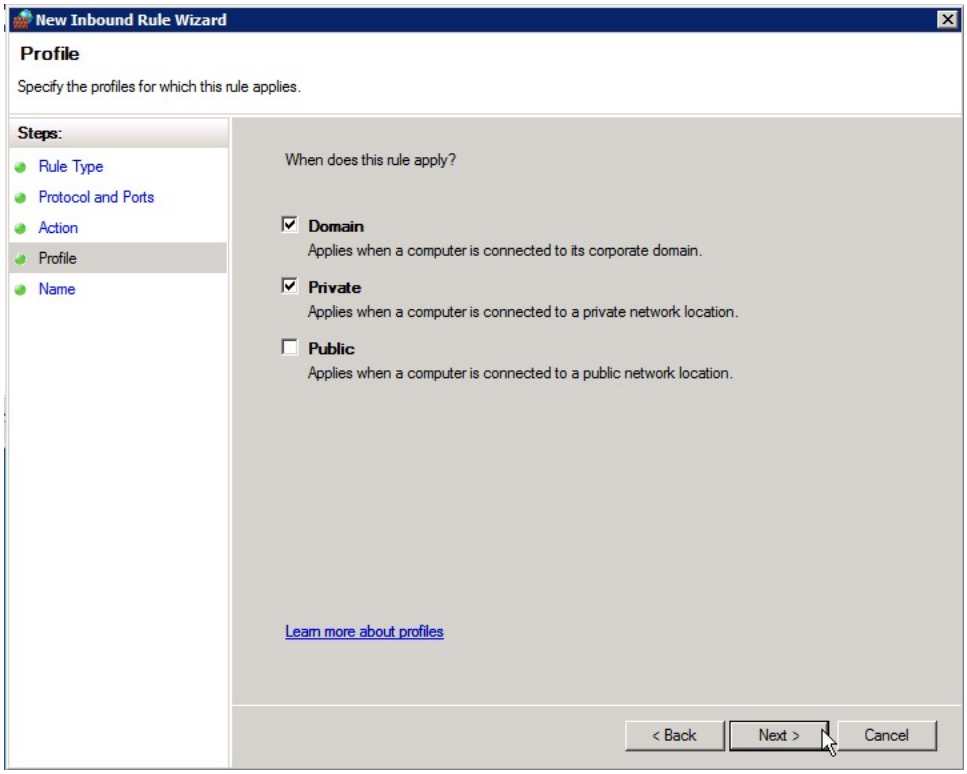



New Inbound Rule Wizard
Program
Specify the full program path and executable name of the program that this rule matches.
Steps:
Rule Type
Program
Action
Profile
Name
Does this rule apply to all programs or a specific program?
All programs
Rule applies to all connections on the computer that match other rule properties.
This program path:
%ProgramFiles% (x86)\Microsoft SQL Server\MSSQL10_50.MSSQLSERVE
Browse...
Example: c:\path\program.exe
%ProgramFiles%\browser\browser.exe
This path will vary depending on where SQL Server was installed.
Learn more about specifying programs
< Back
Next >
Cancel

12. Leave **Allow the connection** selected and click **Next**.



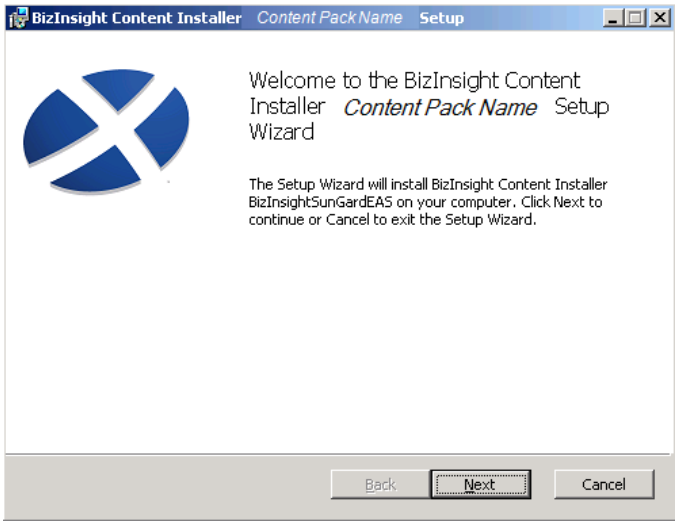
13. Uncheck the **Public** checkbox (unless users are connecting using a public network) and click **Next**.



14. Type a name and description for the exception and click **Finish**.

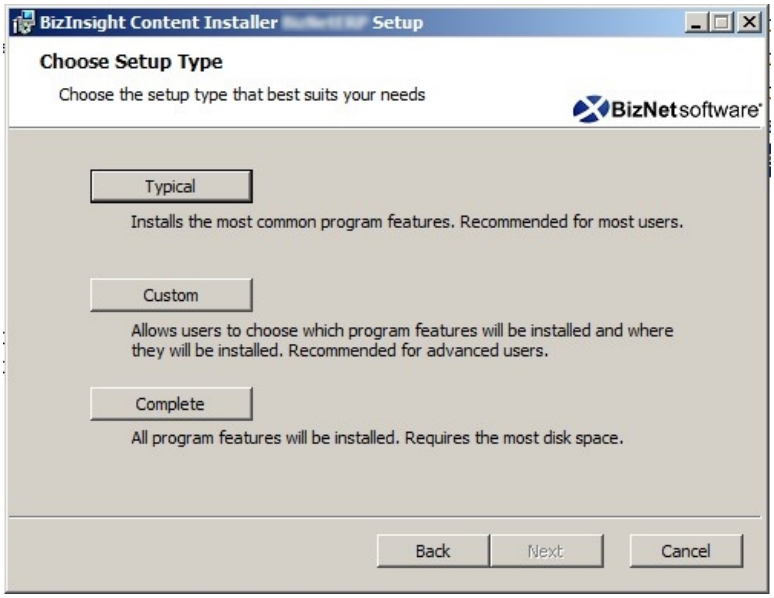
Step 9: Run Content Installer for Additional Content Pack(s)

1. The **Welcome** dialog will open. Click **Next**.

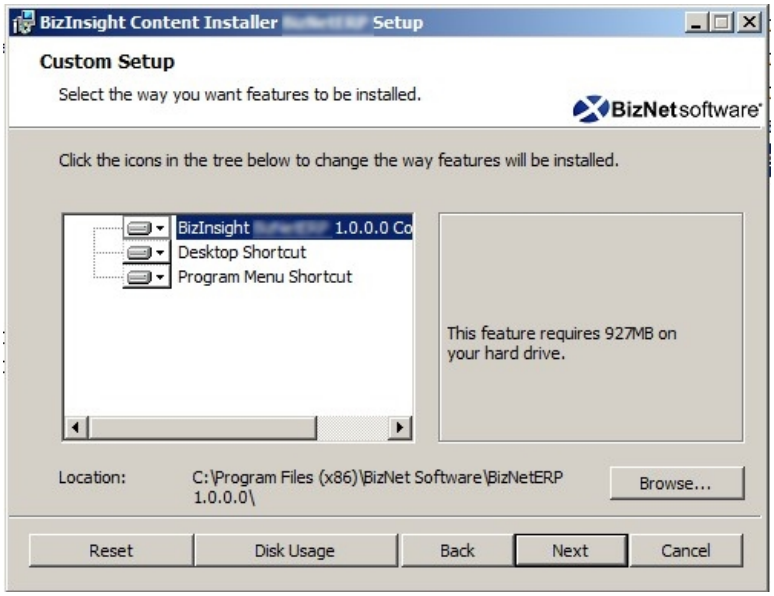


2. Review the End User License Agreement and if you agree to the terms, check the **I accept the terms in the License Agreement** checkbox and click **Next**.

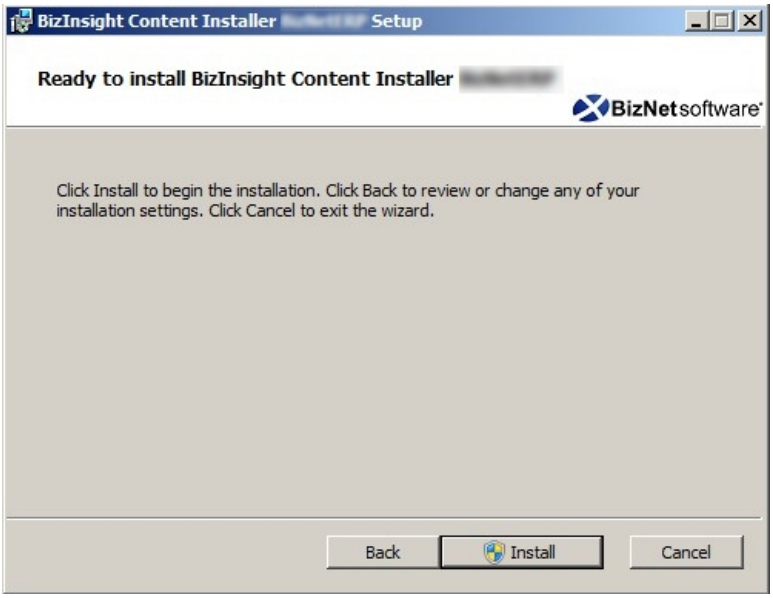
3. Click on the desired **Setup Type** button.



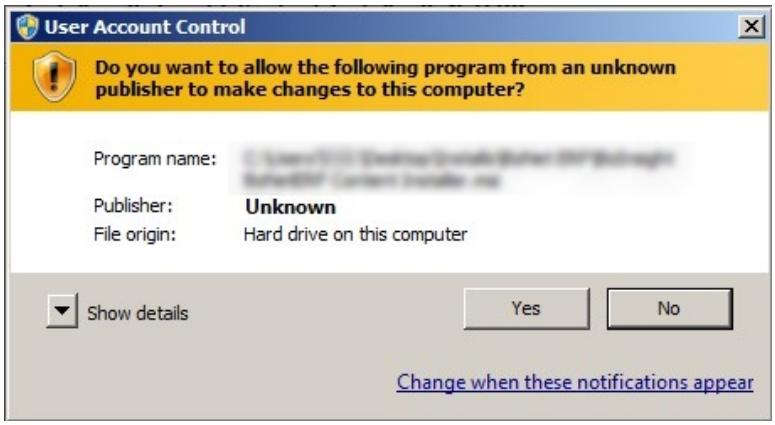
Custom setup type options that are available:



4. Click **Install**.



5. Click **Yes** to any User Account Control messages.

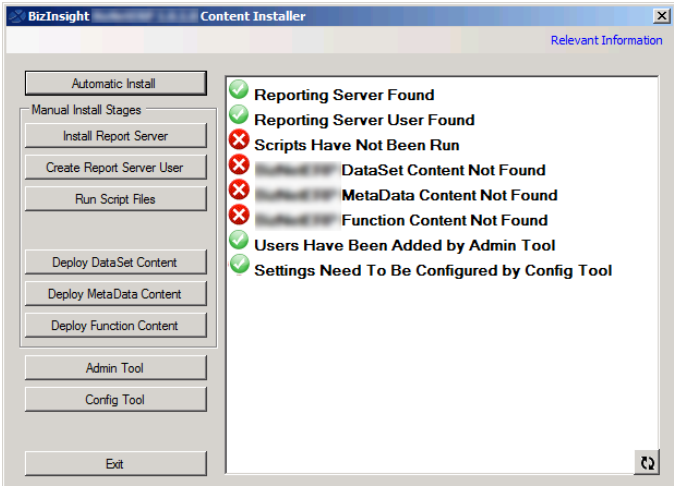


6. When the installer completes, an icon will exist on the desktop if you did not disable the creation of shortcuts.

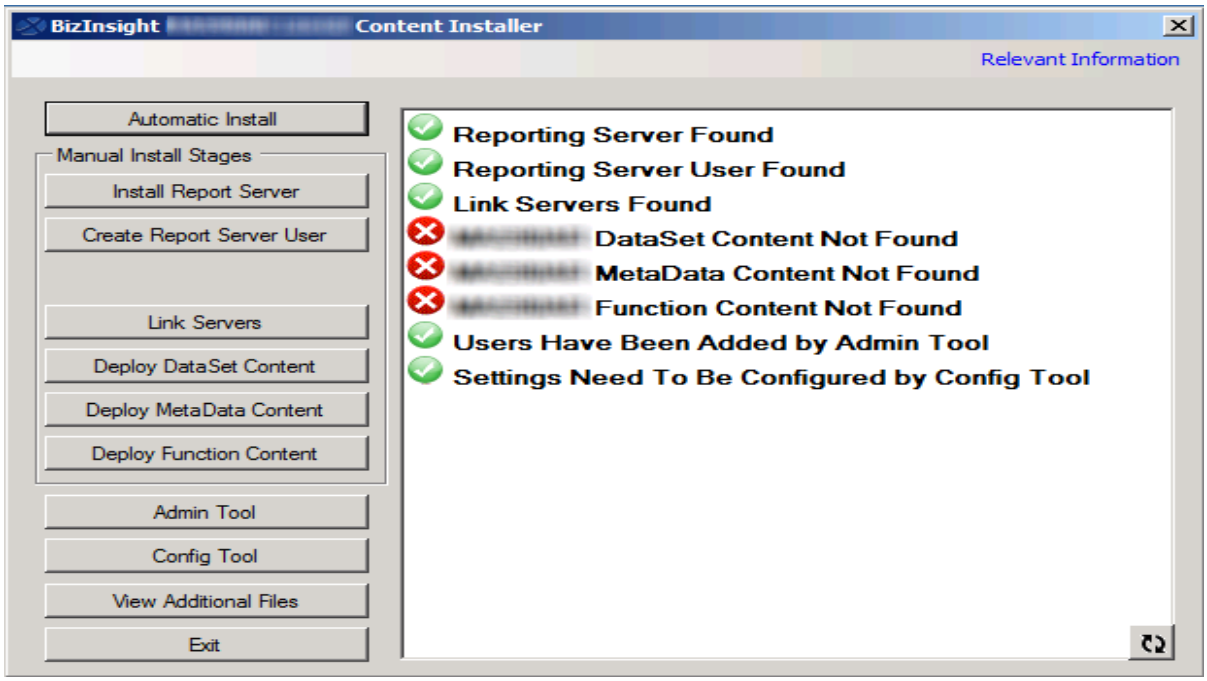
7. Double-click the shortcut on the desktop to launch the content installer. If you chose a Custom installation and disabled the creation of shortcuts, you must browse to the

directory to which the content installer files were extracted and double-click the BizNet Content Installer.exe. If you installed to the default directory location, that directory can be found in C:\Program Files (x86)\BizNet Software.

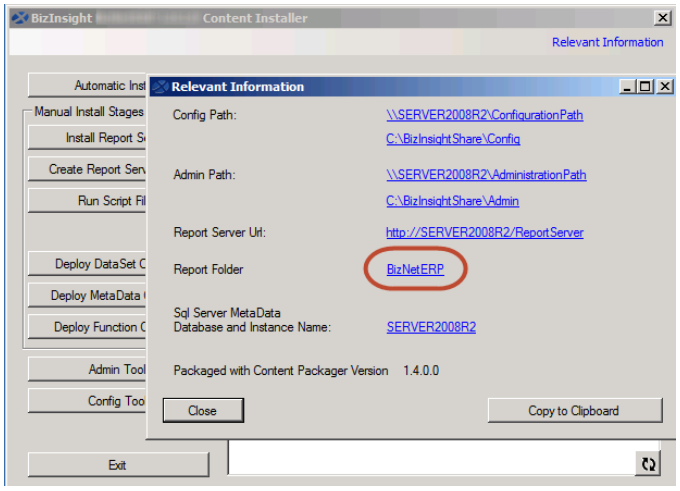
8. The content installer will inspect the server and determine what elements already exist and indicate their presence with a green check mark.



Sage 100 ProvideX customers will see the following:

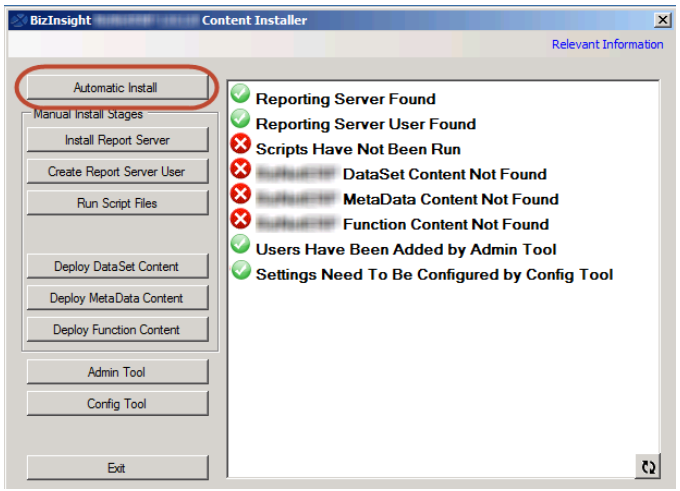


9. Click on the **Relevant Information** link in the upper right corner and make a note of the **Report Folder** name:

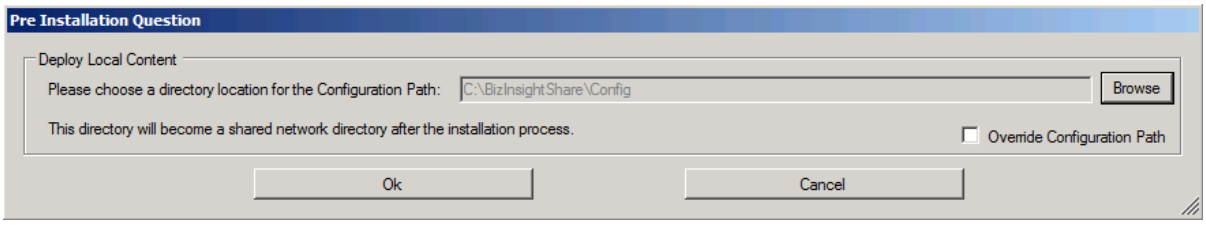


Note If the Relevant Information dialog does not contain any information and BizInsight is already installed, go to a workstation where BizInsight is installed. Open Excel on the workstation, click on the **Application Settings** button on the BizInsight ribbon and copy the values provided for the **Configuration Path**, the **Administration Path**, the **Default Reporting Services Server** and the **Default Reporting Services Folder Name** fields.

10. Click **Automatic Install**.

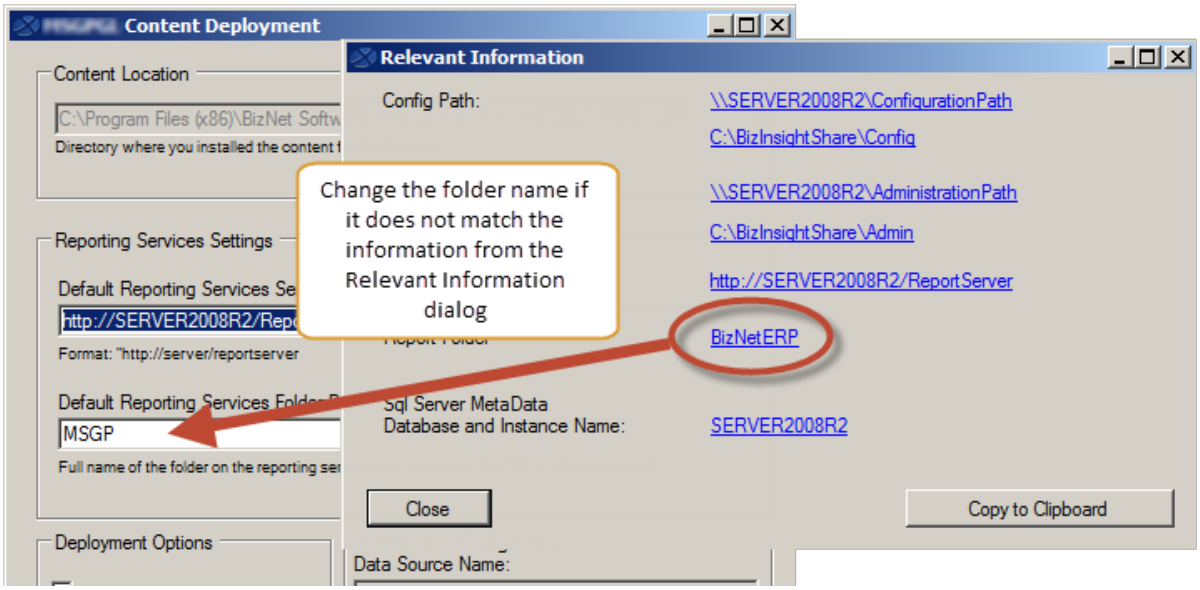


11. The content installer will deploy the MetaData and function content. The path will be automatically defaulted to the path last used. Click **OK**.



12. The content installer will open the content deployment dialog. Most paths will not need to be changed. But you must check the following to make sure they are correct:

    a. Make sure the folder name is the folder name currently being used. If the folder is not the same as shown in the Relevant Information dialog, change that field to match the folder that is currently being used.

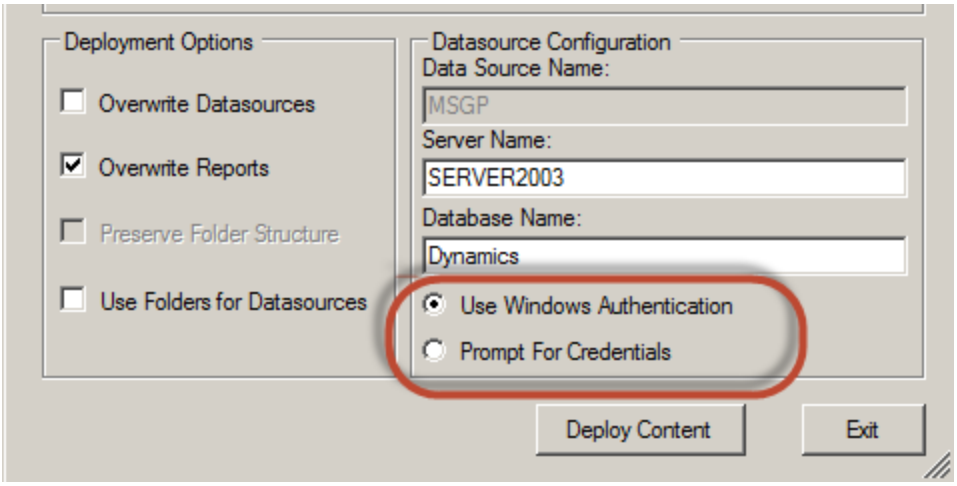


    b. **Sage 100 ProvideX customers, skip this step.**
    Adjust the **Server Name** field if your accounting system database is on another server. ***NOTE*** The server name will default to the last server used. This may not be the right server for the content pack being deployed.

c. **Sage 100 ProvideX customers, skip this step.**
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name. ***NOTE*** The database name will default to the last database used. This may not be the right database for the content pack being deployed.

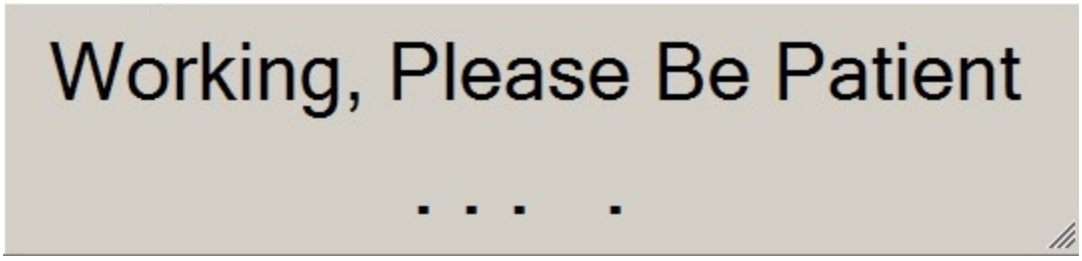
13. **Sage 100 ProvideX customers, skip this step - you must use Windows authentication.**
Select the desired authentication method – Windows authentication or Prompt for Credentials.

IMPORTANT You must use the same authentication method as selected for other content packs.



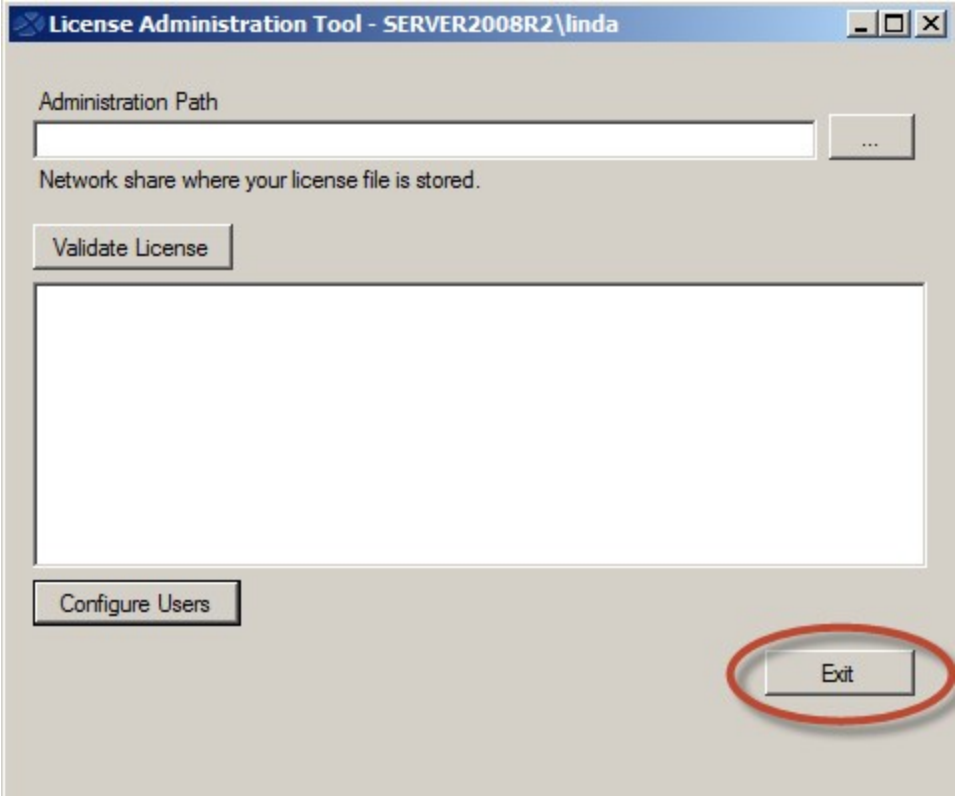
14. Click **Deploy Content**.

15. The content installer will display a status message to indicate that it is working.



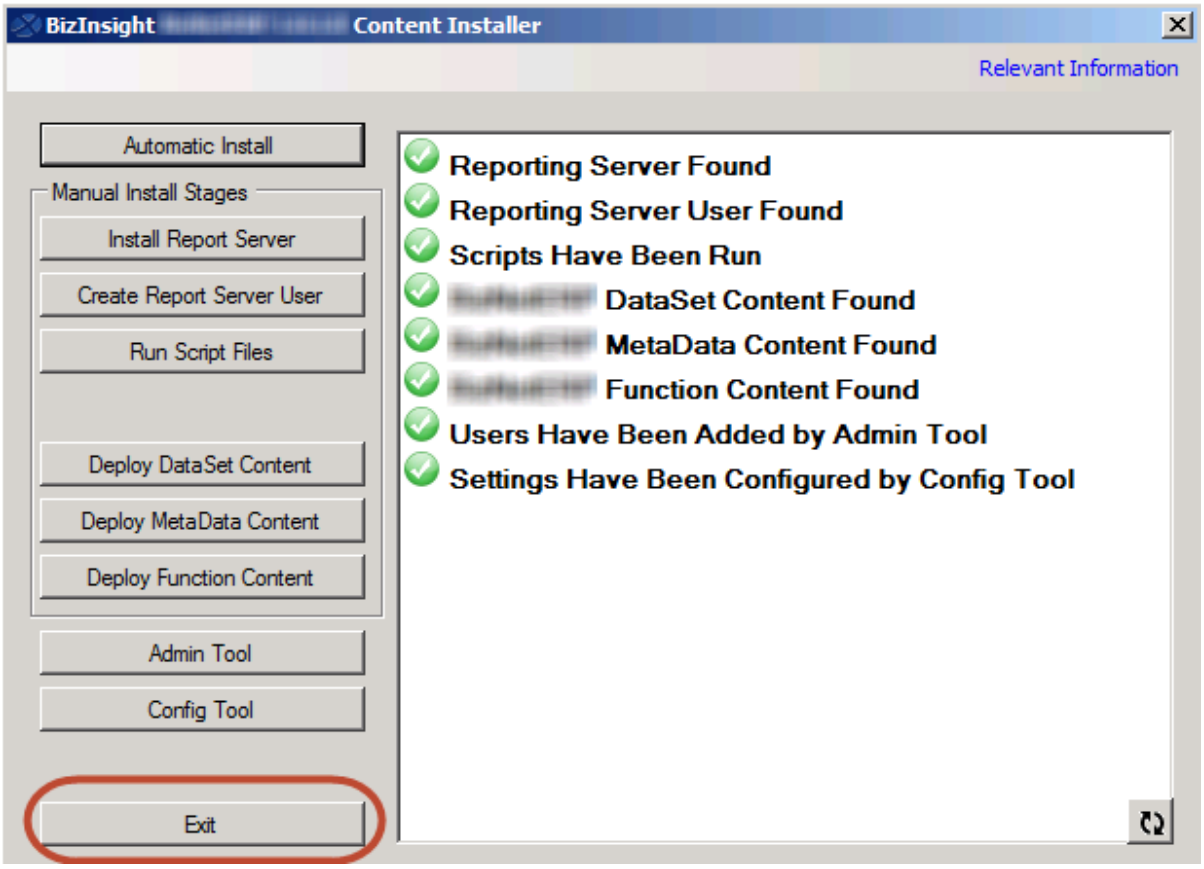
16. Once complete, the installer will display links to the Reporting Services sites. Click **OK** to continue with the installation.

17. The **License Administration Tool** will open. Unless you need to add new users, click **Exit**.



18. The content installer window will display the results of the automatic install. Click **Close.**

19. Click **Exit** to close the content installer.



20. Repeat the above steps for each content pack that needs to be installed.

Installation Activities for Client Workstation(s)

Step 1: Install BizInsight **87**

Installing BizInsight for the Non-Administrative User 93

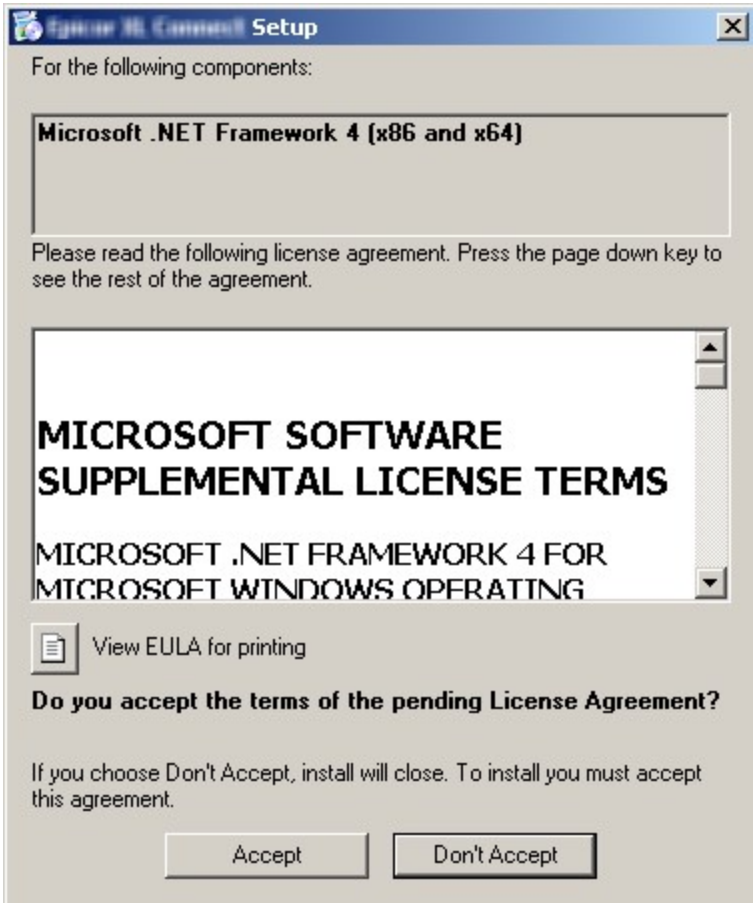
Step 2: Configure BizInsight **95**

Step 3: Verify the BizInsight Installation **105**

Step 1: Install BizInsight

IMPORTANT If you are implementing BizInsight in a Terminal Services/Citrix environment, stop here and switch to the document titled "Citrix Terminal Services Installation Guide" for alternate setup steps for that type of implementation.

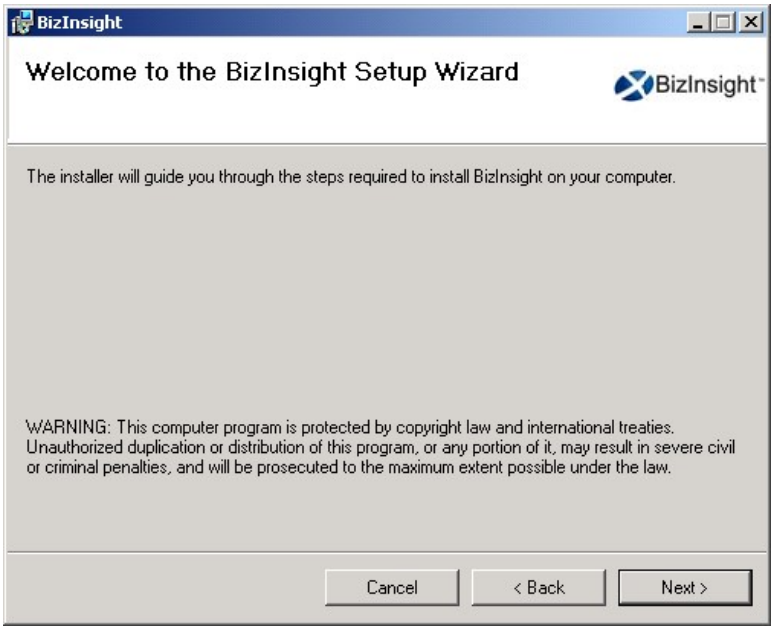
1. Locate the BizInsight product installation files that you downloaded from the portal site and extract the contents.
2. Extract the .zip contents to any directory that is accessible from the client workstation.
3. Double-click the **Setup.exe** for the Excel version that is installed on the client workstation.
4. The installation will check to see if Microsoft .Net Framework 4.0 is installed. If not installed, the following dialog will display. Click **Accept**.



5. The installation will then check to see if the Microsoft Office Primary Interop assemblies for the installed Excel version are installed as well as a specific Microsoft Update that is necessary for proper Excel add-in functionality. If not found, the following dialog will display. Click **Install**.

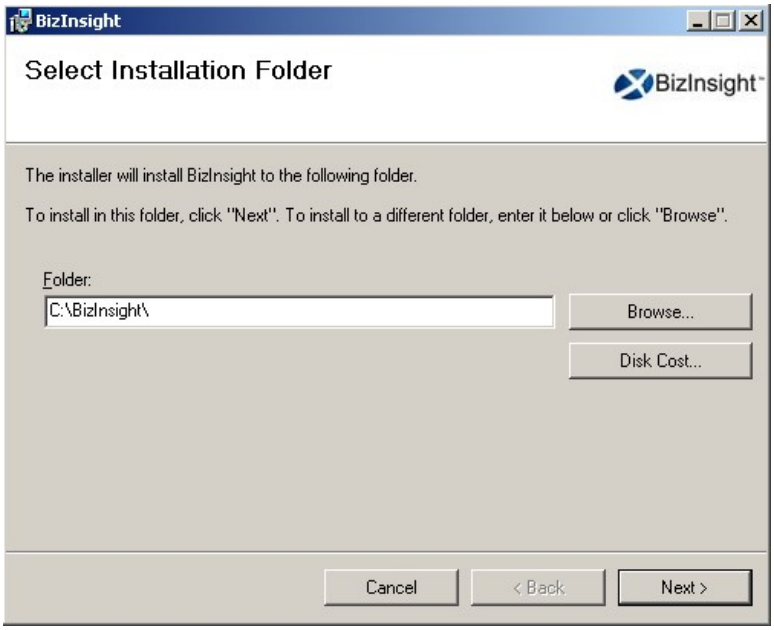
6. The splash dialog will open. Click **Next** to continue.

