# Applying Product Updates

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

Sage 100 (ProvideX and SQL)

## Summary

BizNet Software will release updates to BizInsight and BizContent packs. These are two different products and updates to one may not necessitate updates to the other.

When updates are released, an announcement email is sent from the BizNet portal site. Pay attention to whether the updated release was for the BizInsight product or a BizContent pack and follow the steps in this document for whichever product was updated.

Following is a description of the two products to help you determine what you need to update:

**BizInsight**- This product is a generic run-time engine that is added into Excel. This means that updates will be made on each client workstation, or a Terminal Services/Citrix Server if implemented that way. It does not have any server components.

**BizContent** - This product provides the connectivity to your accounting system and provides the functions and analysis sets that are used to retrieve data from the accounting system. Similar to BizInsight, it consists of an add-in to Excel but also has server side elements that will need to be updated when a new version is released. ***Review the system requirements for the content pack to confirm your implemented BizInsight version is compatible***.

BizInsight and BizContent are interdependent products. If you have one, you will have the other.

**Important Information**

- Be sure to plan the implementation of the update for a time when reporting needs are low just in case issues are encountered during the update.
- The Sage 100 BizContent packs use a new installation method. If this is your first time to update a content pack using the new installation method **AND** you own multiple content packs (AP, AR, MC, etc), you must re-implement those additional content packs using the new installation method. Download the latest versions of these additional content packs and implement them as well.

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- After upgrading you will have to recreate all Navigation Pane nodes and refresh any Optimize Cache and Account Definition workbooks. Future updates will not require this step.

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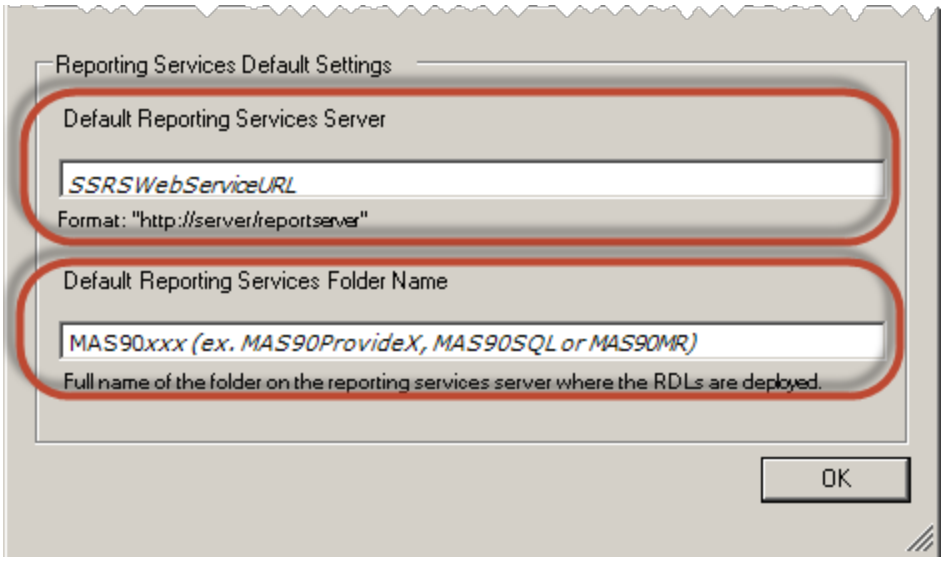
# Updating BizContent

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.

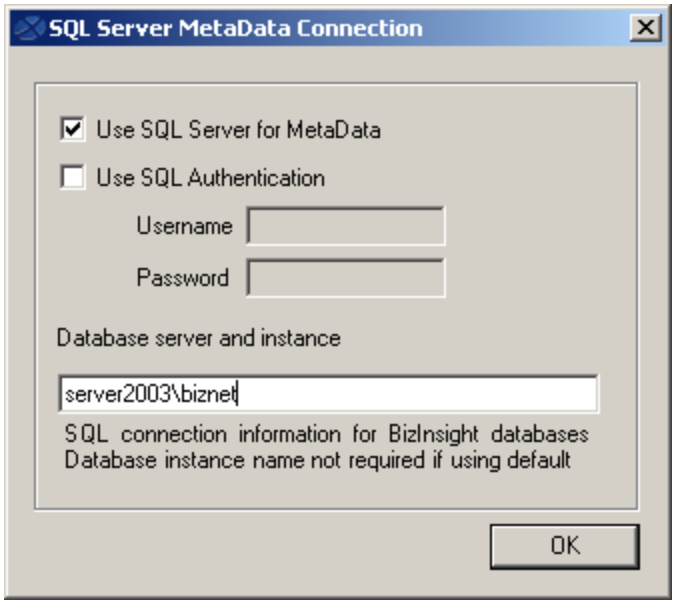
- IMPORTANT **For Sage 100 ProvideX customers, the installer *must* be run on the server where the Sage 100 ProvideX data files reside.**
- **The server operating system is one of the following:**
  - Windows Server 2003 R2 (SP2 or later)
  - Windows Server 2008 (SP2 or later)
  - Windows Server 2008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

## Step 1: Run Content Installer

1. Go to a workstation with BizInsight installed, start Excel and click on the Application Settings button on the BizInsight ribbon menu. Make a note of the reporting services URL currently being used and the reporting services folder name. You will need these two pieces of information for the content deployment.



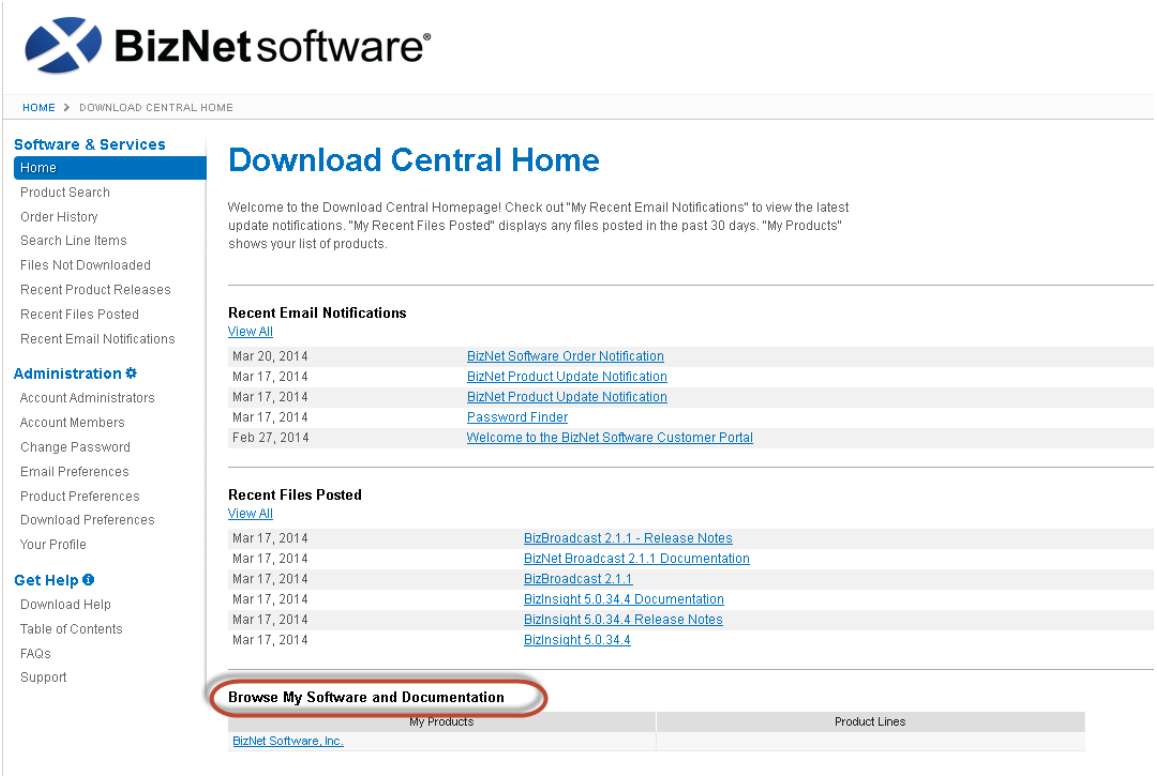

2. Before closing the Application Settings dialog, click on the **Configure SQL** button to see if you are using SQL metadata databases. If this dialog is configured, you are using SQL metadata databases.



3. Make backups of the BizInsight metadata databases.

   - If you are using SQL metadata databases, go to the server, open SQL Management Studio and backup each of the databases (BizInsight and BizInsightDB).
   - If you are not using SQL metadata databases, browse to the Configuration Path directory and backup the current .biz files (BizInsight.biz and BizInsightDB.biz) by moving them to a backup folder. **Do not leave the biz files in the Configuration Path during the Content Installer installation**.

4. Go to the database server and download the updated content installer file. All content can be downloaded from the BizNet Software portal, (http://biznet.flexnetoperations.com). All files can be found under "Browse My Software and Documentation".

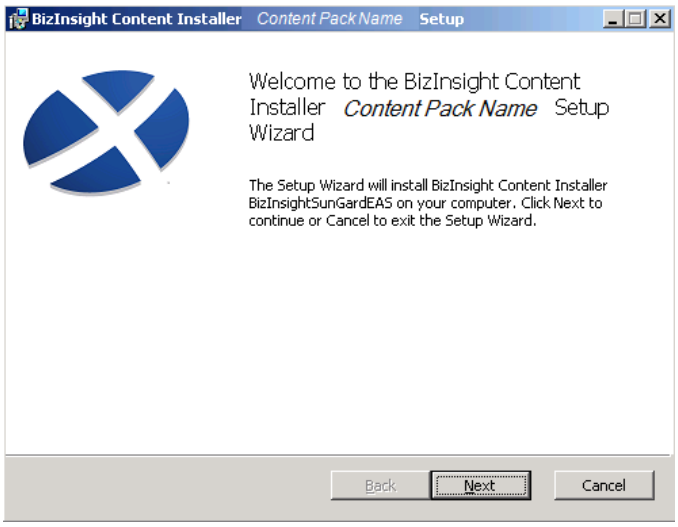



5. Extract the contents of the download file on the server and double-click the file named “Setup.exe”.

   **IMPORTANT** For Sage 100 ProvideX customers, this installer **must** be run on the server

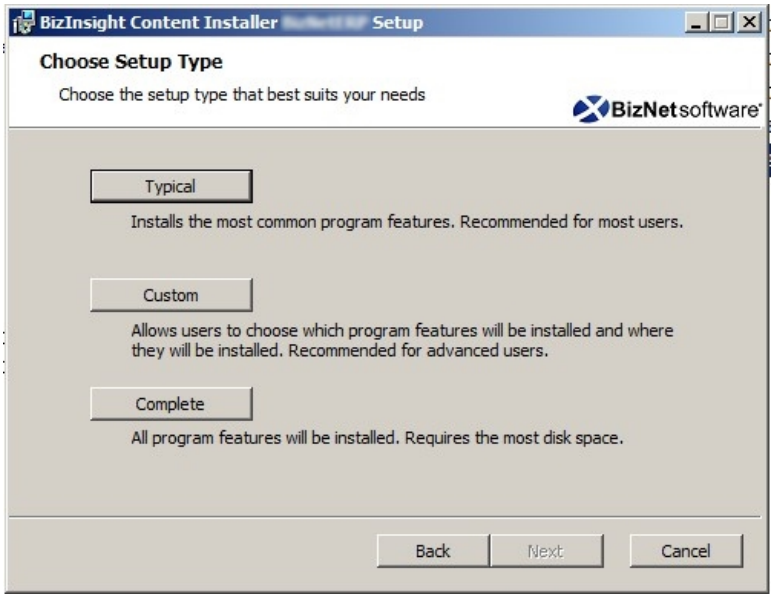
where the Sage 100 ProvideX data files reside.The content installer must be run on the server where the SQL database resides or where a SQL database engine is installed. It is not designed to be run from a client workstation.

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

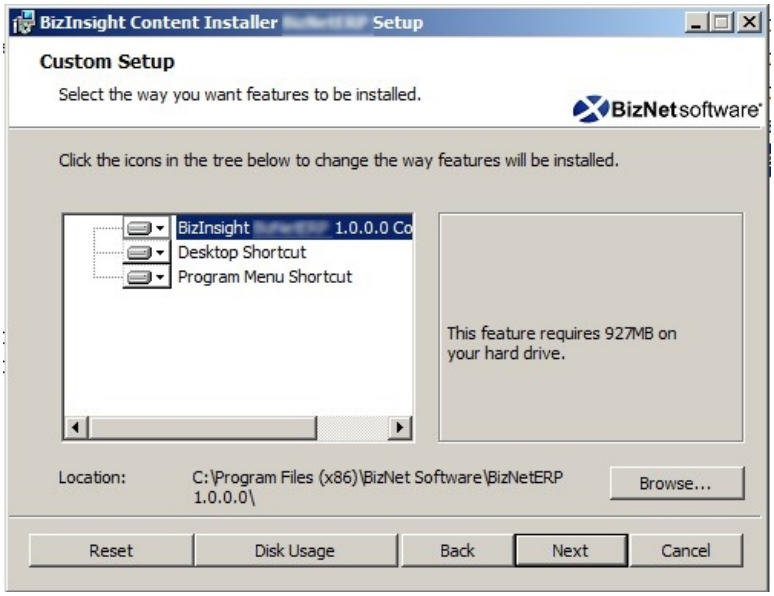



7. Review the End User License Agreement and if you agree to the terms, check the **I accept the terms in the License Agreement** checkbox and click **Next**.

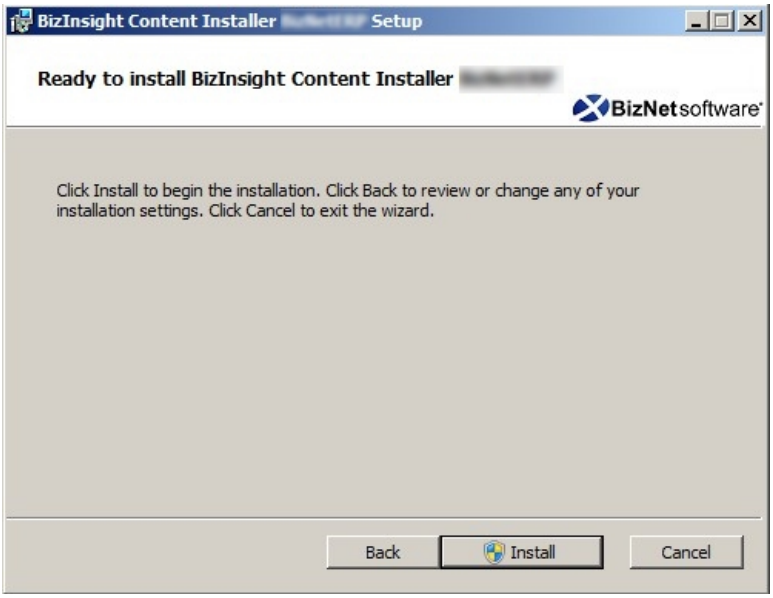
8. Click on the desired **Setup Type** button.



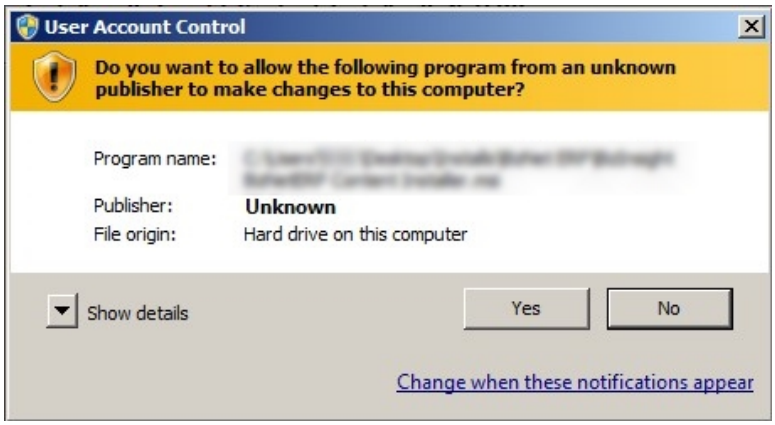

Custom setup type options that are available:



9. Click **Install**.




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

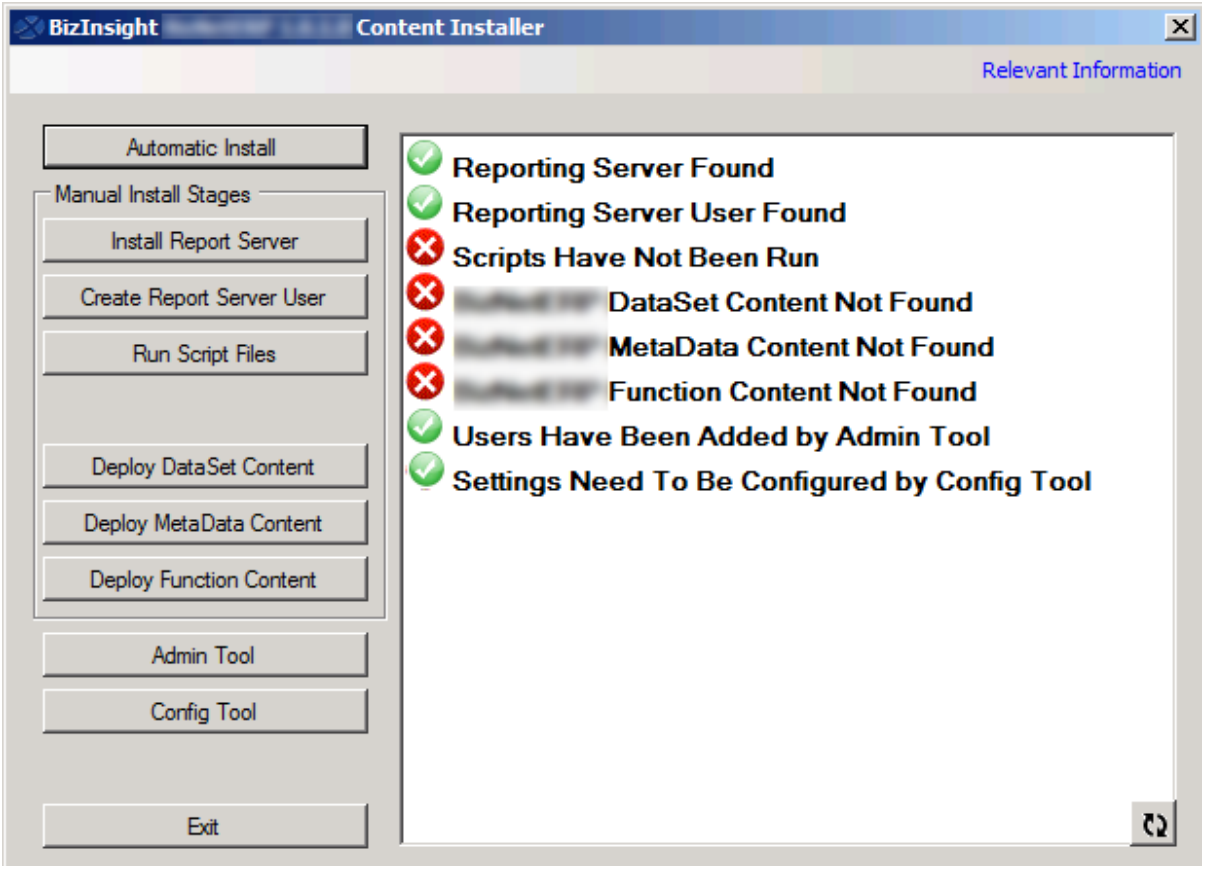



11. When the installer completes, an icon will exist on the desktop if you did not disable the creation of shortcuts.

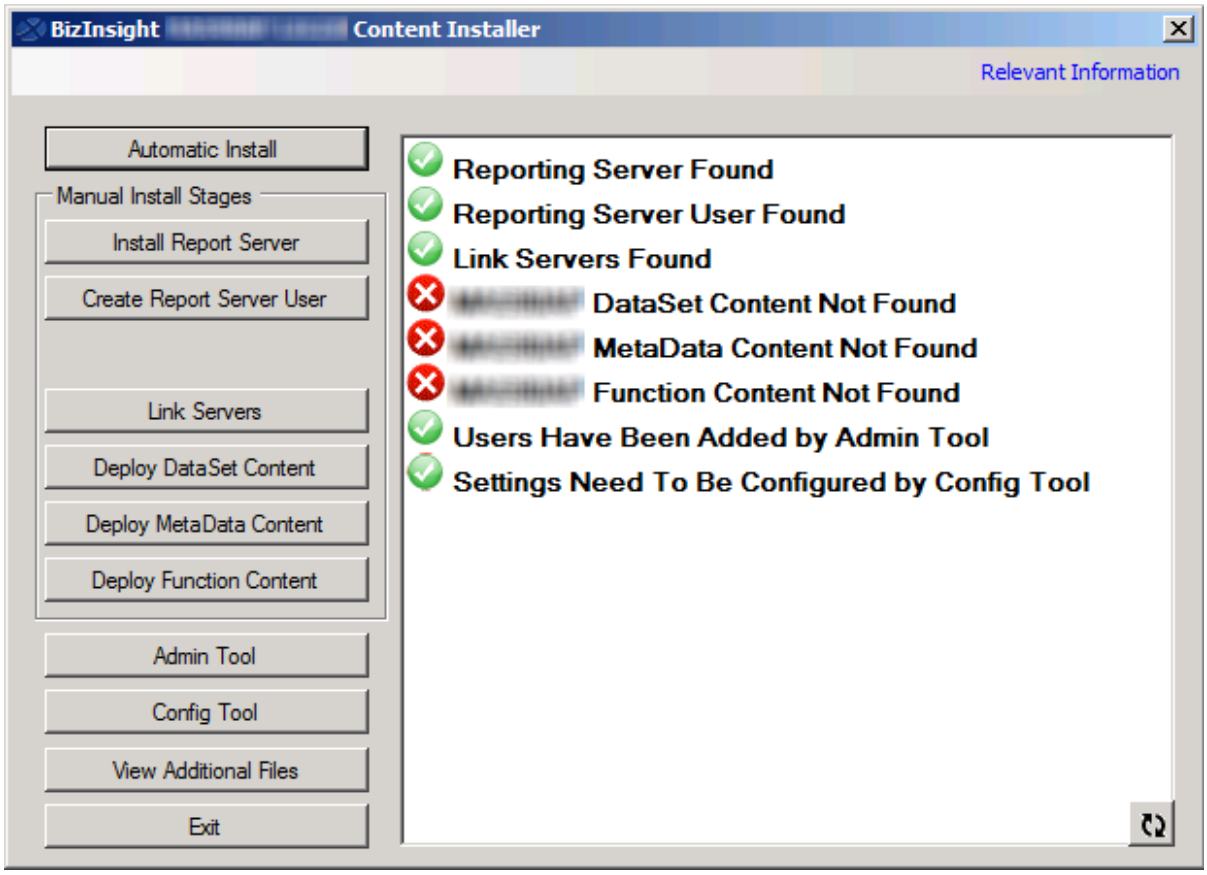
12. Double-click the shortcut on the desktop to launch the content installer. If you chose a Custom installation and disabled the creation of shortcuts, you must browse to the

directory to which the content was installed and double-click the BizNet Content Installer.exe.

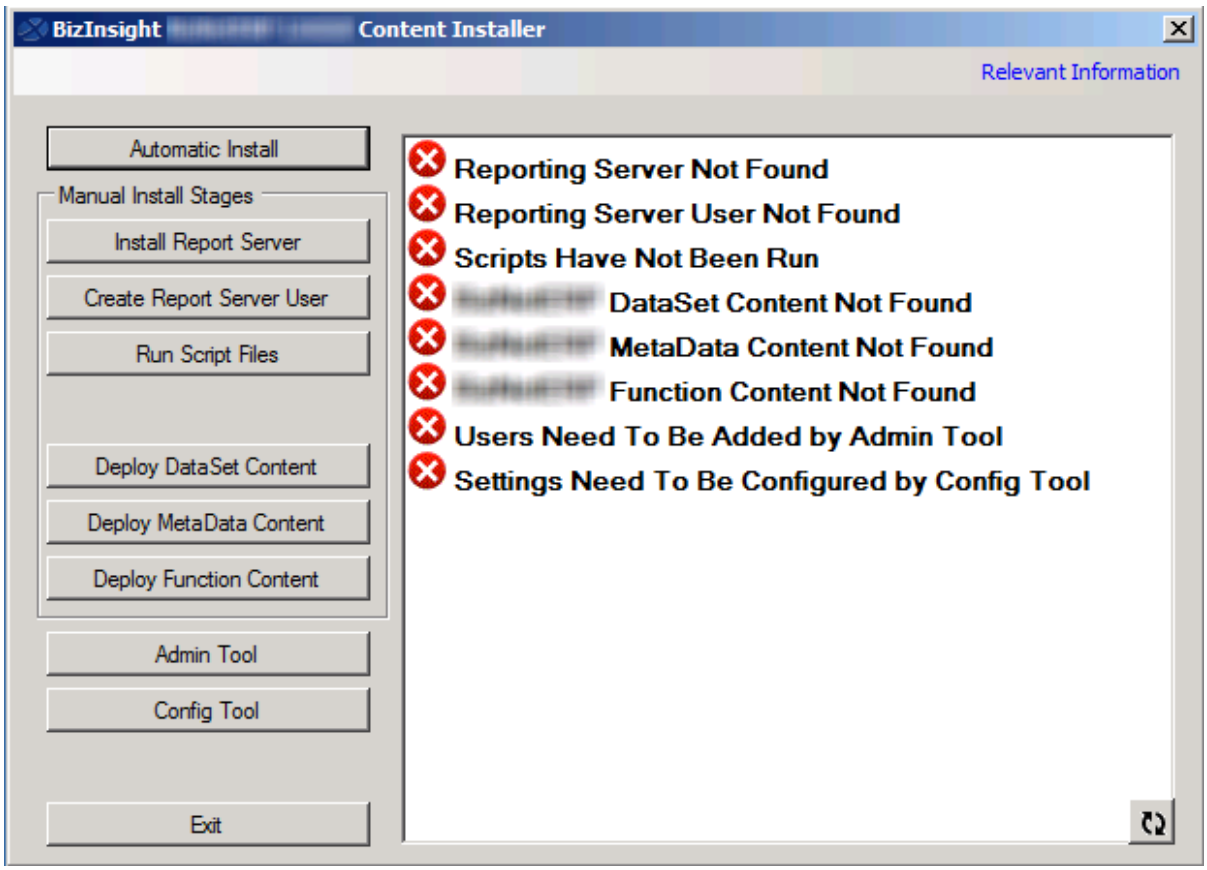
13. The content installer will inspect the server and determine what elements already exist on the server and indicate their presence.



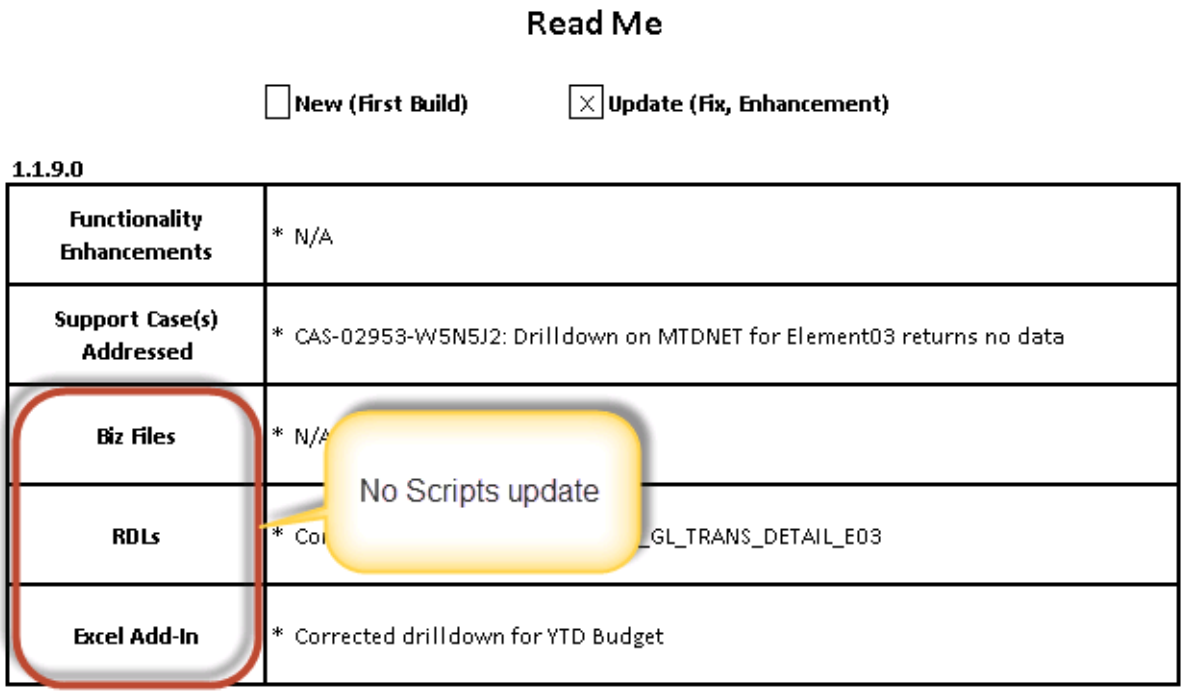

For Sage 100 ProvideX customers, the dialog will look just a little different:


BizInsight 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 Found
Reporting Server User Found
Link Servers Found
DataSet Content Not Found
MetaData Content Not Found
Function Content Not Found
Users Have Been Added by Admin Tool
Settings Need To Be Configured by Config Tool

**IMPORTANT** If this is the first time you have installed anything with the content installer, nothing will be detected. In this case, see "Automatic Install" on page 68 of the Appendix for further instructions.




14. If there is a Run Scripts button showing, check the Readme tab of the Content Specifications workbook to see if there was an update to the scripts (unlikely). If the Readme does not indicate a change,you can skip the Run Scripts button.



Read Me

☐ New (First Build) ☒ Update (Fix, Enhancement)

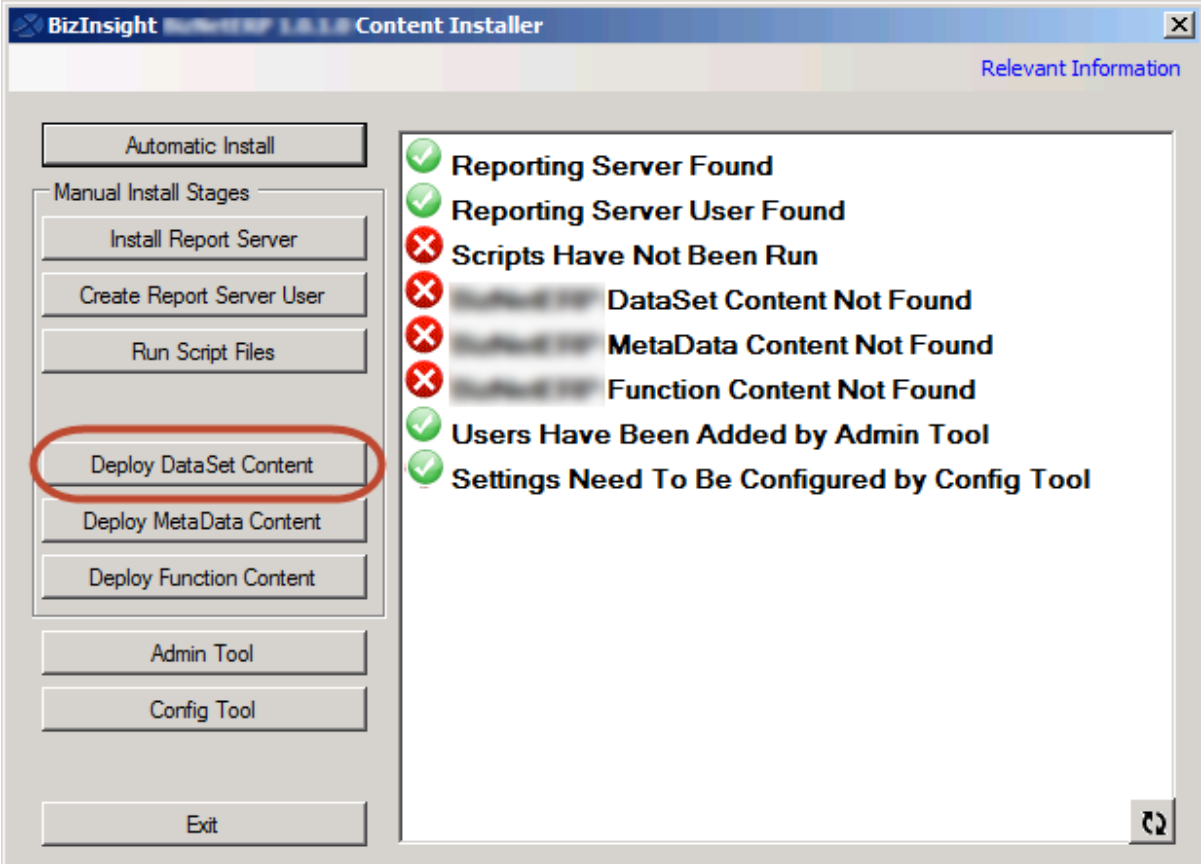
1.1.9.0

| | |
|---|---|
| Functionality Enhancements | * N/A |
| Support Case(s) Addressed | * CAS-02953-W5N5J2: Drilldown on MTDNET for Element03 returns no data |
| Biz Files | * N/A |
| RDLs | * Co _GL_TRANS_DETAIL_E03 |
| Excel Add-In | * Corrected drilldown for YTD Budget |

No Scripts update

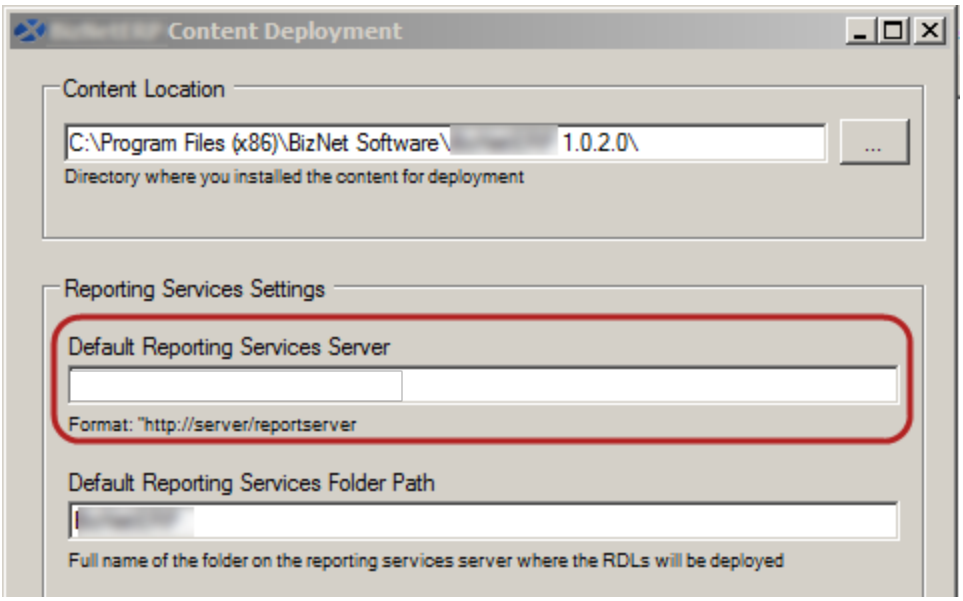
The Content Specifications workbook can be found with the content installer setup.exe file.

15. Click the **Deploy DataSet Content** button.

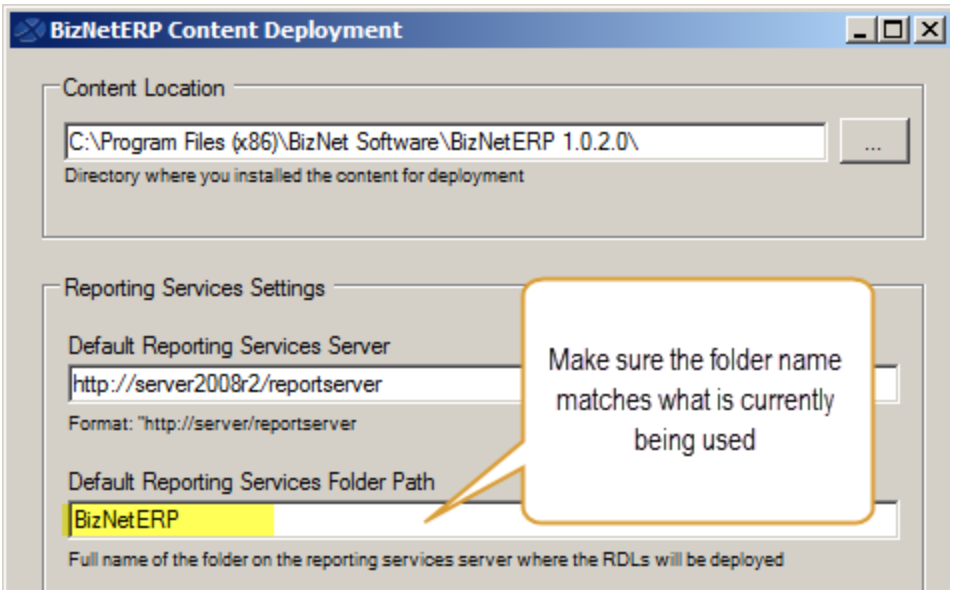



16. The content installer will open the content deployment dialog. Most paths will not need to be changed. But you must check the following to make sure they are correct:

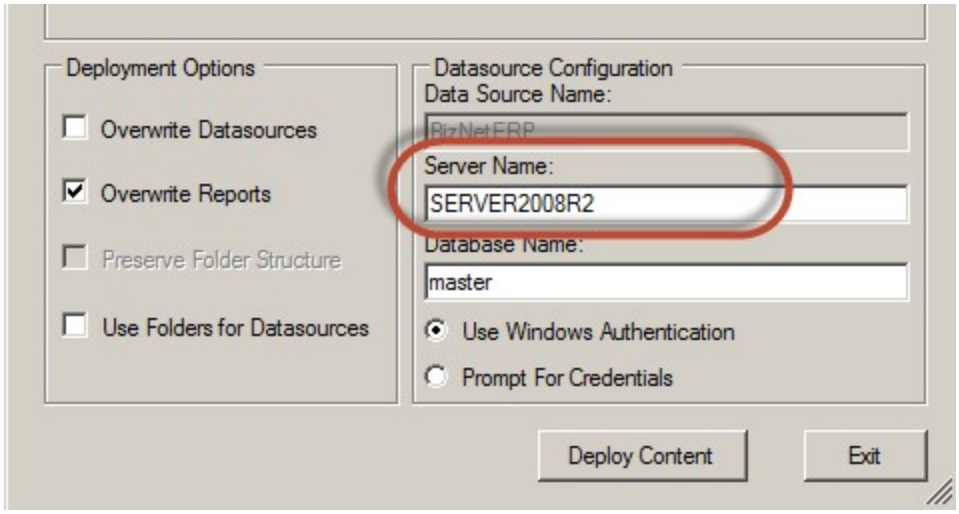
    a. Verify that the **Default Reporting Services Server** field contains the correct URL based on what was noted from Step 1 above. If this field is blank or incorrect, type in the correct Reporting Services URL.