7. The Welcome dialog will open. Click **Next** to continue.

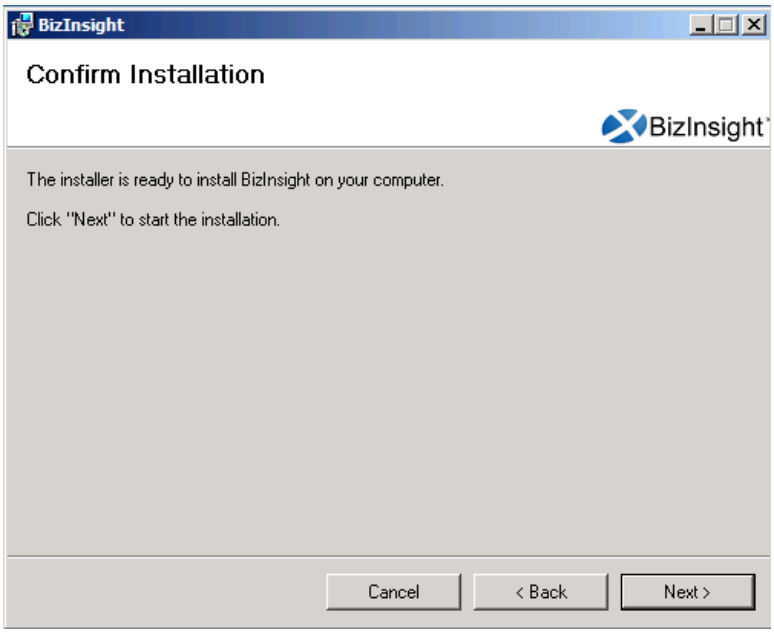


8. The **License Agreement** dialog will open. Read through the agreement and if you agree with the terms, click the **I agree** radio button and then click **Next**.

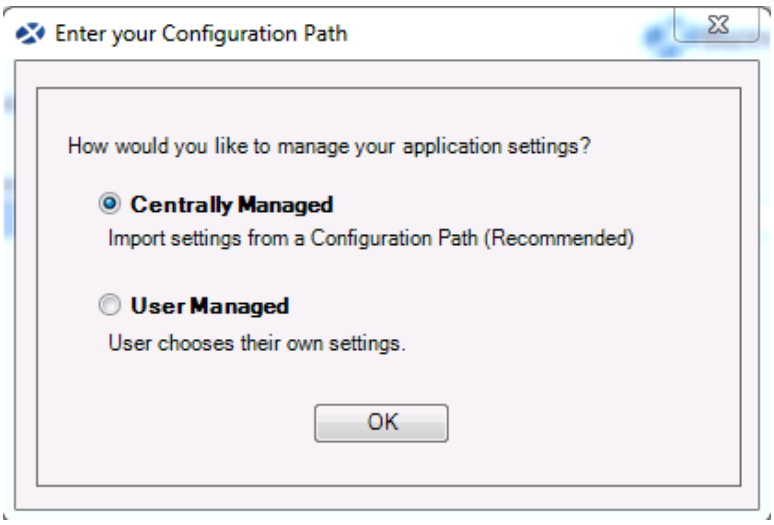
9. Accept the default installation directory or browse to a location of your choice. Click **Next**.



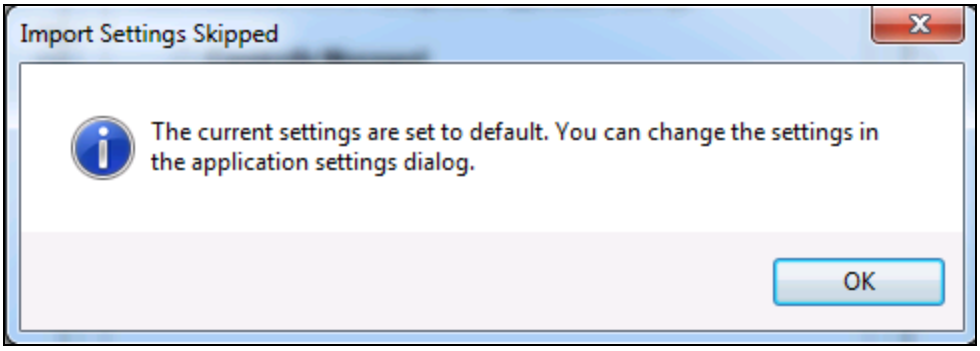
10. Click **Next** at the **Confirm Installation** dialog.



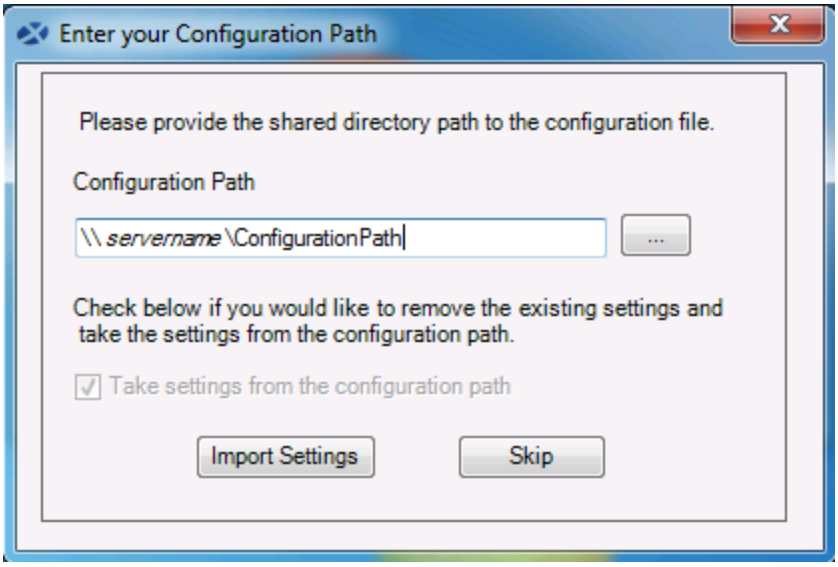
11. The **Enter your Configuration Path** dialog will open. If you have an app.config file produced by a Content Installer in your Configuration Path, leave the default option. Click **OK**.



If you do not have a Content Installer created app.config file, choose the **User Managed** radio button to proceed. You will need to supply the key paths when configuring BizInsight for the user. When you click OK, the Import Settings Skipped dialog will open. Click **OK**.

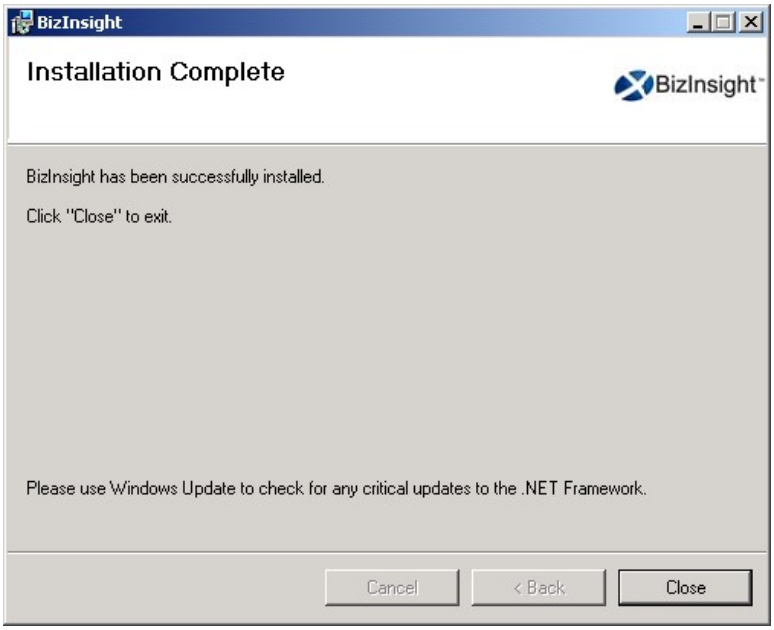


12. If the Centrally Managed option was selected, click the Browse button and browse to the Configuration Path shared directory.



Click **Import Settings**.

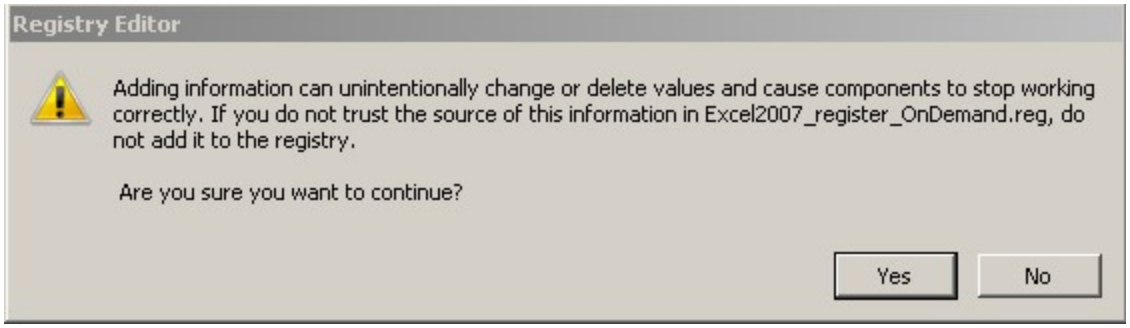
13. Once the installation completes, click **Close**.

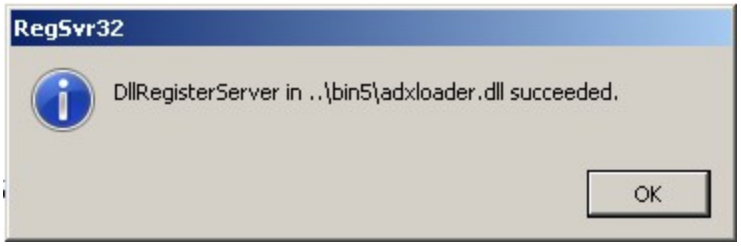


Installing BizInsight for the Non-Administrative User

If you have installed BizInsight while logged in as a different login than the BizInsight end user, you will need to perform the following additional steps in order to get BizInsight functioning for this user.

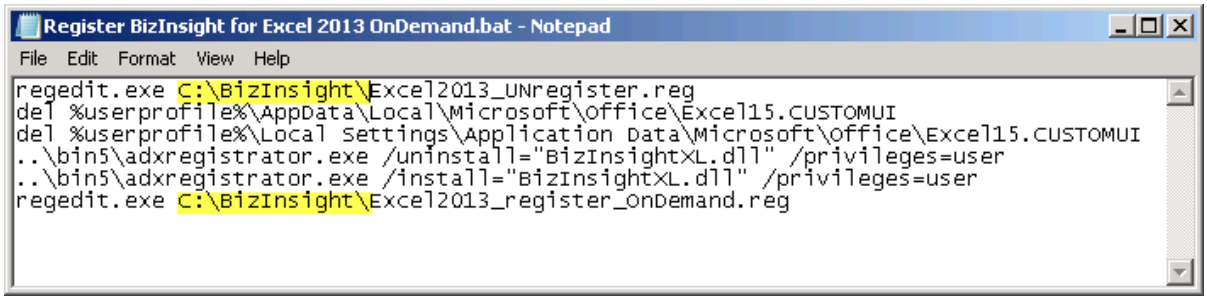
1. After completing all of the preceding steps to install BizInsight, log out of the client workstation and log back in as the BizInsight user.
2. Open Windows Explorer and browse to the reg5 subdirectory of the BizInsight local directory.
3. Double-click the file named "**Register BizInsight for Excel *xxxx* OnDemand.bat**", where "xxxx" is the Excel version (2003, 2007, 2010 or 2013).
4. If the workstation is running Windows 7 with User Account Control ("UAC") enabled, click Yes to all UAC pop-ups. Click Yes or OK to all dialogs that open.





IMPORTANT If you get the following error when running the .bat file, you must edit the file named "Register BizInsight for Excel xxxx OnDemand.bat" to add the file directory path to each regedit.exe line.

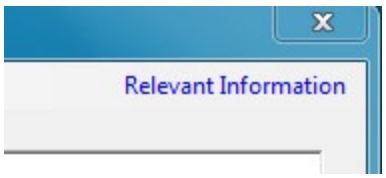
To edit the "Register BizInsight for Excel *xxxx* OnDemand.bat", open it with Notepad and add the file directory path to each regedit.exe entry in the file. For example:



5. When the .bat file completes, start Excel and continue with the next steps.

Step 2: Configure BizInsight

1. **If you used the Content Installer to create an app.config file to use for Centrally Managed settings, you can skip this step**.
   You will need to know the paths for the BizInsight implementation. Go to the server and start the Content Installer. Click on the Relevant Information link and make a note of the values shown.

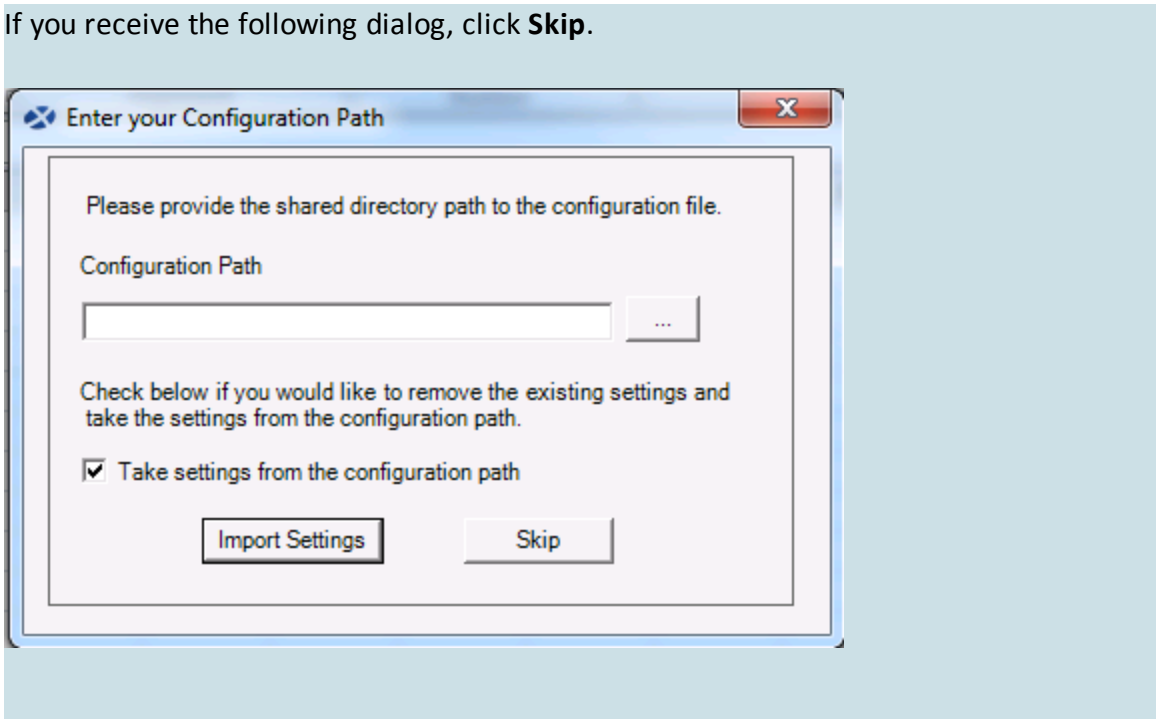


2. While logged in as the BizInsight end user, open Excel.

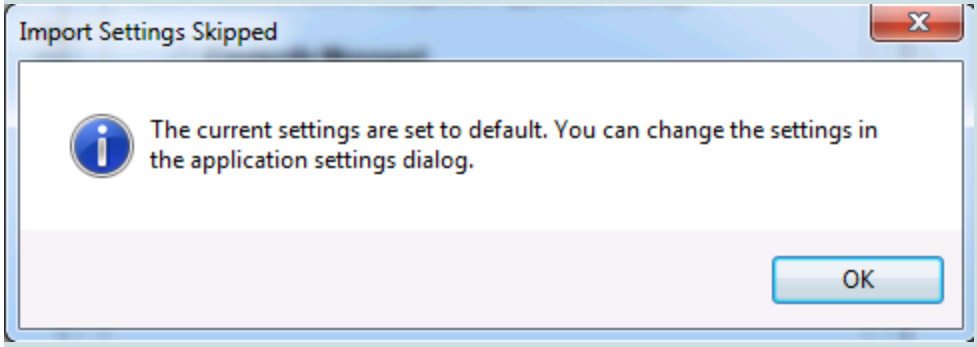
   The next steps depend on whether you chose the Centrally Managed option at the end of the BizInsight installation or chose to manage your settings at the user level. Click here to jump to the Centrally Managed steps.

   User Managed Settings Steps (blue background)

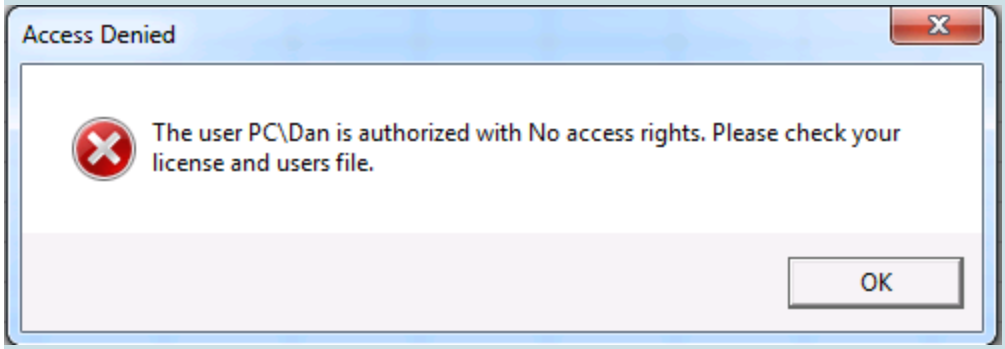
3. If you receive the following dialog, click **Skip**.



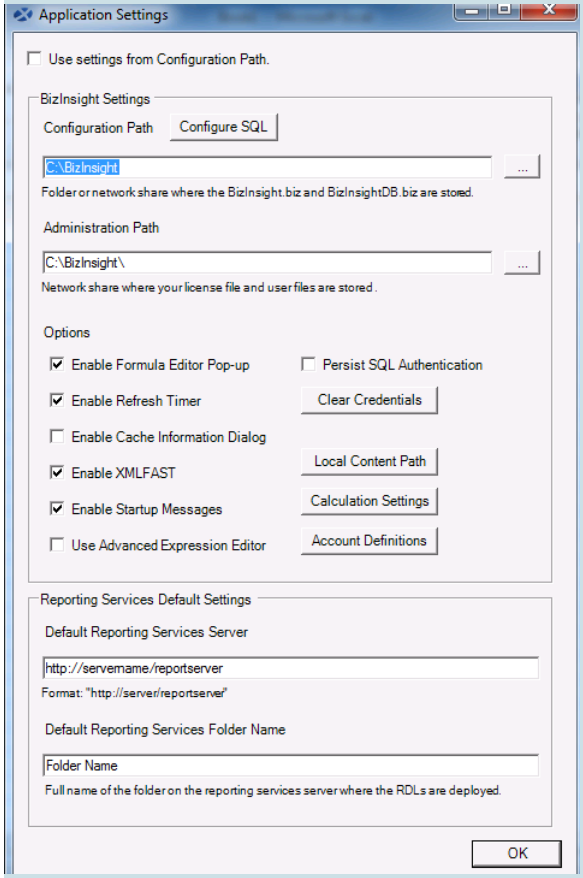
Click **OK** to the next message regarding the use of default settings.



If you receive the following error, go back to the server and grant the user BizInsight security rights, see "Assign BizInsight Security to Users" on page 140.

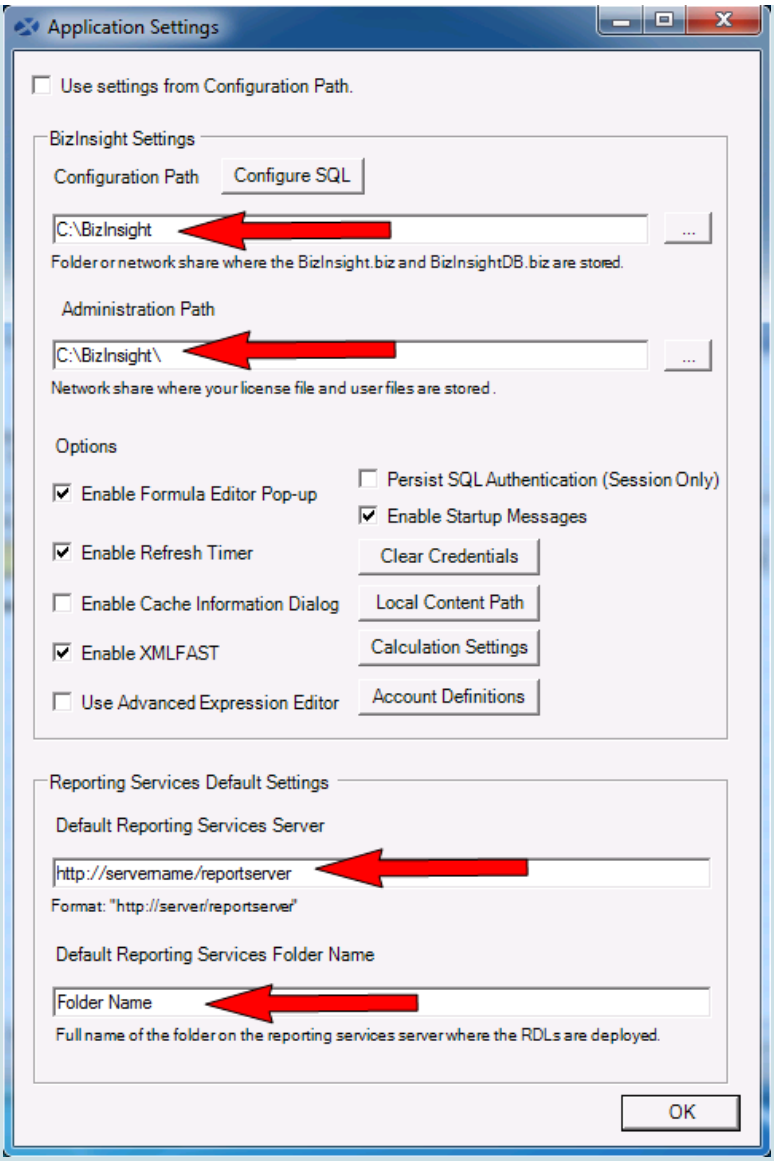


4. The Application Settings dialog will open. If it does not open, click on the Application Settings button on the BizInsight ribbon.



Perform the following steps:

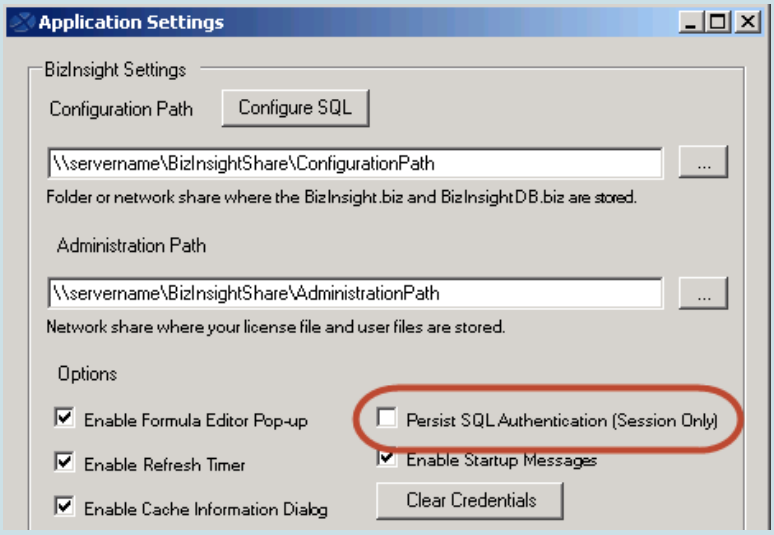
a. **Provide Essential Paths**
   You must provide values for the **Configuration Path**, the **Administration Path**, the **Default Reporting Services Server** and the **Default Reporting Services Folder Name** fields.



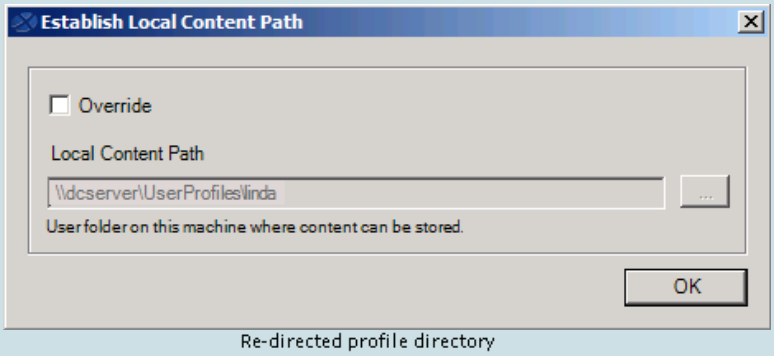
You should have looked up these values at the start of this section.

b. ***SQL Credentials Steps*** (skip if not using SQL credentials for data retrieval from the Accounting database)

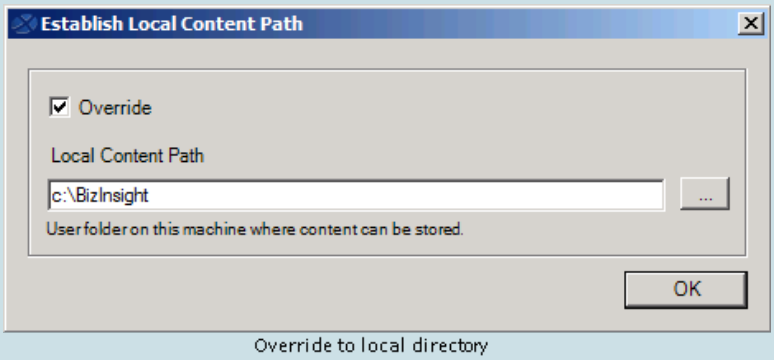
If you configured the Reporting Services data source to use SQL credentials during content deployment, check the **Persist SQL Authentication** checkbox.



c. Click on the Local Content button. If the default path displayed is not a local directory, click on the Override checkbox and change the path to a directory that resides on the local computer, C:\BizInsight is suggested.



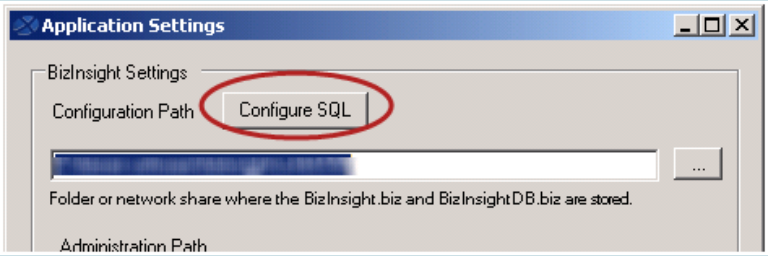
Re-directed profile directory



Override to local directory

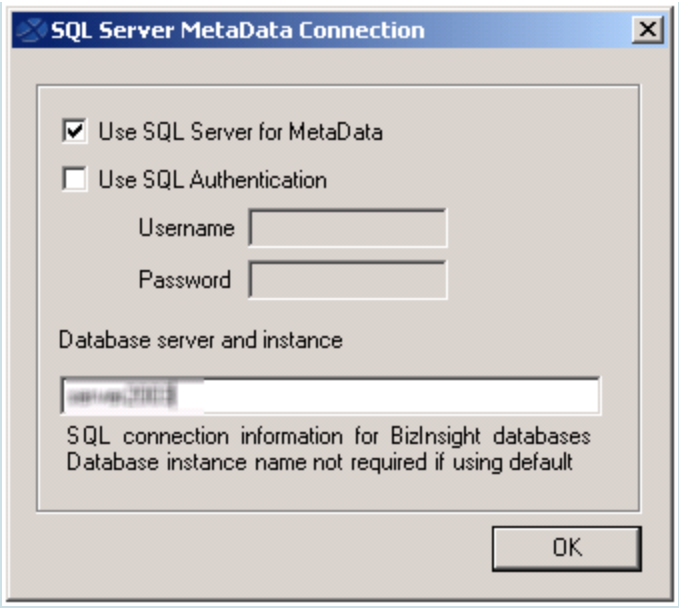
d. ***SQL MetaData Databases and Column Security Steps***

If the BizInsight SQL metadata databases (BizInsight and BizInsightDB) were implemented during the server setup, click on the **Configure SQL** button. If the **Application Settings** dialog does not have this button, BizInsight is not the right version. You need to uninstall and install the most current BizInsight version.



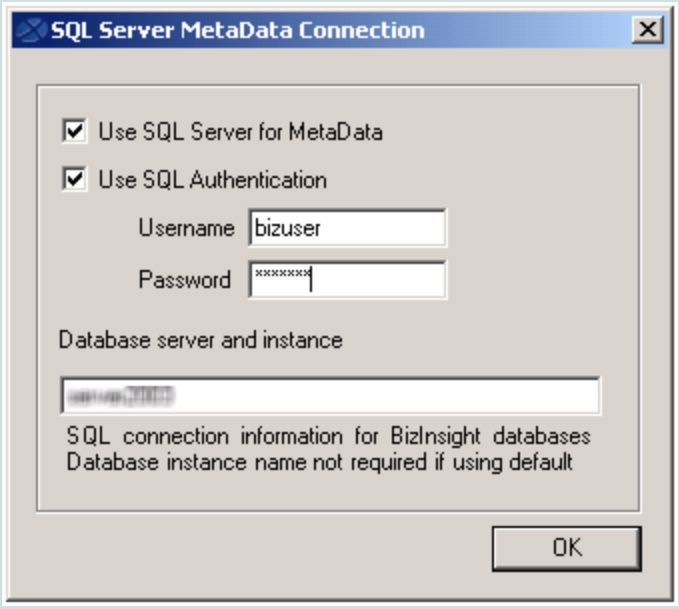
IMPORTANT This step is essential to complete Column Based security configuration. See " BizInsight Column Based Security Overview" on page 134 for more information about this optional security feature.

i. Check the **Use SQL Server for MetaData** checkbox and enter the SQL Server name, and instance name if applicable, where the BizInsight SQL databases (BizInsight and BizInsightDB) are located. The format should be *servername\instancename*.



ii. If users will be connecting to the SQL metadata databases using SQL authentication, check the **Use SQL Authentication** checkbox. You will get the following Warning message indicating that the credentials provided will be stored in clear text in a configuration file in the user's profile.

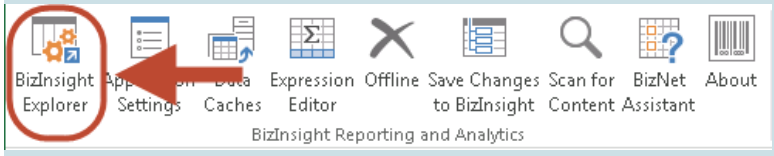
Click **OK** and enter a valid SQL login and password with appropriate rights to the SQL MetaData databases. Click **OK**.



IMPORTANT This dialog allows you to use a different method of connectivity to the BizInsight MetaData databases than for the accounting system database.

e. Close the **Application Settings** dialog.

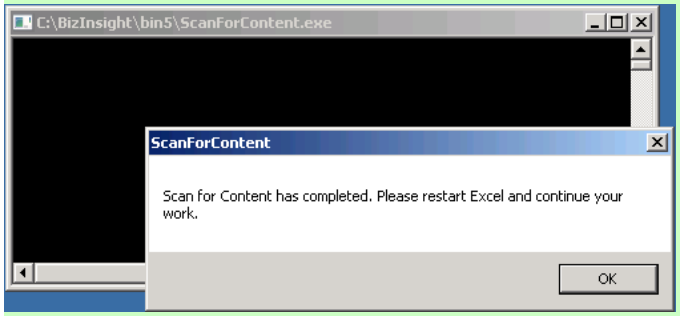
5. Re-start Excel.
6. Click on the BizInsight tab and then click on the BizInsight Explorer button to load the Navigation Pane.



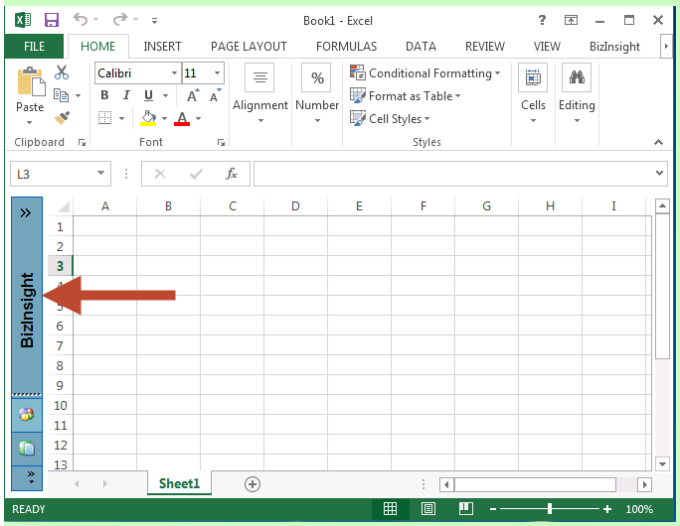
7. Skip to the next white background step.

Centrally Managed User Settings (green background)

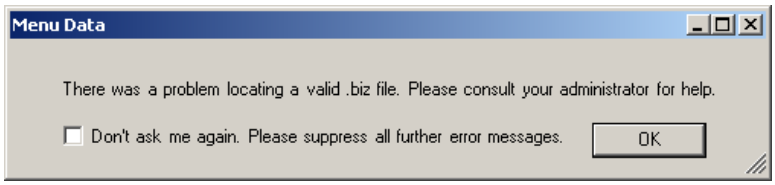
8. If you are using Centrally Managed settings, you will see Scan for Content run when you first open Excel. Click **OK** and restart Excel.



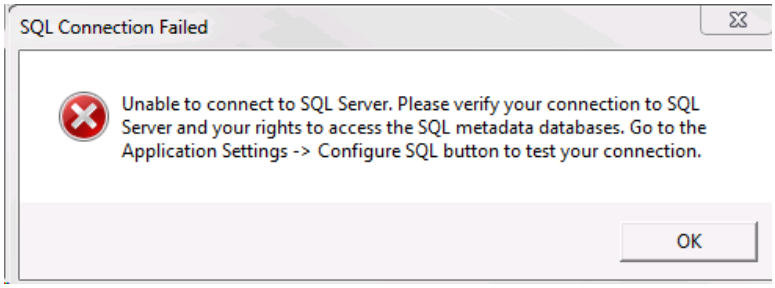
9. You should see the Navigation Pane display on the left side in Excel.



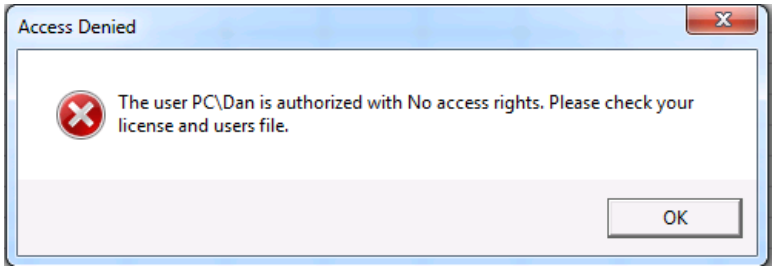
10. If you receive the following error, go back to your server and make sure all of the configuration changes have been made for XMLFast (see "CheckTCP/IP, SQL Browser and Firewall Exceptions" on page 51) and make sure the end user has the db_ datareader and db_datawriter permissions to the SQL metadata databases (BizInsight and BizInsightDB).



Click **OK** to this message as well as the one that follows:



If you receive the following error, go back to the server and grant the user BizInsight security rights, see "Assign BizInsight Security to Users" on page 140.



You are now ready to test the installation. Proceed to "Verify the BizInsight Installation".

Step 3: Verify the BizInsight Installation

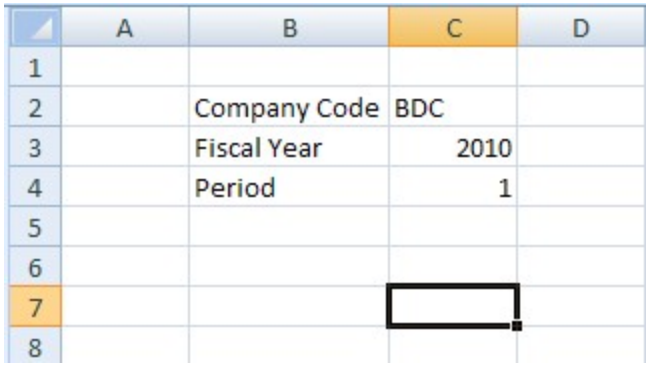
You must create or refresh an existing report to verify the BizInsight installation. If the user just installed is a Viewer or Drilldown user, you must verify the installation by refreshing a report that has already been created by a Designer user. Locate an existing report, open it in Excel and right-click on a cell and choose **BizNet Refresh**. If it refreshes without error, the installation is complete.

If an existing report does not exist, the following steps can be used to create a simple report with which to verify the installation.

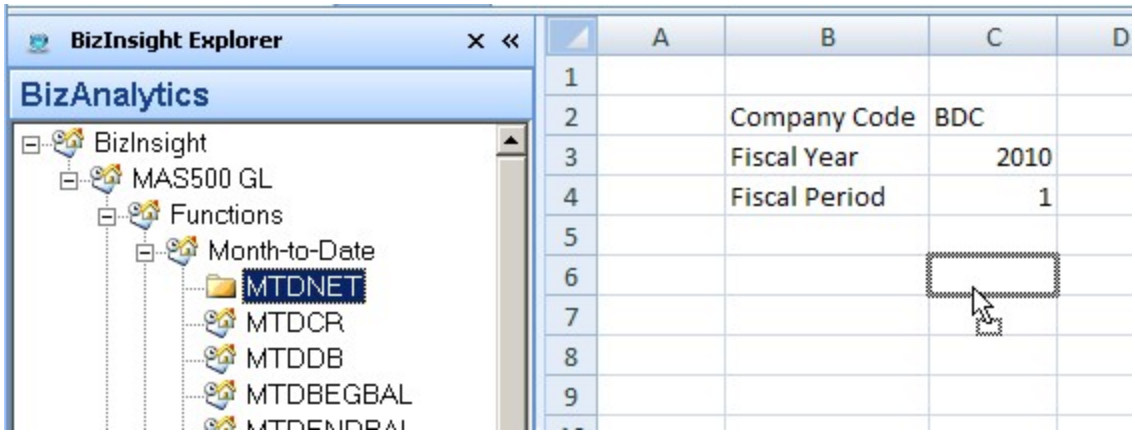
Note Your login id must be setup as a Designer user to be able to perform these steps; you may need to temporarily add your login as a Designer user using the Admin Tool to perform these steps. The Admin Tool can be accessed from the Content Installer interface on the server.

WARNING Do **not** add your own login using the Admin Tool unless you know for sure that you have another login available with sysadmin rights to the SQL Server instance. Early versions of the content installer (pre version 1.6) will remove existing permissions for users, including those with sysadmin rights. If uncertain, skip this step and confirm sysadmin access will not be lost then return to complete the Admin Tool step.

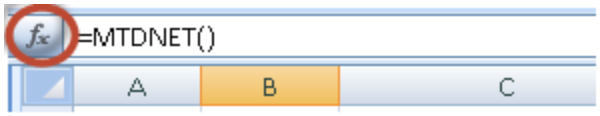
1. In separate cells in your Excel worksheet, type in a valid Company Code, Fiscal Year and Period.



2. In the Navigation Pane, expand ***YourContentPackName*** > **Functions** > **Month to Date**. Click on a **Net** function and drag it into a cell in the Excel worksheet.

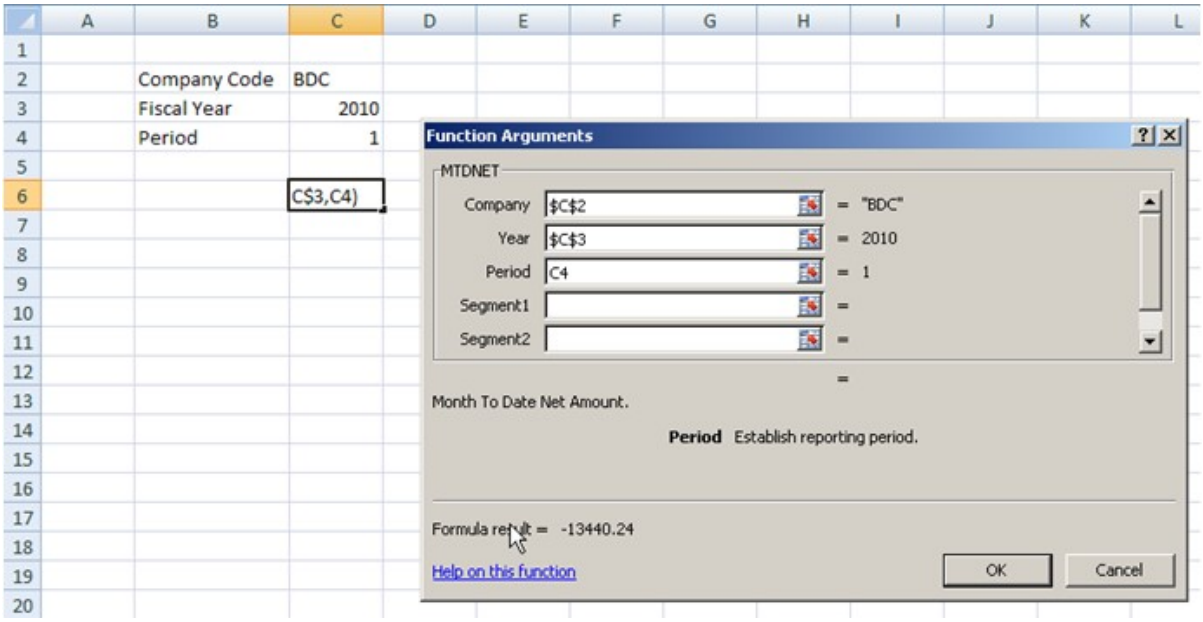


If the Function Arguments dialog does not automatically open, click on the Excel Insert Function button (*fx*)

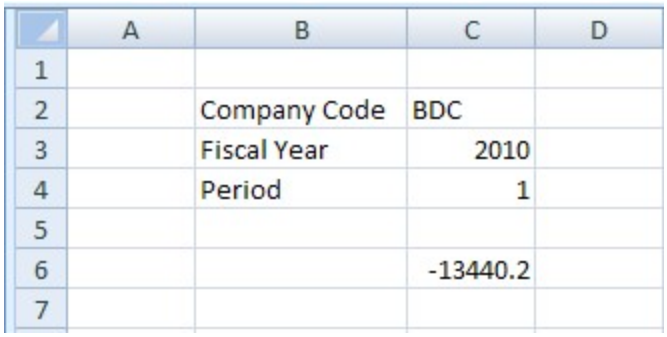


3. Click on the cells containing your input parameters and then click **OK**

.



4. If the function returns data or a zero, your installation and configuration are correct.



Once the installation is confirmed, save this report to a shared directory to use for verifying the installations of Viewer and Drilldown users. These users cannot add functions to reports so you will need an existing report that you can refresh to confirm there are no errors. To verify the installations for Viewer and Drilldown users, install and configure , open this report, right-click and choose Refresh.

Appendices

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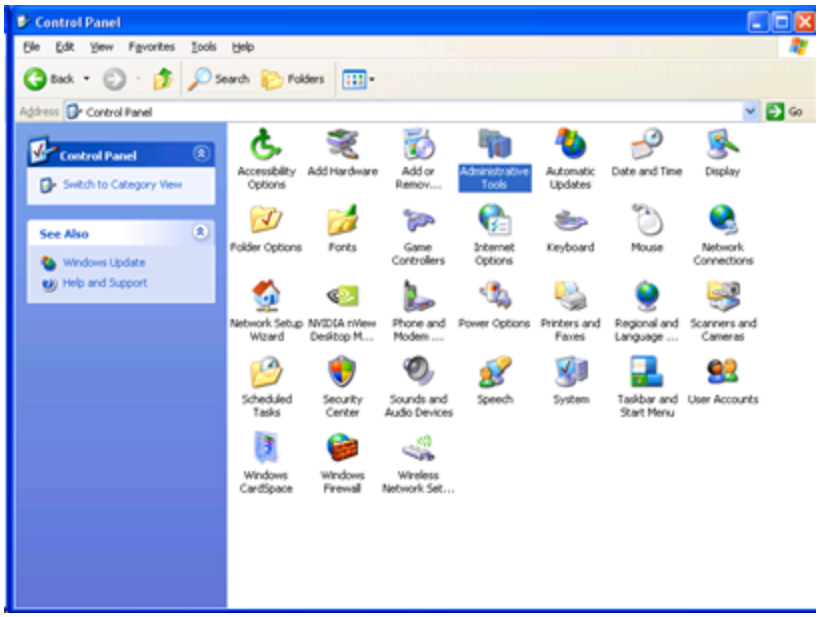
Adjusting the Sage 100 ODBC paths

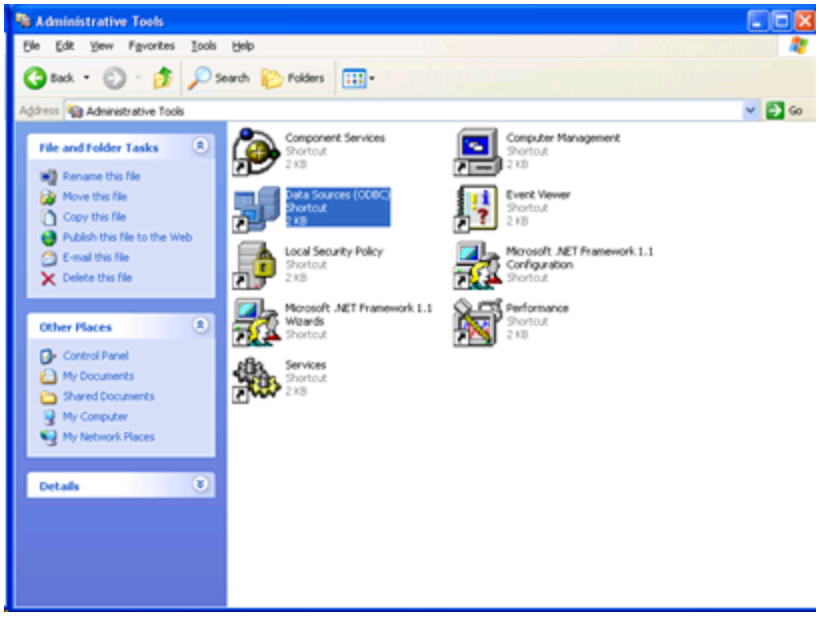
The Content Installer retrieves the paths to the Sage 100 company data directories from the SOTAMAS90 ODBC data source. If the paths in that data source are UNC or mapped drive paths, they must be changed in order for BizInsight to be able to retrieve data from the Sage 100 companies.

1. Click on **Start** > **Control Panel** to open the Control Panel. Double-click on **Administrative Tools**.

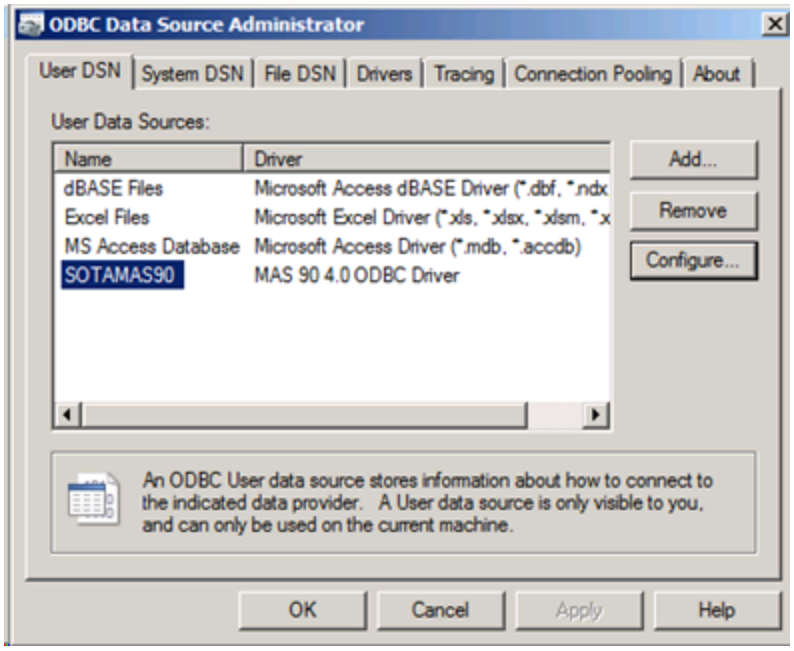


IMPORTANT For Sage 100 implementations that are using the 32-bit ODBC driver on 64-bit hardware, the 32-bit ODBC manager must be run from the %systemdrive%\Windows\SysWoW64 directory. Double-click the Odbcad32.exe and continue to the next step.

2. Double-click **Data Sources (ODBC)**.

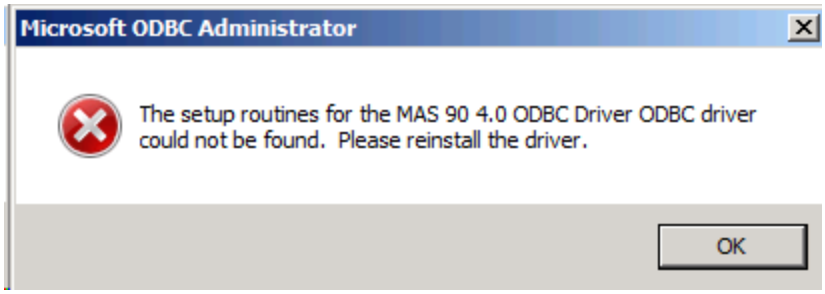


3. On the **User DSN** tab, select the **SOTAMAS90** data source and click **Configure**.

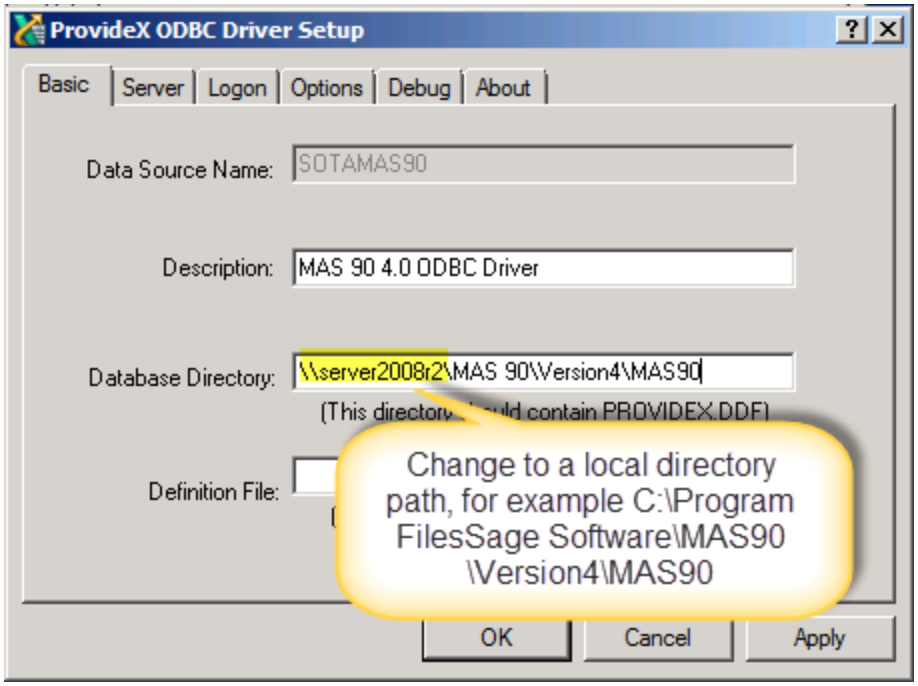


If you get the following error, you are in the 64-bit ODBC administrator and the ODBC driver is 32-bit and must be managed using the 32-bit ODBC administrator tool. Refer to

the note earlier in this section for information on where to find the 32-bit ODBC administrator tool.



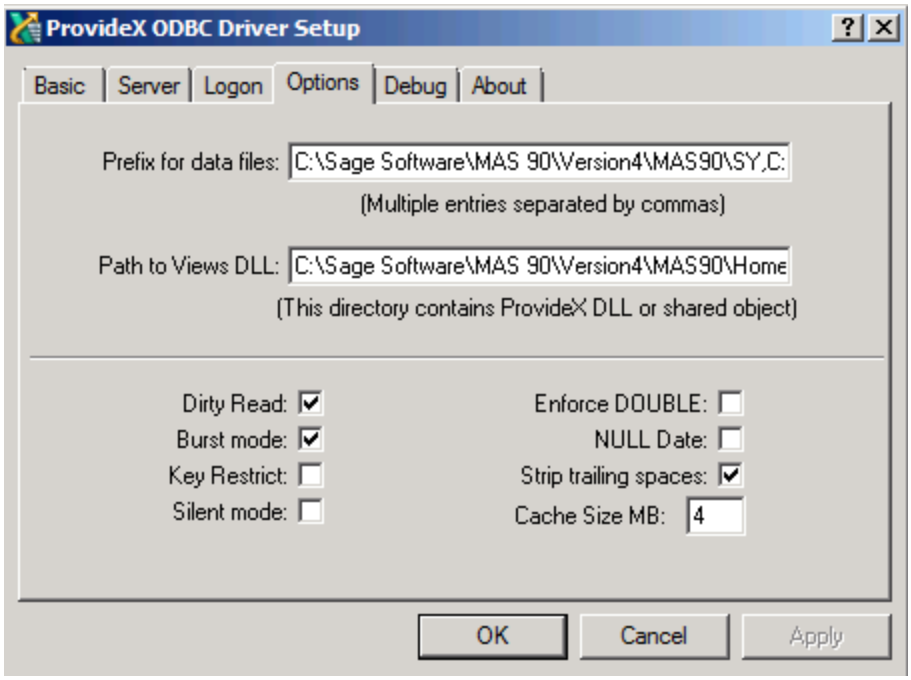
4. Change the **Database Directory** field from the UNC path (or mapped drive path) to the local directory location of the Sage 100 data.



5. On the **Options** tab, change the paths to the Sage 100 ERP system files to local directories.

   Prefix for data files: [*Sage100 database directory path*]**\SY\;**[*Sage 100 database directory path*]**\==**

   Path to Views DLL: [*Sage 100 database directory path*]**\Home**

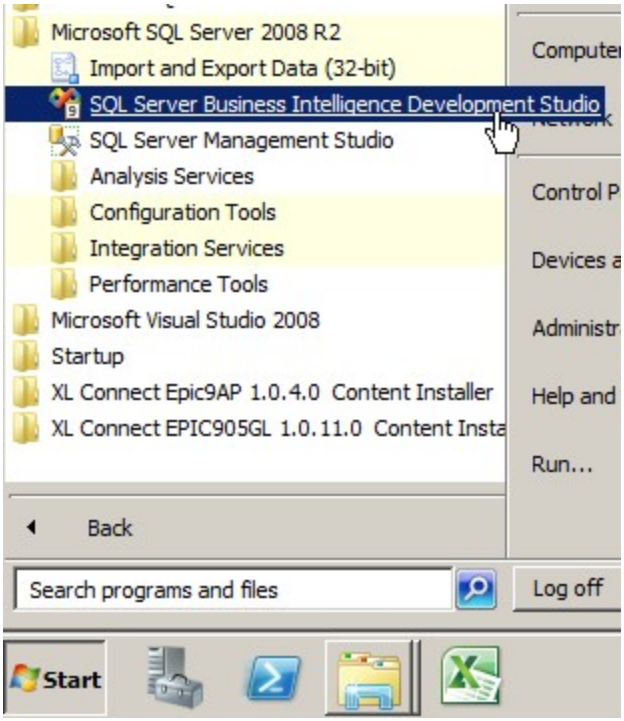


6. Click **OK** to save these settings.
7. Restart the Content Installer and restart the automatic installation.

Manually Deploying Content Reporting Services Reports

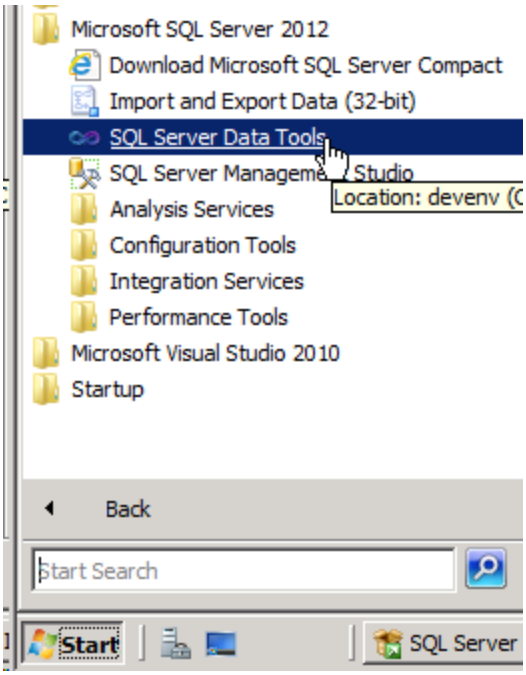
If the content installer does not detect your existing reporting services installation, it may be necessary to manually deploy the reporting services reports.

1. Run the content installer setup.exe to lay down the content files.
2. On the server where Reporting Services is installed (you'll have to make sure that it is installed and configured), open SQL Server Business Intelligence Development Studio.



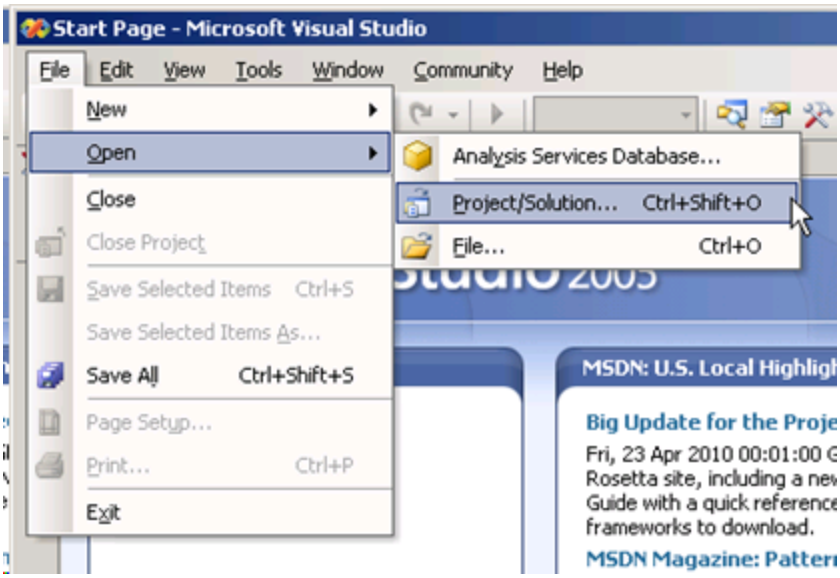
or **Microsoft SQL Server 2012** > **SQL Server Data Tools**

Note The SQL Server Data Tools for BI ("SSDT BI") is a separate download for SQL Server 2014.

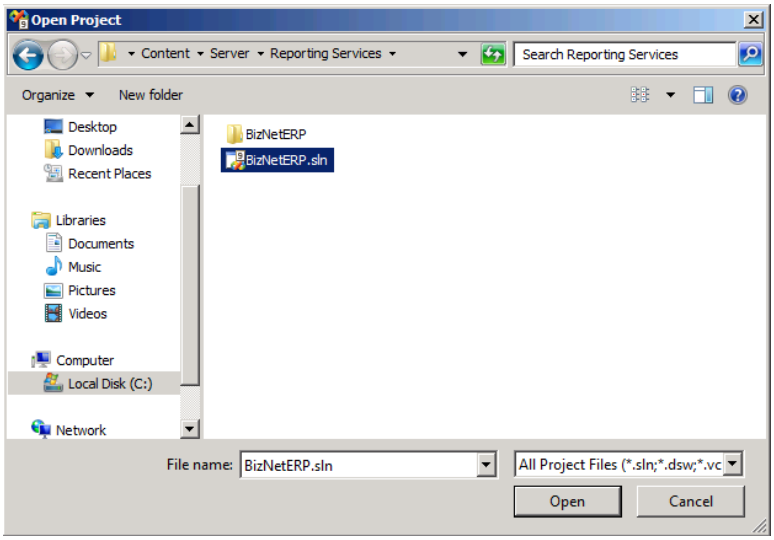


IMPORTANT If your server operating system is Windows Server 2008 or higher and User Account Control is enabled, Ctrl+Shift+Right-click on SQL Server Business Intelligence Development Studio (or SQL Server Data Tools) and choose "Run as administrator".

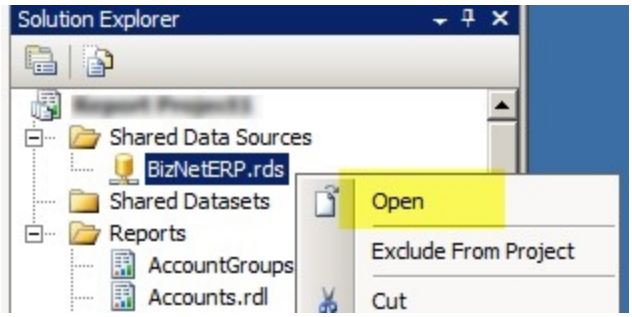
3. Click on **File** > **Open** > **Project/Solution**



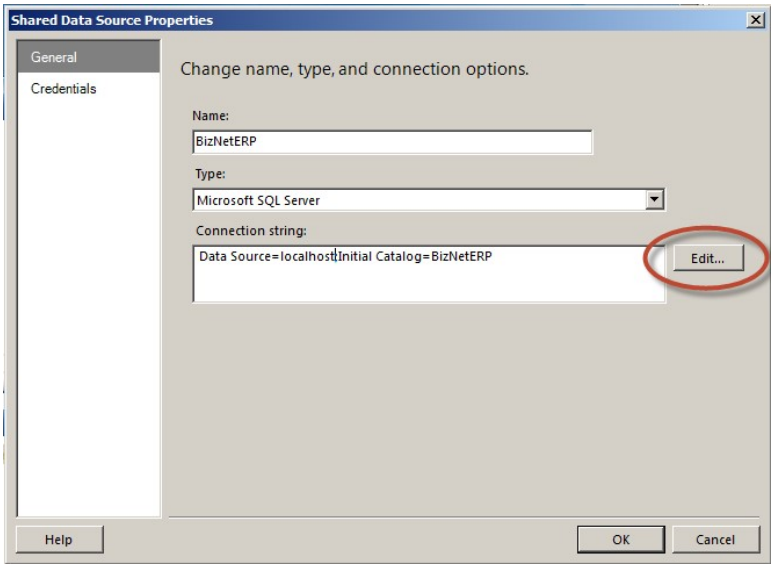
4. Browse to the directory to which the content was installed, locate the Reporting Services folder and select the .sln file. If one does not exist, select the .rptproj file.



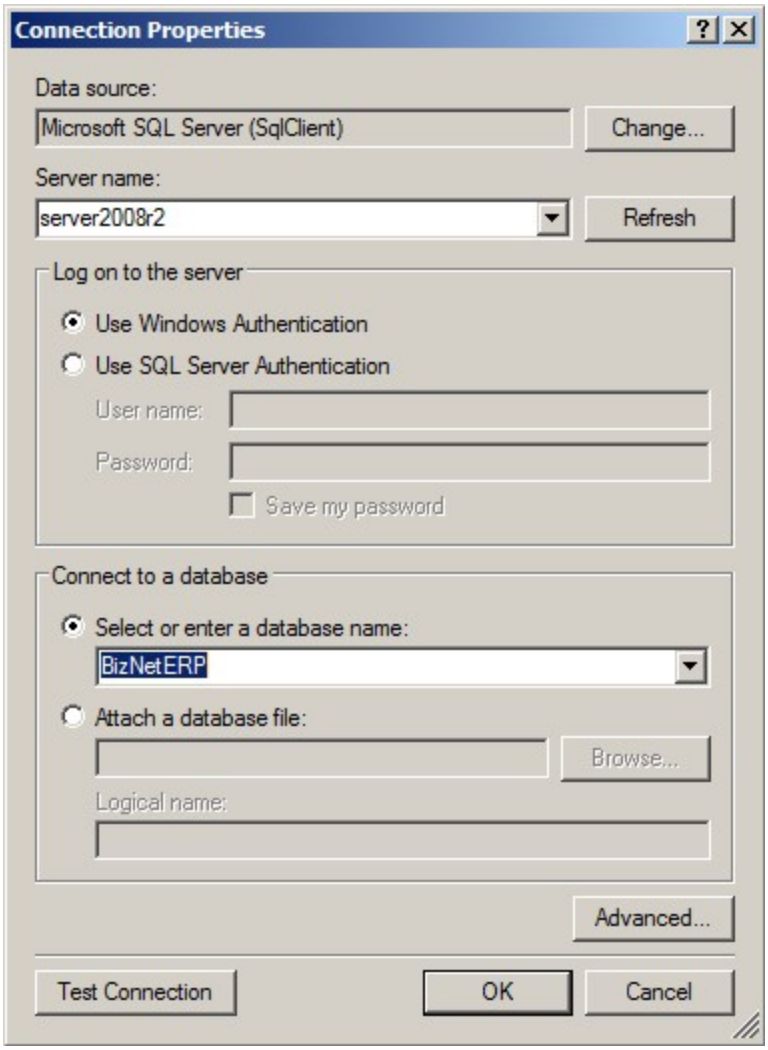
5. Right-click on the shared data source and choose **Open**.



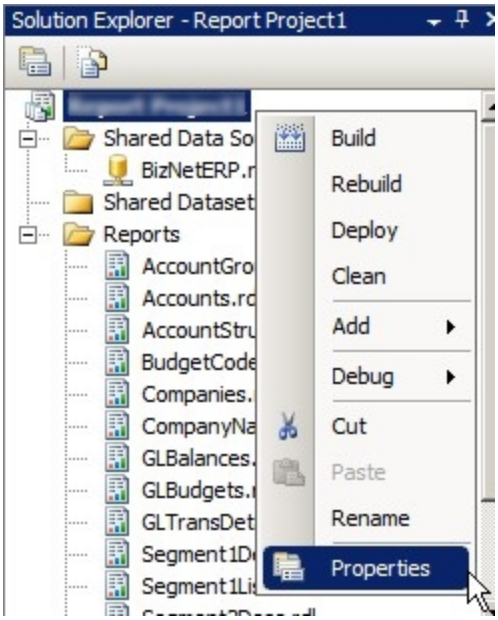
6. Click on **Edit**.



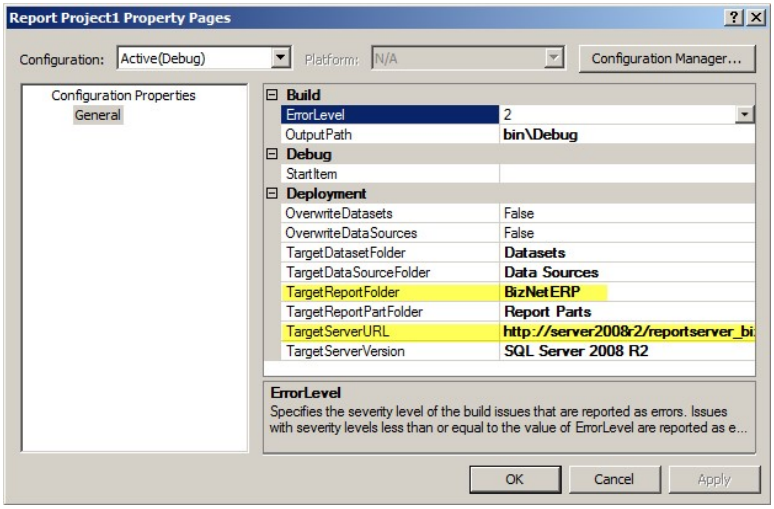
7. Enter the accounting system database server name (and instance name if applicable) in the **Server name** field. Select the accounting system database from the database drop down list. If your accounting system uses a system or control database, select that database instead of a specific company database. Once configured, click **OK**.


Connection Properties
Data source:
Microsoft SQL Server (SqlClient)
Change...
Server name:
server2008r2
Refresh
Log on to the server
Use Windows Authentication
Use SQL Server Authentication
User name:
Password:
Save my password
Connect to a database
Select or enter a database name:
BizNetERP
Attach a database file:
Browse...
Logical name:
Advanced...
Test Connection
OK
Cancel

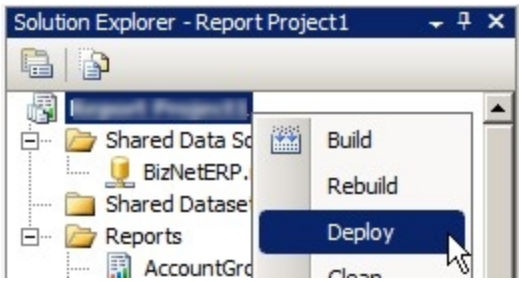
8. In the Solution Explorer, right-click on the top level and choose **Properties**.



9. Fill in the **TargetReportFolder** field with your preferred default folder name and complete the **Target Server URL** field with the reporting services ***web service*** url. Click **OK**.

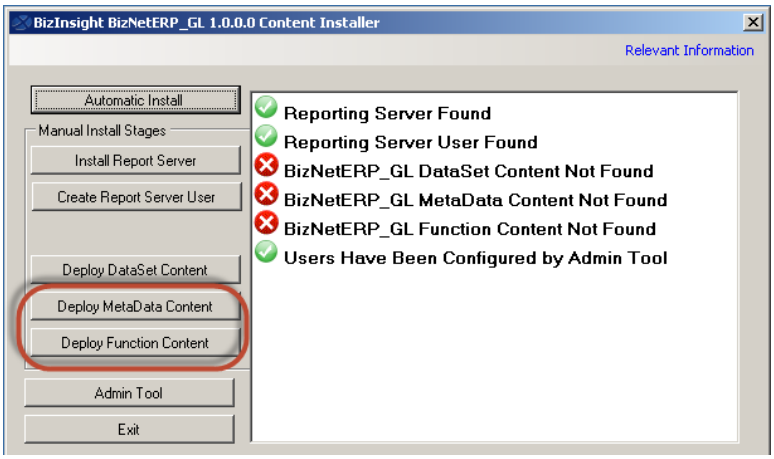


10. Right-click on the top level in the Solution Explorer and choose **Deploy**.



11. Once the RDLs are deployed, double-click on the content installer icon on the desktop.

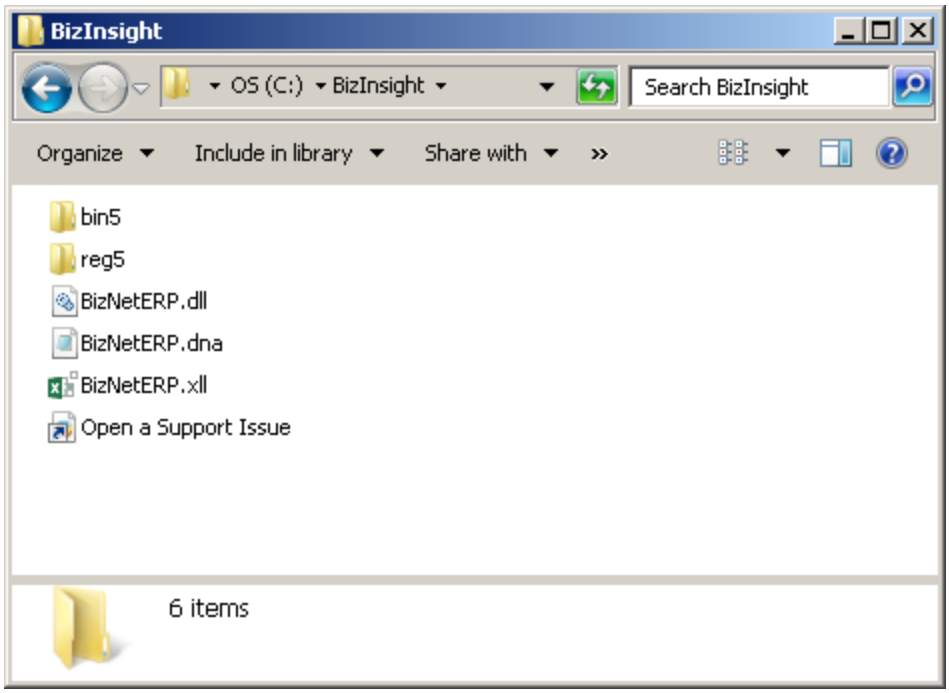
12. Run the **Deploy MetaDataConten**t and **Deploy Function Content** options in the Manual Install Steps section to complete the content pack installation.