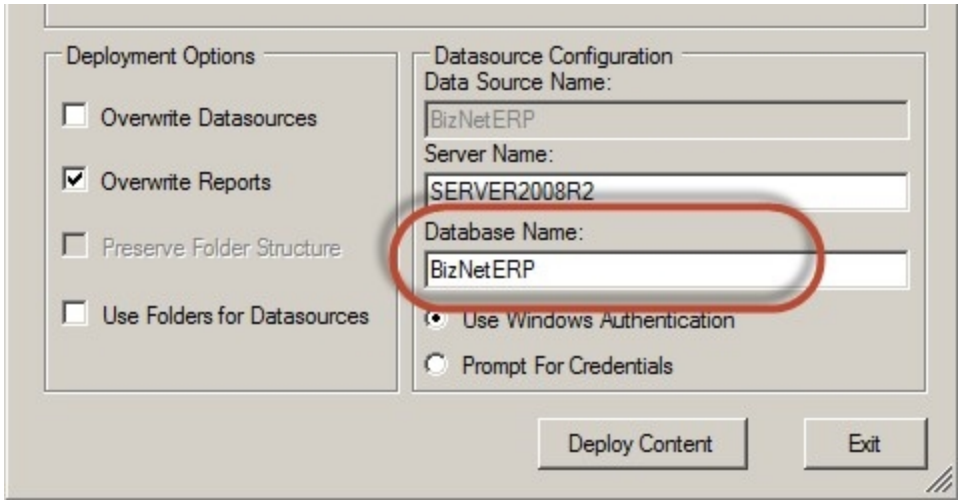

b. **IMPORTANT** Make sure the folder name is the folder name currently being used (noted in Step 1 above). If the folder is not the same, change the name to match the folder name currently being used.



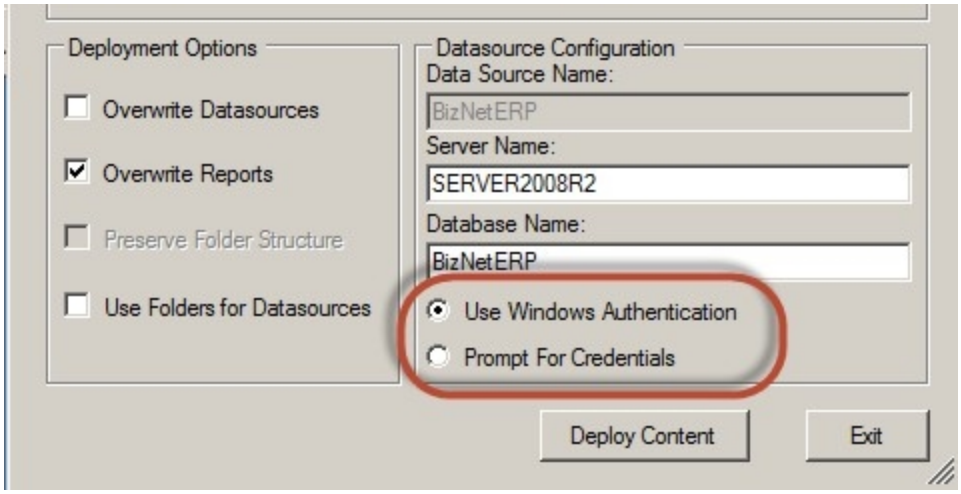
c. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Server Name** field if your accounting system database is on another server.



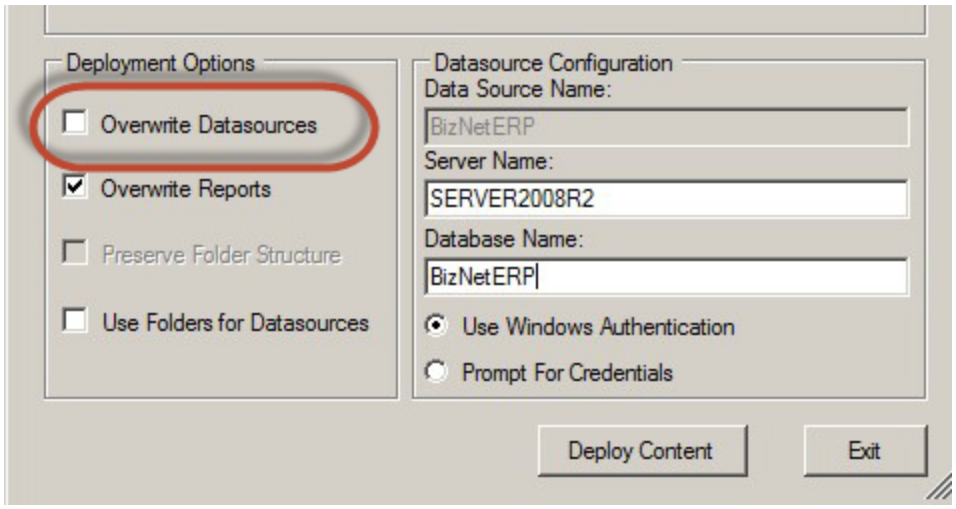

d. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name.



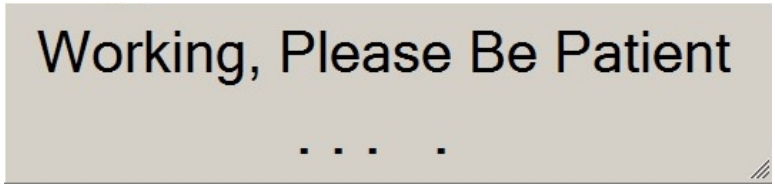
e. **Skip this step if you are using Sage 100 ProvideX - data can only be retrieved using Windows authentication**.
Select the desired authentication method – Windows authentication or Prompt for Credentials.




f. Make sure the **Overwrite DataSources** checkbox is unchecked.



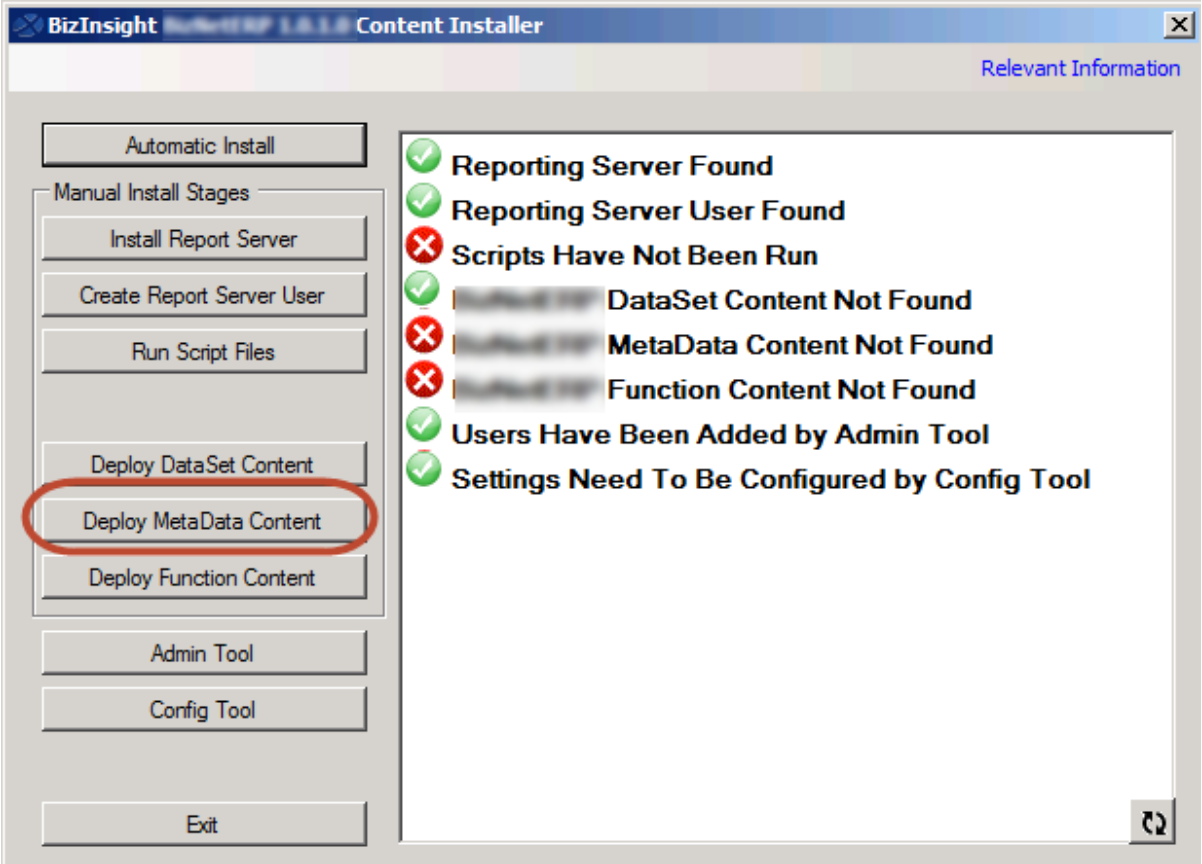
g. Click **Deploy Content** to continue.



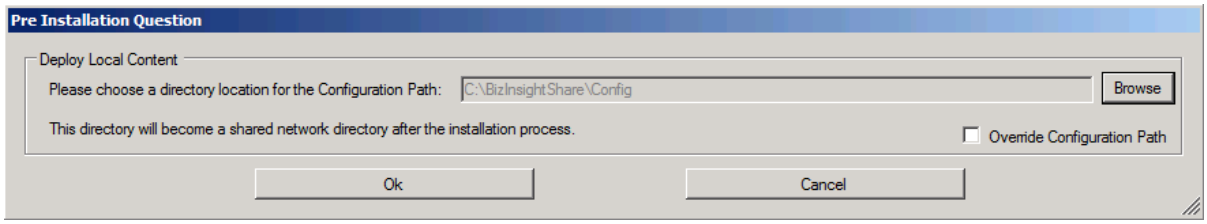

The **Content Deployed Successfully** dialog will open and display the Web Service and the Report Manager URLs. Click **Close**.

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

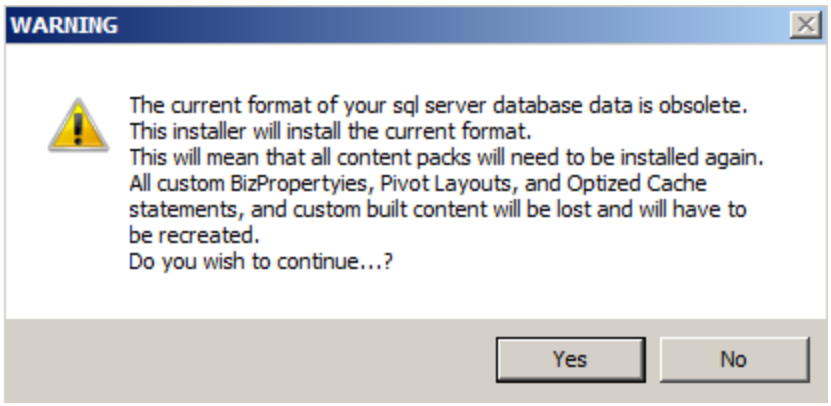
17. Click the **Deploy metadata Content** button.




18. The Local Content path will already be completed with the path used for previous content installations. If this path is still valid, click **OK**. Otherwise, Browse to the folder to use for the Configuration Path and then click **OK**.

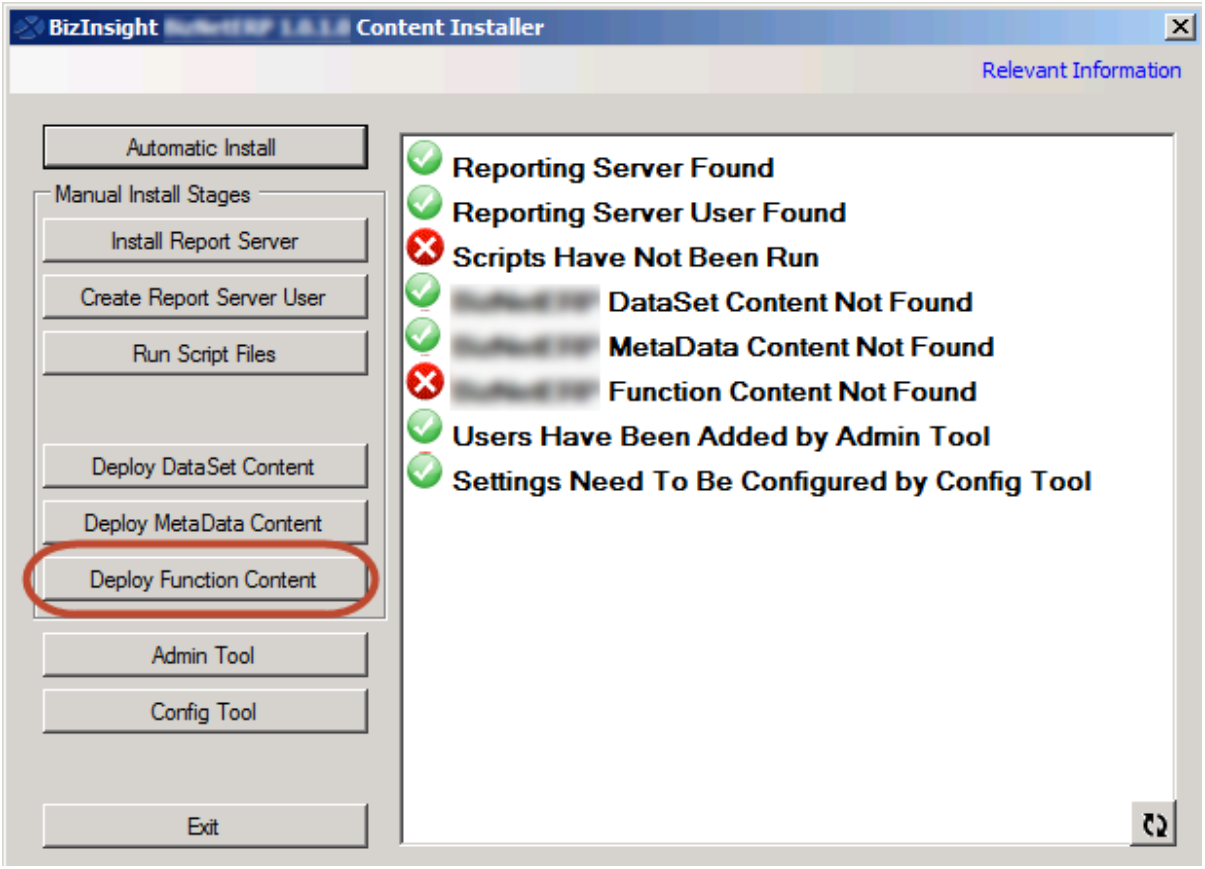



The following error may occur if the SQL Server instance already has metadata databases (BizInsight and BizInsightDB databases) and the existing metadata databases were not created with a Content Installer.

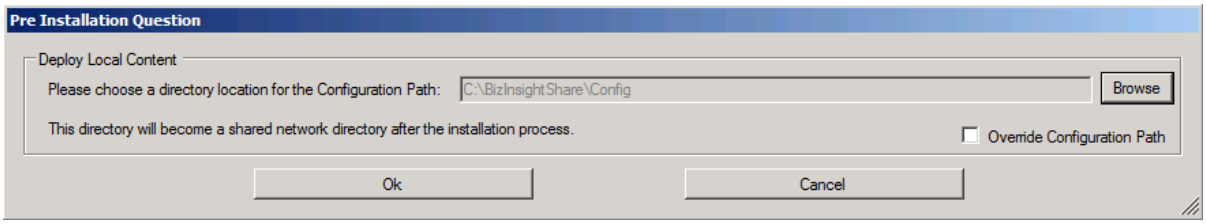



If the above message occurs, you must recreate all custom Navigation Pane nodes and refresh any Optimize Cache and Account Definition workbooks after the installation completes. Subsequent installations should not require this step. There is more information regarding recreating your custom objects in the section titled "Re-Create Custom Objects".

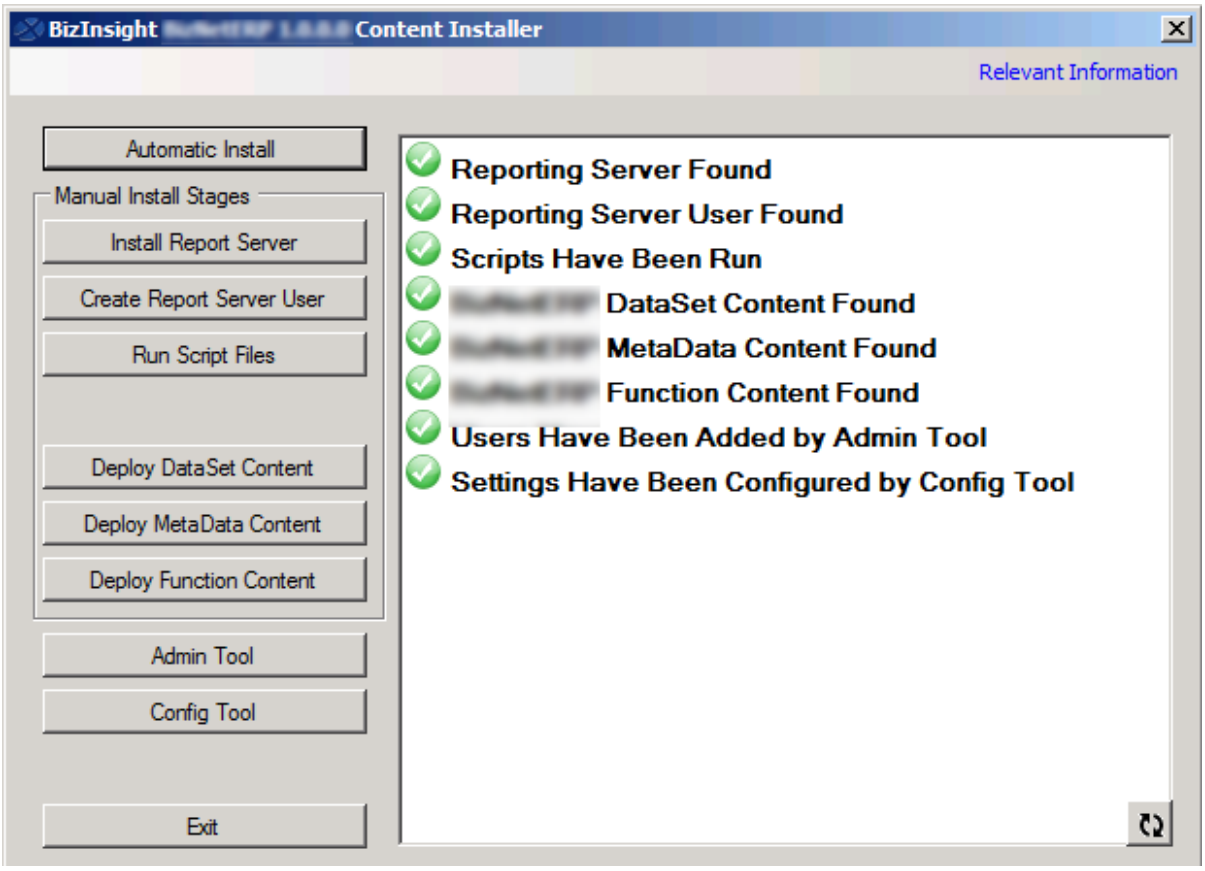
19. Click the **Deploy Function Content** button.