Manually Installing BizContent Add-ins

If you are using a BizInsight version that is older than , you will need to register the BizContent add-ins manually in Excel. BizNet Software recommends upgrading to the latest BizInsight version but if that is not possible, perform the following steps:

1. Browse to the BizInsight shared directory and copy the content add-in files (.dll, .xll and .dna) to the directory to which you installed the BizInsight client. If you are using separate config and admin folders, the client add-in files will be in the config folder.

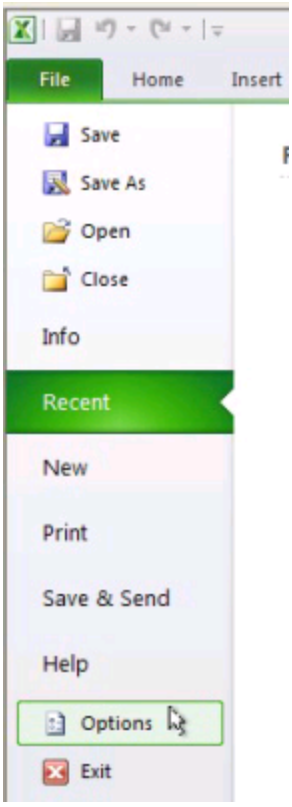


The remaining steps vary based on the Office version installed:

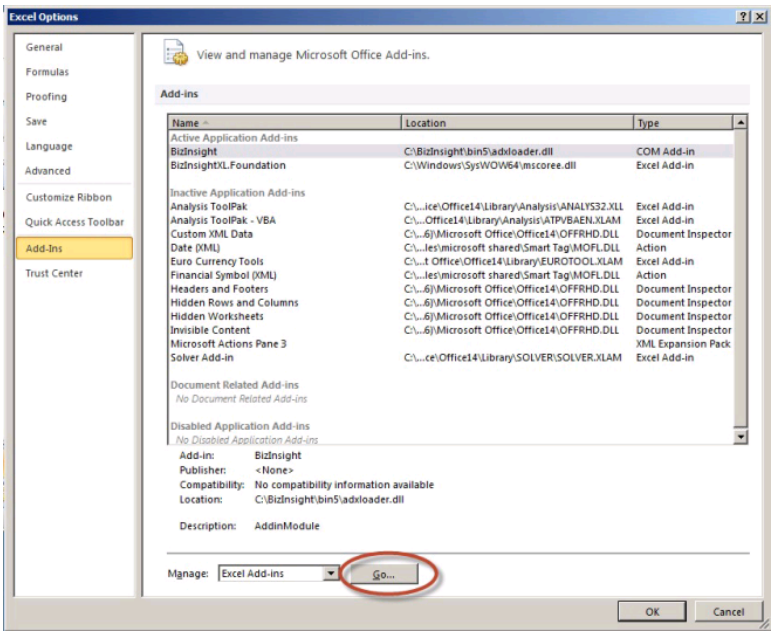
Office 2010/2013 steps
Excel 2007 steps
Excel 2003 steps

Excel 2010/2013

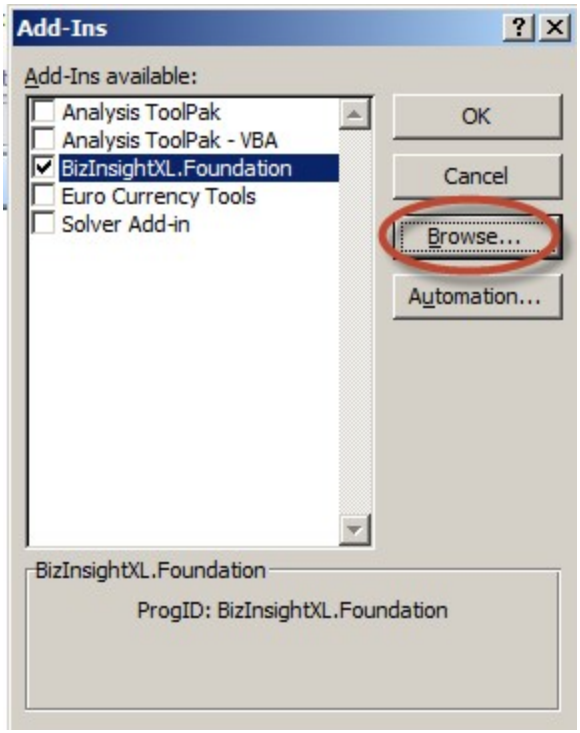
1. Click on **File** > **Options.**



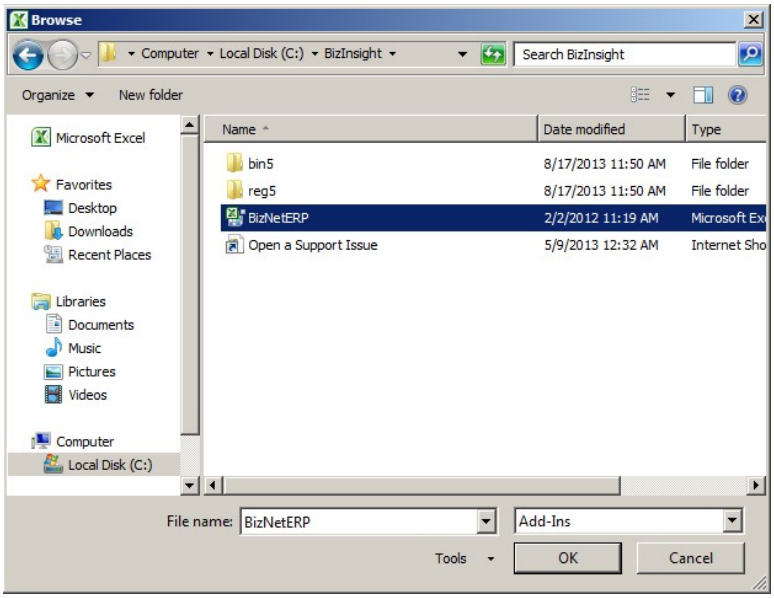
7. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



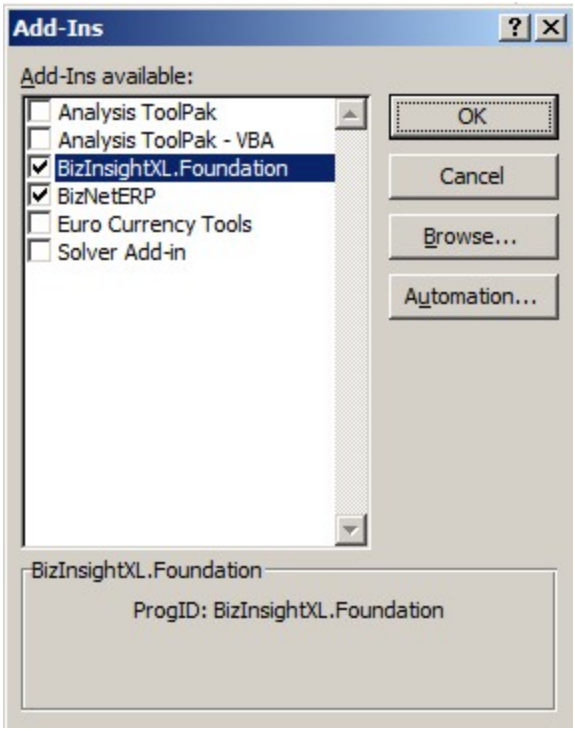
2. In the Add-ins dialog, click on the **Browse** button.



3. Browse to the directory to which you installed BizInsight and select the .xll file in that directory. Then click **OK**.



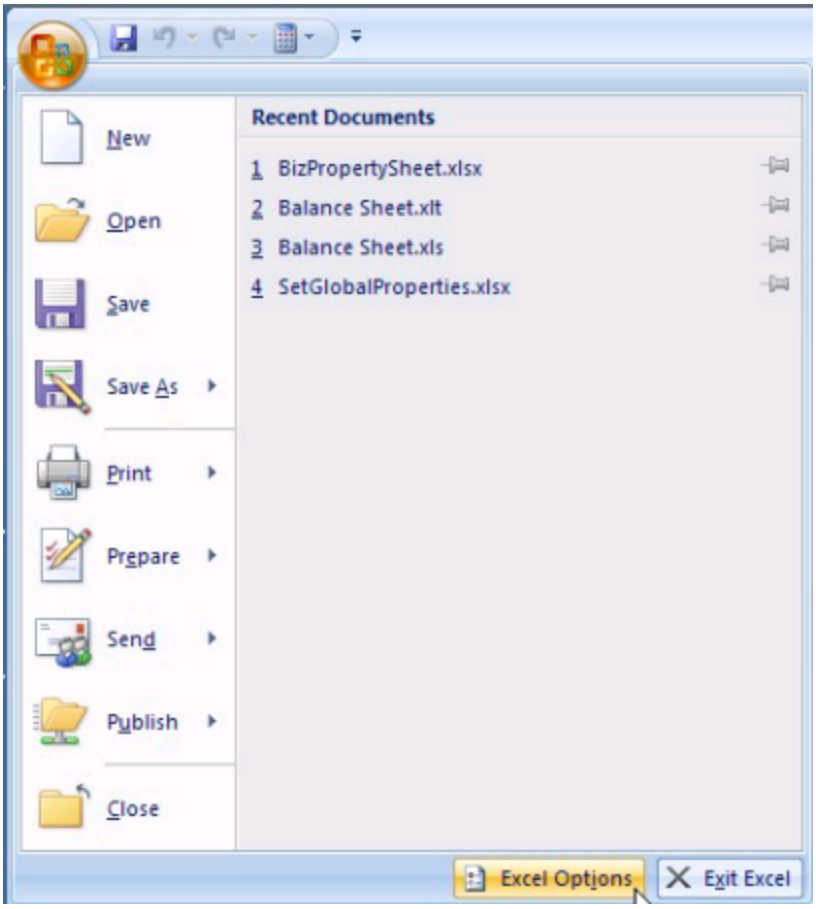
The Add-ins dialog should now look like the following:


Add-Ins
Add-Ins available:
Analysis ToolPak
Analysis ToolPak - VBA
BizInsightXL.Foundation
BizNetERP
Euro Currency Tools
Solver Add-in
OK
Cancel
Browse...
Automation...
BizInsightXL.Foundation
ProgID: BizInsightXL.Foundation

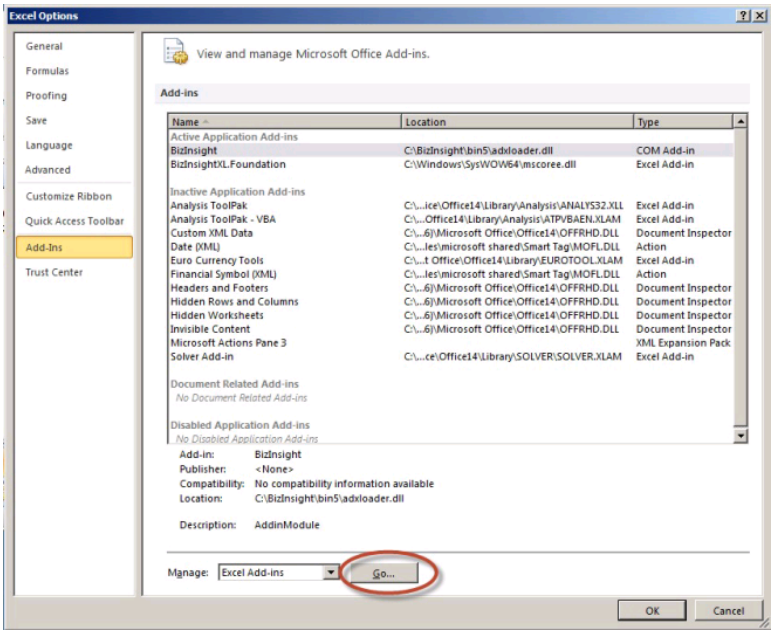
4. Click **OK**.

Excel 2007

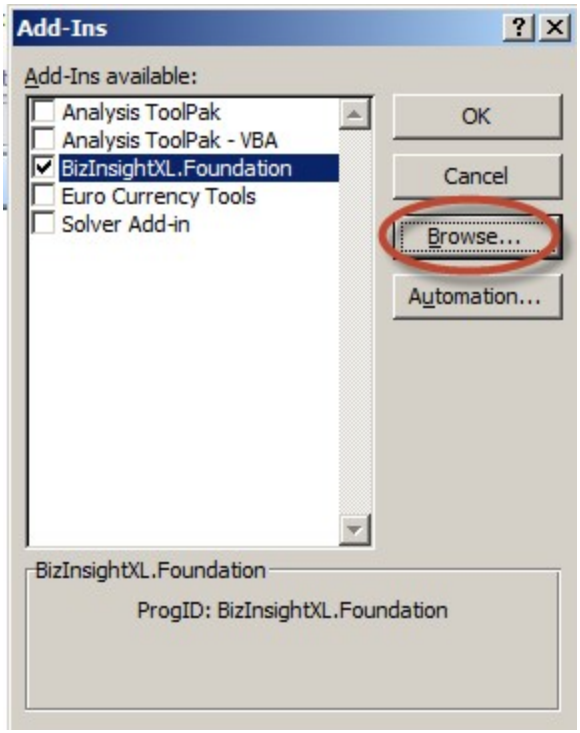
1. Click on the **Office** button and then click on the **Excel Options** button.



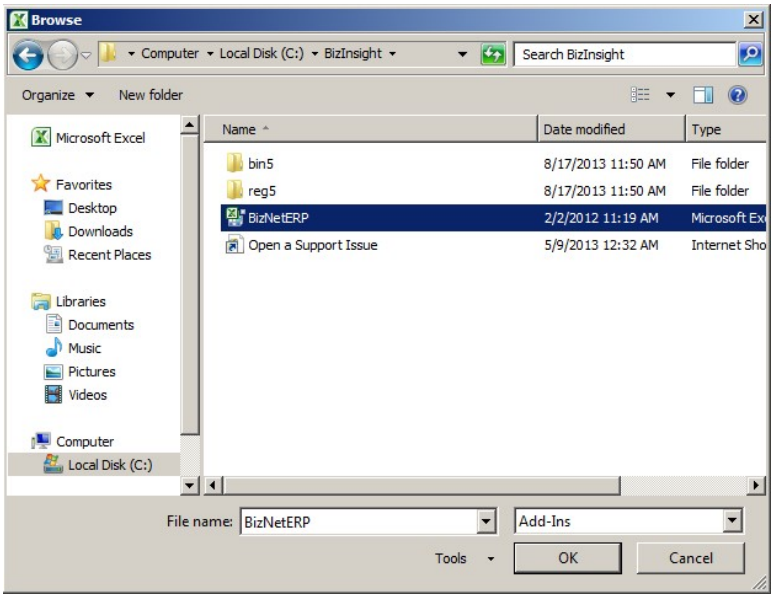
2. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



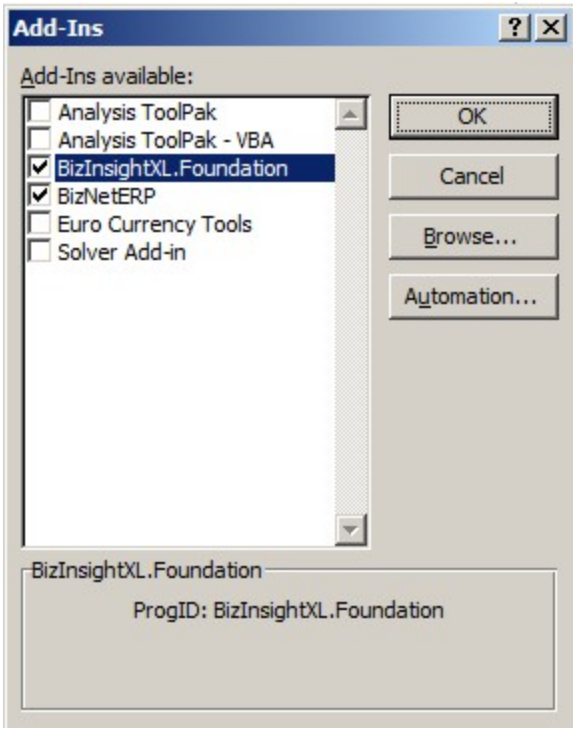
3. In the Add-ins dialog, click on the **Browse** button.



4. Browse to the directory to which you installed BizInsight and select the .xll file in that directory. Then click **OK**.



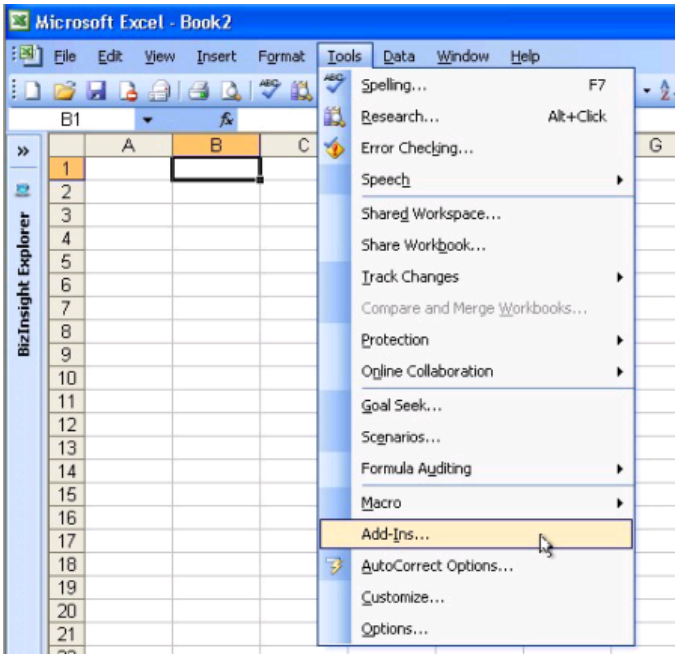
The Add-ins dialog should now look like the following:


Add-Ins
Add-Ins available:
Analysis ToolPak
Analysis ToolPak - VBA
BizInsightXL.Foundation
BizNetERP
Euro Currency Tools
Solver Add-in
OK
Cancel
Browse...
Automation...
BizInsightXL.Foundation
ProgID: BizInsightXL.Foundation

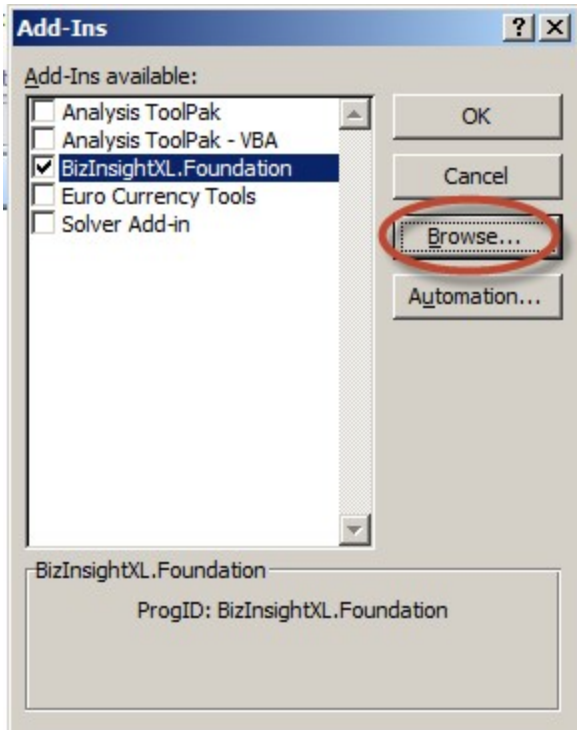
5. Click **OK**.

Excel 2003

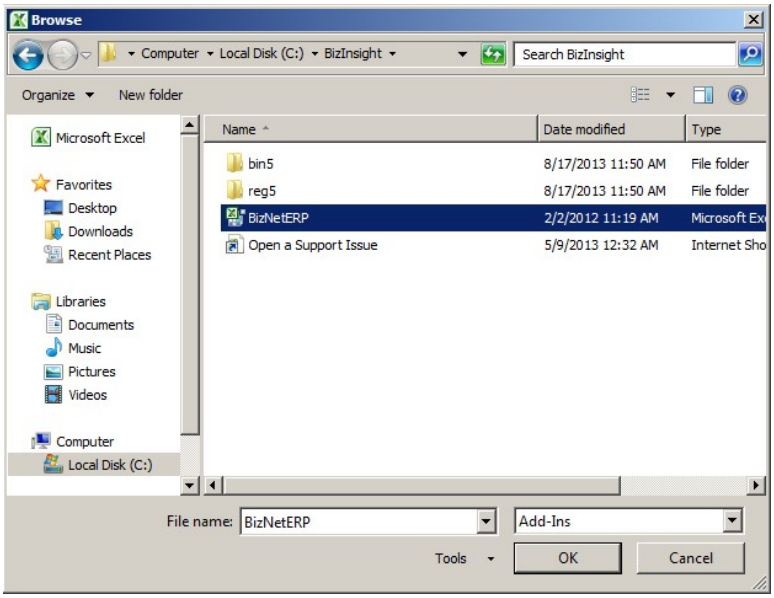
1. Click on **Tools** > **Add-Ins**



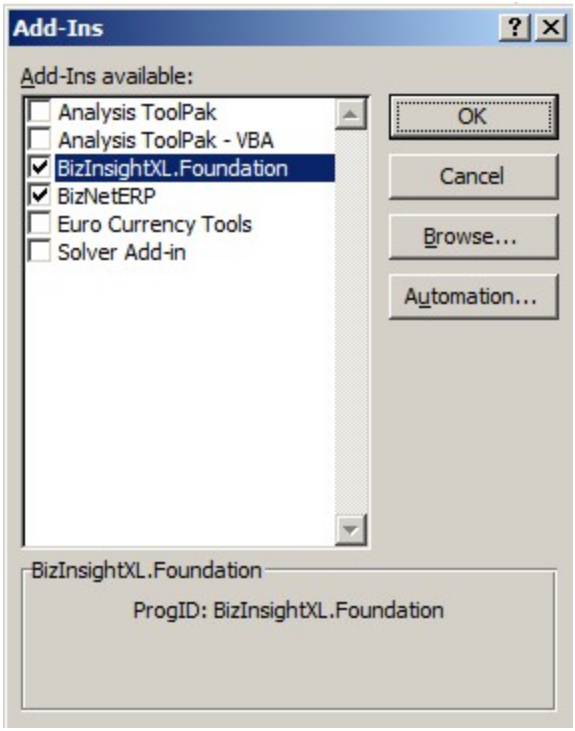
2. In the Add-ins dialog, click on the **Browse** button.



3. Browse to the directory to which you installed BizInsight and select the .xll file in that directory. Then click **OK**.



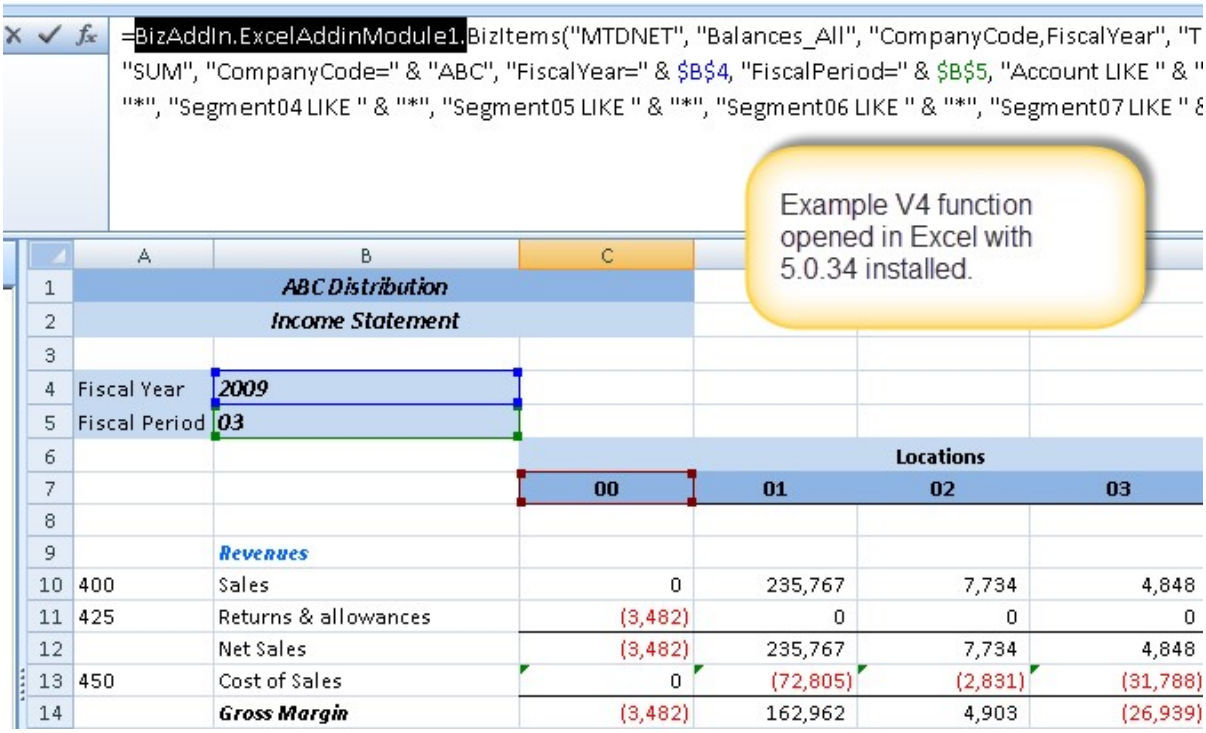
The Add-ins dialog should now look like the following:


Add-Ins
Add-Ins available:
Analysis ToolPak
Analysis ToolPak - VBA
BizInsightXL.Foundation
BizNetERP
Euro Currency Tools
Solver Add-in
OK
Cancel
Browse...
Automation...
BizInsightXL.Foundation
ProgID: BizInsightXL.Foundation

4. Click **OK**.

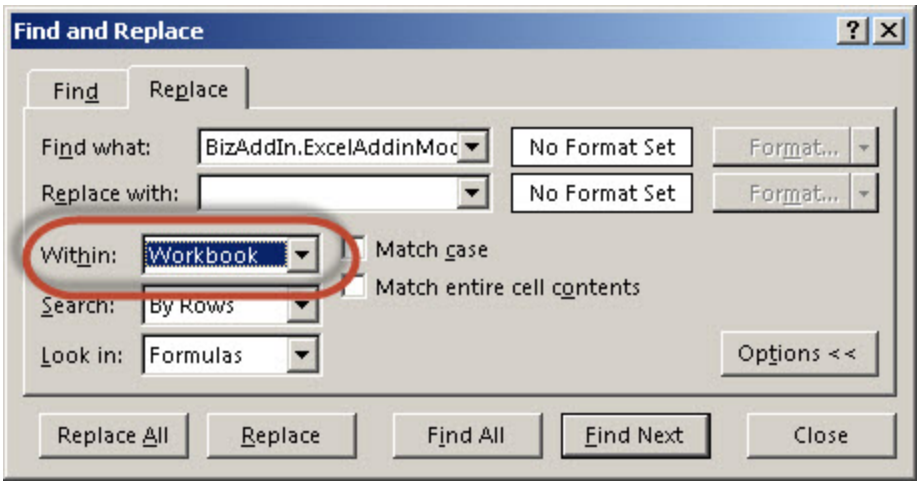
Converting V4 Reports to BizInsight 5.0

This version allows V4 customers to run their existing reports in 5.0 without the need to re-write their reports immediately. Customers are strongly urged to re-write their reports in order to be able to drill down on functions and take advantage of any new 5.0 capabilities not available with V4 functions. In addition, V4 customers who move to V5 will not benefit from the performance improvements made to the product unless V4 functions are converted to V5 functions.



	A	B	C			
1		ABC Distribution				
2		Income Statement				
3						
4	Fiscal Year	2009				
5	Fiscal Period	03				
6			Locations			
7			00	01	02	03
8						
9		Revenues				
10	400	Sales	0	235,767	7,734	4,848
11	425	Returns & allowances	(3,482)	0	0	0
12		Net Sales	(3,482)	235,767	7,734	4,848
13	450	Cost of Sales	0	(72,805)	(2,831)	(31,788)
14		Gross Margin	(3,482)	162,962	4,903	(26,939)

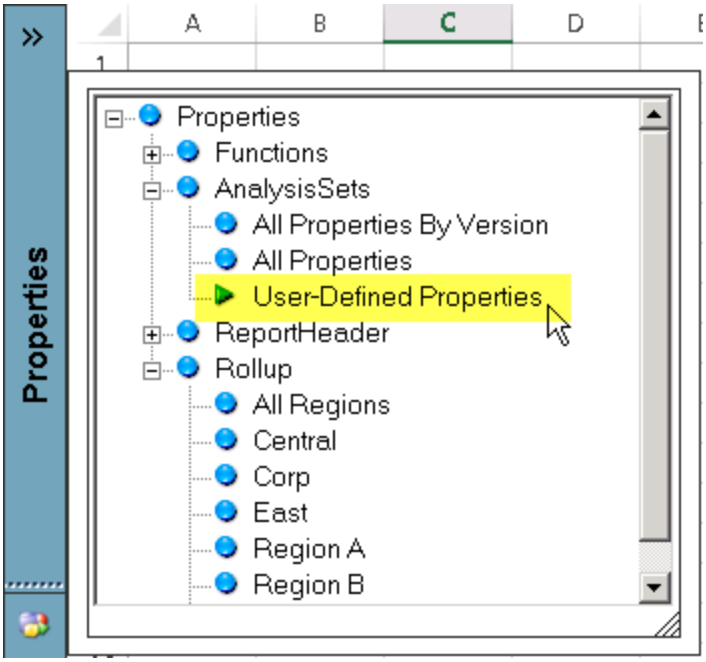
Customers upgrading to a 5.0 version of BizInsight from V4 will have to search for "BizAddIn.ExcelAddinModule1." and replace with nothing for their reports to run in the newer BizInsight version. The user's BizFunctions.xml must be copied to the content share directory that contains the 5.0 content client files (.dll, .dna, .xll). When searching your workbook, be sure to change the scope of your search from "Sheet" to "Workbook" to find all occurrences.


Find and Replace
Find
Replace
Find what:
BizAddIn.ExcelAddinMod
No Format Set
Format...
Replace with:
No Format Set
Format...
Within:
Workbook
Match case
Match entire cell contents
Search:
By Rows
Look in:
Formulas
Options <<
Replace All
Replace
Find All
Find Next
Close

OptimizeCache Adjustments

Most content packs come with special BizProperty settings named OptimizeCache. These properties establish what column to index for each in memory data cache and are essential for optimal report refresh times. We strive to design our content packs for the majority of customers. Given the flexibility provided by many accounting systems regarding account mask design, the differences in accounting system usage from customer to customer as well as individual report design differences, the default configuration may not be optimal for all customers and thus may need to be tuned for your specific use of your accounting system. As an example, we might optimize on Segment1 with the expectation that the natural account is in Segment1. Customers for whom their natural is not in Segment1 will need to adjust their OptimizeCache properties for the appropriate location of their natural account in their account masks.

Use the **User-Defined Properties** analysis set on the Properties menu to list any OptimizeCache properties that may exist for your implementation. For information on how to access the User-Defined Properties analysis set, see the section titled "Navigation Pane" in the User Guide.



If you feel you need to tune your BizInsight implementation, please refer to the document titled "*Report Performance Guide*" for instructions on how to optimize your in-memory caches.

BizInsight Column Based Security Overview

Disclaimer:

The following information is for general purposes only. The information is provided by BizNet Software and while we strive to keep the information up to date and accurate, we make no representations or warranties of any kind, express or implied, about the accuracy or reliability with respect to our internal research contained in this documentation. Any reliance you place on such information is therefore strictly at your own risk.

In no event will BizNet Software, Inc or BizNet Software, Inc. be liable for any loss or damage including without limitation, indirect or consequential loss or damage, or any loss or damage whatsoever arising from loss of data or profits arising out of, or in connection with, the use of the documentation.

In any ERP system, the balance between making data accessible to end users while denying access to those who should not have access is a difficult challenge. ERP security only at the application layer is not a truly secured system; the communication between the application and the data is exposed to users who are not authorized to access confidential information. BizNet Software has incorporated four layers of security into the BizInsight product. These security levels are as follows:

1. BizInsight License User Types Security
2. DataSet Security – applies to RDL security on the Report Server.
3. MetaData Security – applies to SQL Database and Shared Directory folder.
4. Column Security – applies to all functionality on content packs. (Functions, Drill-downs, and Analysis Sets)

Of the above four security levels, two are specifically provided with the BizInsight product: BizInsight License User Types Security and Column Security. The other two items, DataSet Security and MetaData security, utilize the native security model provided with Reporting Services, SQL Server,and Windows NTFS security.

BizInsight uses Reporting Services to store the queries and datasets used for connectivity to the accounting system. Reporting Services provides its own security and BizInsight objects can be

independently secured using the delivered Reporting Services security model. Users must be granted access to the BizInsight objects published to Reporting Services in order to utilize them.

BizInsight uses SQL databases (BizInsight and BizInsightDB) to store product metadata. BizInsight users must be provided access to these databases using native SQL Server security. In addition, the BizInsight shared directory is also a metadata repository and sufficient Windows NTFS security.

BizInsight License User Types Security

This security level ensures that only licensed users are able to use the BizInsight product. In addition, BizInsight licensing is broken out into different user types: . The different user types have decreasing capabilities with the Designer user having the most capabilities. See the User Guide for more information regarding the different user types and their capabilities.

Column Security

Column security is based on a security policy that specifies the rules and conditions under which a user can access a column value from a table. The column access restriction is based on individual user permissions. When defining the column to apply the restriction, the column must exist across all datasets from which BizInsight is retrieving data. In most business policies, restricting access by the “Company" column is the most frequently used security logic; however, BizInsight provides the flexibility to utilize other columns.

The column security design uses an optimistic method in restricting user access: IT administrators will need to provide the values to deny. Values not listed are inferred to be allowed. For example, if a user is permitted to access 97 out of 100 unique values, 3 restricted values will need to be defined when defining column security for that user. The remaining 97 values not defined in the security table will be able to be accessed by that user. All possible threats, vulnerabilities, and attacks and choosing the security design to implement are based on threat mitigation as first and performance second.

When column security is enabled and user restrictions are defined, access to the data will be restricted for the particular user. On the client machine, the user restriction policy applies to all content modules and functionality. Any access to functions, drill-down, and analysis set is denied if the restricted value is inserted in the feature. In the scenario of multiple parameters being passed to a function, if one of the parameter values is restricted, the security will deny access completely even though the user many have access to the non-restricted values.

Security vs Performance

Design choices for securing a system affect performance, scalability and usability. The more secure a system becomes, the more companies must compromise in terms of performance and usability. In selecting the best balance between security and performance, the optimistic security design has proven to be the ideal option. The below research and development results are based on BizNet Software internal testing and illustrate the impact security has on performance. Results will vary depending on network connection, environmental setup, and Microsoft Office bitness.

Scenario: Excel 2010 64-bit BizData Iterations - 80,688 Dedicated Server and Client Machine	First Refresh (sec)	Second Refresh (sec)	Offline Mode	Number of Restricted Values
Baseline: Security OFF on SQL Database	114.57	113.18	69.07	N/A
Security ON with no restricted users	111.4	109.38	75.18	0
Security ON and restricted values apply to the **current user**	118.81	114.61	74.16	1
Security ON and restricted values apply to the **current user**	124.54	119.9	80.14	6*
Security ON and restricted values apply to the **current user**	132.14	126.58	86.39	12*
Security ON and restricted values apply to **other users**	114.97	120.16	69.28	N/A
Security ON and restricted values apply to **all users**	124.64	119.29	79.16	N/A

* *Multiple restricted columns is not currently supported*

Key Results:

1. When Security mode is activated with no restricted values in the security table, little to no significant reporting performance loss.
2. When Security mode is activated with restricted values in the security table, there is about a 10% loss in reporting performance.