20. The Local Content path will already be completed with the path used for previous content installations. If this path is still valid, click **OK**. Otherwise, Browse to the folder to use for the Configuration Path and then click **OK**.



21. Once all elements have green check marks, click **Exit**.



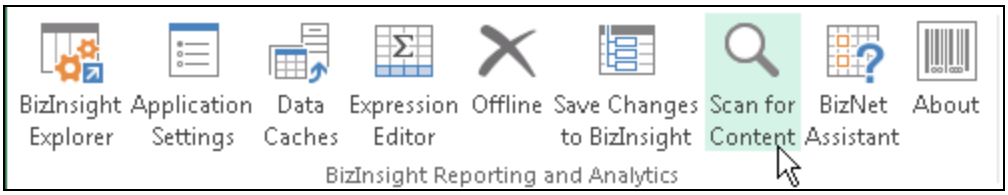

Repeat these steps for any other BizContent pack updates.

# Step 2: Updating Client Workstations with new Content

Once all BizContent updates have been applied to the server, each client workstation installation needs to be updated with the new content add-in files.

If BizInsight is being used in a Citrix/Terminal Services environment, see "Updating BizInsight Content on a Citrix/Terminal Services Server" on the next page.

If BizInsight is installed on individual workstations, instruct all BizInsight users to click on the **Scan for Content** button on the BizInsight ribbon in Excel to update their workstations with the new content.




If the users report that the Scan for Content button is missing, they may not have the most current BizInsight version. The Scan for Content button was added in version . BizNet Software recommends downloading and installing the latest BizInsight version but if you must use an older version, see "Manually Installing BizContent Add-ins" on page 101.

If your users report an error similar to the following when opening Excel again, see "Resolving ".xll could not be found" errors" on page 141 for steps to resolve.

# Updating BizInsight Content on a Citrix/Terminal Services Server

1. Copy all new BizContent add-in files (.dll, .dna and .xll) from the Configuration Path to the local BizInsight directory. You will be replacing the ones that should already be there with the new versions. If you do not know the location of the Configuration Path, launch the Content Installer on the server and click on the Relevant Information link in the upper right of the dialog.

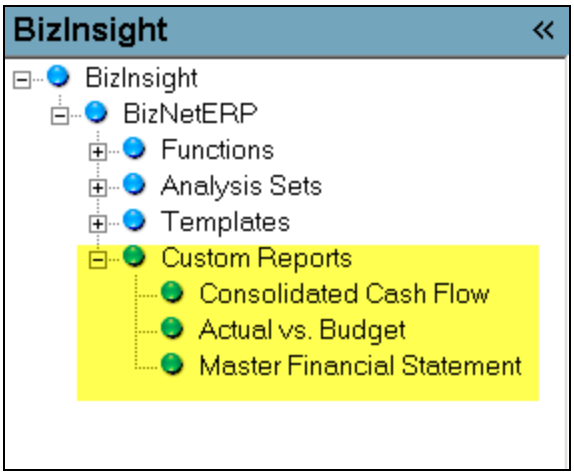
   **IMPORTANT** If you are not prompted to replace existing files when you copy in the new files, that means one or more of the add-in file names have changed (rare but does happen). In that circumstance, you must do the following additional steps:

   i. Open the file named "**Excel*xxxx*_register_OnDemand.reg**" and change the OPEN*n* entry for the add-in that had its name changed so that the name of the add-in matches the new filename. Save your changes.

   ii. Have each BizInsight user execute the "**Register BizInsight for Excel *xxxx* OnDemand.bat**" to register the content for their login.

# Step 3: Re-Create Custom Objects

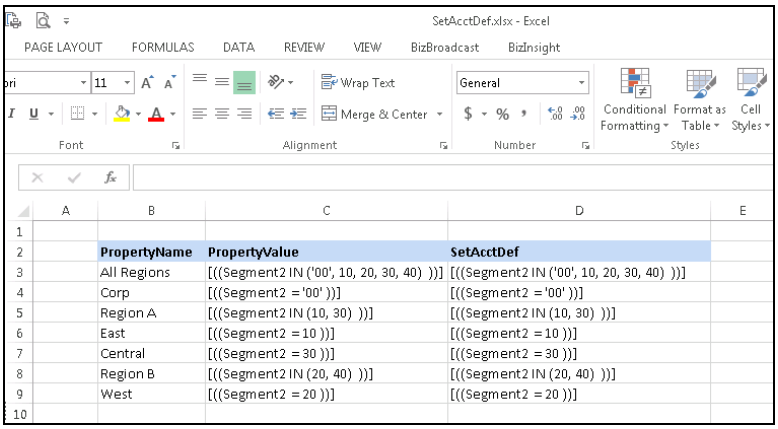
- **Custom Navigation Pane nodes**. These items are most commonly templates. For steps on how to re-add these custom nodes, refer to the section titled "***Templates***" in the User Guide. Ex:




**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.

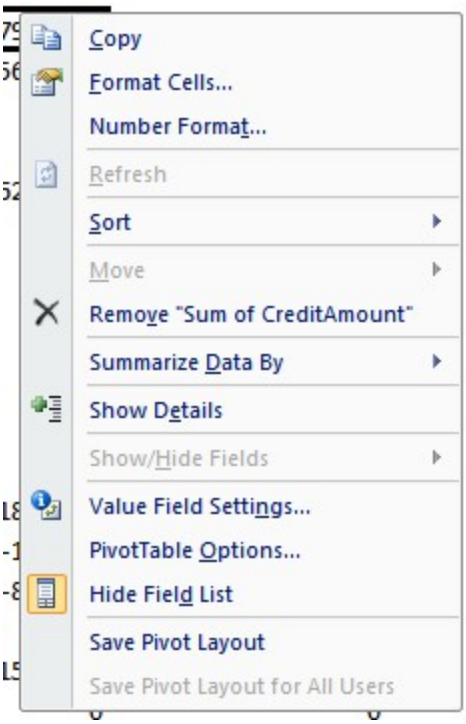
***NOTE*** Custom Navigation Pane nodes cannot be retrieved using the Properties menu.

- 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 | | | | | |

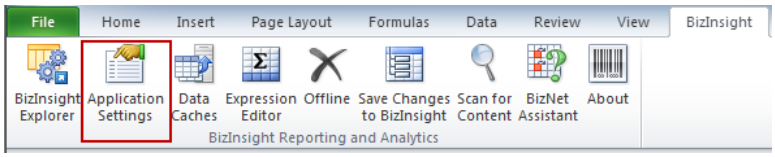
- **Custom pivot layouts**. Custom pivot layouts are created using the Save Pivot Layout option on the BizInsight right-click menu when a BizInsight created pivot layout is right-clicked.



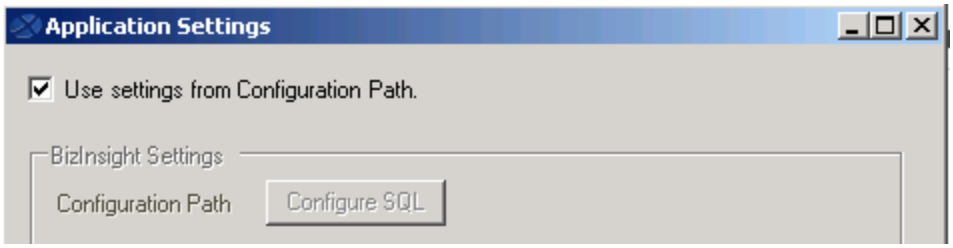

# Retrieving Custom Properties

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:

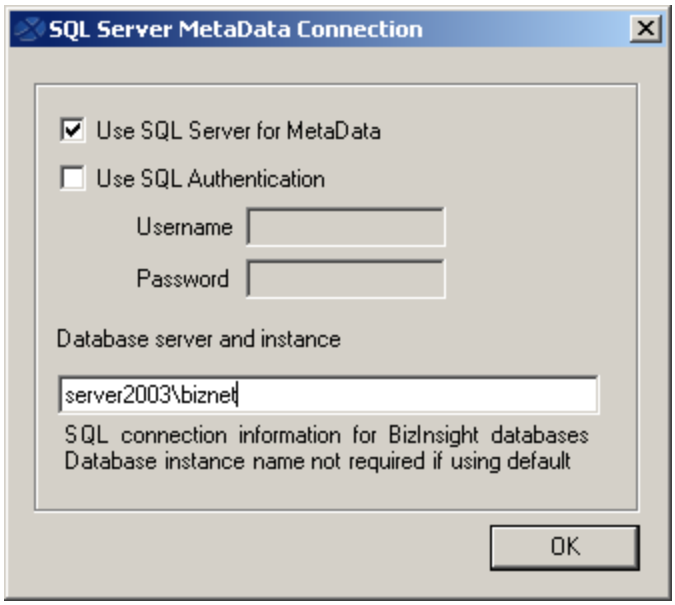
1. Make sure the .biz files containing the customizations reside in the Configuration Path to which BizInsight is pointed.
2. Open BizInsight and click on the **Application Settings** button on the BizInsight ribbon.



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

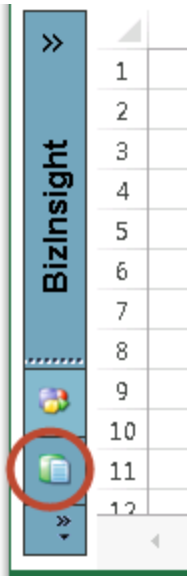



4. Click on the **Configure SQL** button. If the dialog is filled in, take a screenshot of the dialog so that it can be reinstated to original values. Then uncheck the Use SQL Server for MetaData checkbox.

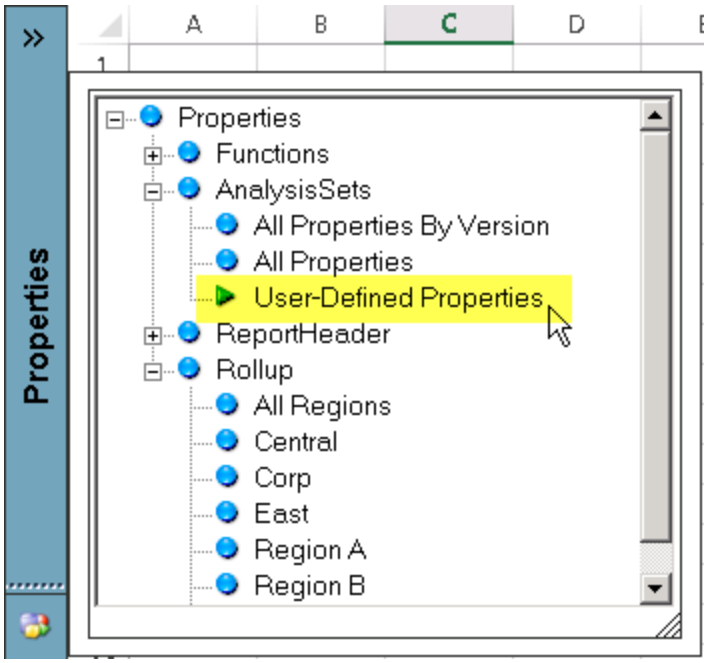



5. On the **Application Settings** dialog, make sure the Configuration Path is pointed to the directory that contains the .biz files. The click **OK** to close. You will be prompted to restart Excel.
6. Re-open Excel.

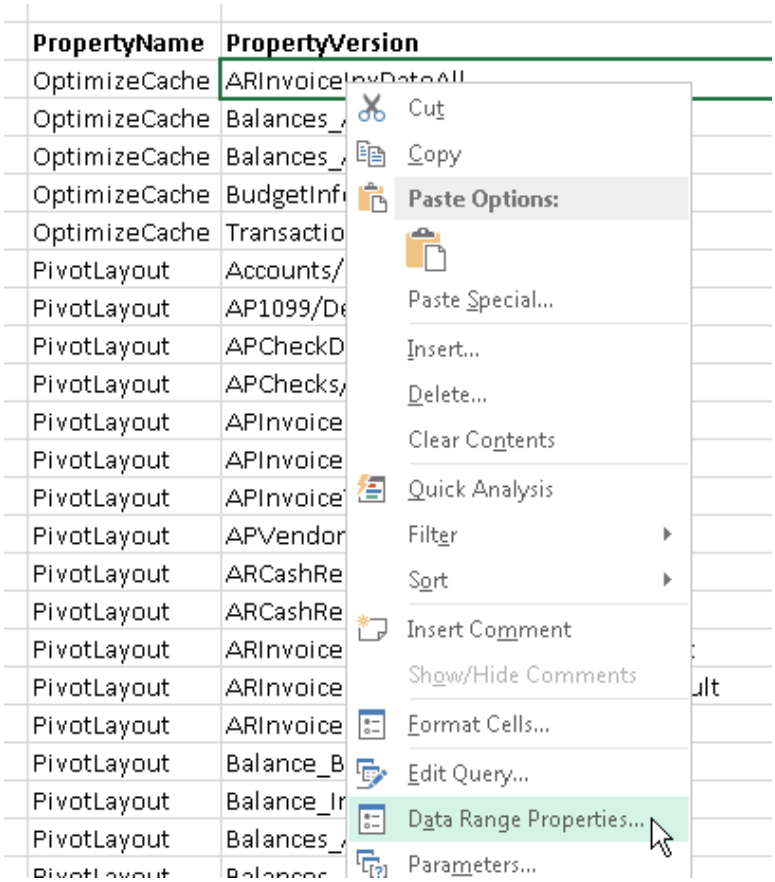
7. Click on the Properties button on the Navigation Pane to display the Properties menu.



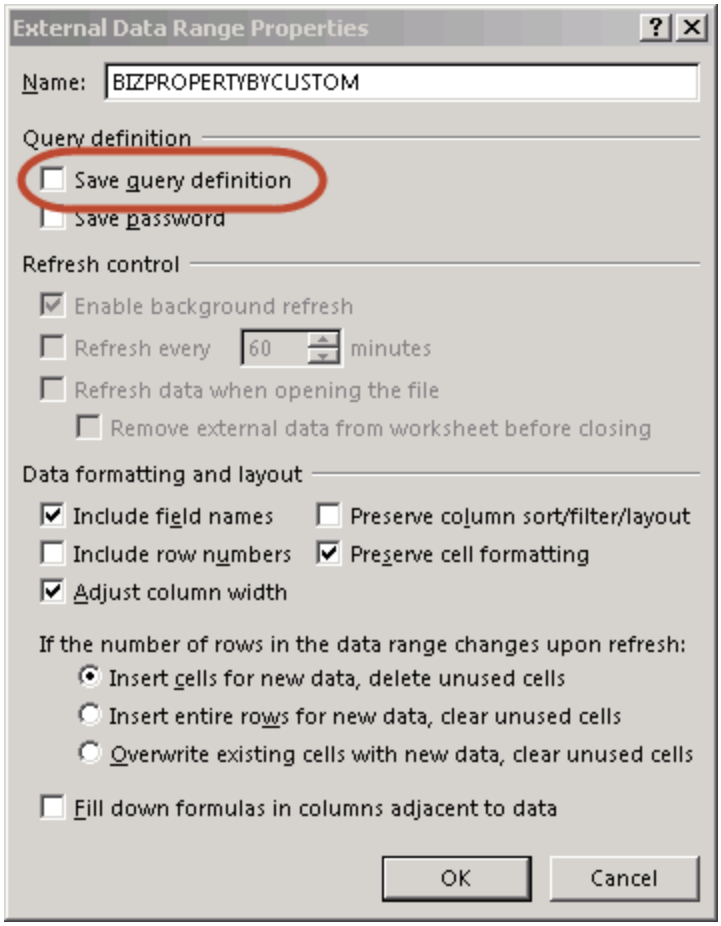

8. Expand the **AnalysisSets** node then drag and drop the **User-Defined Properties** analysis set.



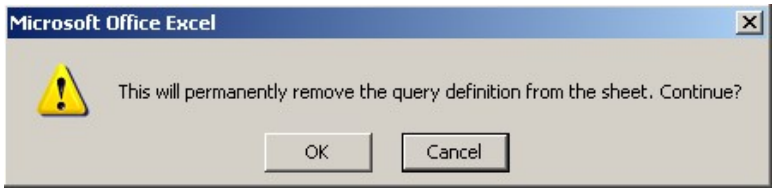
9. Right-click on the analysis set and choose **Data Range Properties**.



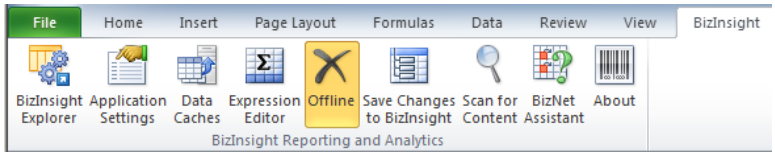
10. Uncheck the **Save query definition** checkbox to make the analysis set static.



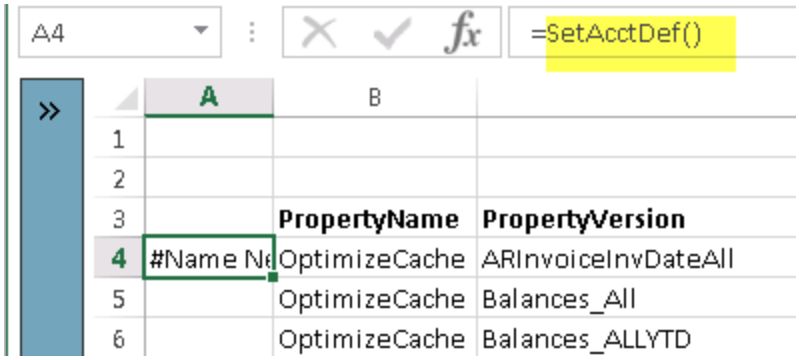

11. Click **OK** to the warning message that opens.



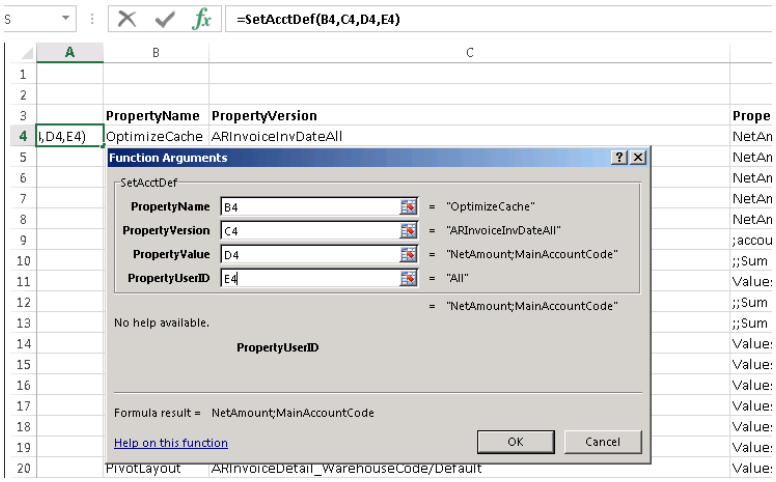

12. Click on the **Offline** button to take BizInsight offline.



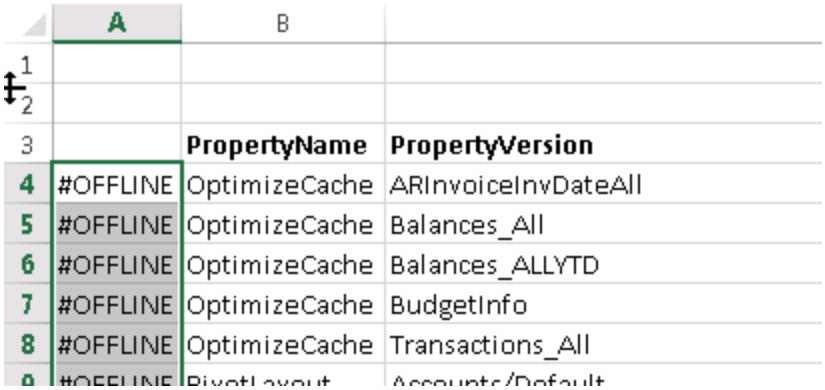
13. From the **Functions** node of the **Properties** menu, drag and drop a **SetAcctDef** function and drop it in a column to the left of the analysis set. Add a column if one is not already there.