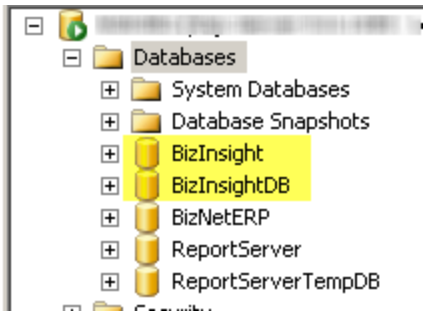
3. When Security mode is activated with double the amount of restricted values in the security table, there is about a double percentage loss in reporting performance.

Column Security Limitations

- Only a single column can be restricted. Multiple column security is not supported.
- The column must exist across all content packs.
- The column must exist as a server side parameter on RDLs. Security on optional parameters is not supported.
- The column name should be uniform across all RDLs.
- Connected to an single ERP. Multiple ERP systems are not supported.
- Security is based on an 'Exclusion Method'. IT administrators must insert values to restrict access.

Requirements to Use Column Security

- BizInsight 5.0.35.0 and later is installed on all client machines.
- Existing BizInsight and BizInsightDB databases created using a Content Installer and were created directly in SQL Server (not converted using the Access to SQL conversion tool).



- Reporting Services versions 2005*, 2008, 2008 R2, 2012 or 2014

  IMPORTANT Reporting Services 2005 requires additional files to be installed. IT administrators must install the prerequisite files in a particular order. Following is a link to a Microsoft article with links to the necessary download files.

  http://www.microsoft.com/en-us/download/details.aspx?id=16978

a. Install Microsoft® System CLR Types for SQL Server® 2008 R2

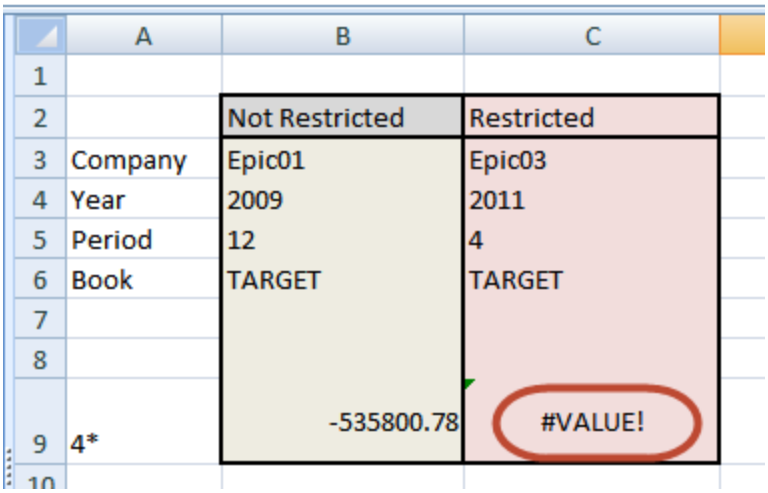
   The SQL Server System CLR Types package contains the components implementing the geometry, geography, and hierarchy id types in SQL Server 2008 R2. This component can be installed separately from the server to allow client applications to use these types outside of the server.

b. Install Microsoft® SQL Server® 2008 R2 Shared Management Objects

   The SQL Server Management Objects (SMO) is a .NET Framework object model that enables software developers to create client-side applications to manage and administer SQL Server objects and services. This object model will work with SQL Server 2000, SQL Server 2005, SQL Server 2008 and SQL Server 2008 R2.

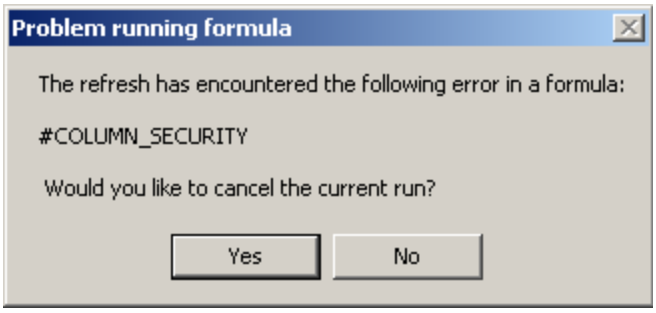
Column Security User Experience

When a user tries to access data to which they have been denied access, the cell will display #VALUE.



To confirm that the error is due to Column Security, check the event log by clicking on the **About** button on the BizInsight ribbon and then clicking on **Support Tools** > **View Events**. A #COLUMN_SECURITY error will be logged there if the #VALUE is due to restricted access.

If the user refreshes a report that tries to retrieve data for a company to which they have no access, an error message will be displayed indicating they have requested restricted data:



Analysis sets that try to retrieve restricted data will return #COLUMN_SECURITY:

Refer to the Installation Guide for instructions on implementing Column Based Security.

Assign BizInsight Security to Users

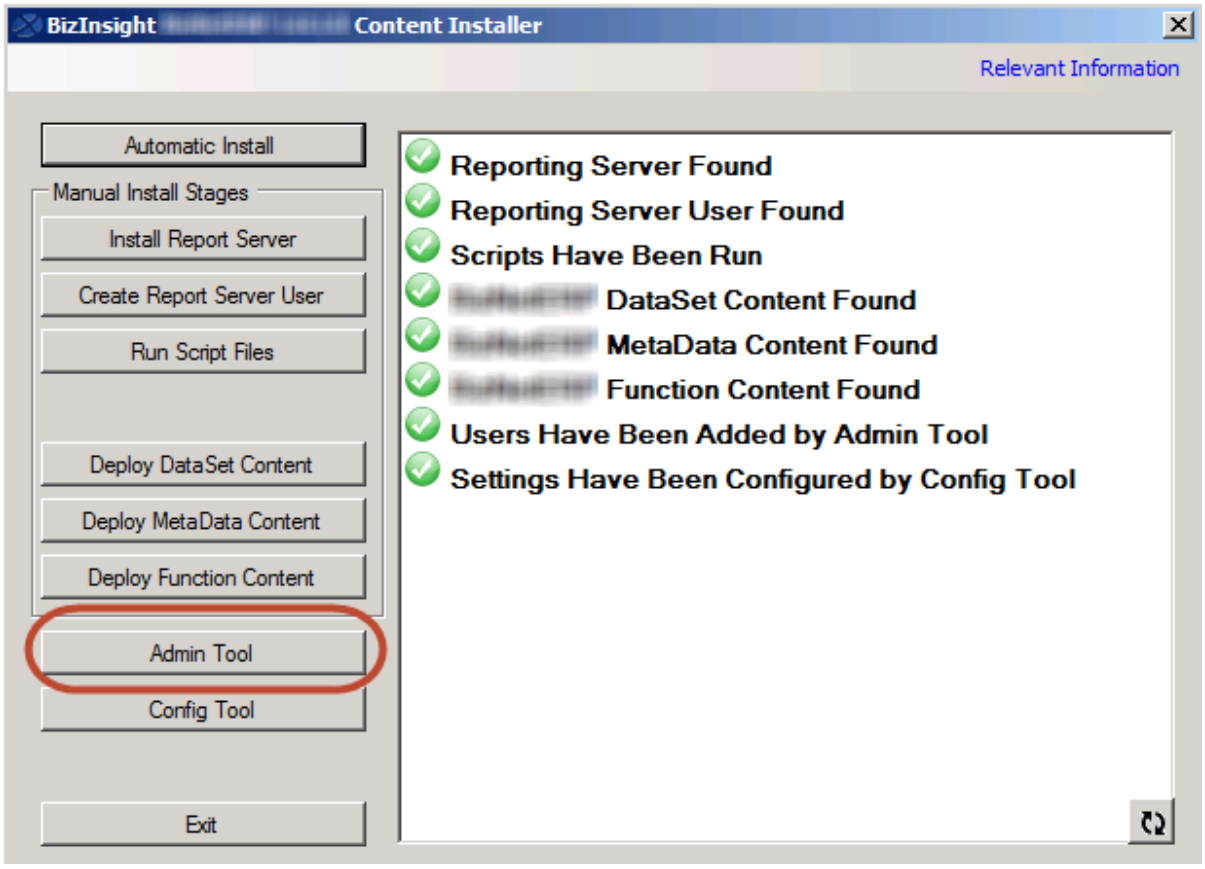
Each BizInsight user's Windows account name must be added to a .users file in the admin shared directory in order for that user to perform any BizInsight action. You will use the License Administration Tool to perform these steps.

To assign BizInsight security to your users, do the following:

1. On the server, double-click any content installer desktop icon. If the content installers were installed without desktop icons, browse to the installation directory and double-click the file named "BizNet Content Installer.exe". If the content installer was uninstalled, reinstall it.

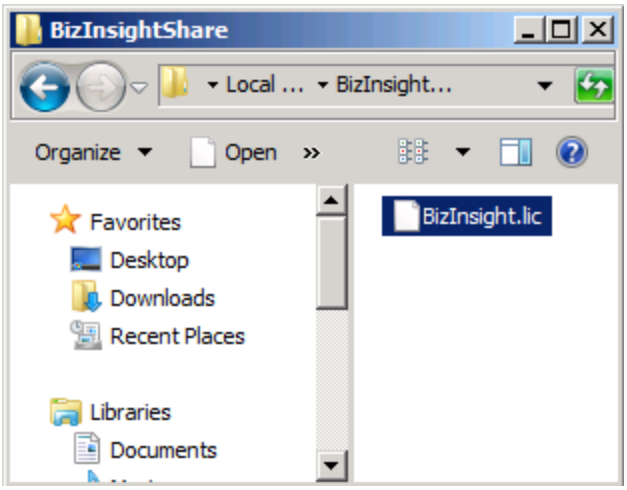
If you do not want to reinstall the content installer, see "Manual Steps" on page 146.

2. Click on the **Admin Tool** button.

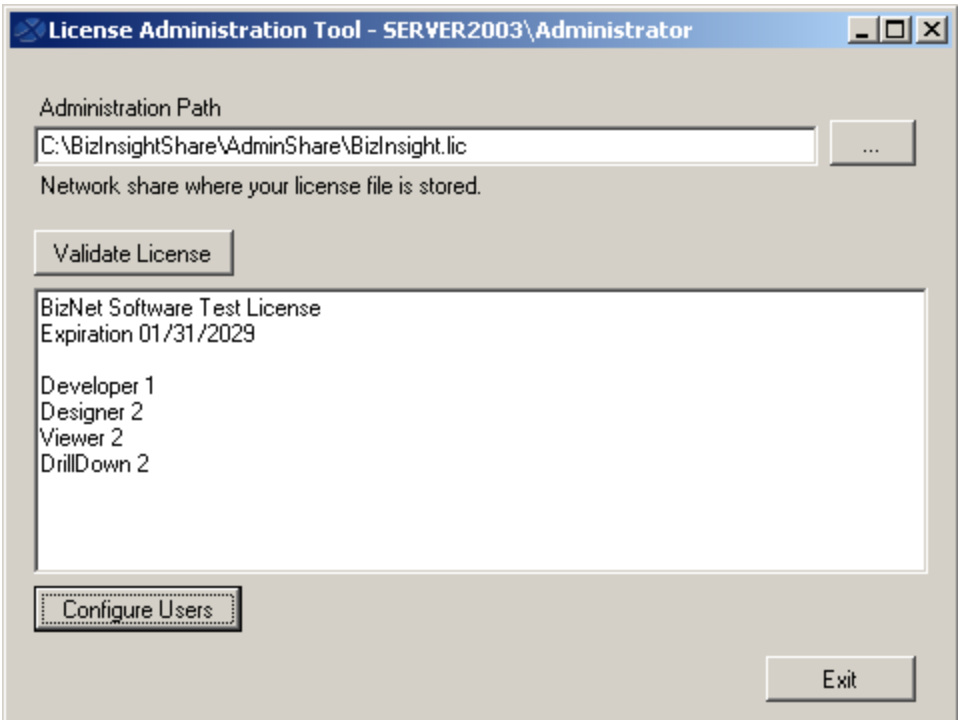


3. Click on the ellipses and browse to the admin share folder of your BizInsight shared directory.

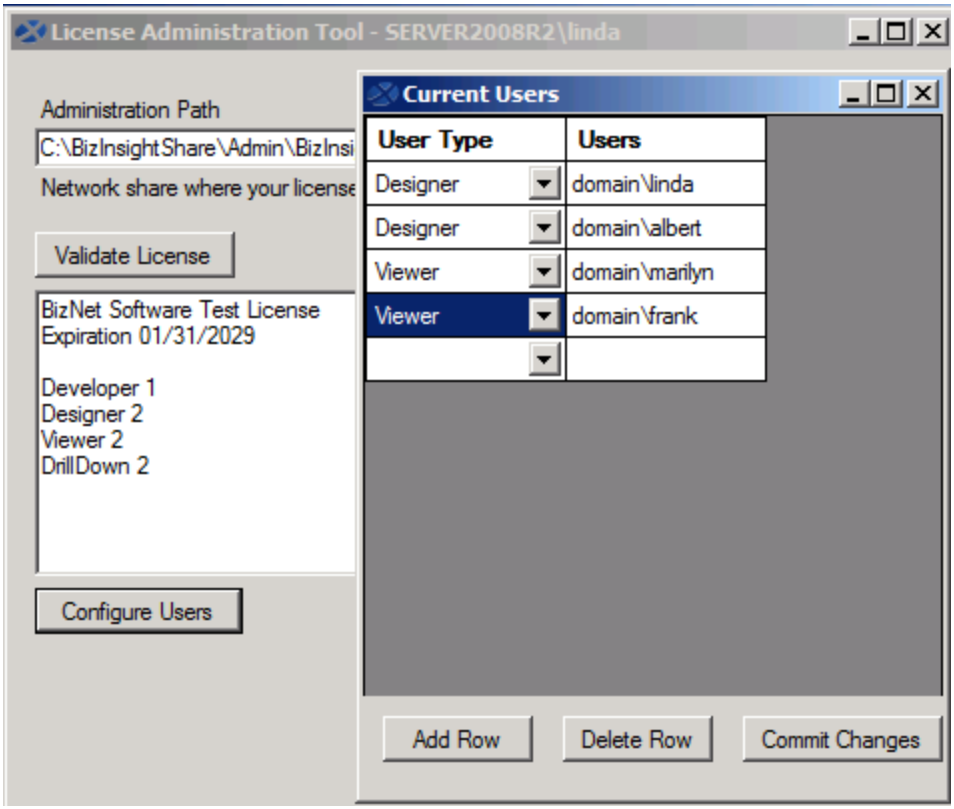
4. Select your BizInsight license file and click Open.



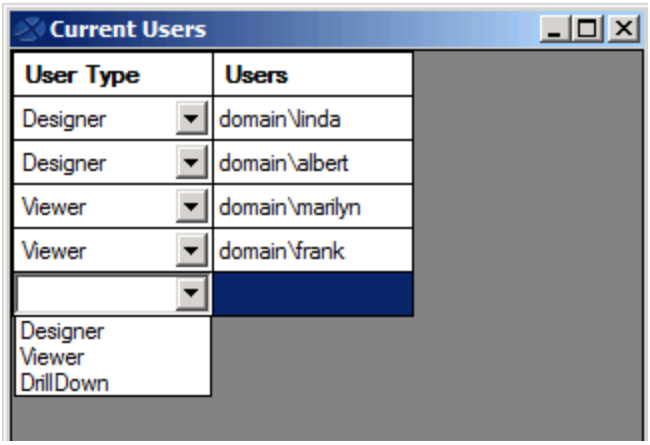
5. Click on the **Validate License** button to check how many licenses you currently have. Your current license count will be displayed.



6. Click on the **Configure Users** button. The **Current Users** dialog will open.

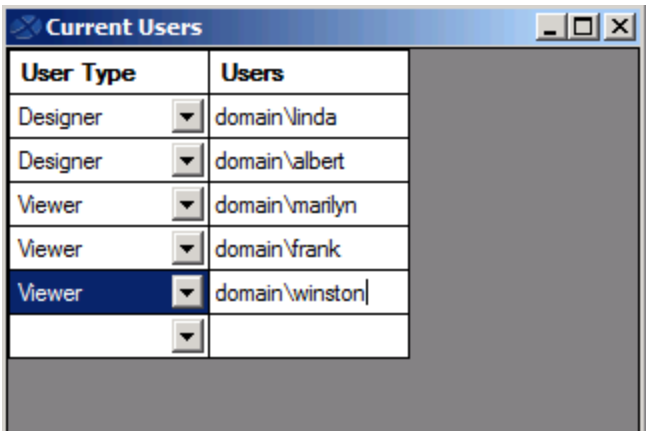


7. You will now add your new BizInsight user and assign them a user type. Click on the **User Type** drop down and select the desired user type. If you want your user to be a Designer, choose Designer from the drop down list.

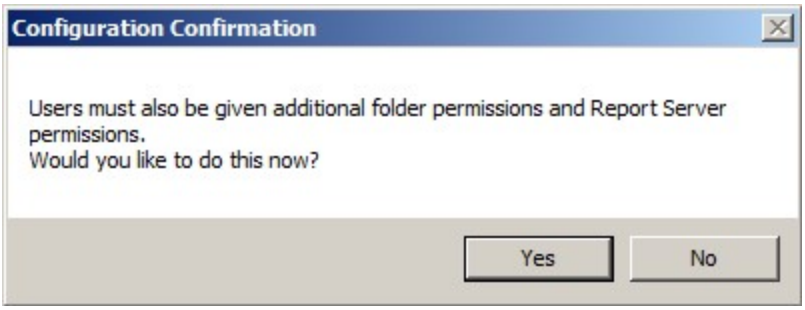


8. Type the user's name in the **Users** field in the format of domain\username.

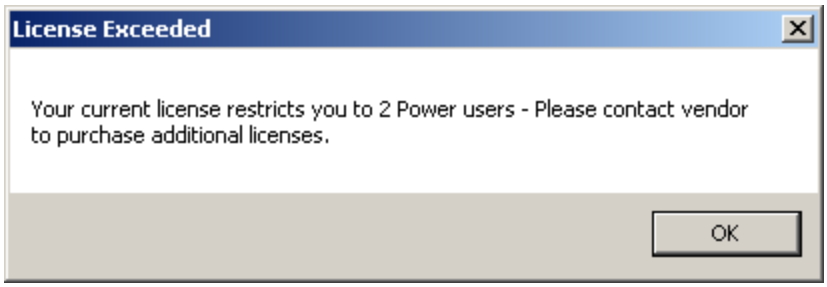
   WARNING Do **not** add your own login using the Admin Tool unless you know for sure that you have another login available with sysadmin rights to the SQL Server instance. Early versions of the content installer (pre version 1.6) will remove existing permissions for users, including those with sysadmin rights. If uncertain, skip this step and confirm sysadmin access will not be lost then return to complete the Admin Tool step.



9. Click on the **Commit Changes** button when finished. You will be presented with a message asking if you want to grant the user additional security permissions. Click **Yes**.

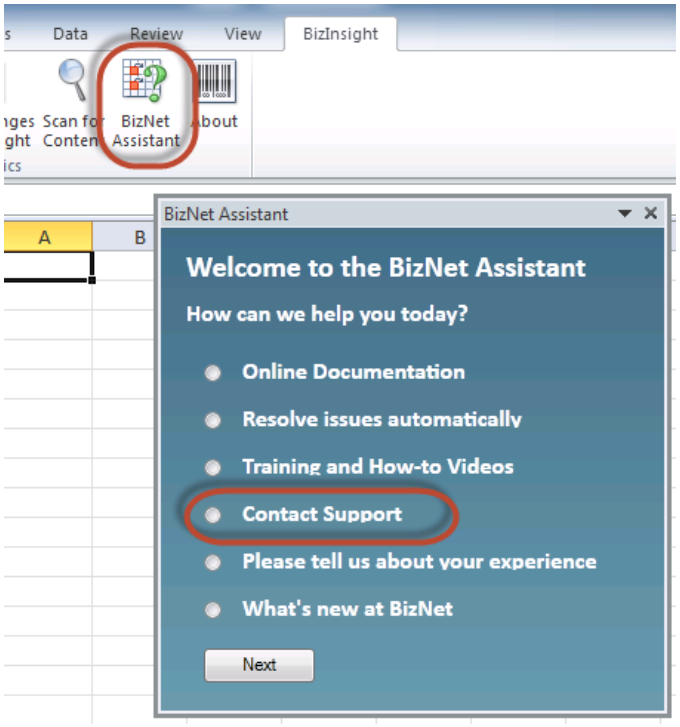


   If you have entered more names for a particular user type than you have licenses, you will get an error similar to the following.



You will be returned to the **Current Users** dialog where you can remove a row so that you comply with the number of licenses your company purchased. Select the row to remove and click the **Delete Row** button.

To purchase additional licenses, use the BizNet Assistant button to open a support ticket indicating that you need to purchase additional licenses.



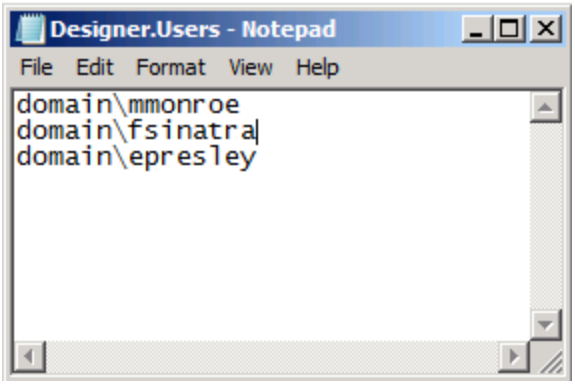
When you receive your new license, move your old license from the Administration Path shared directory and save the new license there. Do not rename the old license and leave it in the Administration Path; it must be removed from the directory in order for the new license count to take effect.

Manual Steps

1. In the Admin shared directory, open the .users file with Notepad that corresponds with the BizInsight permissions the user should have. For example, if the user should have Designer permissions, you would open the Designer.users file.

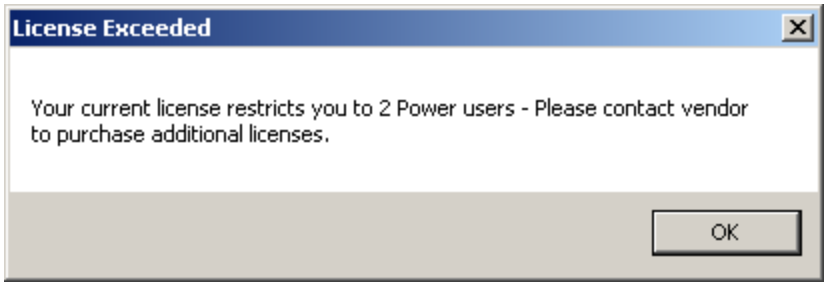
   Tip If you are not sure where to find the Admin shared directory, go to an existing user's workstation, open Excel and click on the **Application Settings** button on the BizInsight ribbon and copy the path provided for the Administration Path.

2. In the .users file, add the Windows account name of the BizInsight user. For more information on the different user types, refer to the User Types section of the User Guide.



3. Save and close the file.

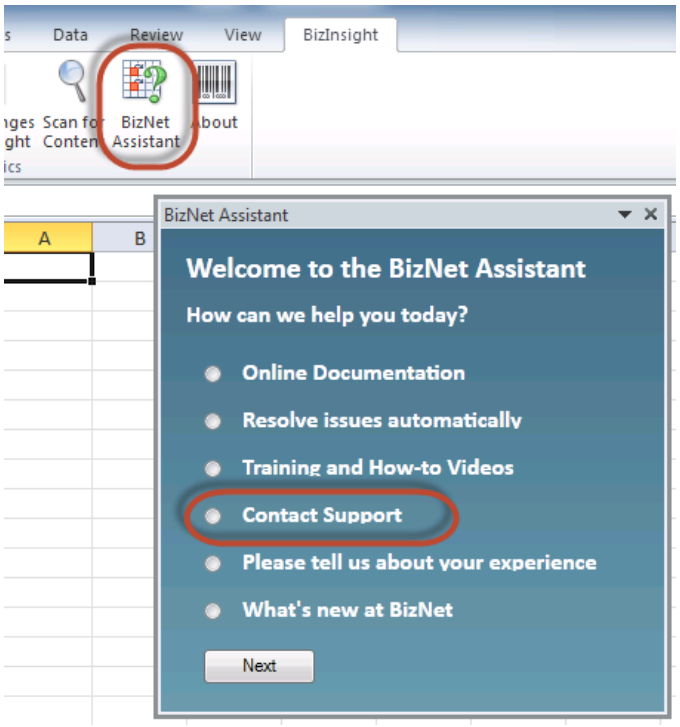
   IMPORTANT As you add Windows account names to the .users files, add only as many as you have licenses. If you add more Windows account names than you have licenses or you have an extra line return in the file, users will get an error message similar to the following when they open Excel after BizInsight is installed.



   If you are not sure how many licenses you have, open the .lic file that is in the Admin

shared directory with Notepad and check how many licenses are shown for the user type you are adding.

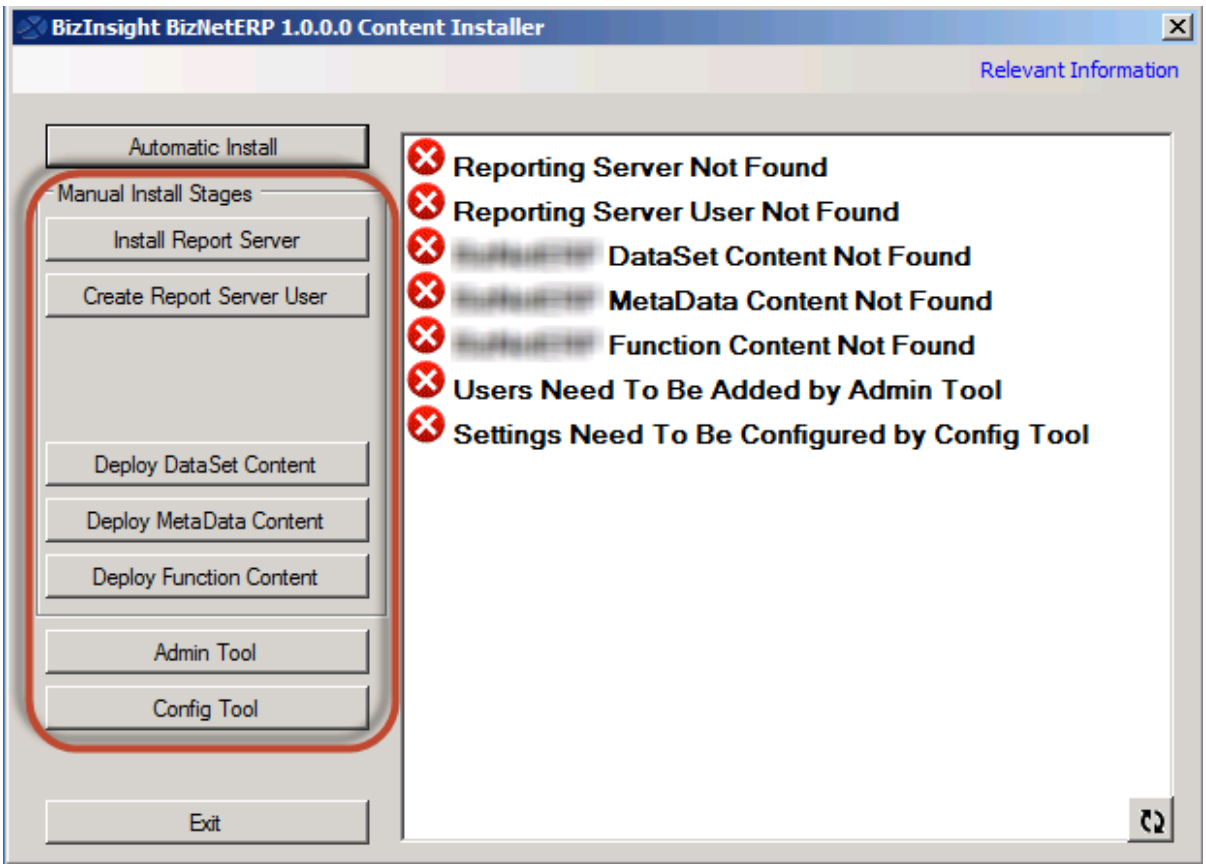
To purchase additional licenses, use the BizNet Assistant button to open a support ticket indicating that you need to purchase additional licenses.



When you receive your new license, move your old license from the Administration Path shared directory and save the new license there. Do not rename the old license and leave it in the Administration Path; it must be removed from the directory in order for the new license count to take effect.

Content Installer Manual Install Steps

Use the Manual Install Stages section to implement each element yourself. You may choose to use this approach when only certain elements need to be implemented or the automatic install is not detecting your existing Reporting Services installation.



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Create Report Server User 155
Create Linked Servers 156
Run Database Scripts 165
Deploy Data Set Content 167
Deploy MetaData Content 170
Deploy Function Content 174

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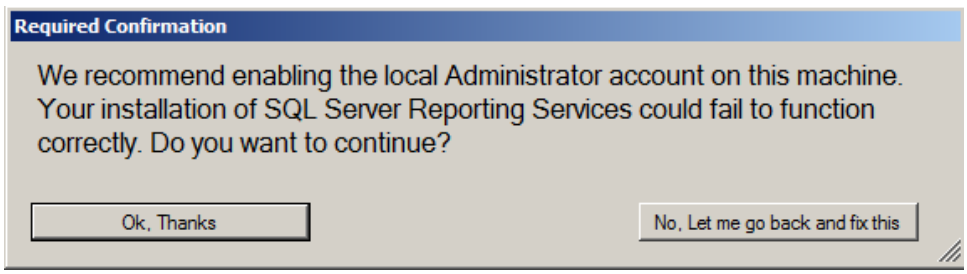
Install Report Server

Use the **Install Report Server** button to either install SQL Server and Reporting Services or point the content installer to an existing SQL Server instance. The Content Installer will detect previous installed instances of SQL Server 2005, 2008, 2008 R2, 2012 or 2014 on the local server machine.

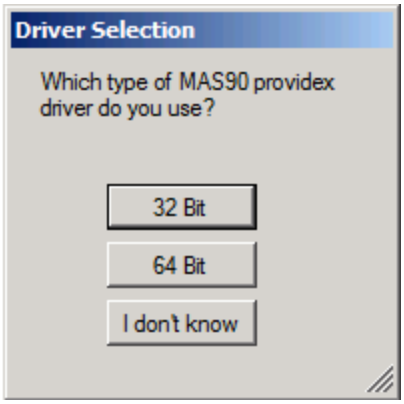
If no instances of SQL Server are detected, the Content Installer will install 32-bit Microsoft SQL Server 2008 R2 Express with Advanced Services. **IMPORTANT** If your existing SQL Server installation is not detected and you do not want to install SQL Server 2008 R2, cancel the installation, restart the Content Installer and see "Deploy Data Set Content" on page 167.

1. Click on the **Install Report Server** button to start the process.

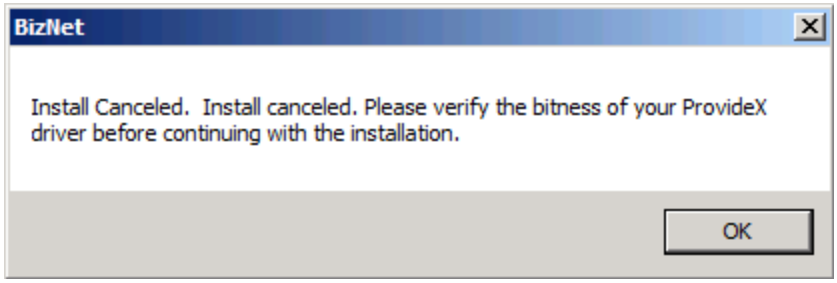
2. You may be asked to enable the local Administrator account. Click **OK, Thanks**, even if you know that the Administrator account is enabled.



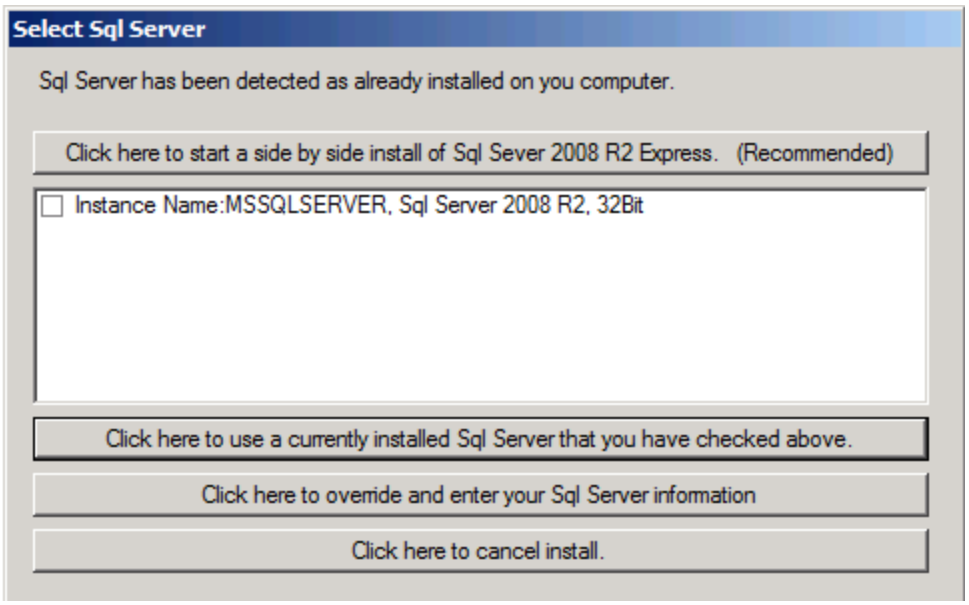
3. The installer will ask whether you are using a 32-bit version of Sage 100 or a 64-bit version. Choose the appropriate button.



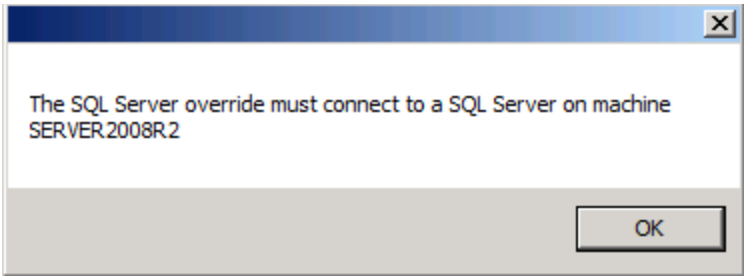
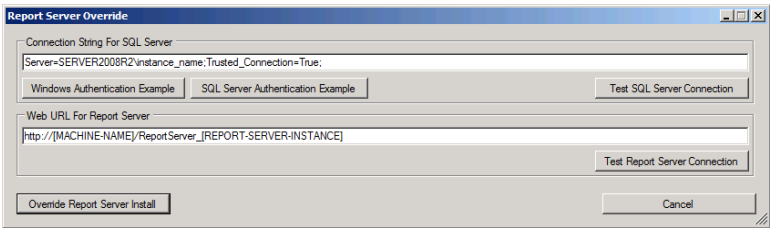
IMPORTANT This question controls whether a 32-bit a 64-bit version of SQL Server is installed. SQL Server can only access and use ODBC drivers that are the same bitness. If you do not know whether your Sage 100 installation is using a 32-bit or 64-bit ODBC driver, click **I don't know** and the installation will be canceled. You will need to ascertain that information before the installation can proceed.



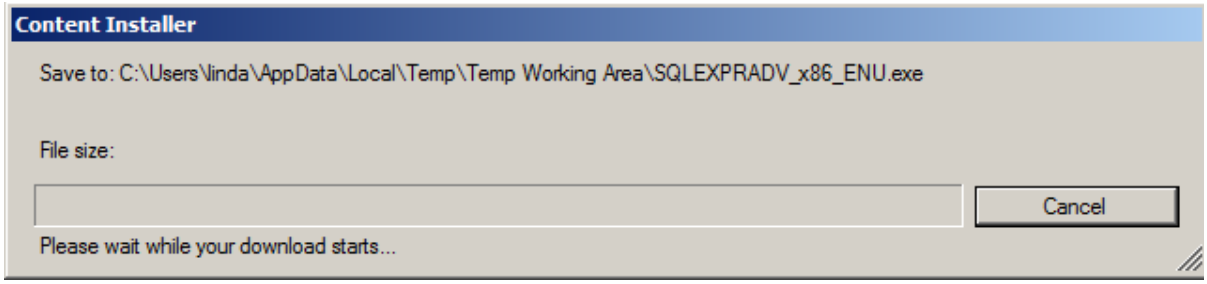
4. If the Content Installer detects existing instances of SQL Server Reporting Services installed on the local server machine, the following dialog will display giving you the option to use the existing installation or to install a side by side installation.



Option	Description
Click here to start a side by side installation of SQL Server 2008 R2 Express	The side-by-side option is the recommended option to ensure that all configuration changes needed for BizInsight purposes do not interfere with other applications that may be using SQL or Reporting Services. It is especially recommended when your existing SQL Server is version 2005. **BizNet Software Support will not assist with implementing Reporting Services 2005**.
Click here to use a currently installed SQL Server that you have checked above	Use this button to specify that the installer use a detected existing instance. Be sure to check the checkbox next to any detected instance before using this button. **IMPORTANT** If Sage 100 is using a 64-bit ODBC driver and an existing 32-bit SQL instance is detected, do **not** choose that existing instance. Instead, choose to do a Side-By-Side installation of SQL Server. A 64-bit ODBC driver cannot be used by a 32-bit SQL Server instance.

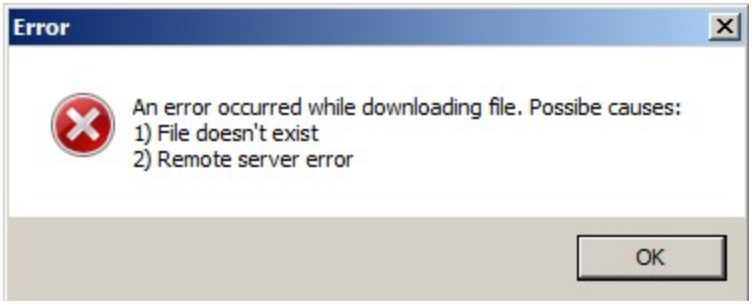
Option	Description
Click here to override and enter your Sql Server information	Use this button If you need to specify a different port or want to use HTTPS for secure communications or your existing installation is not detected. When this button is clicked, a warning will display to emphasize the requirement that the content installer must be run on a server with a SQL database engine installed. Click OK to clear the message.   In the **Connection String for SQL Server** field, enter a valid connection string for the SQL Server instance to which the Content Installer should install the SQL MetaData databases. Use the **Windows Authentication Example** or the **SQL Server Authentication Example** buttons to populate the connection string with sample syntax. Be sure to change the values to values valid for your environment. In the **Web URL for Report Server** field, enter the **web service URL** for the Reporting Services site to which Content Installer should deploy the content RDLs.

If no Reporting Services Server is detected, the process automatically installs SQL Server 2008 R2 Express with Advanced Services and uses “BIZNET” as the default Report Server instance name.



IMPORTANT IF an existing reporting services installation that you want to use is not detected by the installer or you are not able to use the Override option, contact BizNet Software Support for assistance.

If you get the following error after selecting the side by side installation, verify that you have internet access.

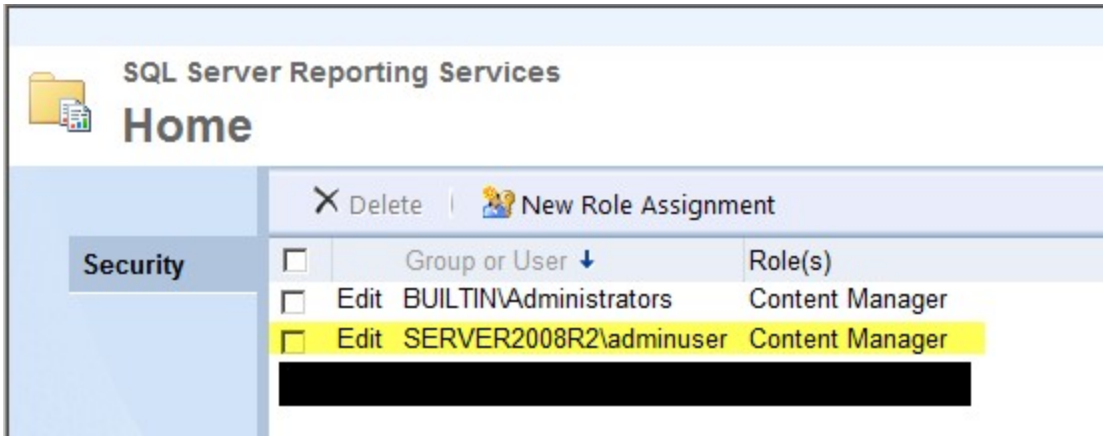


If the side-by-side installation fails, contact BizNet Software Support for assistance.

Once installation is complete, the Content Installer dialog will update to reflect that a Report Server was found.

Create Report Server User

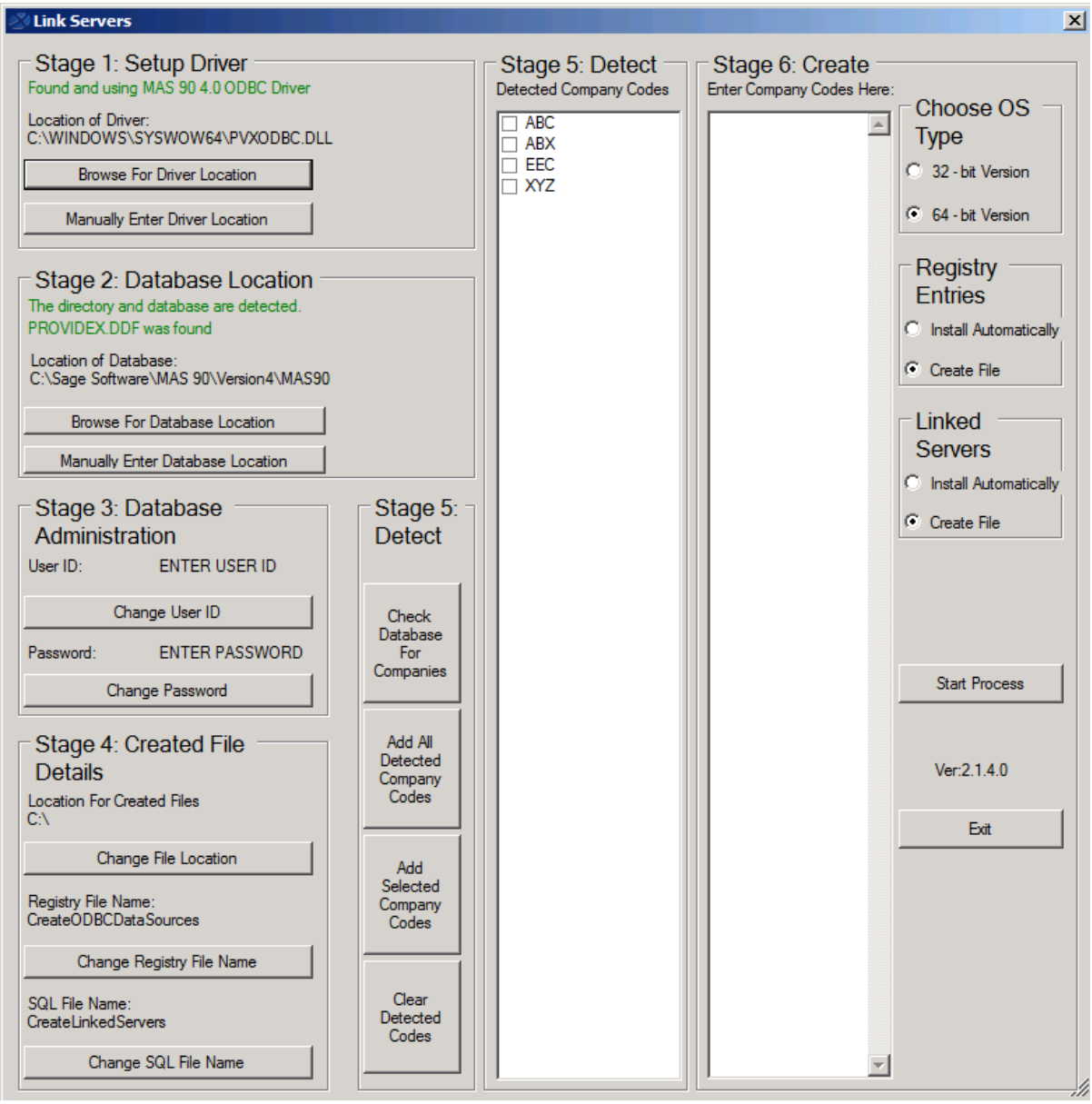
The **Create Report Server User** option creates the currently logged in user account as a new user in Reporting Services with the Content Manager role. This step is necessary to ensure that the currently logged in user account has sufficient rights to deploy datasets in the later stage of content installation.



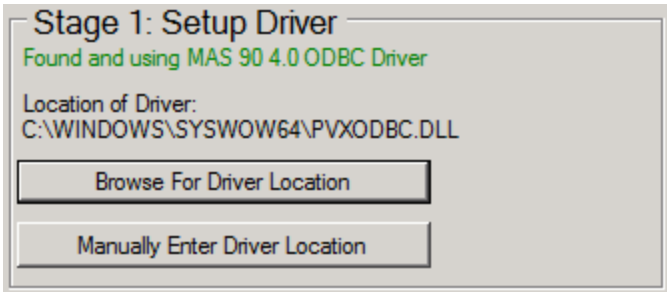
NOTE BizInsight end users will be assigned Reporting Services security by the License Administration Tool.

Create Linked Servers

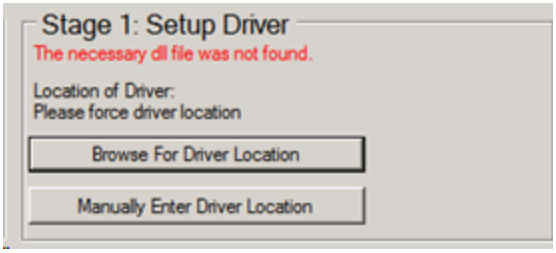
Use this button to create ODBC data sources and Linked Servers for each Sage 100 company from which data will be retrieved using BizInsight. If you add a new company to Sage 100, you can come back to this button to get that new company setup for BizInsight reporting.



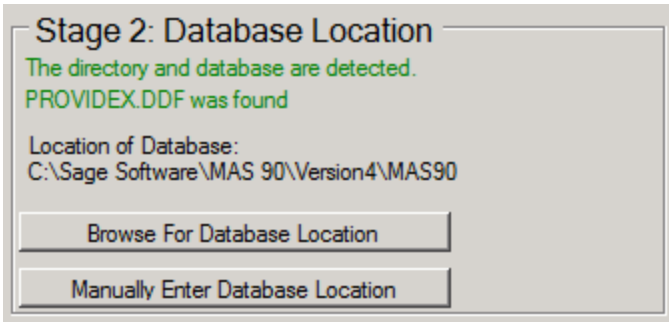
1. You will work through this dialog starting with the Stage1 section (upper left).
   a. **Stage 1: Setup Driver**
      The installer will try to automatically detect the ProvideX ODBC driver



If the driver is not found, click on the Browse button to browse to the directory in which the driver is located. Or manually enter the path.

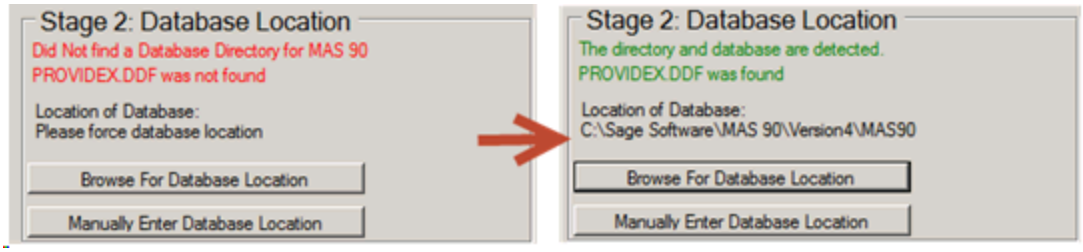


b. **Stage 2: Database Location**
The installer will try to automatically identify the location of the MAS90 company data directories.

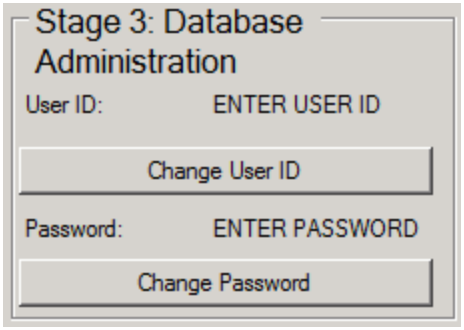


CRITICALLY IMPORTANT If the detected database location is a UNC path or a mapped drive path, you must go to Task Manager and end task the Content Installer. See "Adjusting the Sage 100 ODBC paths" on page 109 for instructions on how to change the detected paths to a local directory on the server. If this installation is being done on a server that is not where the Sage 100 ProvideX data is located, you must perform the installation on the Sage 100 data server.

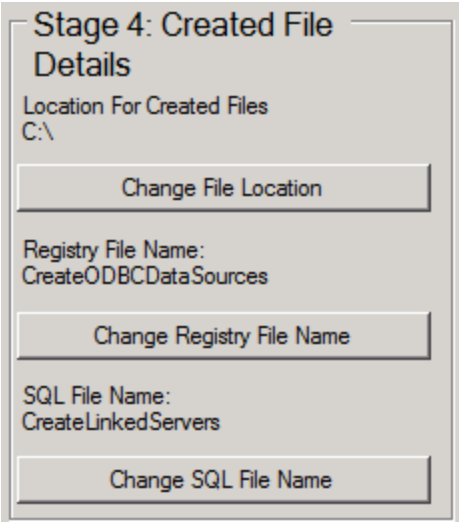
If the installer cannot find the directories, click on the Browse button and browse to the directory that contains the SAGE 100 company database directories (MAS_*XXX*). This location should be a local drive, not a mapped drive or a UNC path.



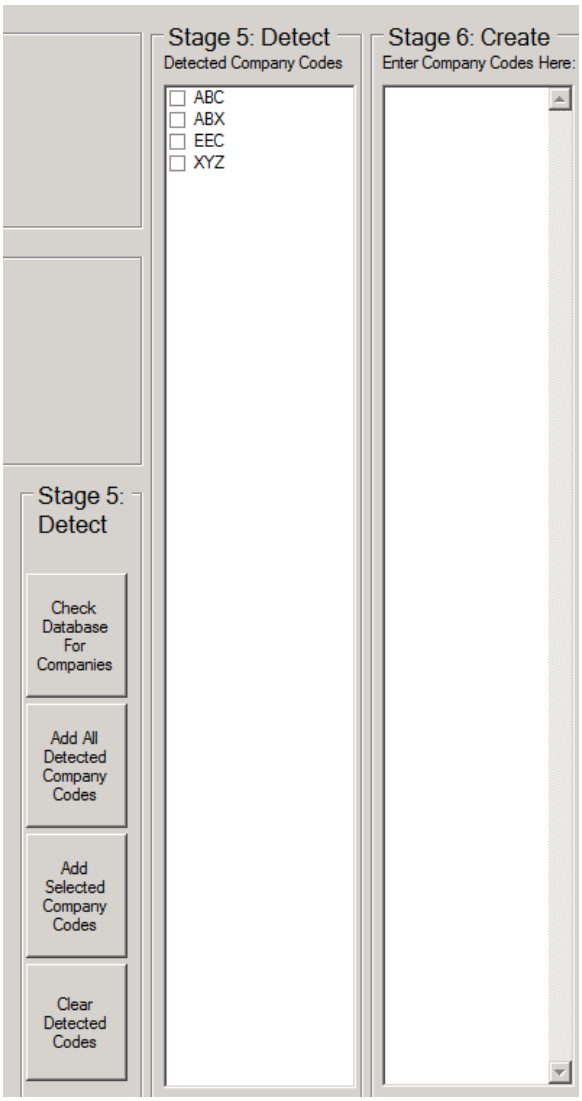
c. **Stage 3: Database Administration**
Provide a SAGE 100 login id and password with rights to all companies from which data will be retrieved using BizInsight. BizNet recommends creating a login id for BizInsight reporting purposes and using this login id instead of using an existing user's login and password that could be changed or deleted in the future.



d. **Stage 4: Created File Details (Optional)**
This section allows you to override the default file location and file names that the tool can create for the next installation steps.



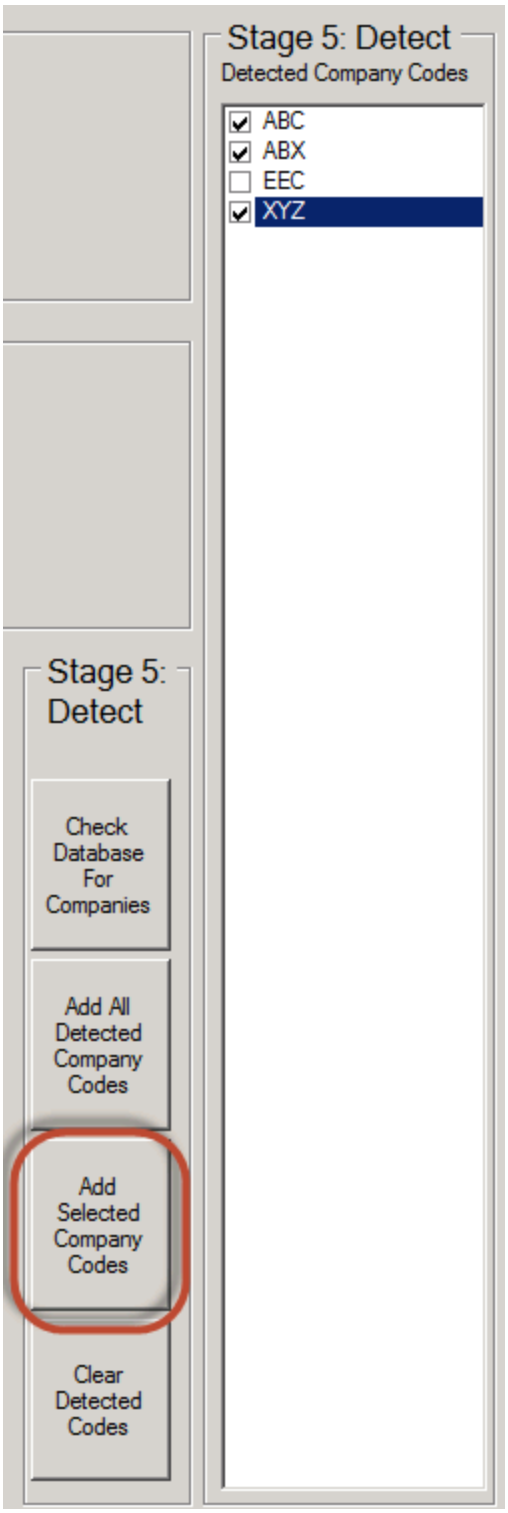
e. **Stage 5: Detect** and **Stage 6: Create**
Use this section to automatically detect existing Sage 100 companies and select which ones to setup for BizInsight reporting.



The **Check Database For Companies** button will load all Sage 100 companies into the **Stage 5: Detect** pane.

The **Add All Detected Company Codes** button will add all detected companies to the **Stage 6: Create** pane.

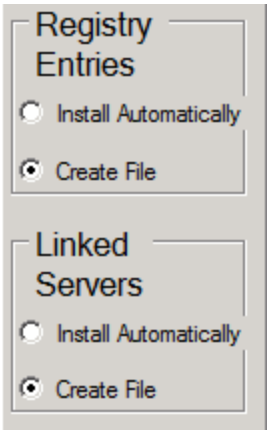
To add only certain companies for BizInsight reporting, check the checkbox next to the company code in the **Stage 5: Detect** pane and then click the **Add Selected Company Codes** button.



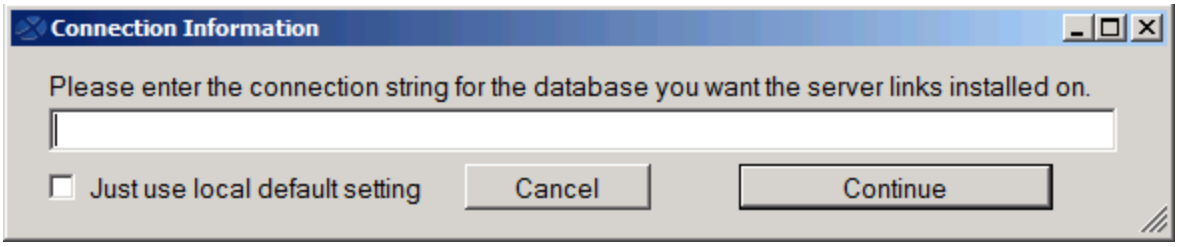
Use the **Clear Detected Codes** button to start over.

f. **Choose OS Type**
Select the appropriate radio button to indicate the bitness of the ***server*** hardware, 32-bit or 64-bit.

g. **Registry Entries** and **Linked Servers**
Use these options to control the next installation steps. The default option, **Create File** will create files in the directory specified in the Stage 4 section. You will then be responsible for executing these files yourself.



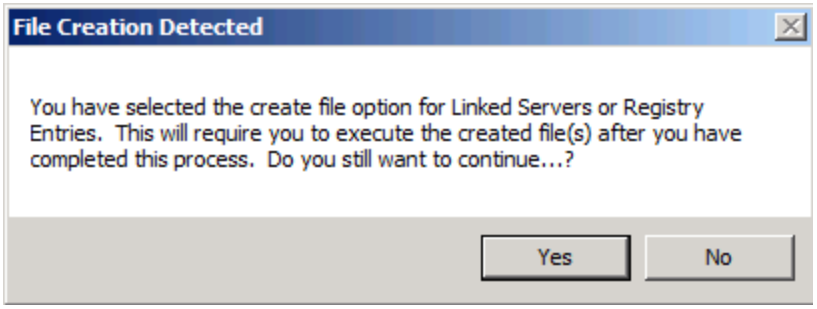
The **Install Automatically** option will automatically run the registry update file and connect to SQL Server Management Studio to run the Linked Servers script. If you choose the option to install the Linked Servers automatically, you will need to provide the connection string to the SQL Server instance that the installer connects to in order to run the Linked Server script.



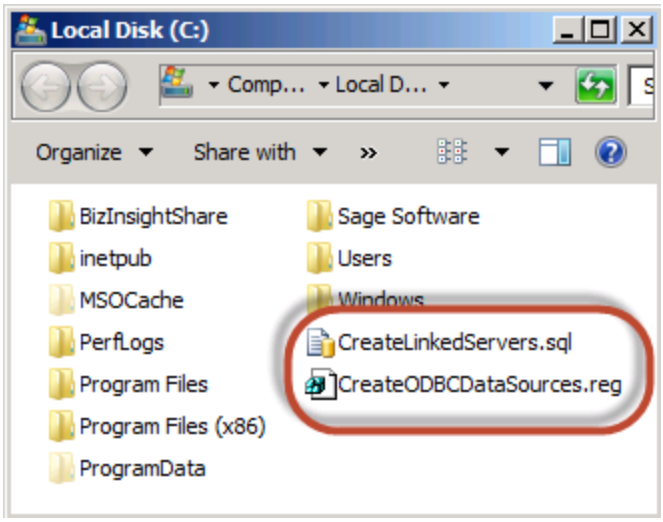
Click the **Just use local default setting** checkbox to automatically populate this field with the default connection string for the instance installed by or selected earlier during the installation. **IMPORTANT** If you are using your own instance, you **MUST** be logged in as a user with **sysadmin** rights to that SQL Server instance in order for the linked server script to be successfully run.

h. Click on the **Start Process** button.

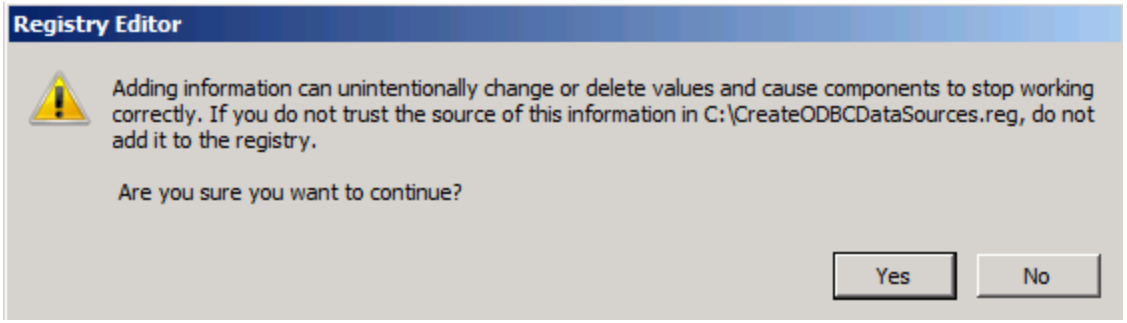
If you left the default selection to Create the files, you will receive the following message. Click **Yes**.

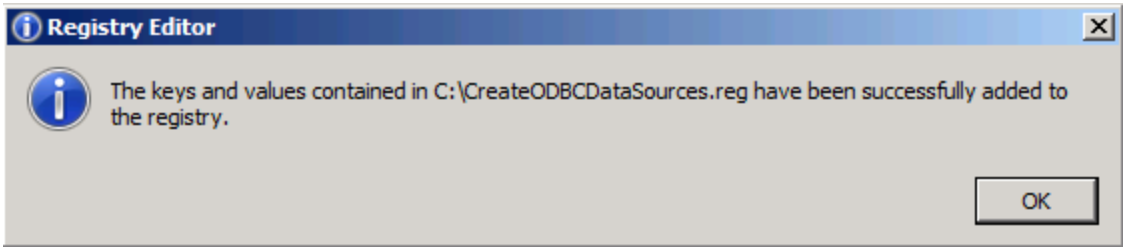


A Windows Explorer window will open to the directory containing the files that were created.



If you chose to automatically install the registry entries, you will get the following messages. Click **Yes** and **OK** respectively.

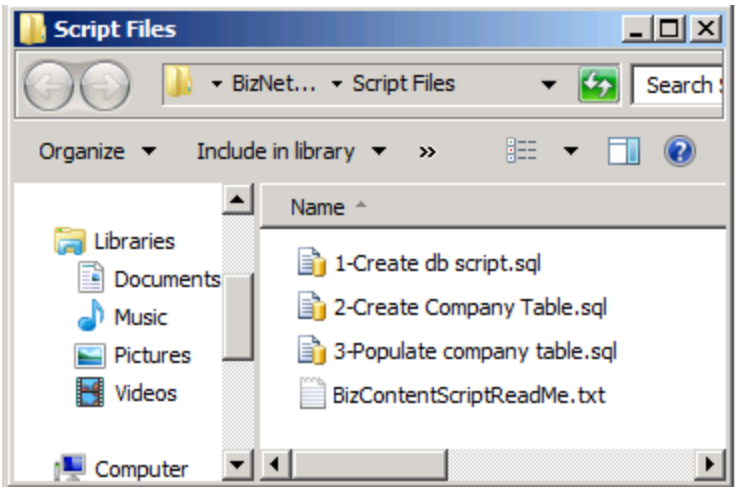

Registry Editor
Adding information can unintentionally change or delete values and cause components to stop working correctly. If you do not trust the source of this information in C:\CreateODBCDataSources.reg, do not add it to the registry.
Are you sure you want to continue?
Yes
No


Registry Editor
The keys and values contained in C:\CreateODBCDataSources.reg have been successfully added to the registry.
OK

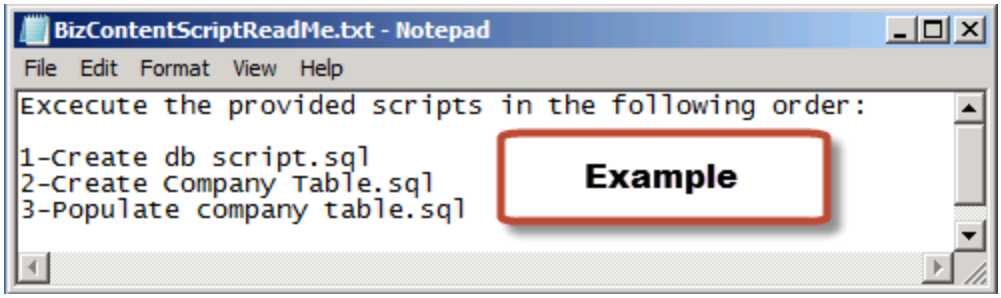
Run Database Scripts

The **Run Script Files** button will only display if the BizContent product requires supporting tables or other objects to be added in your accounting system database or a separate BizInsight-use only SQL Server database. If there isn't a Run Scripts button, you can move to the next step. As a standard practice, BizNet Software does not make modifications to any base accounting system objects unless absolutely necessary and will only be adding additional tables, stored procedures or triggers necessary for data retrieval.

1. Click on the **Run Script Files** button to open the Scripts directory.

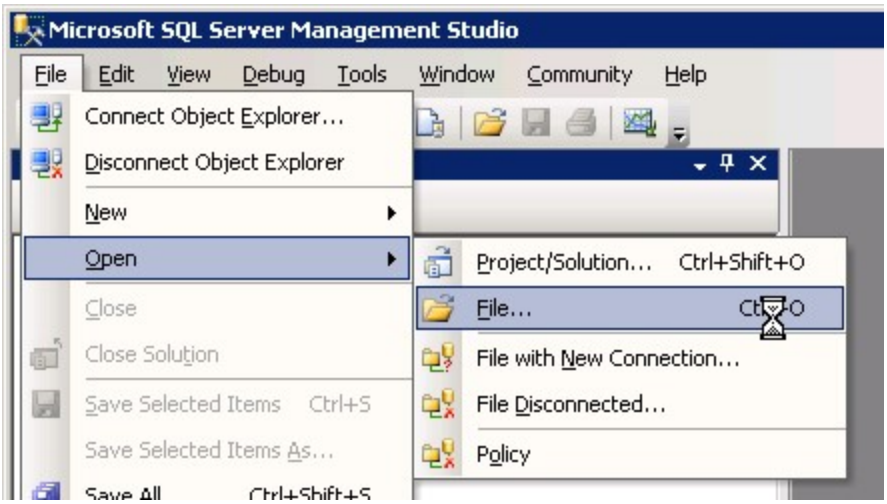


2. Open the "BizContentScriptReadMe.txt" file for installation instructions.

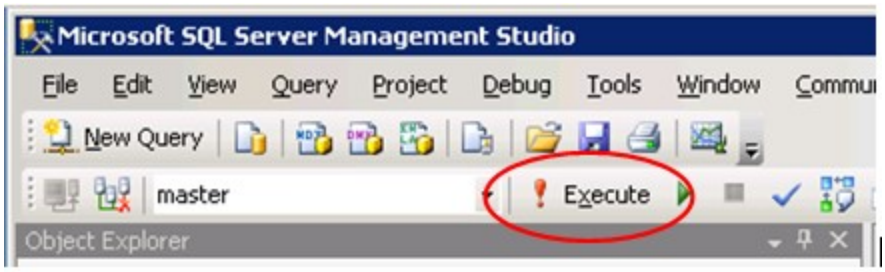


3. Click on **Start** > **All Programs** > **Microsoft SQL Server *version*** > **SQL Server Management Studio** and connect to your software package database instance.

4. Click on **File** > **Open** > **File** and browse to the Scripts directory and open the first .sql file listed.



5. Check for instructions within the script in case there are variables that need to be set to values specific to your environment. Make any necessary adjustments and click **Execute** on the toolbar to run the .sql.



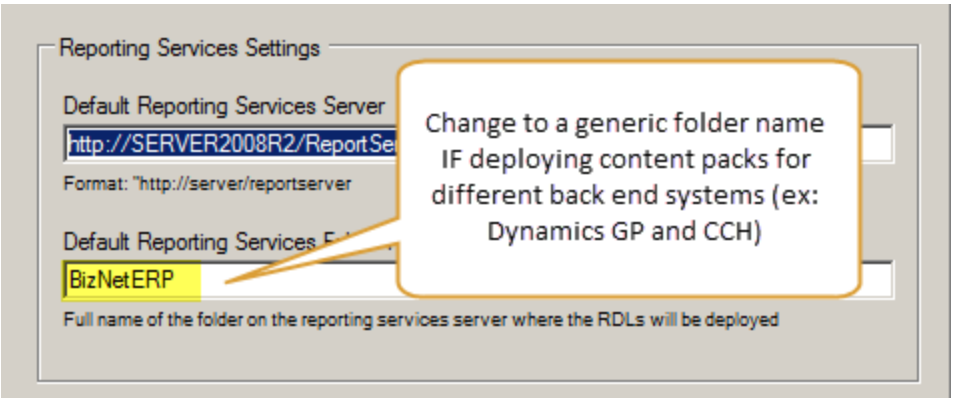
6. Close the .sql file.
7. Repeat these steps for each .sql file in the Scripts directory.
8. Close SQL Server Management Studio.

Deploy Data Set Content

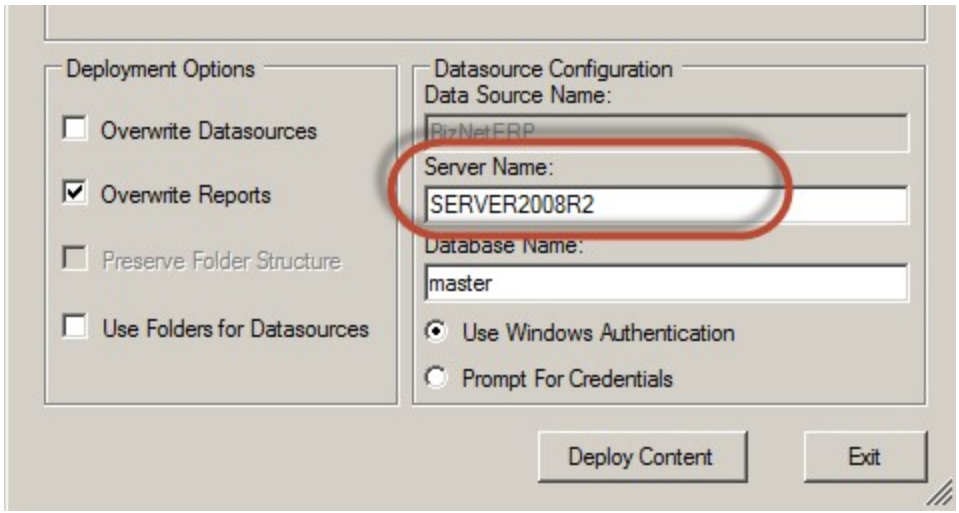
This button can be used to deploy the reporting services reports to the Report Server.

Most values will be automatically completed for you in this dialog but the following items should specifically be checked and confirmed to contain correct information:

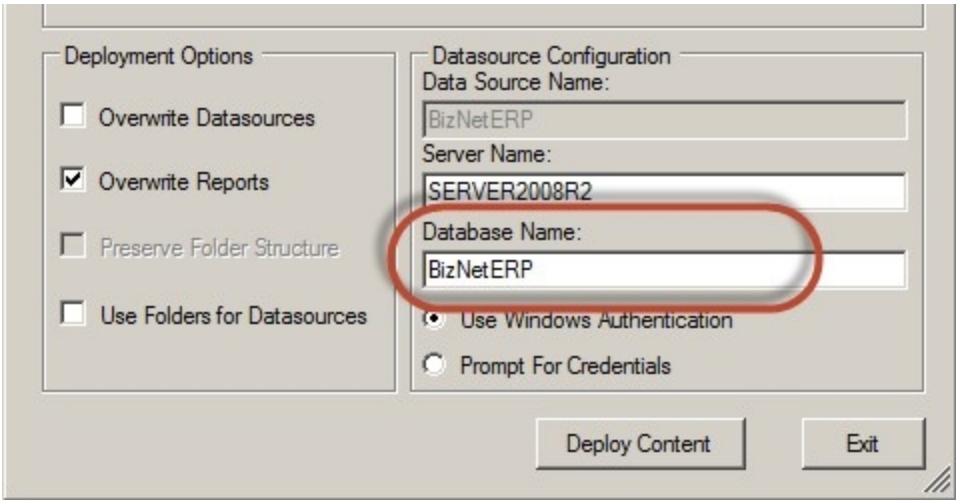
a. **IMPORTANT** If you will be installing content packs for multiple back end systems (example, , change the **Default Reporting Services Folder Path** to something generic like “” to ensure the content is deployed to the same folder. Do this for each content pack being installed. This is important because BizInsight can be pointed to only one reporting services folder so all content must be deployed to the same folder.