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.



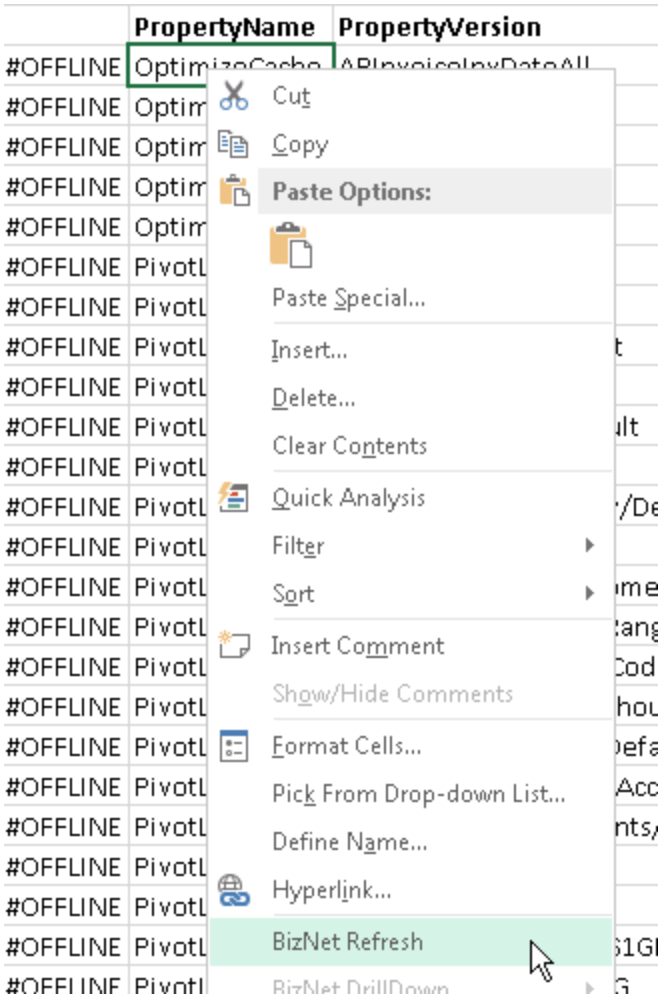
15. Copy the SetAcctDef function down for all rows of the analysis set.



| | 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.



# Updating BizInsight

BizInsight updates are always installed on the client workstations. If BizInsight is implemented on a Terminal Services/Citrix server, see "Updating BizInsight in a Citrix/Terminal Services Environment" on page 46.

Before applying a BizInsight update, be sure to read the Release Notes provided with the release to understand the changes made to the product.

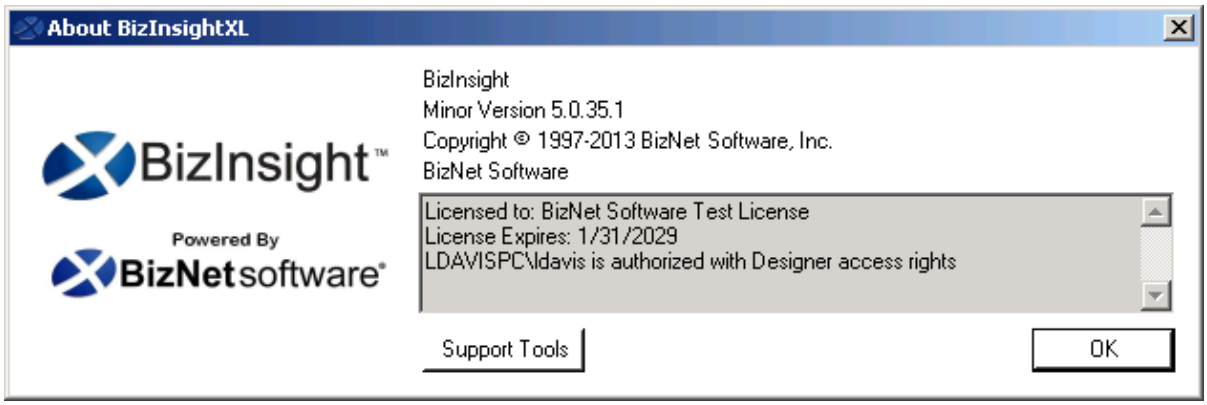
1. As of BizInsight version 5.0.34, BizInsight users must be given Content Manager rights in Reporting Services security. This is done on the Reporting Services server from the Report Manager site. See "Assign rights in Reporting Services" on page 153 for information on where to make this change.

2. If you are updating from a BizInsight version older than 5.0.34, there is a new feature called XMLFast that is enabled by default.For this feature to work properly, you must confirm that the following requirements are satisfied on the server:

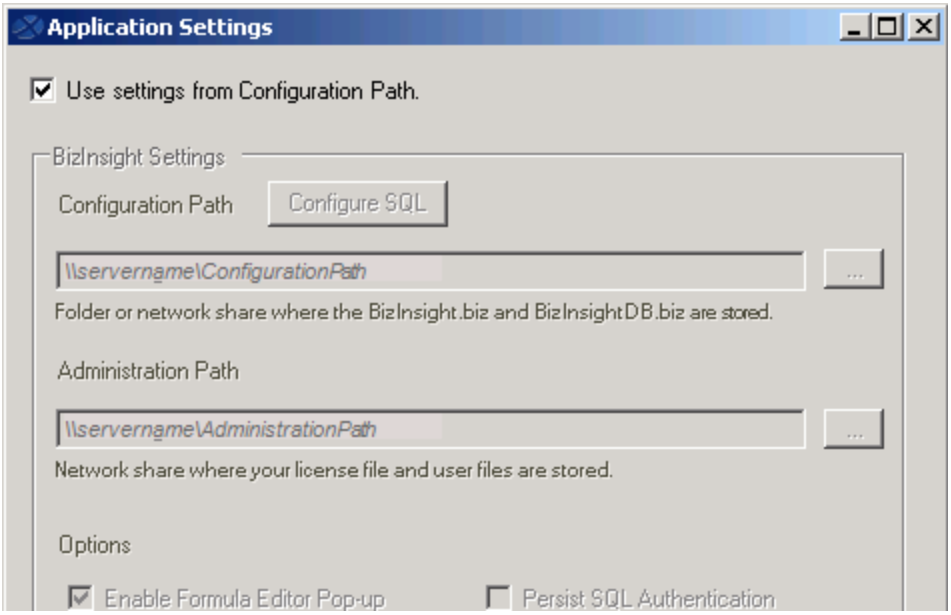
   - TCP/IP remote connection must be enabled for SQL Server
   - The SQL Browser service is started
   - Server firewall exceptions must be added for TCP Port 1433, UDP Port 1434 and a program exception for sqlservr.exe
   - The Reporting Services data source is not configured with stored user credentials.

   For instructions on implementing the above configuration changes see "Server Configuration Changes for XMLFast" on page 112.

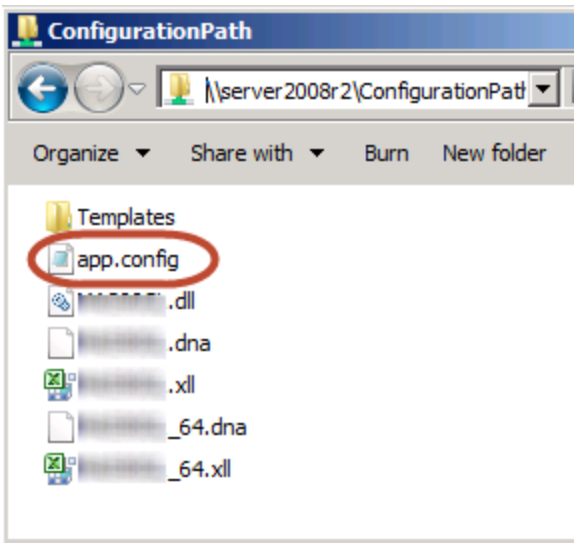
   If you're not sure what BizInsight version you're currently using, go to a client workstation and open Excel. Click on the About button on the BizInsight ribbon.



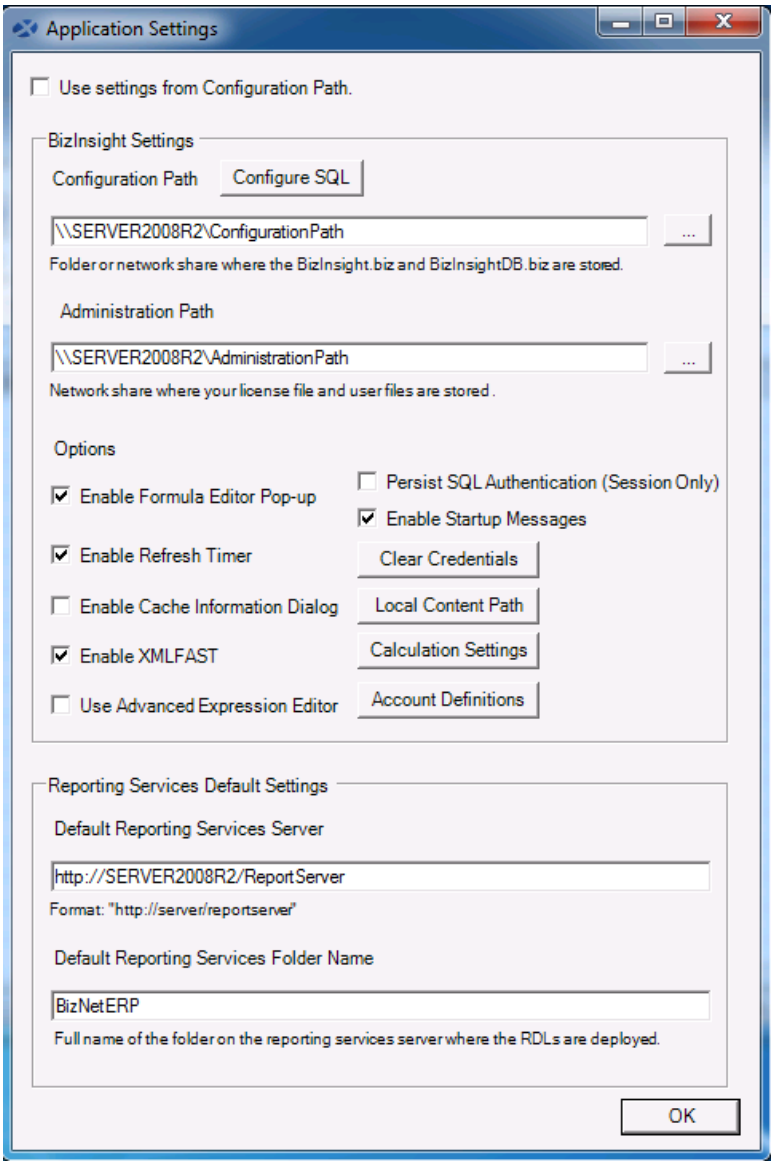

3. Open Excel on a workstation where BizInsight is installed. Click on the **Application Settings** button on the BizInsight ribbon. If the Application Settings dialog is grayed out and the **Use settings from Configuration Path** option is checked, skip to the next step.



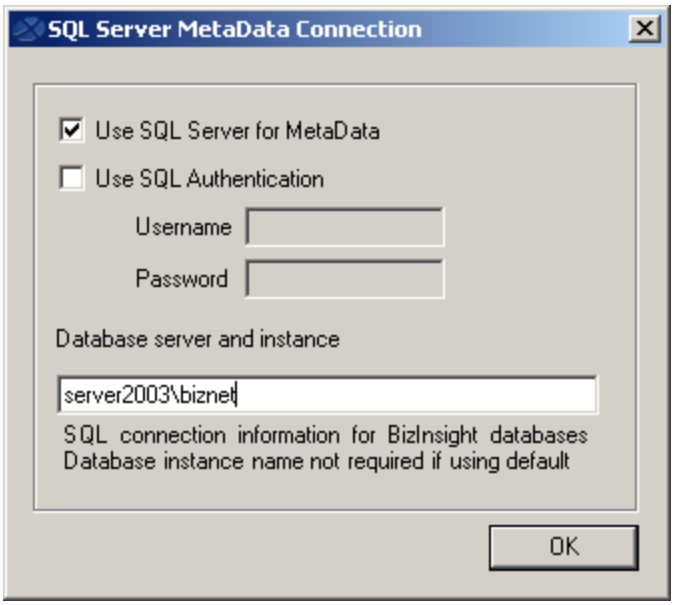

4. If the **Use Settings from Configuration Path** is not checked, copy the path provided for the Configuration Path and check that directory to see if there is an app.config file. If an app.config is present, skip to the next step.



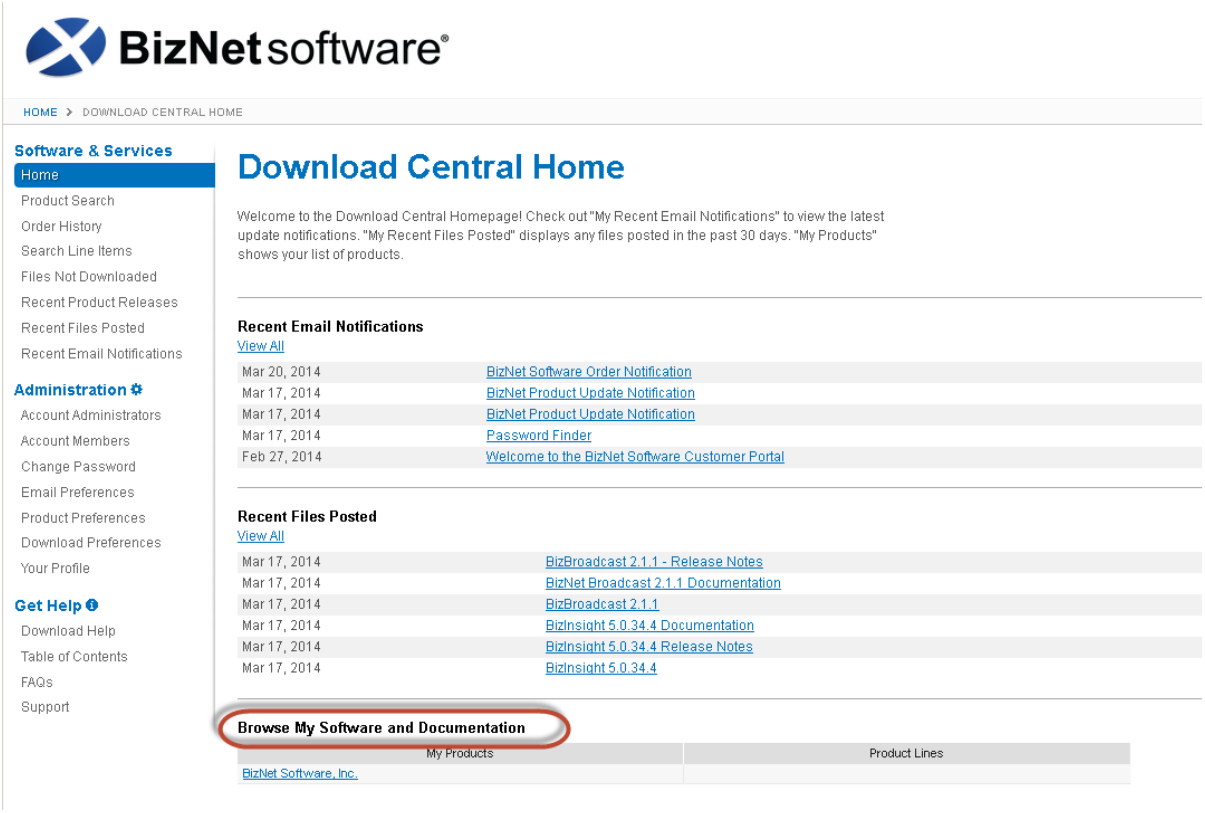

a. If an app.config is not present, take a screenshot of the Application Settings dialog. You will need to confirm these paths and possibly re-enter them when configuring the new version of BizInsight.




Click on the **Configure SQL** button and, if configured, take a screenshot of that dialog.



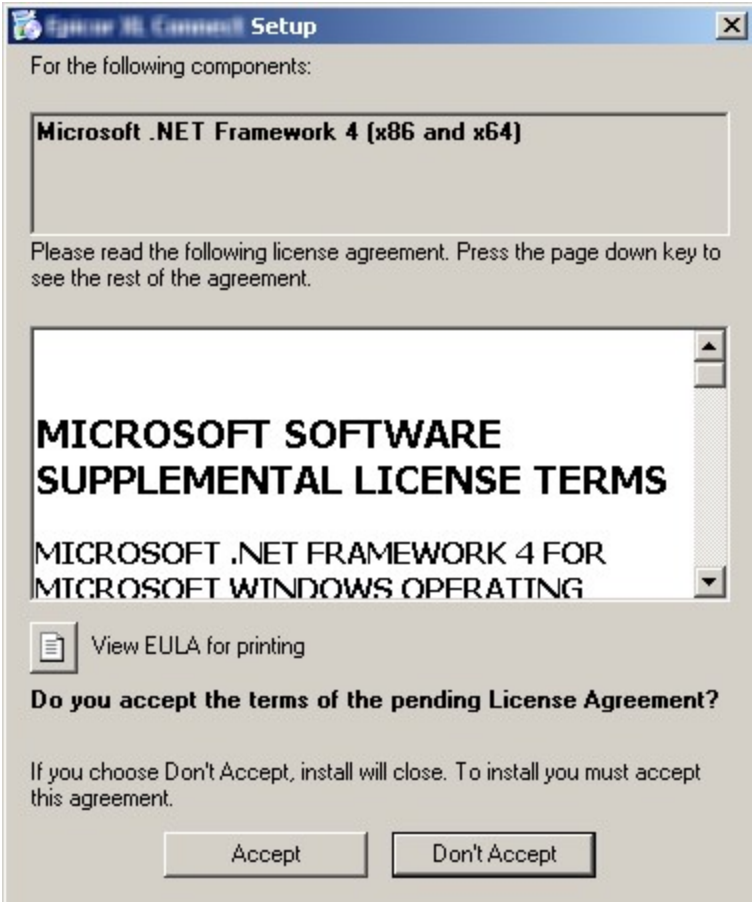

5. Download the new BizInsight version from the BizNet Software portal. The portal can be accessed by going to http://biznet.flexnetoperations.com.