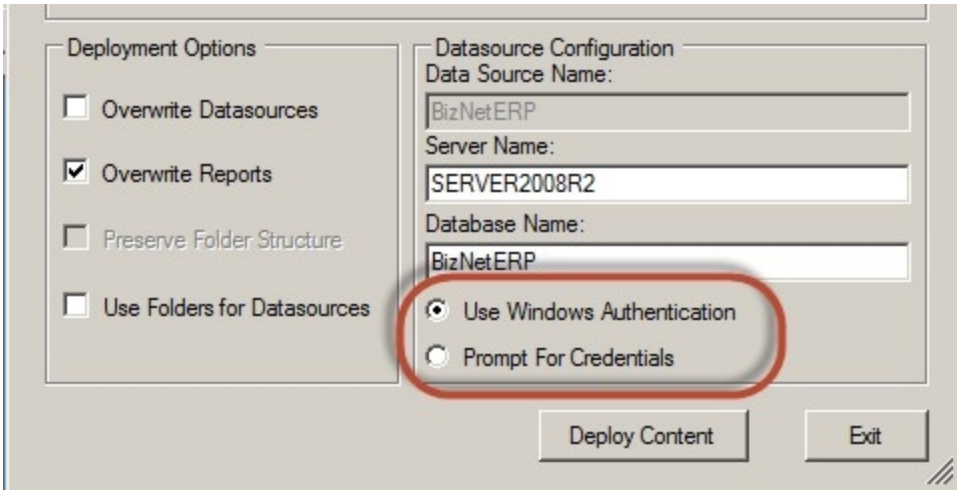
b. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Server Name** field if your accounting system database is on another server.



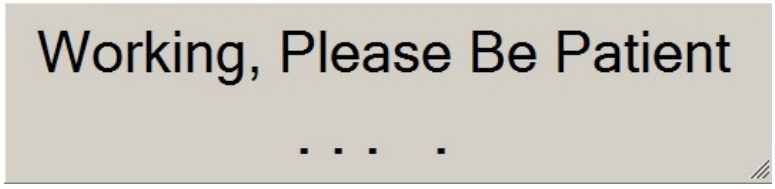
c. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name.



d. **Skip this step if you are using Sage 100 ProvideX** - **data can only be retrieved using Windows authentication**.
Select the desired authentication method – Windows authentication or Prompt for Credentials.



e. Click **Deploy Content** to continue.



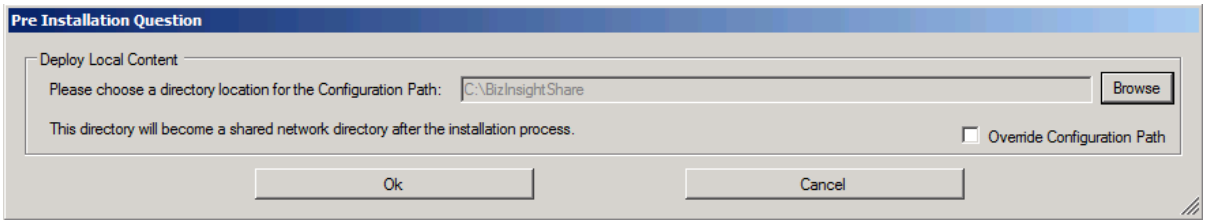
The **Content Deployed Successfully** dialog will open and display the Web Service and the Report Manager URLs. Click **Close**.

If you encounter an error deploying the DataSet Content, contact BizNet Software Support for assistance.

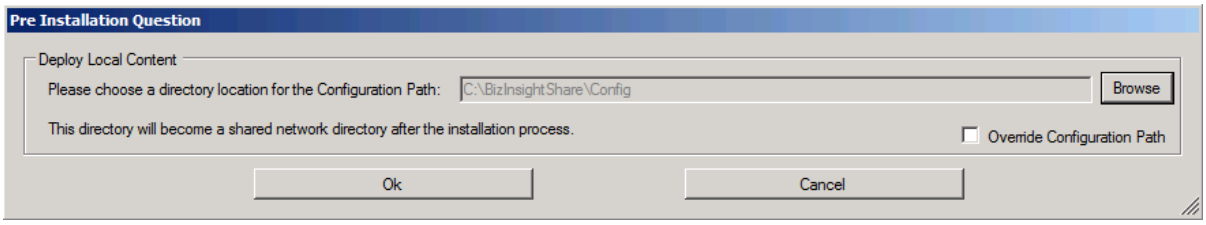
Deploy MetaData Content

This step will deploy .biz files and templates to the shared directory. During this step, the designated folder is examined for other biz files and the installer will evaluate whether merging of biz files is necessary.

When prompted, browse to the shared directory and click **OK**.



If you chose to create separate folders for the admin files and config files, choose the config folder for the path.



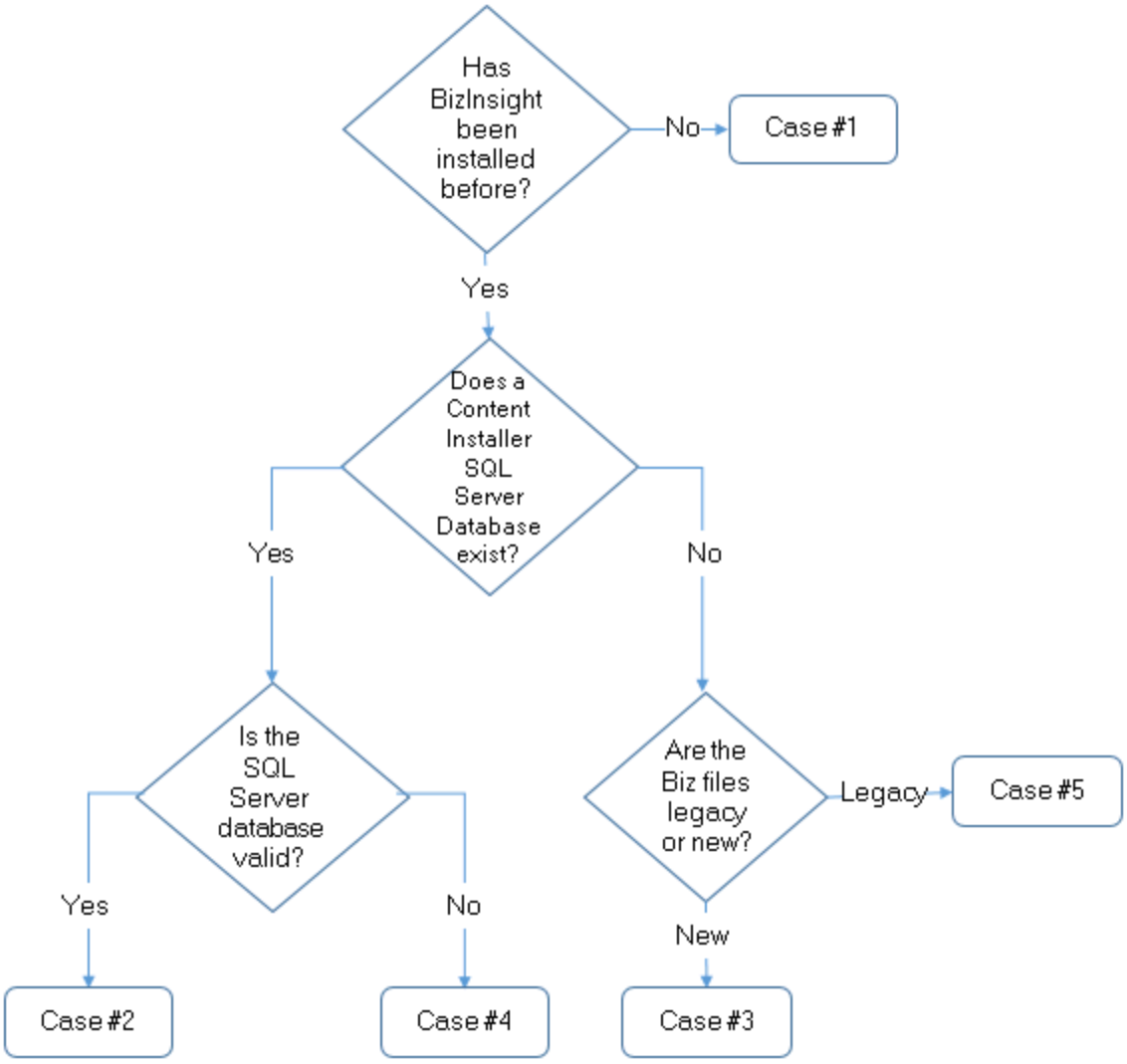
Merging MetaData Scenarios

BizInsight stores application metadata in files with a .biz extension in the shared directory (old design) or in SQL Server databases (new and recommended design). When installing updated content or additional content, it becomes necessary to merge this metadata. The the different scenarios requiring a merge of MetaData and how the merge is handled by the Content Installer are described below.

Before proceeding, it is important to establish two key definitions:

- **Legacy MetaData** is defined as .biz files or SQL MetaData databases that have not been processed or cleaned by the Content Packager (the tool used internally to create a Content Installer package).
- **New MetaData** is defined as .biz files or SQL MetaData databases processed or cleaned by the Content Packager. New .biz files contain three new columns.

When Content Installer merges MetaData, the below results will occur depending on the scenario.



1. Content Installer + New SQL Server Environment

   - User installs a GL content pack.
   - No .biz files are in the configuration path folder.
   - Content Installer installs GL MetaData.

Result: New SQL Server MetaData databases are created in SQL Server containing GL MetaData.

2. Content Installer + Existing SQL Server MetaData Databases

   - User installs an AP content pack.
   - No .biz files are in the configuration path folder.
   - SQL Server database already contains New MetaData from a previous GL content install.
   - Content Installer merges AP metadata into the GL metadata in SQL Server database.

   Result: Existing SQL Server MetaData databases contain GL and AP metadata.

3. Content Installer + Biz files in Config Path Folder

   - User installs an AP content pack.
   - Configuration path contains New MetaData .biz files for GL content.
   - No SQL database exists for GL MetaData.
   - Content Installer merges GL and AP MetaData into the SQL Server database.

   Result: New SQL Server MetaData databases are created containing GL and AP MetaData.

4. Content Installer + Previous install with AccessToSQL tool

   - User installs an AP content pack.
   - Configuration path folder may or may not contain .biz files.
   - SQL Server database exists and already contains GL Legacy MetaData from a previous AccessToSQL install.
   - Content Installer removes the GL metadata from the SQL Server database.

   Result: New SQL Server MetaData databases are created that contain only AP MetaData. GL content must be reinstalled using a Content Installer.

IMPORTANT This merge scenario will result in the removal of all legacy custom content (templates, custom functions or analysis sets). These items will need to be re-added after conversion is complete. This process is a necessary step to ensure future custom settings are preserved and should not be required again. See "Re-Create Custom Objects" on page 190 for instructions on recreating custom content.

5. Content Installer + Legacy .Biz Files

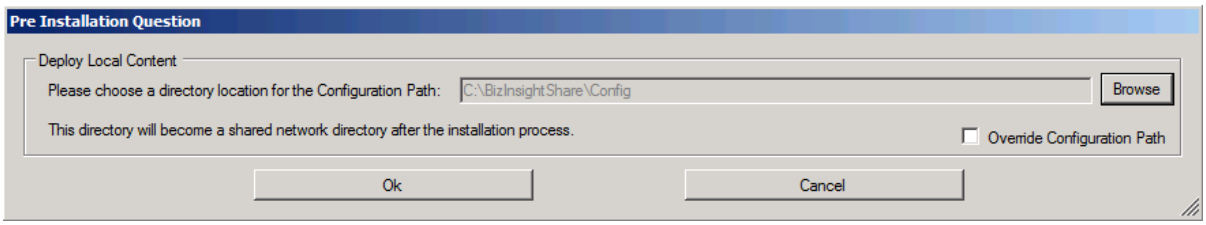
- User installs an AP content pack.
- Configuration path contains GL Legacy MetaData .biz files.
- No SQL Server database exists for GL MetaData.
- Content Installer does not merge metadata.

Result: New SQL Server MetaData databases are created containing only AP MetaData. GL content must be reinstalled using a Content Installer.

IMPORTANT This merge scenario will result in the removal of all legacy custom content (templates, custom functions or analysis sets). These items will need to be re-added after conversion is complete. This process is a necessary step to ensure future custom settings are preserved and should not be required again. See the section titled "Recreate Custom Objects" in the ***Applying Updates*** document for instructions on recreating custom content.

Deploy Function Content

During this step, the Content Installer deploys the .dll, .xll, and .dna files to the shared directory. The path will be automatically filled in with the path used to deploy the MetaData content. If previous files exist in the directory, the files are replaced with the new files.

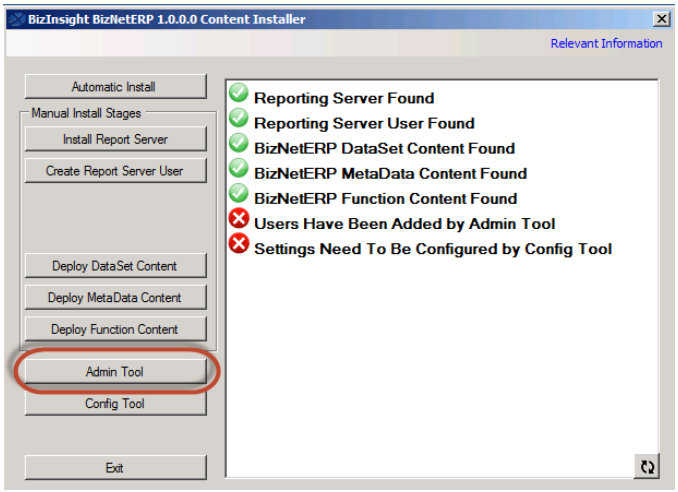


Click **OK** to install the function content.

Administration Tool

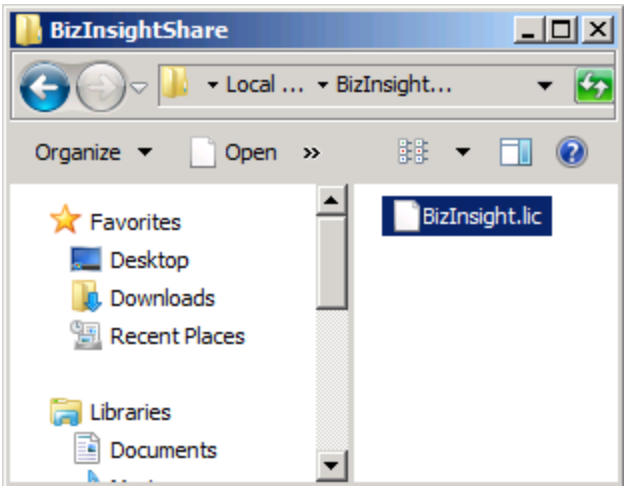
Use the Administration tool to add new BizInsight users or modify your existing BizInsight license assignments.

1. Click on the **Admin Tool** button.

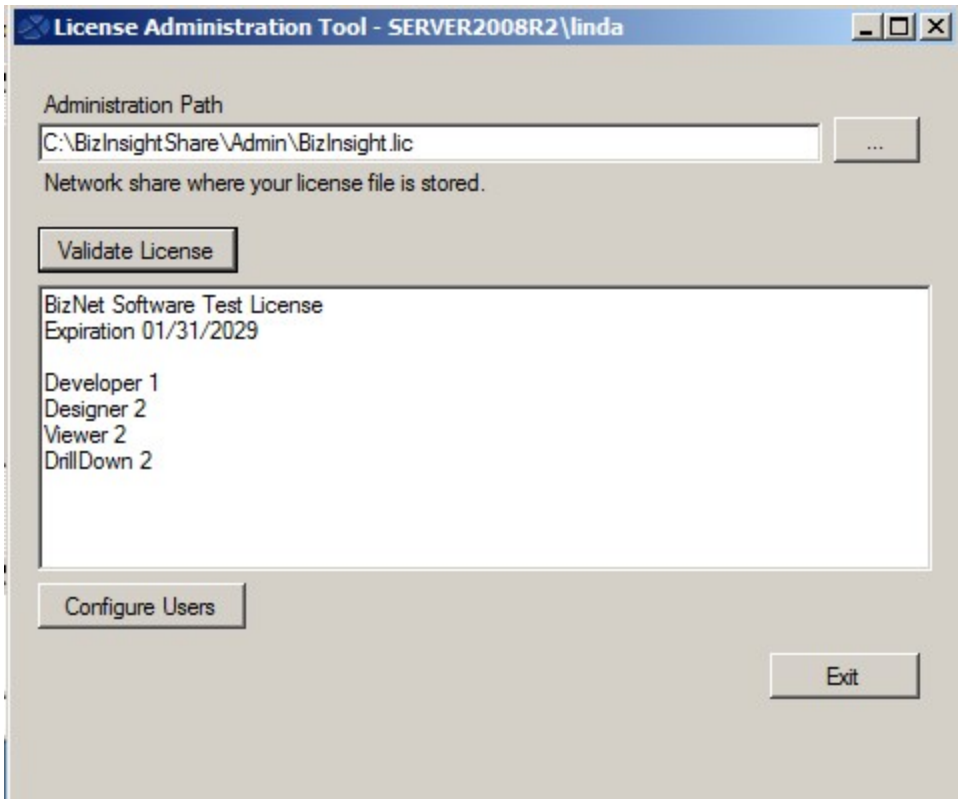


2. The **License Administration Tool** will open. Click on the browse button.

Browse to the directory that contains the BizInsight license file.

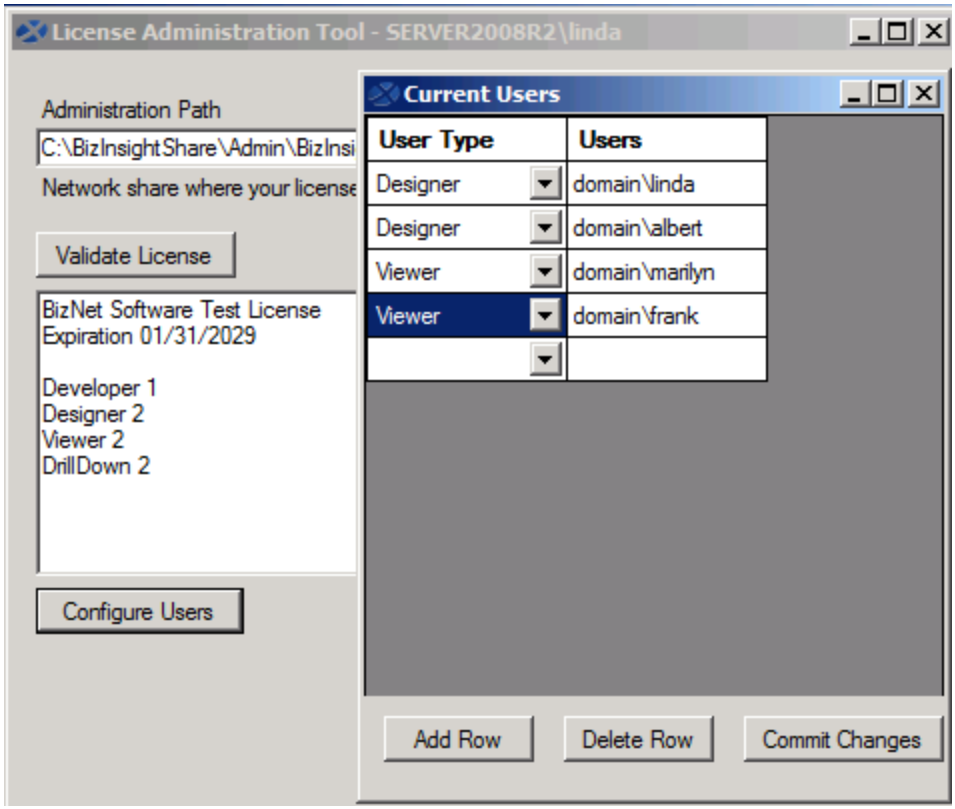


3. Click the **Validate License** button to review the license information. The number of licenses purchased will be displayed.

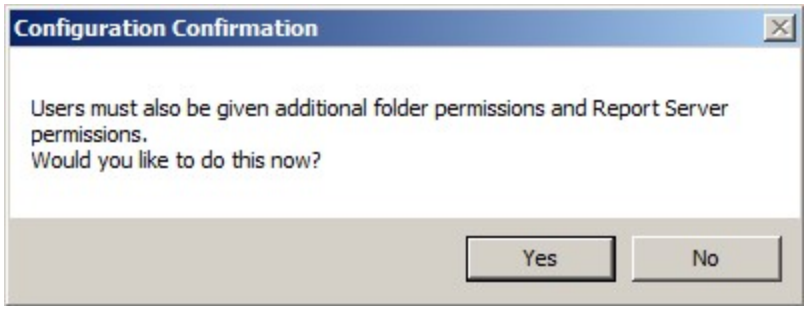


4. Click on the **Configure Users** button to add your BizInsight users and assign them to a BizInsight user type (Developer, Designer, Viewer or Drilldown). Click **Commit Changes** when finished.

   WARNING Do **not** add your own login using the Admin Tool unless you know for sure that you have another login available with sysadmin rights to the SQL Server instance. Early versions of the content installer (pre version 1.6) will remove existing permissions for users, including those with sysadmin rights. If uncertain, skip this step and confirm sysadmin access will not be lost then return to complete the Admin Tool step.

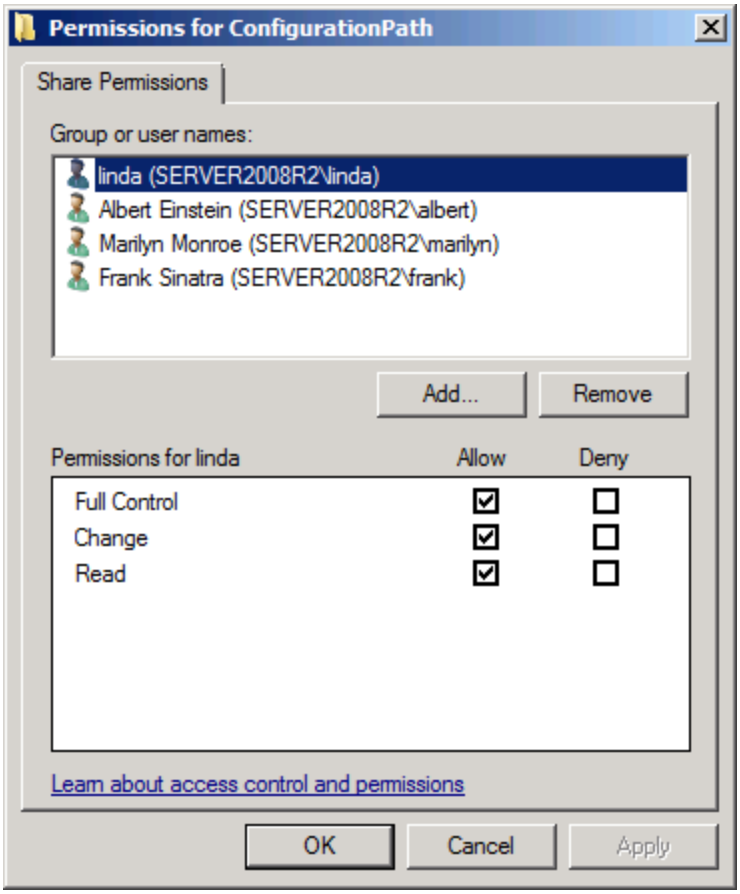


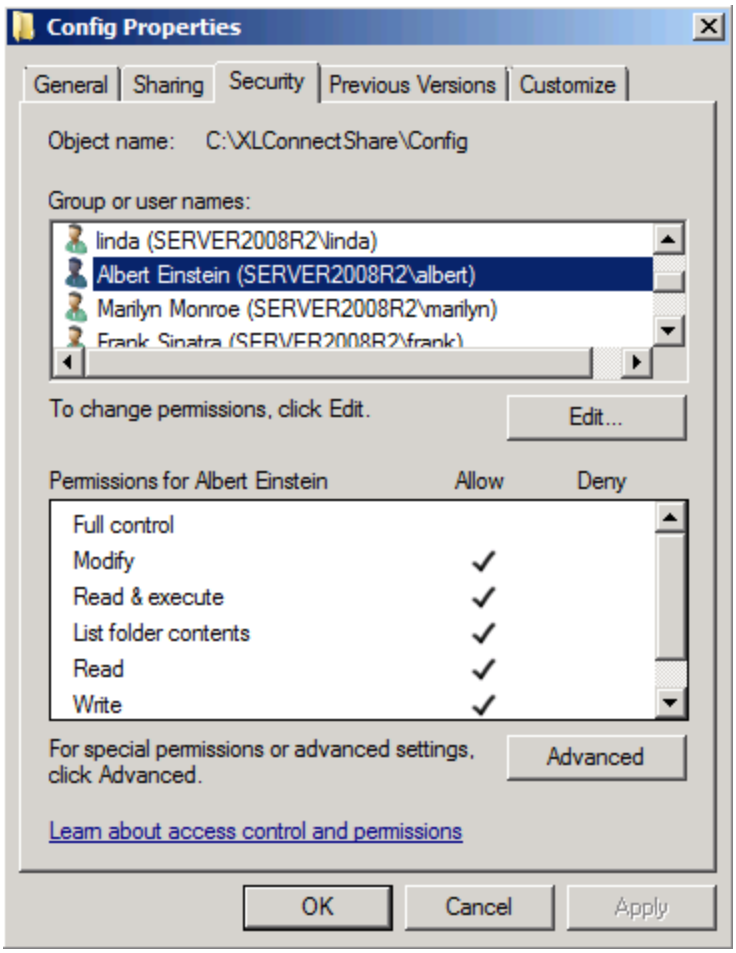
5. You will be prompted to assign the necessary folder permissions and Reporting Services security to the users. Click **Yes**.



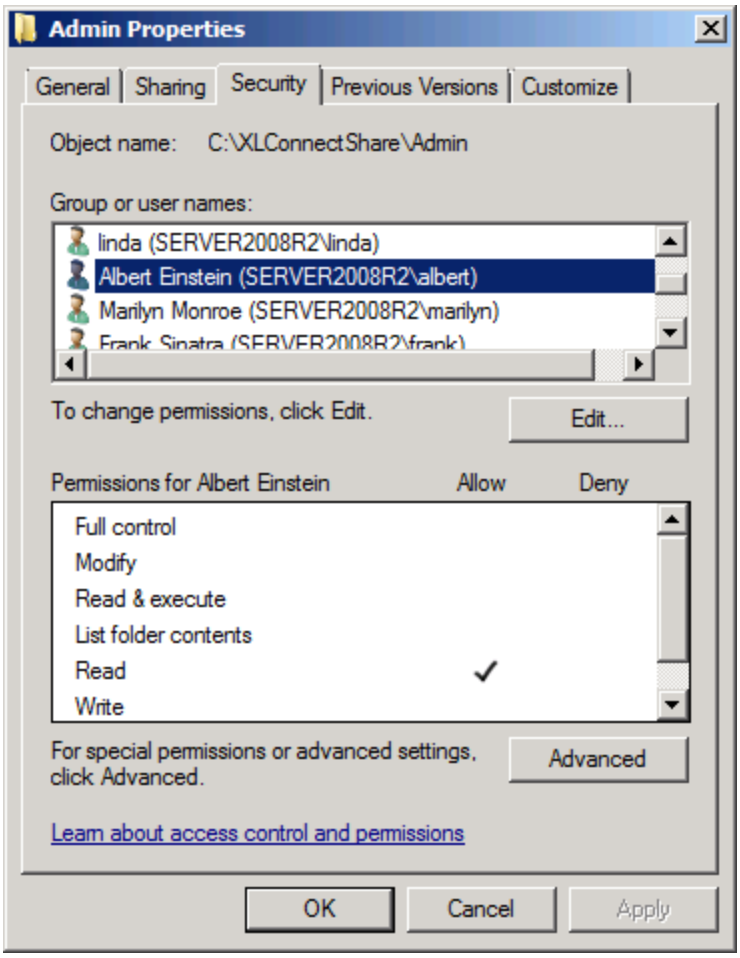
Permission Details

The user will be granted Content Manager permissions to the Reporting Services root level. In addition, the Admin tool will set the Share and Security permissions on the specified config and admin folder locations. The Share and Security permissions will look like the following:





When the admin files are in a separate folder, the security for that folder will be more restrictive.

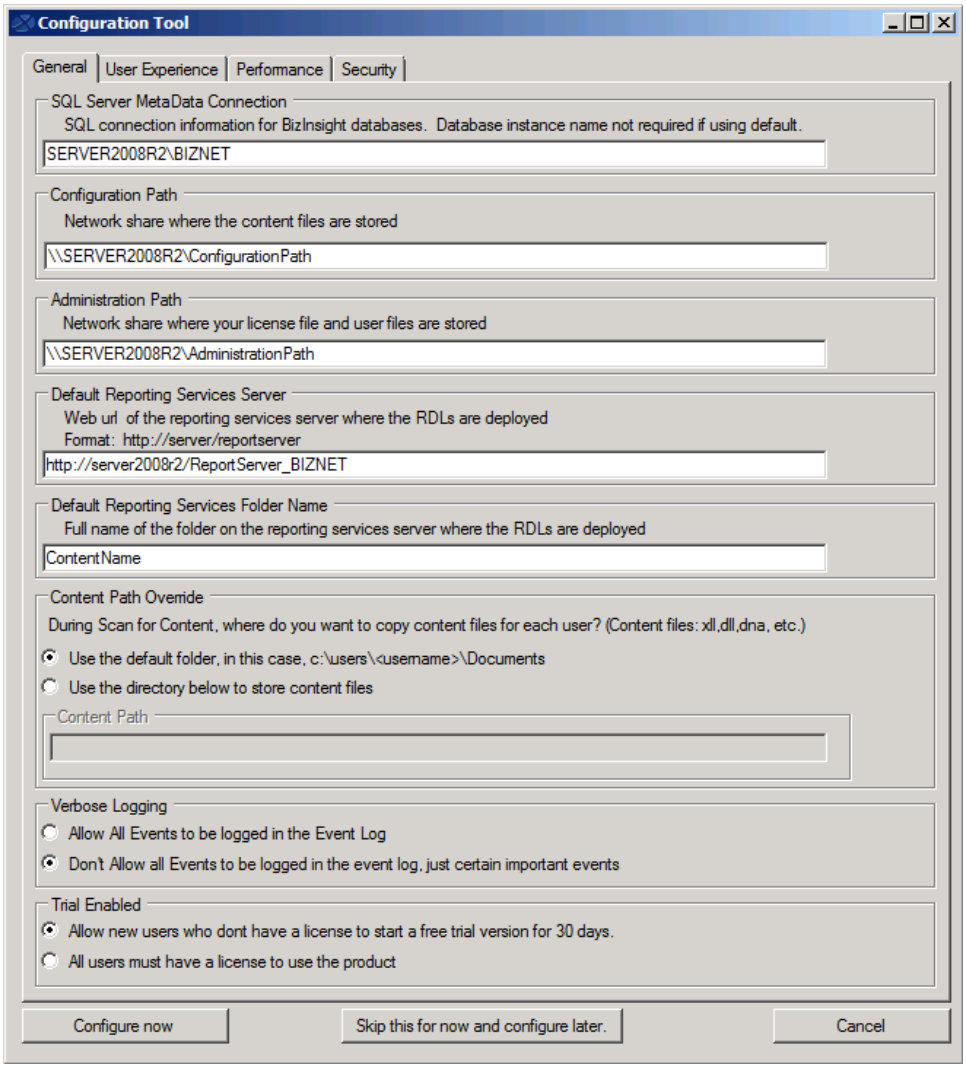

Admin Properties
General
Sharing
Security
Previous Versions
Customize
Object name: C:\XLConnectShare\Admin
Group or user names:
linda (SERVER2008R2\linda)
Albert Einstein (SERVER2008R2\albert)
Marilyn Monroe (SERVER2008R2\marilyn)
To change permissions, click Edit.
Edit...
Permissions for Albert Einstein
Allow
Deny
Full control
Modify
Read & execute
List folder contents
Read
Write
For special permissions or advanced settings, click Advanced.
Advanced
Learn about access control and permissions
OK
Cancel
Apply

Config Tool

Use this tool to configure default values for the BizInsight users. These settings will be stored in an app.config file that can be copied to each user's workstation after BizInsight is installed. Users will still be able to adjust these options to their own preferences. When users adjust these settings, their adjustments will be stored in a user.config file in their profile and that file will be read first before the app.config file.

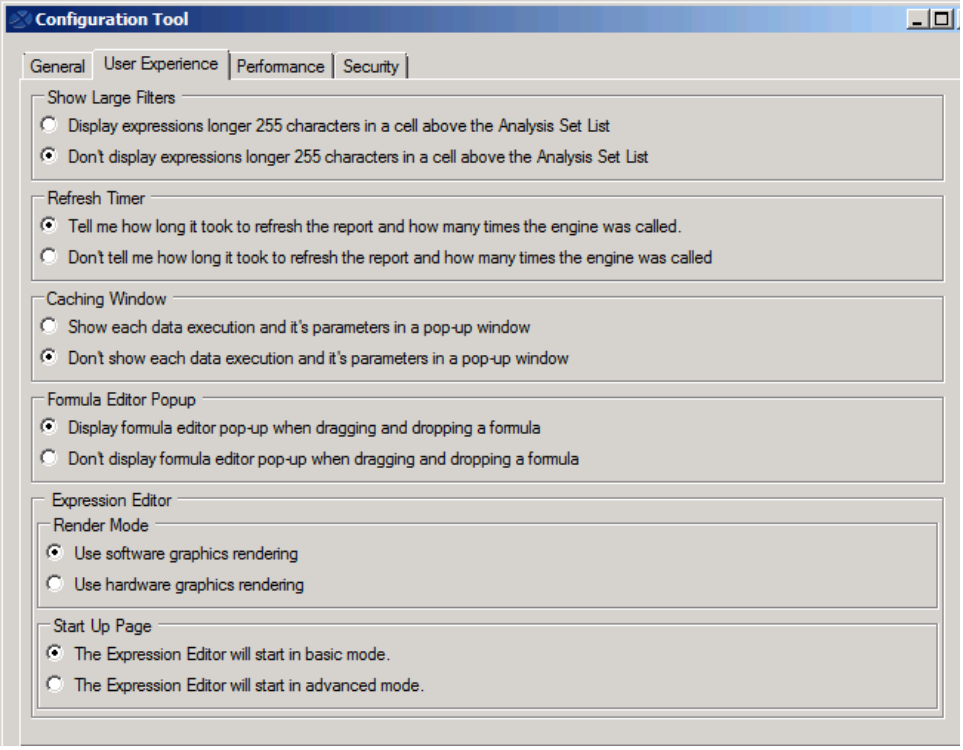
General Tab

The values shown in the General Tab should be automatically filled in by the Content Installer with the pertinent paths for the BizInsight implementation. If user profiles are remapped to network locations (instead of their local C:\ drive), use the **Content Path Override** section to specify an alternate default **local** folder to which BizInsight Scan for Content can copy the BizContent add-in files.