6. **IMPORTANT** Uninstall the previous BizInsight installation from **Control Panel** > **Programs and Features**.

   ***NOTE*** If BizInsight is not shown, this means that the product was installed while logged in as a different user account. If you do not know what account that was, install the new version then uninstall and reinstall it to clear the old BizInsight installation.

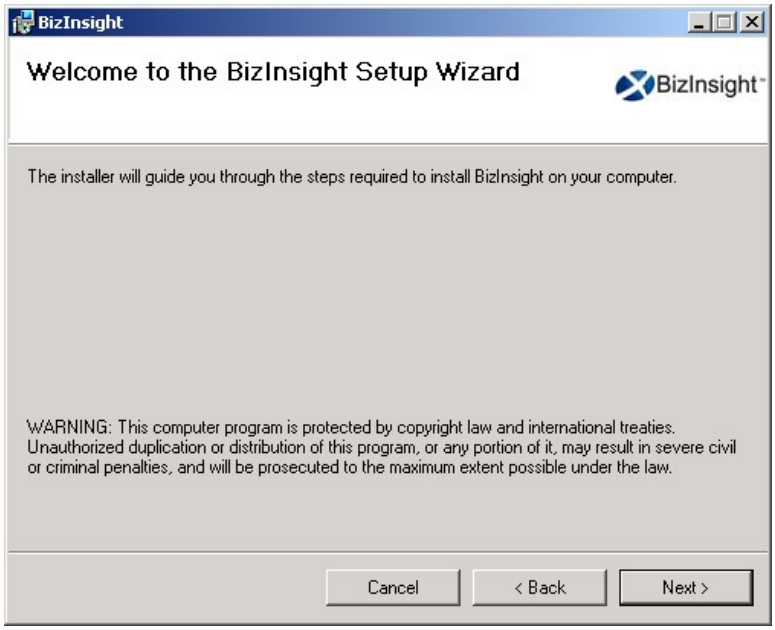
7. Locate the BizInsight product installation files that you downloaded from the portal site and extract the contents.
8. Extract the .zip contents to any directory that is accessible from the client workstation.
9. Double-click the **Setup.exe** for the Excel version that is installed on the client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




11. 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**.

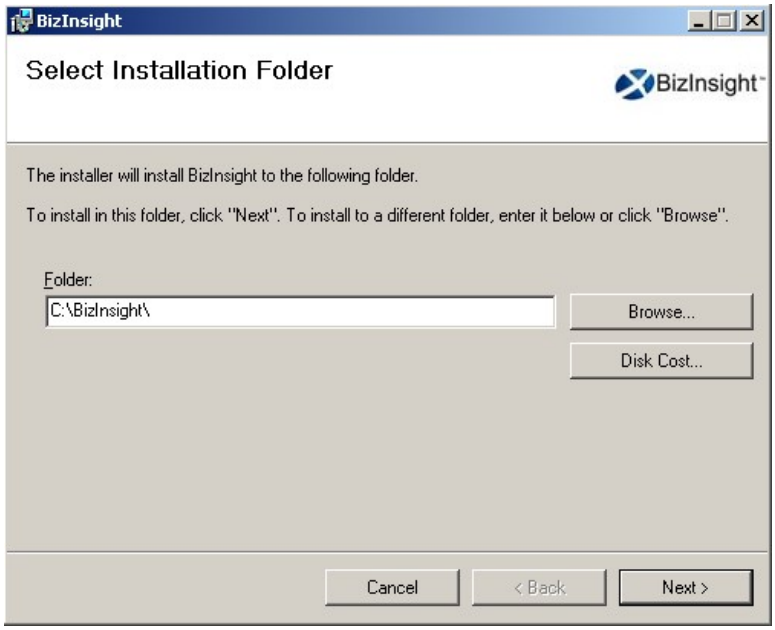
12. The splash dialog will open. Click **Next** to continue.

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

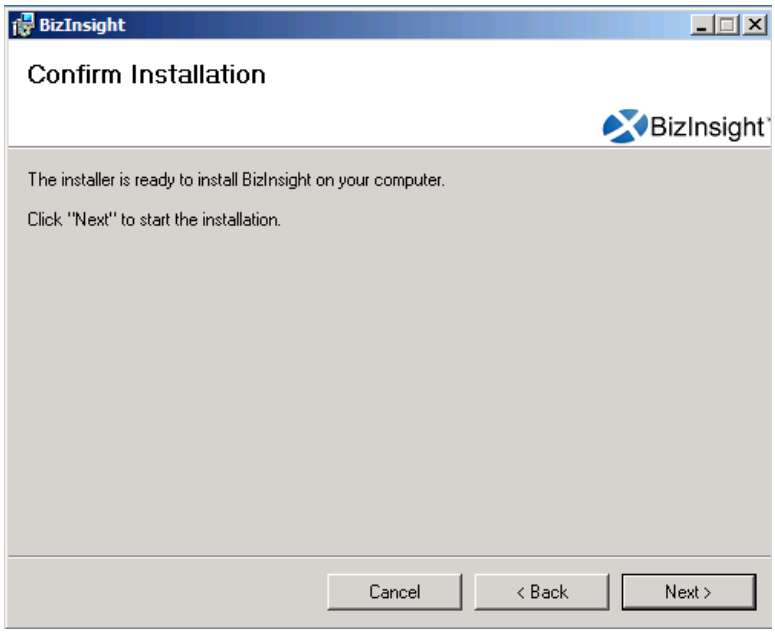



14. The **License Agreement** dialog will open. Read through the agreement and if you agree with the terms, click the **I agree** radio button and then click **Next**.

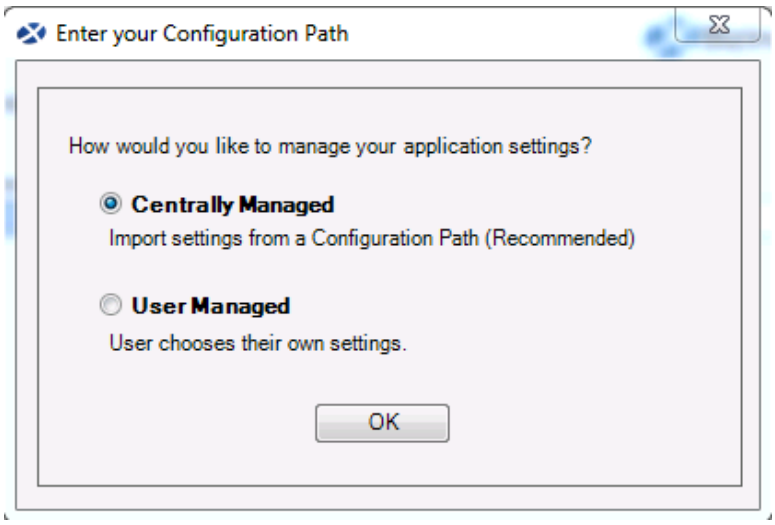
15. Accept the default installation directory or browse to a location of your choice. Click **Next**.



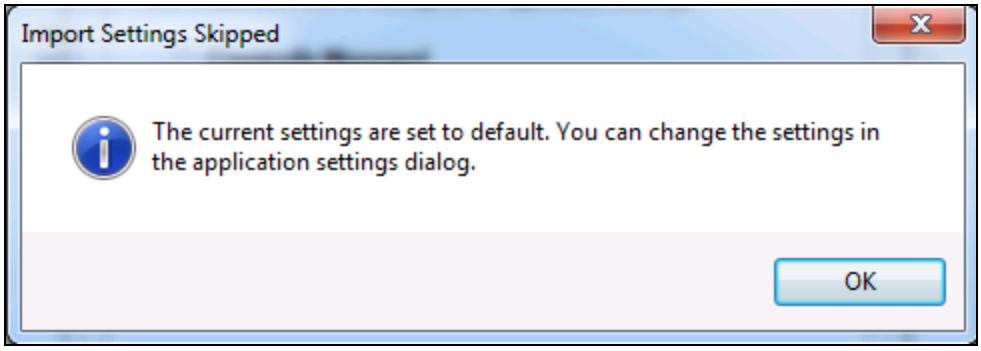

16. Click **Next** at the **Confirm Installation** dialog.



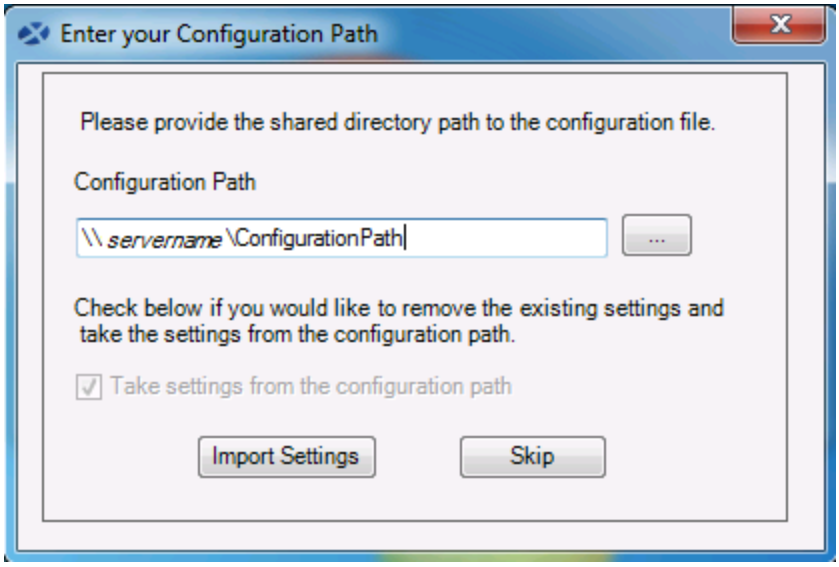
17. When installing BizInsight versions 5.0.35.1 or higher, the **Enter your Configuration Path** dialog will open. If you have an app.config file produced by a Content Installer in your Configuration Path, leave the default option. Click **OK**.




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**.

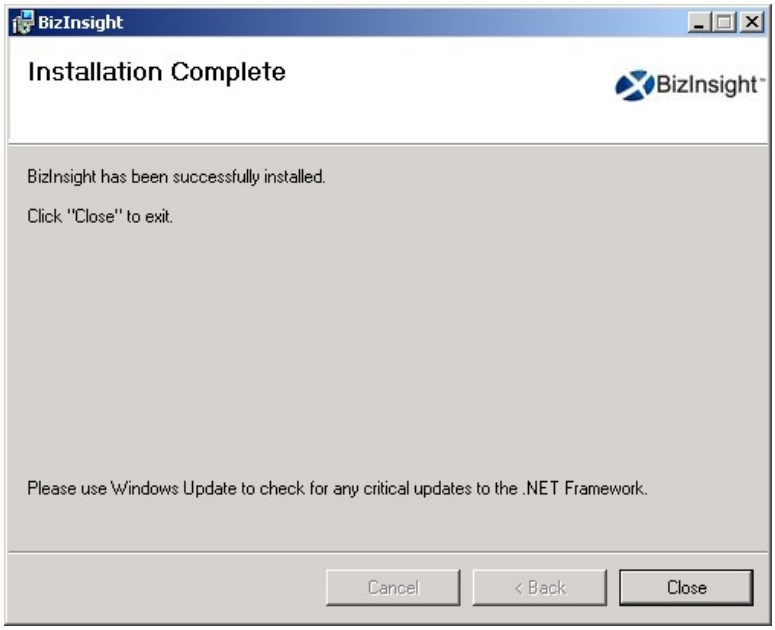


18. If the Centrally Managed option was selected, click the Browse button and browse to the Configuration Path shared directory.

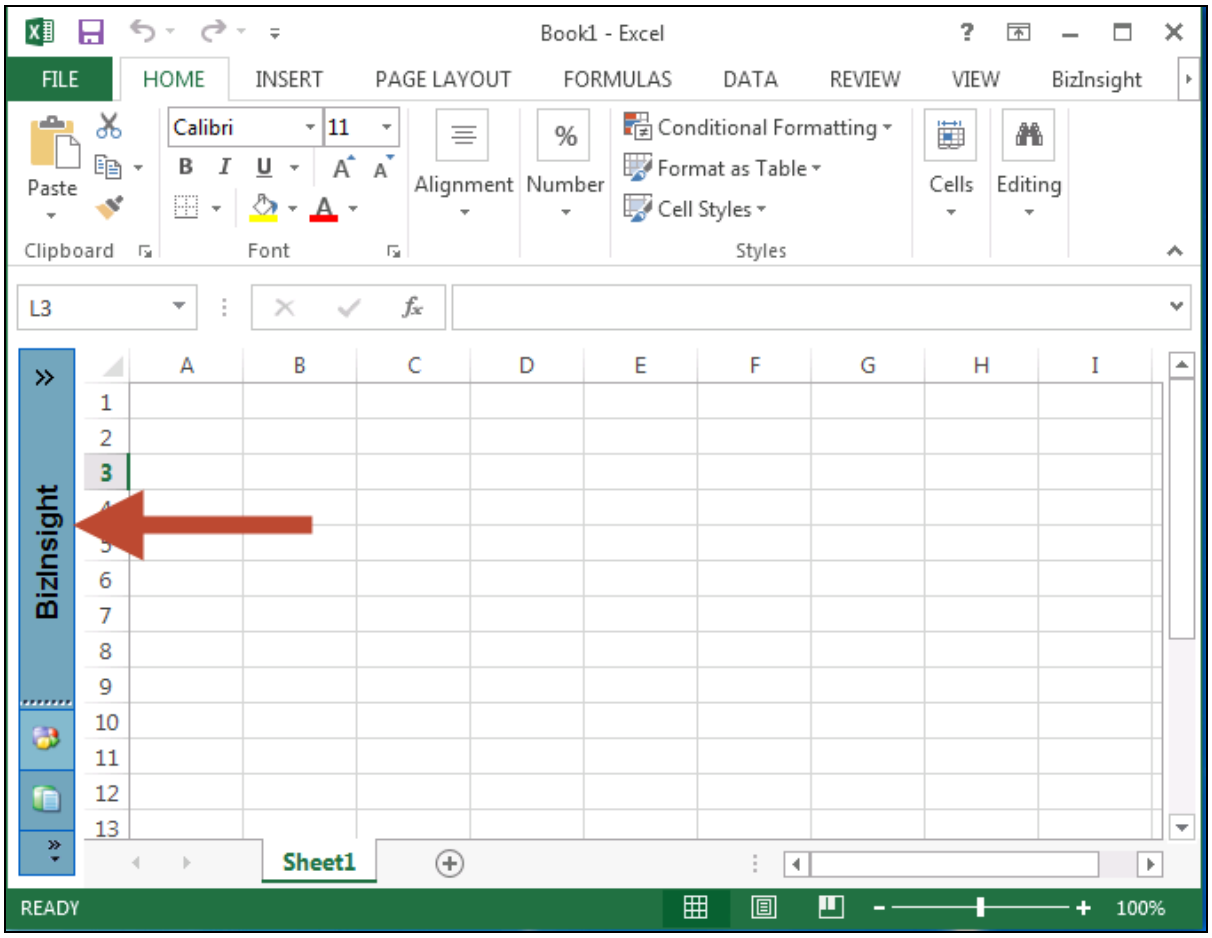



Click **Import Settings**.

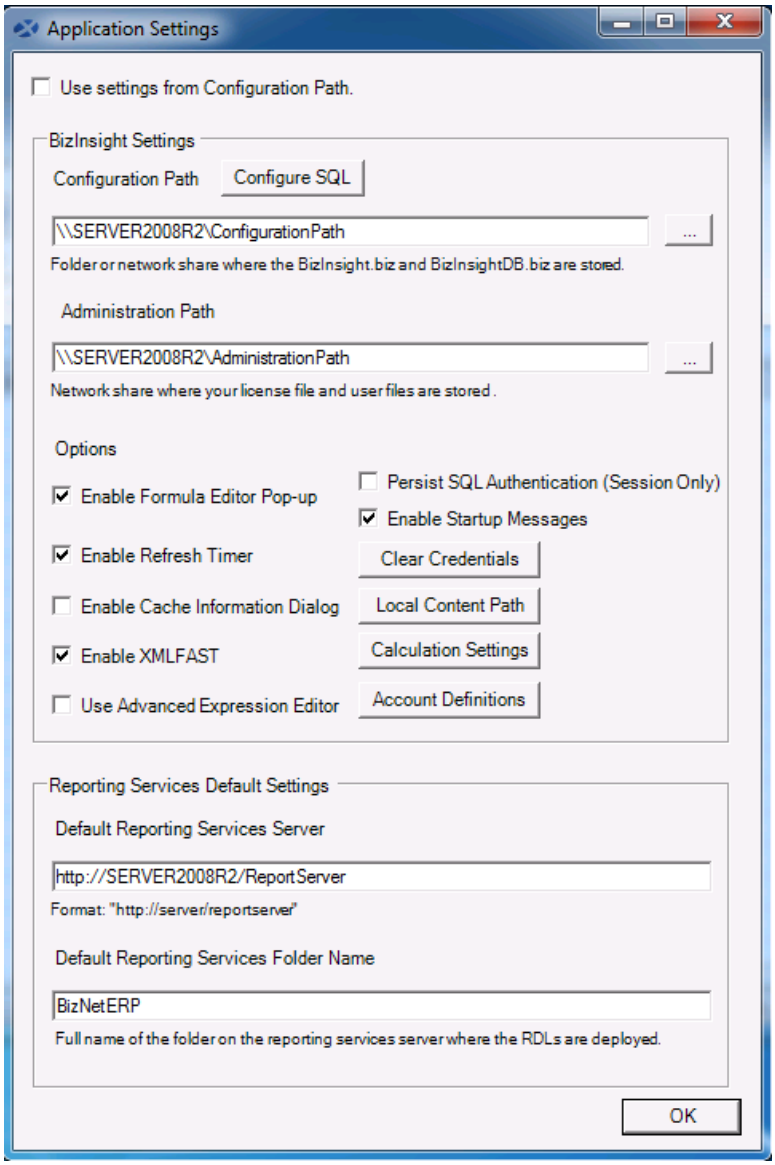
19. Once the installation completes, click **Close**.



20. Start Excel.
21. You should see BizInsight load and the Navigation Pane display on the left side in Excel.



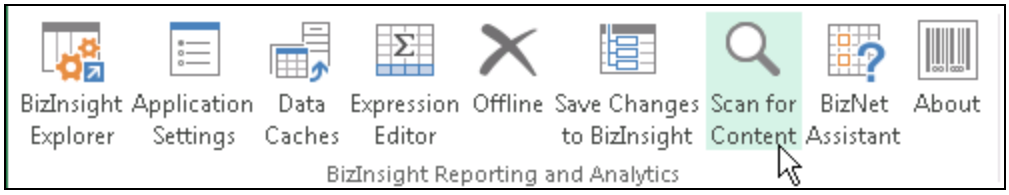

22. Close and reopen Excel.
23. When Excel reopens, click on the BizInsight tab on the ribbon. **IMPORTANT** If the Navigation Pane opens automatically, **close and reopen Excel again**.
24. If you are not using Centrally Managed user settings, click on the Application Settings button on the BizInsight tab and confirm that all fields are populated with the correct information for your implementation. Correct the settings if necessary.




If the Configure SQL dialog was populated before, click on the Configure SQL button to check that dialog. Correct the settings if necessary.

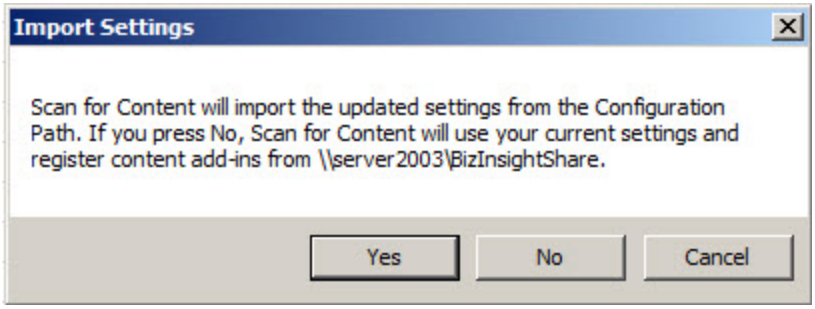
Click **OK** to close.

25. On the BizInsight ribbon (Excel 2007 and Excel 2010) or the BizInsight toolbar (Excel 2003), click on the **Scan for Content** button.

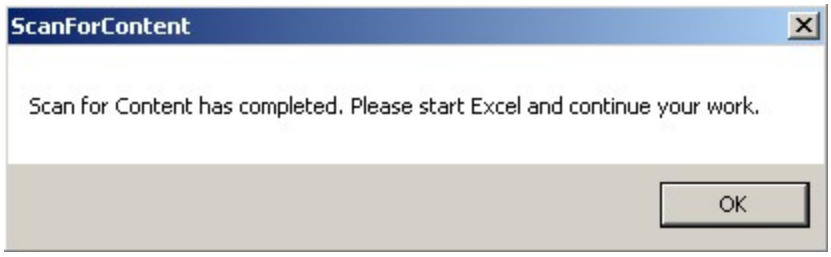



**IMPORTANT** If the BizInsight ribbon (or toolbar) is missing, close Excel and click on **Start** > **All Programs** > **BizNet Software** > **Register BizInsight for Excel *xxxx* On Demand** and check in Excel again.

26. You will receive the following information message. Click **No**. Excel will close.




27. After Scan for Content completes, click **OK** and reopen Excel.




28. Load BizInsight then refresh an existing report to confirm that the new installation functions correctly.

## Updating BizInsight in a Citrix/Terminal Services Environment

There are some differences to the implementation of a BizInsight update for a Citrix/Terminal Services environment than for an individual workstation.

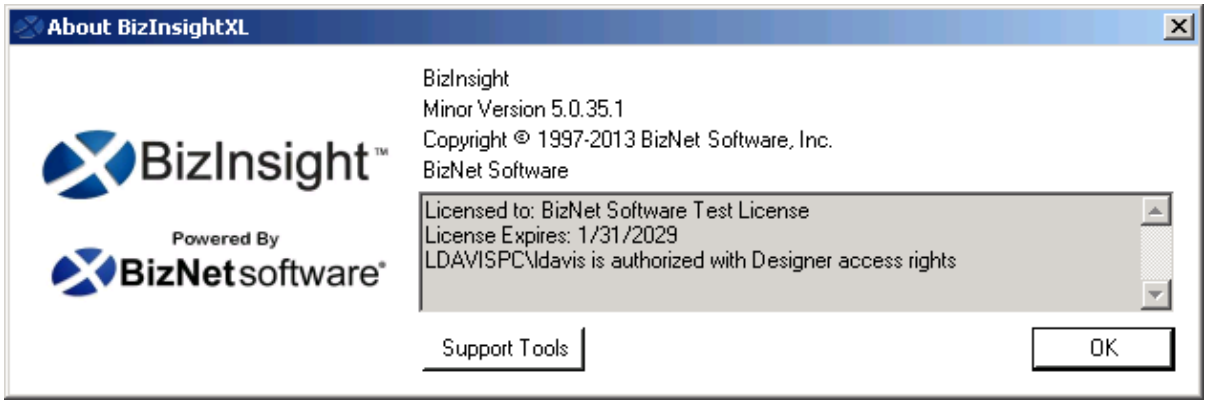
1. As of BizInsight version 5.0.34, BizInsight users must be given Content Manager rights in Reporting Services security. This is done on the Reporting Services server from the Report Manager site. See "Assign rights in Reporting Services" on page 153 for information on where to make this change.

2. If you are updating from a BizInsight version older than 5.0.34, there is a new feature called XMLFast that is enabled by default.For this feature to work properly, you must confirm that the following requirements are satisfied on the server:

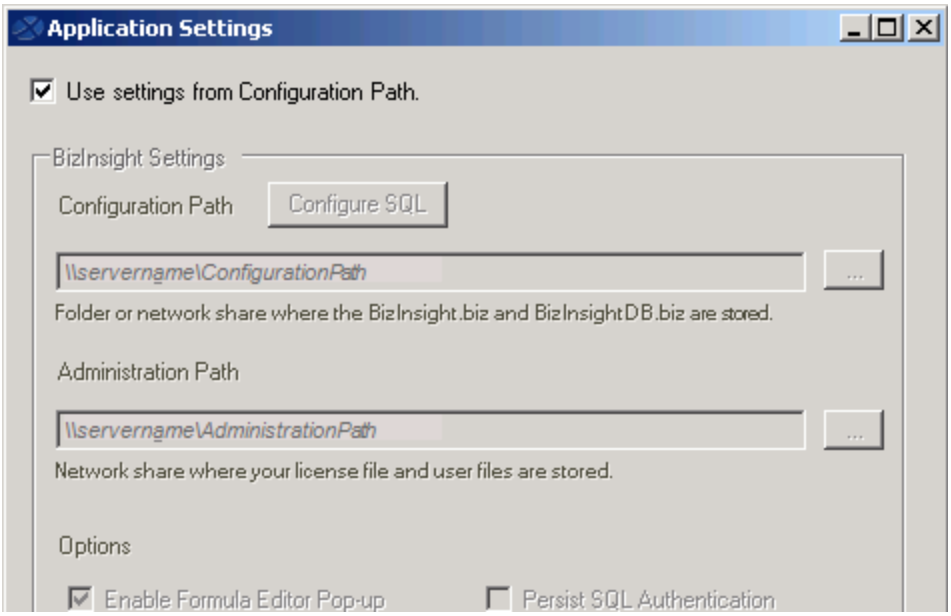
   - TCP/IP remote connection must be enabled for SQL Server
   - The SQL Browser service is started
   - Server firewall exceptions must be added for TCP Port 1433, UDP Port 1434 and a program exception for sqlservr.exe
   - The Reporting Services data source is not configured with stored user credentials.

   For instructions on implementing the above configuration changes see "Server Configuration Changes for XMLFast" on page 112.

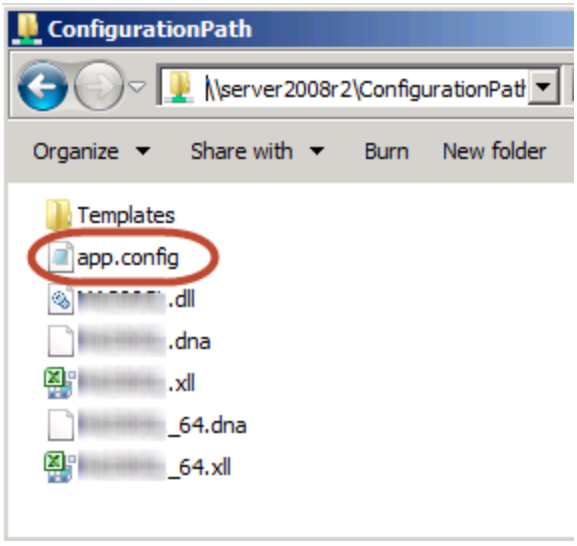
   If you're not sure what BizInsight version you're currently using, go to a client workstation and open Excel. Click on the About button on the BizInsight ribbon.



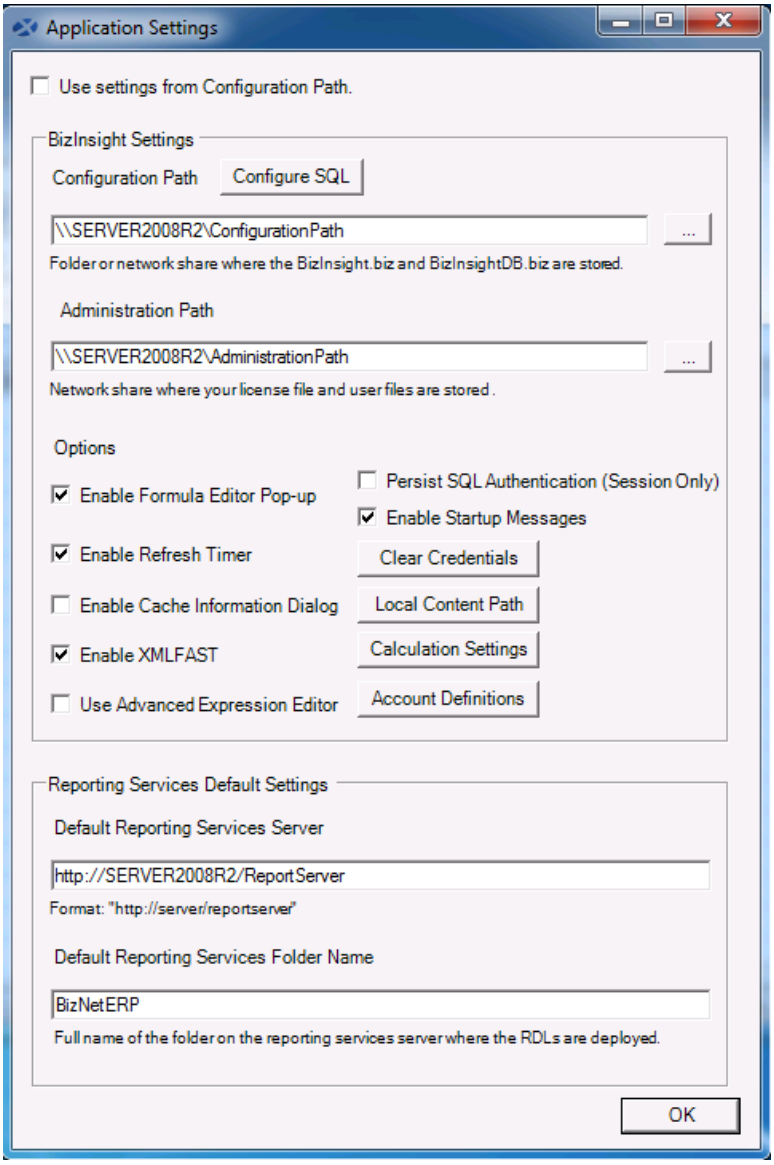
3. Open Excel on a workstation where BizInsight is installed. Click on the **Application Settings** button on the BizInsight ribbon. If the Application Settings dialog is grayed out and the **Use settings from Configuration Path** option is checked, skip to the next step.



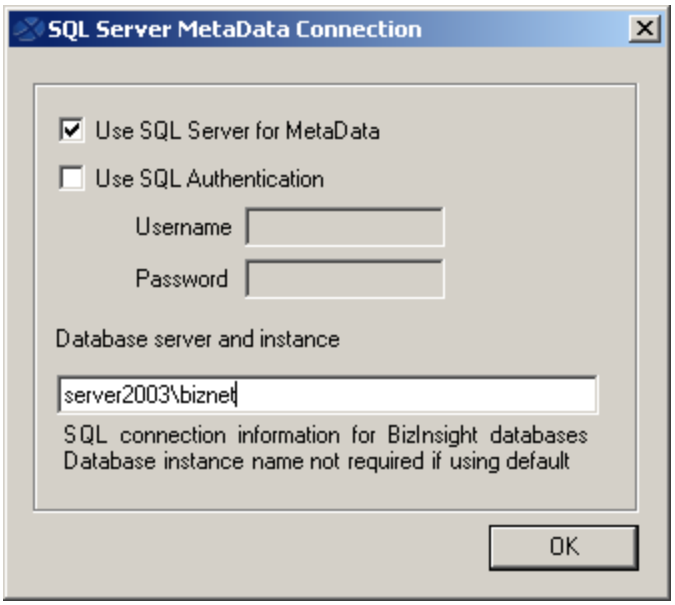

4. If the **Use Settings from Configuration Path** is not checked, copy the path provided for the Configuration Path and check that directory to see if there is an app.config file. If an app.config is present, skip to the next step.



a. If an app.config is not present, take a screenshot of the Application Settings dialog. You will need to confirm these paths and possibly re-enter them when configuring the new version of BizInsight.




Click on the **Configure SQL** button and, if configured, take a screenshot of that dialog.




5. **IMPORTANT** Browse to the reg5 subdirectory of the BizInsight installation location and backup the following two files:

   - "**Excelxxxx_register_OnDemand.reg**".
   - **Register BizInsight for Excel *xxxx* OnDemand.bat**".

   See the Citrix_Terminal Services Deployment document for information about the role of these files in a Citrix/Terminal services implementation.

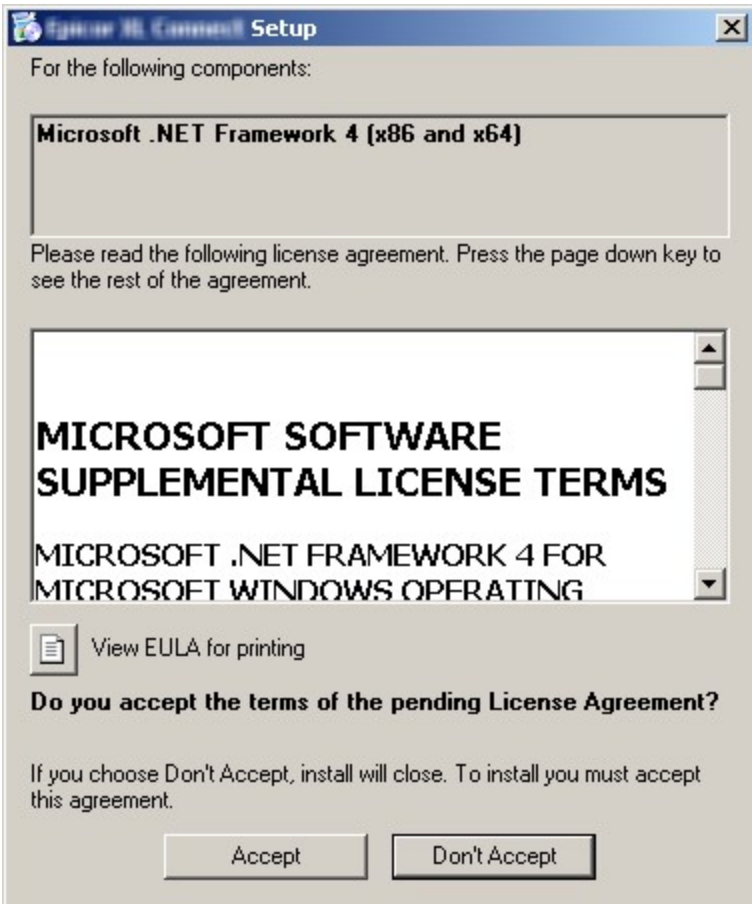
6. **IMPORTANT** Uninstall the previous BizInsight installation from **Control Panel** > **Programs and Features**.

   ***NOTE*** If BizInsight is not shown, this means that the product was installed while logged in as a different user account. If you do not know what account that was, install the new version then uninstall and reinstall it to clear the old BizInsight installation.

7. Locate the BizInsight product installation files that you downloaded from the portal site and extract the contents.

8. Extract the .zip contents to any directory that is accessible from the client workstation.

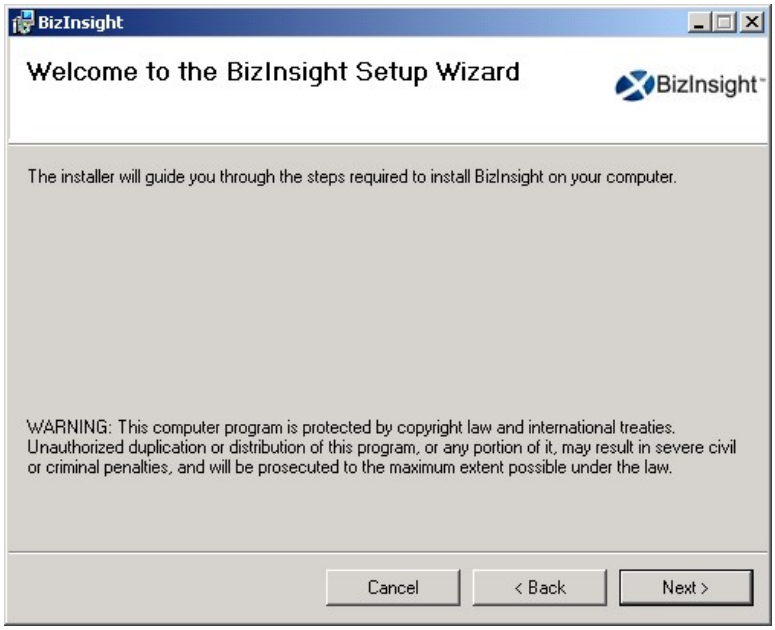
9. Double-click the **Setup.exe** for the Excel version that is installed on the client workstation.
10. The installation will check to see if Microsoft .Net Framework 4.0 is installed. If not installed, the following dialog will display. Click **Accept**.




11. 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**.

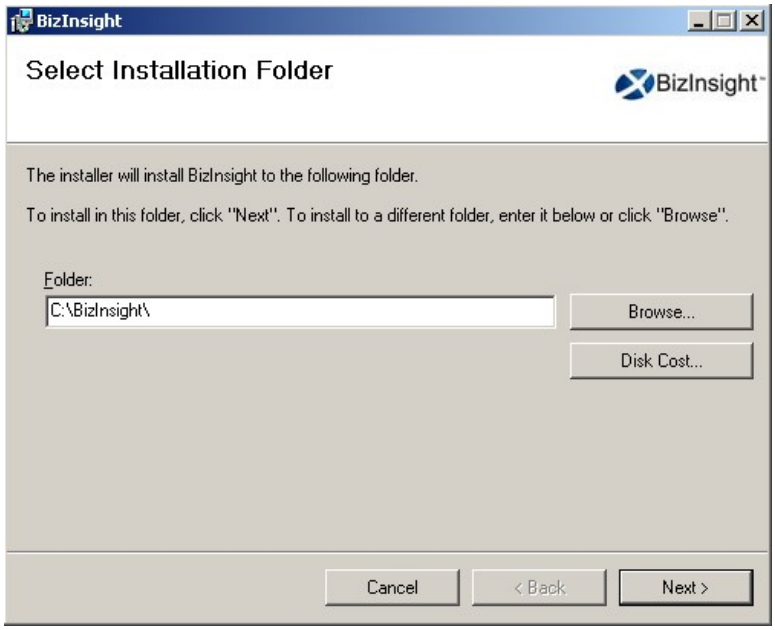
12. The splash dialog will open. Click **Next** to continue.