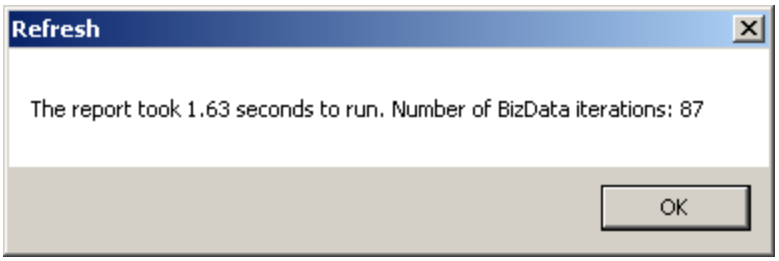
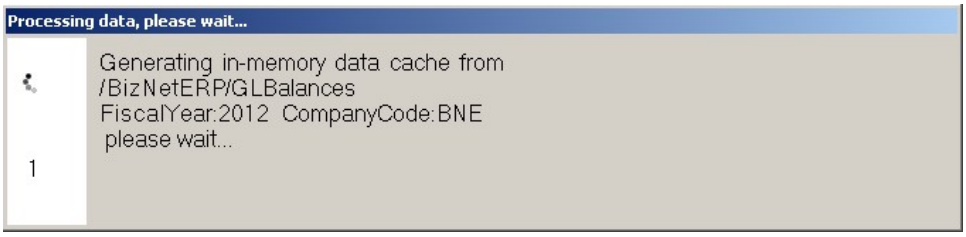


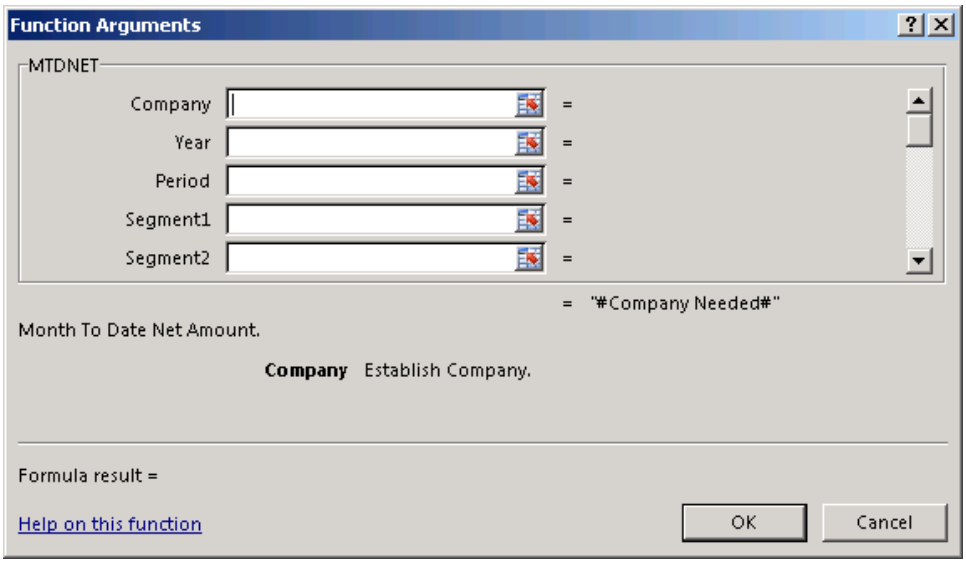
User Experience Tab

Use this tab to manage various user experience settings for all BizInsight users. The current settings are the recommended default values but can be adjusted as desired. A brief explanation of each option is provided below.

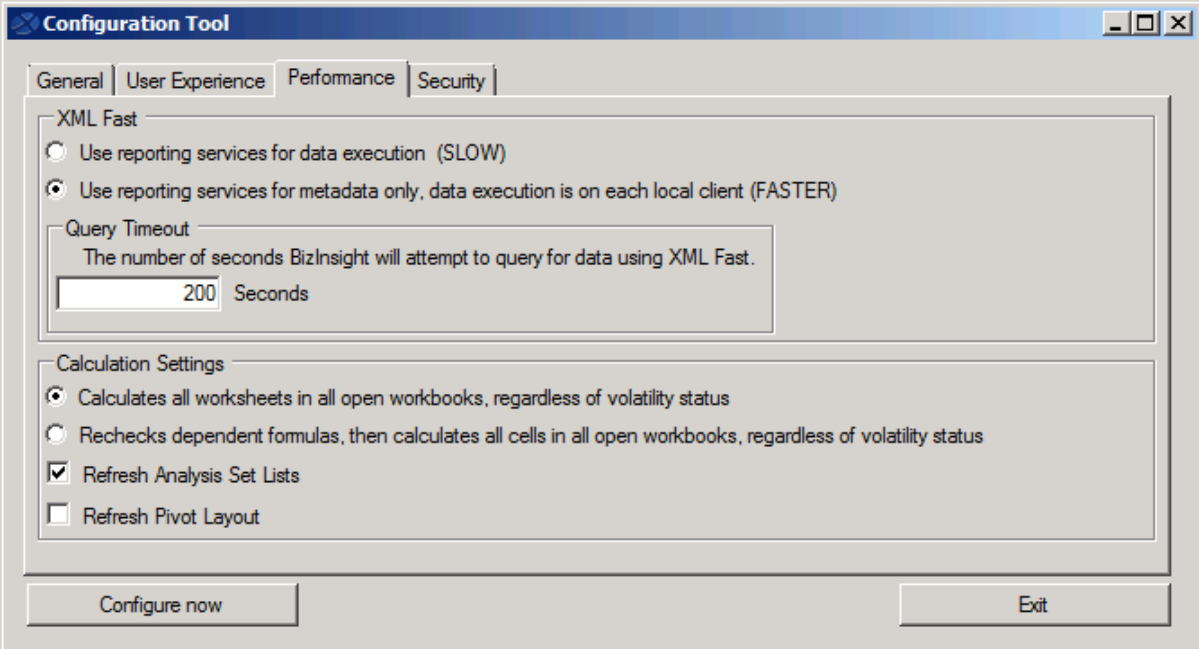


Option	Description
Show Large Filters	When a user drills down on a function, the parameters used for the function are stored in a property of the analysis set. The field in which those values are stored is limited to 255 characters. When the total length of the string representation of the parameters exceeds 255 characters, the string will be truncated to 255 characters. Use this option to store parameters strings that exceed 255 characters in a cell above the analysis set. You will want to do this if you intend to keep the analysis set list in the workbook and have it refresh on subsequent workbook refreshes. The user would need to change the analysis set properties to point to the cell containing the parameters. See section ***3.8.1 Passing Parameters to Analysis Set Lists*** of the User Guide for instructions on how to point the analysis set to that cell.

Option	Description
Refresh Timer	When the BizInsight right-click option to refresh a report is used, a dialog can display at the end of the refresh with information on how long the report took to refresh and how many functions were refreshed. Use this option to turn that dialog on or off. 
Caching Window	BizInsight can be configured to display a caching window for each data cache being built. .This feature is turned off by default.  **IMPORTANT** For Excel 2013 users, this option cannot be enabled if the Formula Editor Pop-up option is enabled.

Option	Description
Formula Editor Popup	This option can be used to control whether the Function Arguments dialog automatically opens for a user when a function is dragged and dropped from the BizInsight Navigation Pane into a worksheet.  **IMPORTANT** For Excel 2013 users, this option cannot be enabled if the Caching Window option is enabled.
Expression Editor Render Mode	The Expression Editor is a BizInsight feature that helps users construct complex expressions for their functions parameters. This option exists to allow customers to switch to hardware graphics rendering to address usability issues with the Expression Editor dialog that may be caused by the client workstation's video drivers.
Expression Editor Start Up Page	Use this option to control whether the Expression Editor will start with the Basic dialog or the Advanced dialog. BizNet Software recommends that this setting be left at the default, Basic mode, for all users.

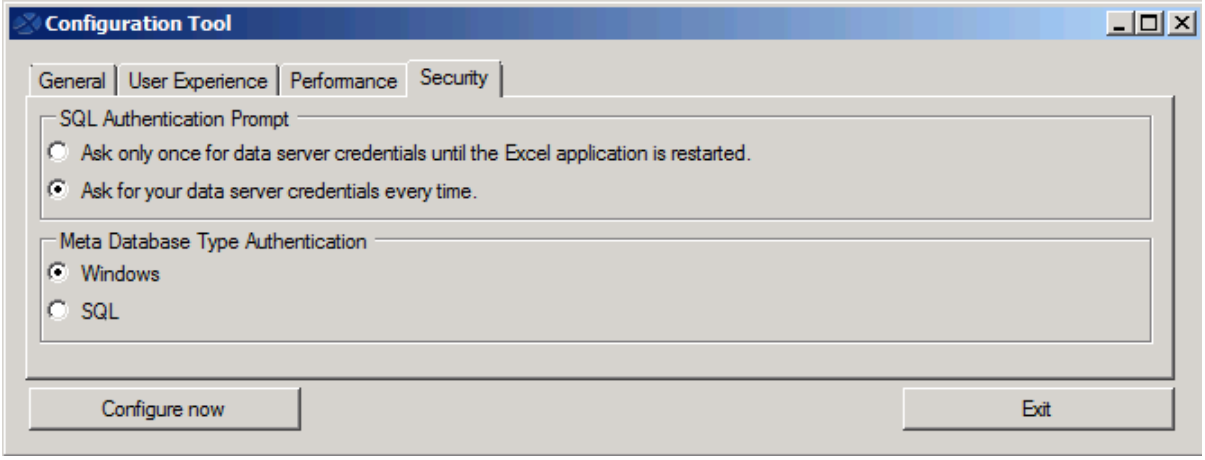
Performance Tab



Option	Description
XMLFast	XMLFast is a feature that was added to BizInsight to improve data retrieval performance. Data is retreived directly from the database server using TCP/IP when this option is enabled. When this option is turned off, the data retrieval is performed by Reporting Services and is generally much slower. BizNet Software recommends leaving XML Fast enabled.
Query Timeout	When large data volumes are being retrieved, use this option to increase the default timeout setting. The most common occurrence of a timeout is during a drill down to transaction detail. If your company has a large chart of accounts and significant transaction volume each month, it is advised to increase this timeout setting.
Calculation Settings	The Calculation Settings options allow you to control the scope of Excel's recalculation of a workbook. Changing these options may result in slower performance but may resolve situations when objects (functions or Excel pivot tables) are not refreshed when a BizNet Refresh is performed. BizNet Software recommends leaving this unchanged and adjusting on an individual basis when necessary.

Security Tab

Use this tab to specify what method of authentication will be used to for data retrieval and for connection to the BizInsight MetaData databases (BizInsight and BizInsightDB SQL databases).



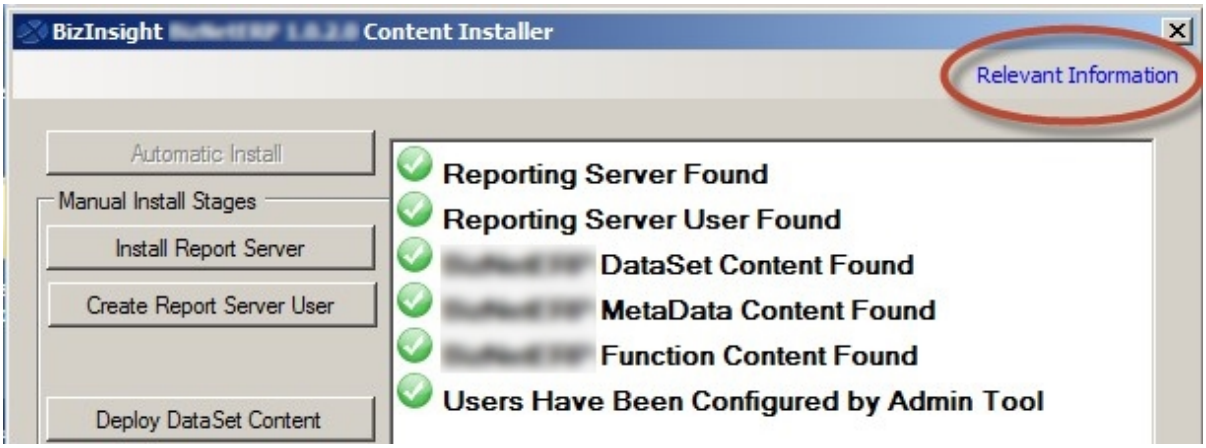
Option	Description
SQL Authentication Prompt	If the BizInsight users will be using SQL credentials to connect to the accounting system database, choose the top option. When BizInsight first attempts to retrieve data for an Excel session, the user will be prompted to provide their SQL credentials and those credentials will be used for all subsequent data retrieval calls as long as that Excel session stays open. The **Ask for your data server credentials every time** option should be used when Windows authentication will be used for all data retrieval calls made to the accounting system database.

Option	Description
Meta Database Type Authentication	Use this section to specify whether Windows authentication or SQL credentials will be used to retrieve data from the BizInsight MetaData databases. This is a completely different data connection than is used for retrieving data from the accounting system database. If the SQL option is selected, a SQL login id and password must be provided in the Application Settings dialog after BizInsight is installed on the client workstation. **WARNING** SQL credentials will be stored in clear text in the resulting configuration file.

Regardless of whether you made changes, click on the **Configure Now** button to create an app.config file that can be copied to each client workstation. Otherwise click on **Exit** to close the configuration tool without creating an app.config file.

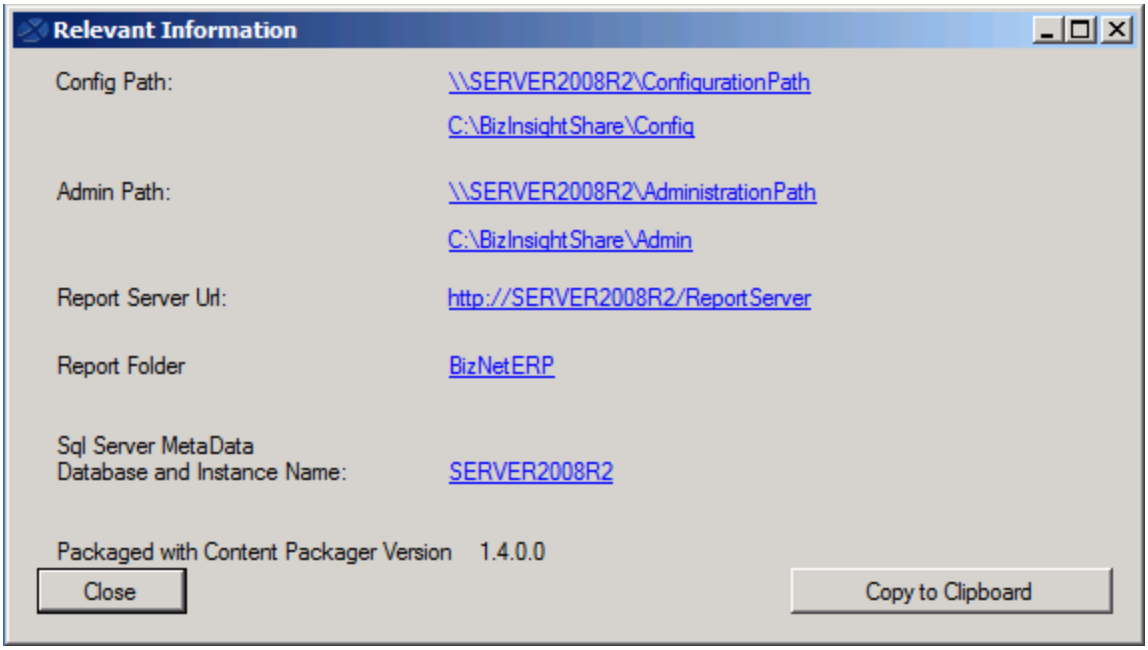
Relevant Information

Click on the Relevant Information link in the upper right corner to view the important paths for your content implementation.



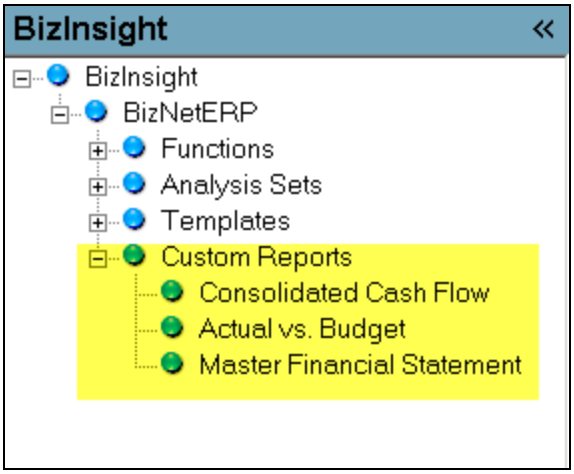
Unless you used the Config Tool to create an app.config file, you will need to provide this information during the BizInsight installation on the client workstation(s).

If you chose separate folders for the admin and config files, the Relevant Information dialog will look similar to the following:



Re-Create Custom Objects

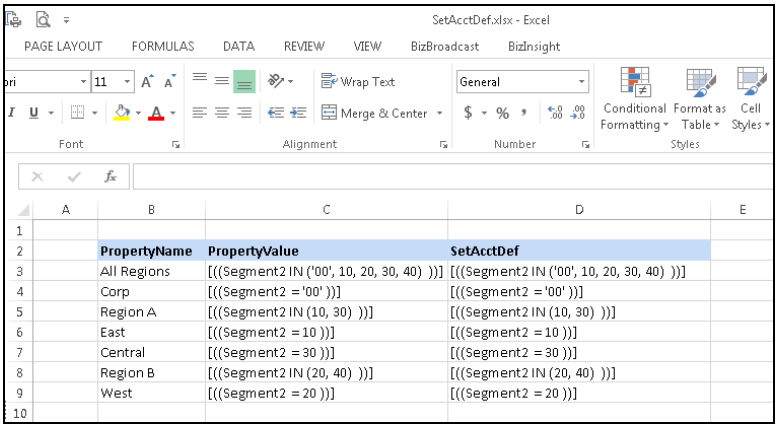
- **Custom Navigation Pane nodes**. These items are most commonly templates. For steps on how to re-add these custom nodes, refer to the section titled "***Templates***" in the User Guide. Ex:



IMPORTANT If BizInsight 5.0.35.1 or higher is installed, the Properties menu can be used to assist in the retrieval of the following custom settings so they can be added back to the new SQL MetaData files. See "Retrieving Custom Properties" on the next page for instructions.

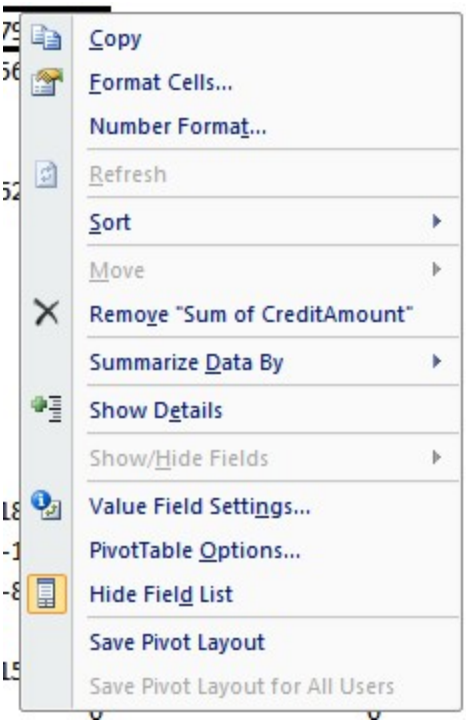
NOTE Custom Navigation Pane nodes cannot be retrieved using the Properties menu.

- Any **Account Definitions**. ou should have a central workbook that contains your account definitions. Just open that workbook and refresh it to recreate your account definitions.



	A	B	C	D	E
1					
2		PropertyName	PropertyValue	SetAcctDef	
3		All Regions	[((Segment2 IN ('00', 10, 20, 30, 40)))]	[((Segment2 IN ('00', 10, 20, 30, 40)))]	
4		Corp	[((Segment2 = '00'))]	[((Segment2 = '00'))]	
5		Region A	[((Segment2 IN (10, 30)))]	[((Segment2 IN (10, 30)))]	
6		East	[((Segment2 = 10))]	[((Segment2 = 10))]	
7		Central	[((Segment2 = 30))]	[((Segment2 = 30))]	
8		Region B	[((Segment2 IN (20, 40)))]	[((Segment2 IN (20, 40)))]	
9		West	[((Segment2 = 20))]	[((Segment2 = 20))]	
10					

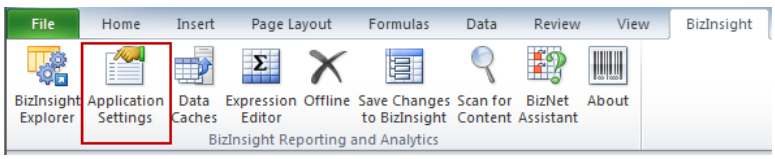
- **Custom pivot layouts**. Custom pivot layouts are created using the Save Pivot Layout option on the BizInsight right-click menu when a BizInsight created pivot layout is right-clicked.



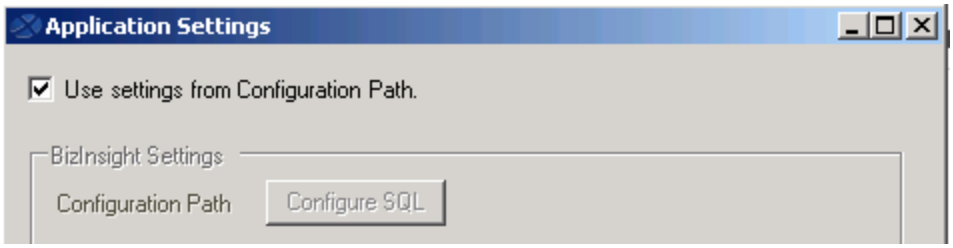
Retrieving Custom Properties

BizInsight 5.0.35.1 provides a Properties menu with an analysis set that can be used to retrieve all custom settings such as Optimize Cache definitions, Account Definitions and custom Pivot Layouts. To recover custom settings, do the following:

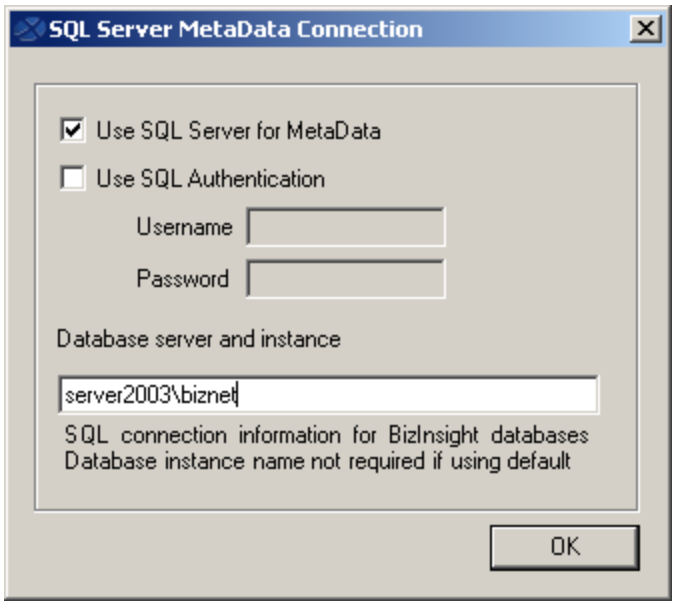
1. Make sure the .biz files containing the customizations reside in the Configuration Path to which BizInsight is pointed.
2. Open BizInsight and click on the **Application Settings** button on the BizInsight ribbon.



3. If the **Use settings fromConfiguration Path** checkbox is checked, uncheck it.

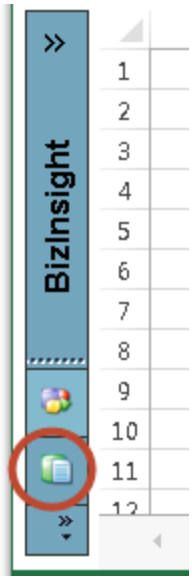


4. Click on the **Configure SQL** button. If the dialog is filled in, take a screenshot of the dialog so that it can be reinstated to original values. Then uncheck the Use SQL Server for MetaData checkbox.

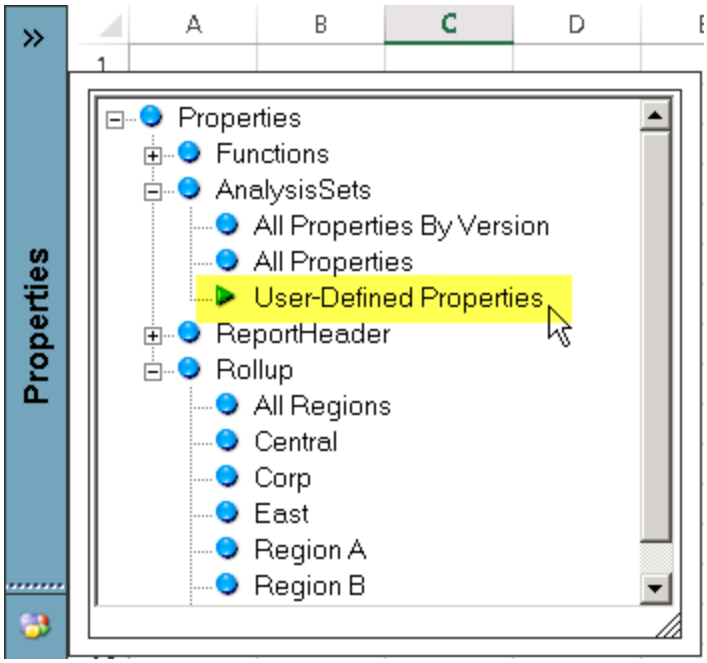


5. On the **Application Settings** dialog, make sure the Configuration Path is pointed to the directory that contains the .biz files. The click **OK** to close. You will be prompted to restart Excel.
6. Re-open Excel.

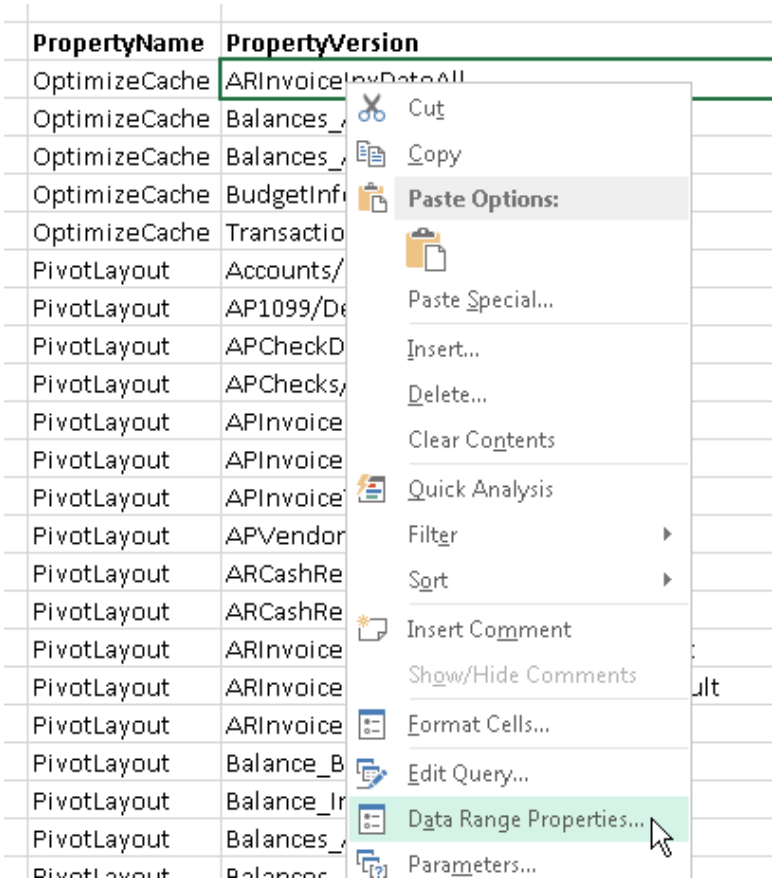
7. Click on the Properties button on the Navigation Pane to display the Properties menu.



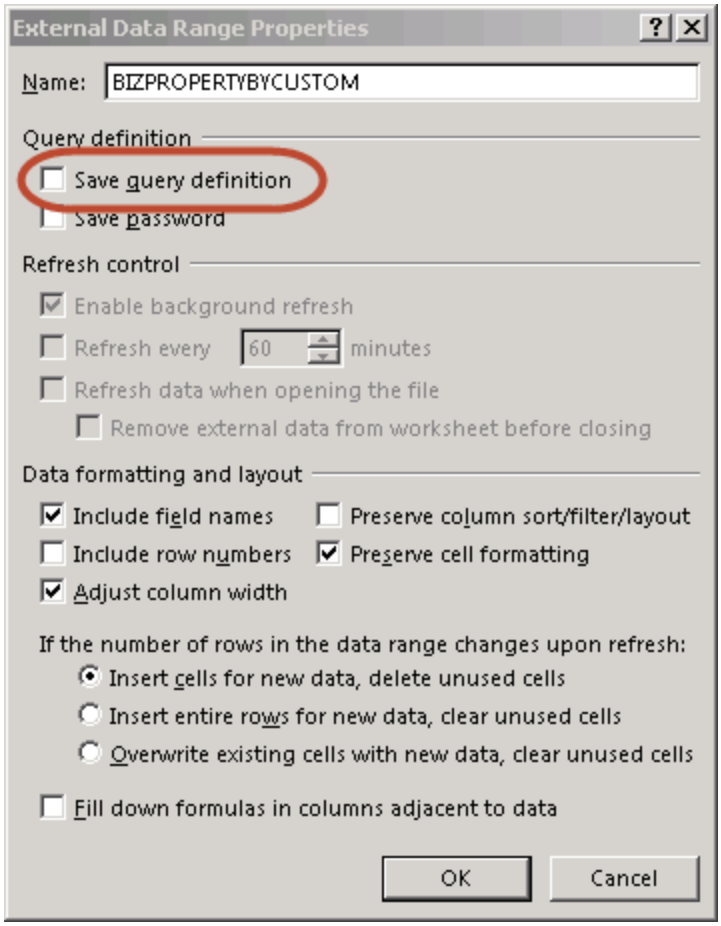
8. Expand the **AnalysisSets** node then drag and drop the **User-Defined Properties** analysis set.



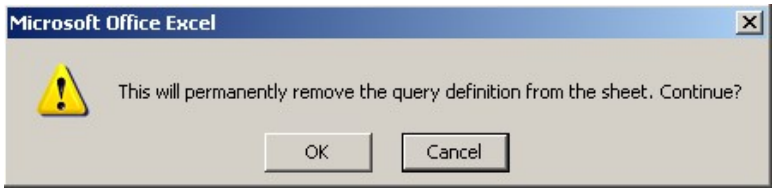
9. Right-click on the analysis set and choose **Data Range Properties**.



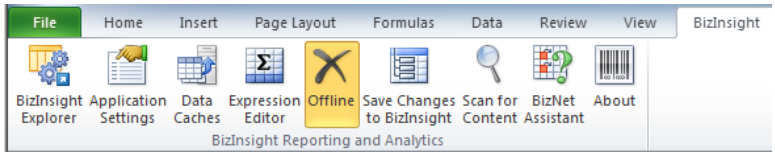
10. Uncheck the **Save query definition** checkbox to make the analysis set static.



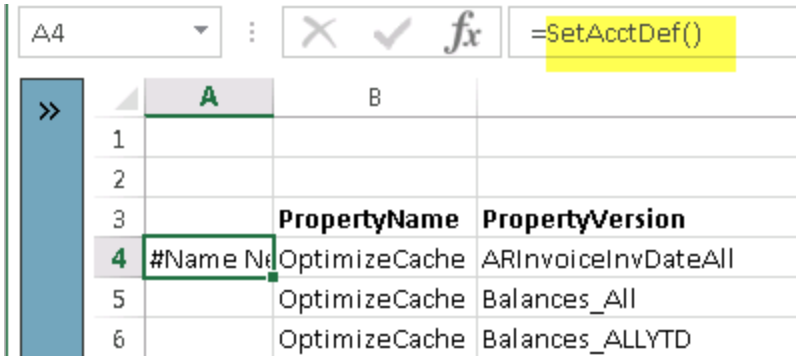
11. Click **OK** to the warning message that opens.



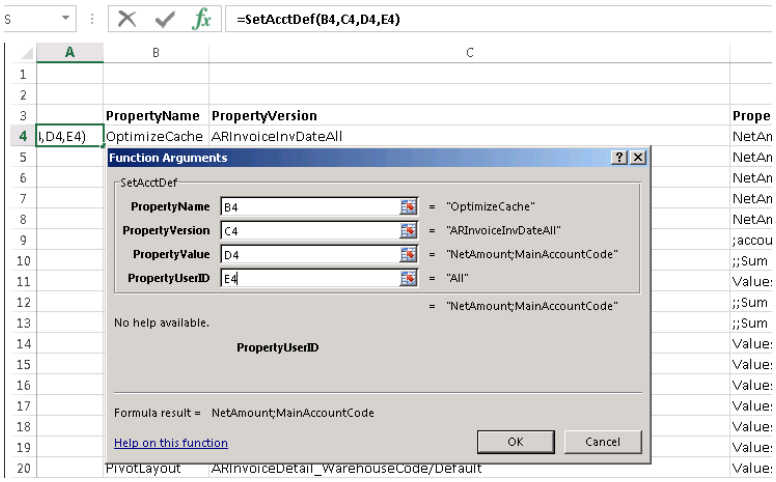
12. Click on the **Offline** button to take BizInsight offline.



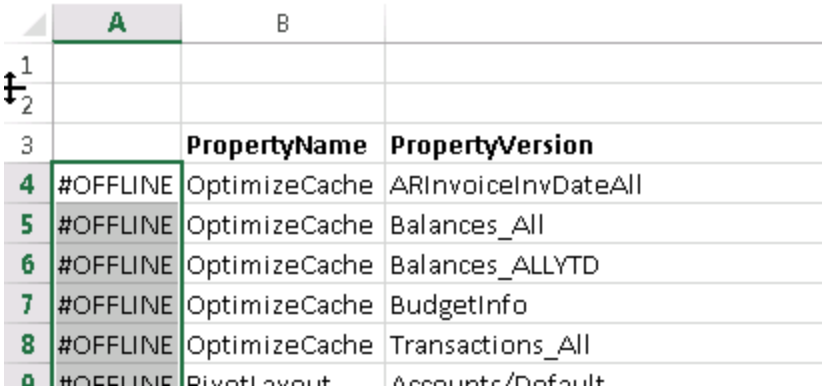
13. From the **Functions** node of the **Properties** menu, drag and drop a **SetAcctDef** function and drop it in a column to the left of the analysis set. Add a column if one is not already there.



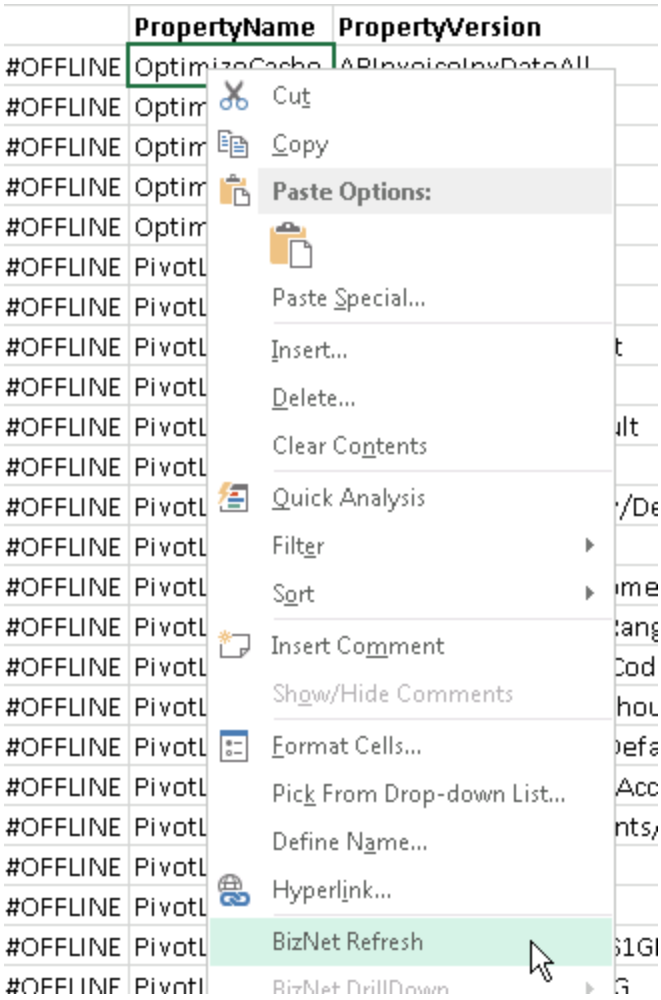
14. Click on the Excel ***fx*** button to open the Function Arguments dialog for the SetAcctDef function and pass in cell references for each of the parameters. The column headers for the analysis set match up with the function parameter names.



15. Copy the SetAcctDef function down for all rows of the analysis set.



	A	B	
1			
2			
3		**PropertyName**	**PropertyVersion**
4	#OFFLINE	OptimizeCache	ARInvoiceInvDateAll
5	#OFFLINE	OptimizeCache	Balances_All
6	#OFFLINE	OptimizeCache	Balances_ALLYTD
7	#OFFLINE	OptimizeCache	BudgetInfo
8	#OFFLINE	OptimizeCache	Transactions_All
9	#OFFLINE	PivotLayout	Accounts/Default

16. Save the workbook.
17. Go back to the **Application Settings** and **Configure SQL** dialogs and restore the settings to the original values.
18. Close and reopen Excel.
19. Load BizInsight.

20. Open the workbook with the SetAcctDef formulas, right-click and choose **BizNet Refresh**. This will create the properties in the new SQL MetaData database.