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

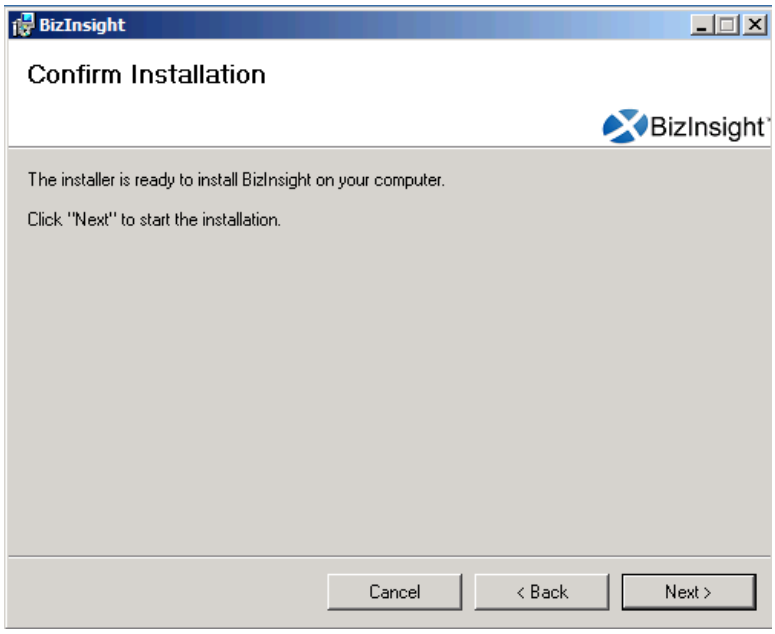



14. The **License Agreement** dialog will open. Read through the agreement and if you agree with the terms, click the **I agree** radio button and then click **Next**.

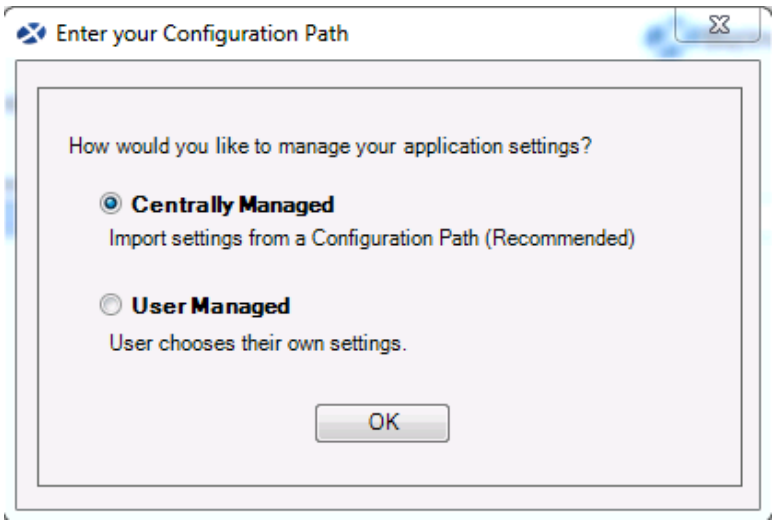
15. Accept the default installation directory or browse to a location of your choice. Click **Next**.



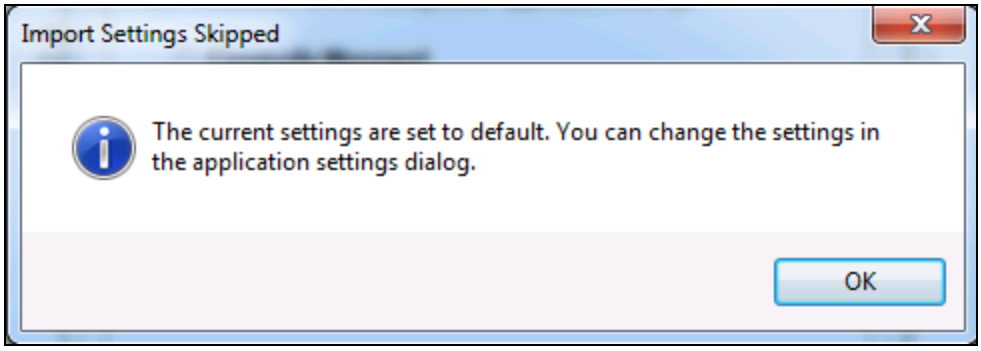

16. Click **Next** at the **Confirm Installation** dialog.



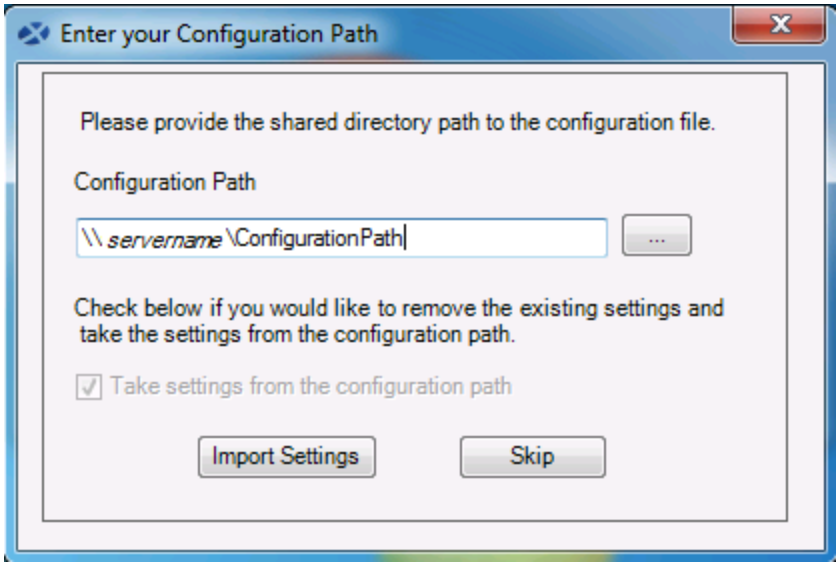
17. When installing BizInsight versions 5.0.35.1 or higher, the **Enter your Configuration Path** dialog will open. If you have an app.config file produced by a Content Installer in your Configuration Path, leave the default option. Click **OK**.




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**.

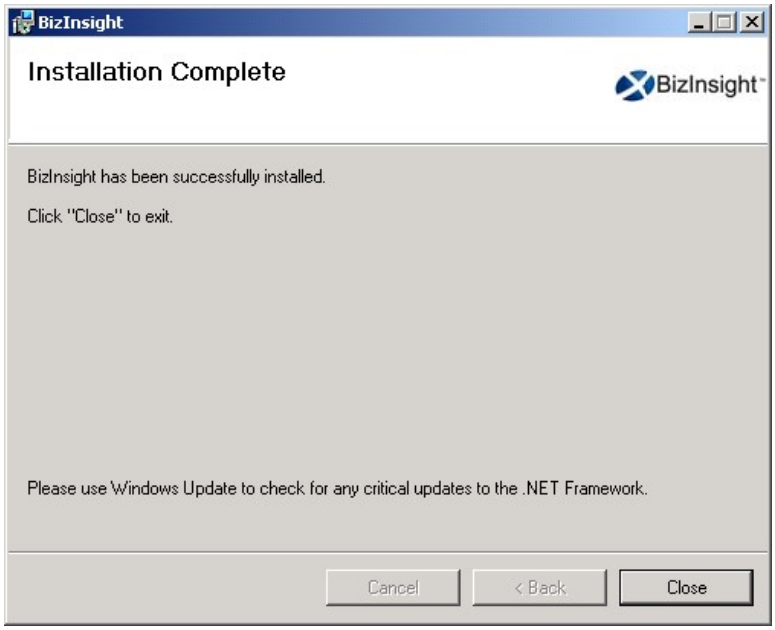


18. If the Centrally Managed option was selected, click the Browse button and browse to the Configuration Path shared directory.




Click **Import Settings**.

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



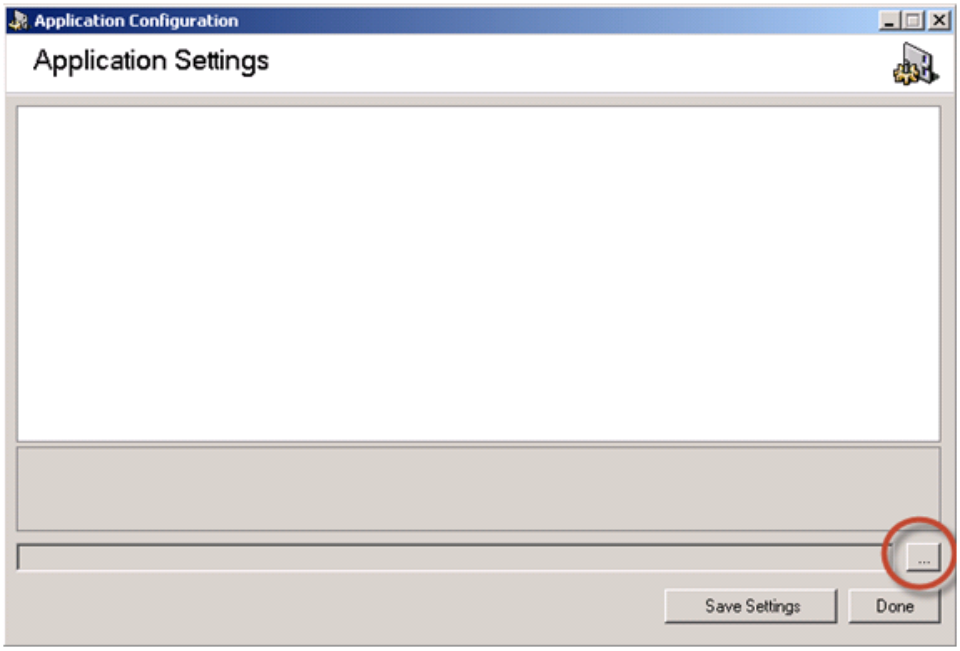
20. Browse to the reg5 subdirectory of the BizInsight installation location and reinstate the backup copies of the files named "**Excel*xxxx*_register_OnDemand.reg**" and "**Register BizInsight for Excel *xxxx* OnDemand.bat**".
21. If you are Centrally Managing your user settings, skip to the next step, see "Start Excel." on page 64.

    If you are **not** Centrally Managing your user settings, you must perform the following steps to configure the app.config file with the necessary path information for your environment. This step is essential for ensuring that these paths are defined for each user automatically.

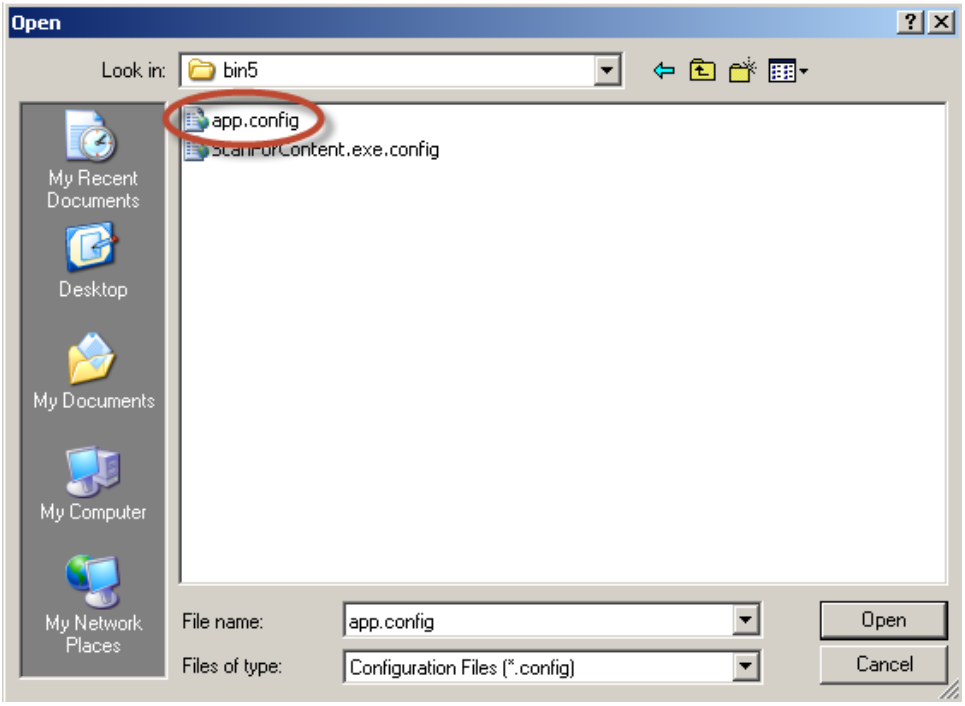
    a. If you have not already downloaded the BizInsight Tools.zip, log into the BizNet Software portal (http://biznet.flexnetoperations.com) to download the file. You will find the file with the BizInsight download file. Extract the contents.

    b. Browse to the AppConfigTool folder and double-click the file named **AppConfigTool.exe**.

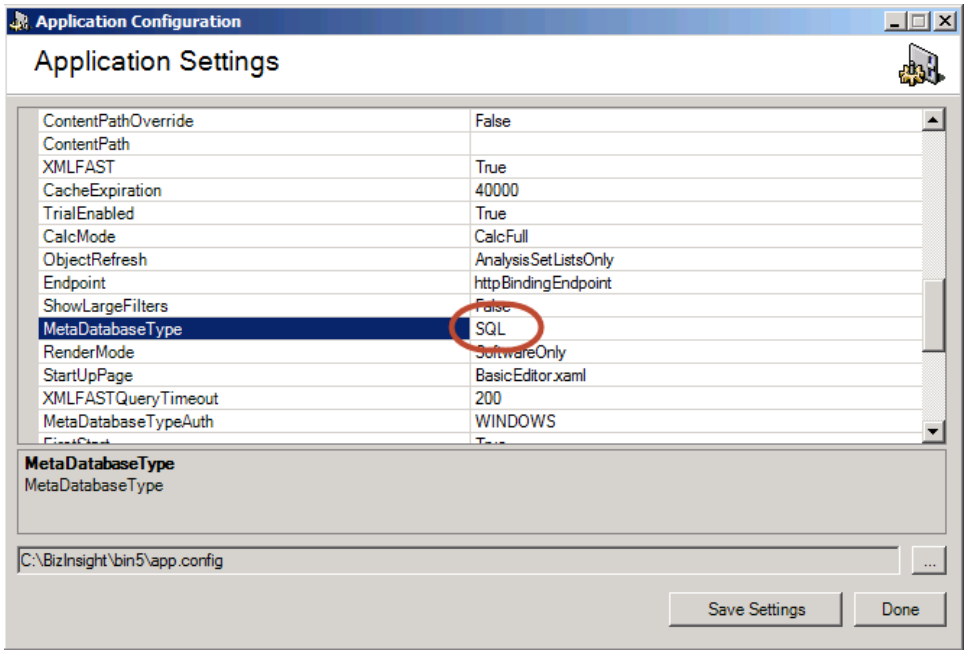
    c. Click on the Browse button.



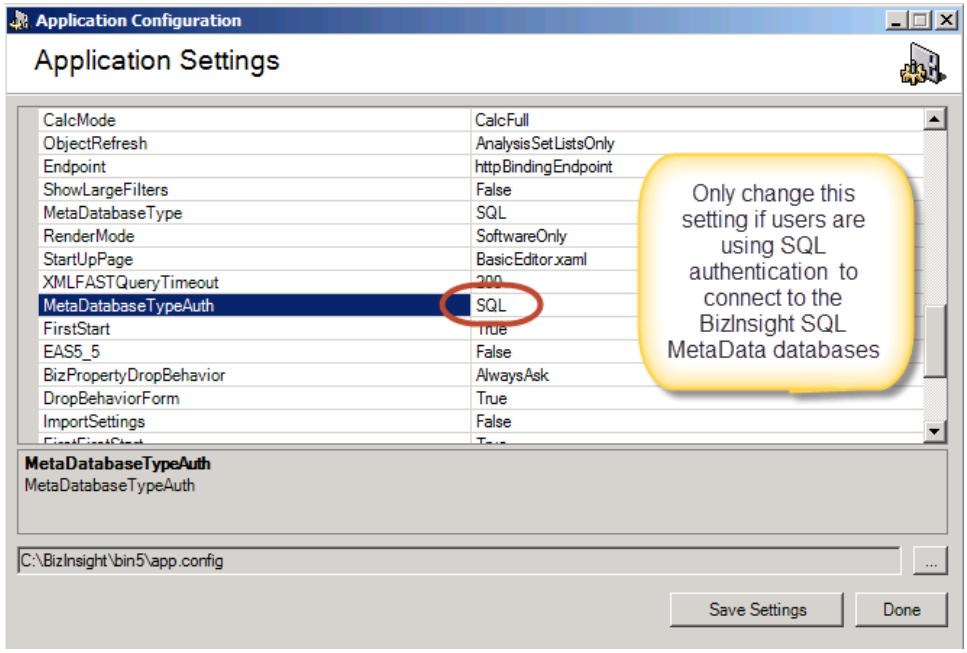
d. Browse to the bin5 subdirectory of the BizInsight installation directory and select the app.config file. Click **Open**.




e. Locate the **MetaDatabaseType** entry and change the value to "**SQL**". This change "checks" the **Use SQL Server for MetaData** checkbox on the Configure SQL dialog.




f. ***OPTIONAL*** If the users are using SQL authentication to connect to the SQL MetaData databases (BizInsight and BizInsightDB), locate the **MetaDatabaseTypeAuth** entry and change it to **SQL**. This change "checks" the **Use SQL Authentication** checkbox on the Configure SQL dialog.



g. The next steps will walk you through setting the connection strings for the two SQL MetaData databases.

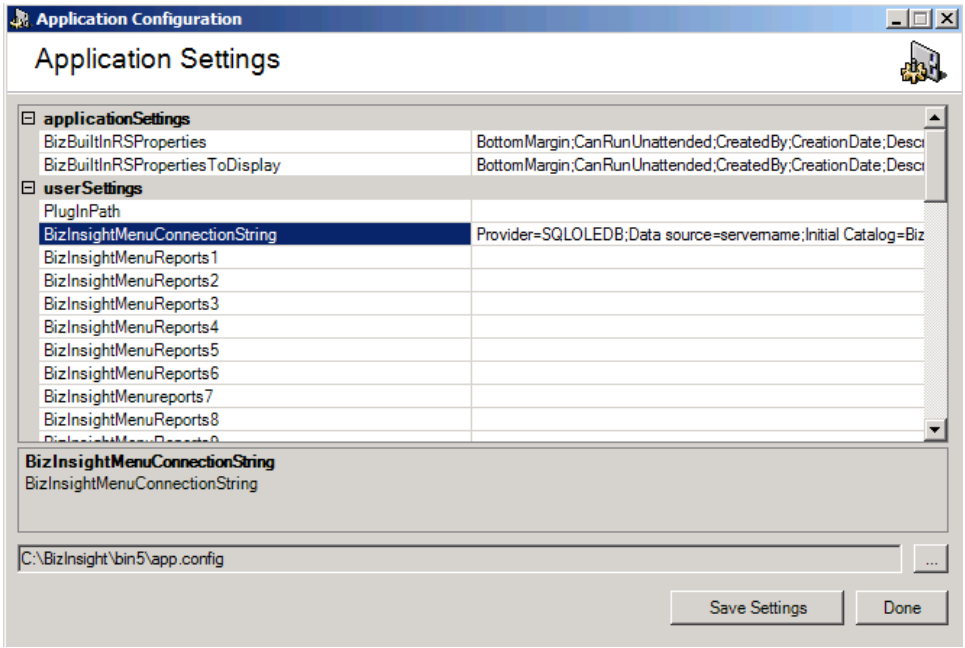
i. Locate the **BizInsightMenuConnectionString** entry and paste one of the following text samples for the value depending on which method of authentication will be used to connect to the SQL MetaData databases.

**Windows Authentication**

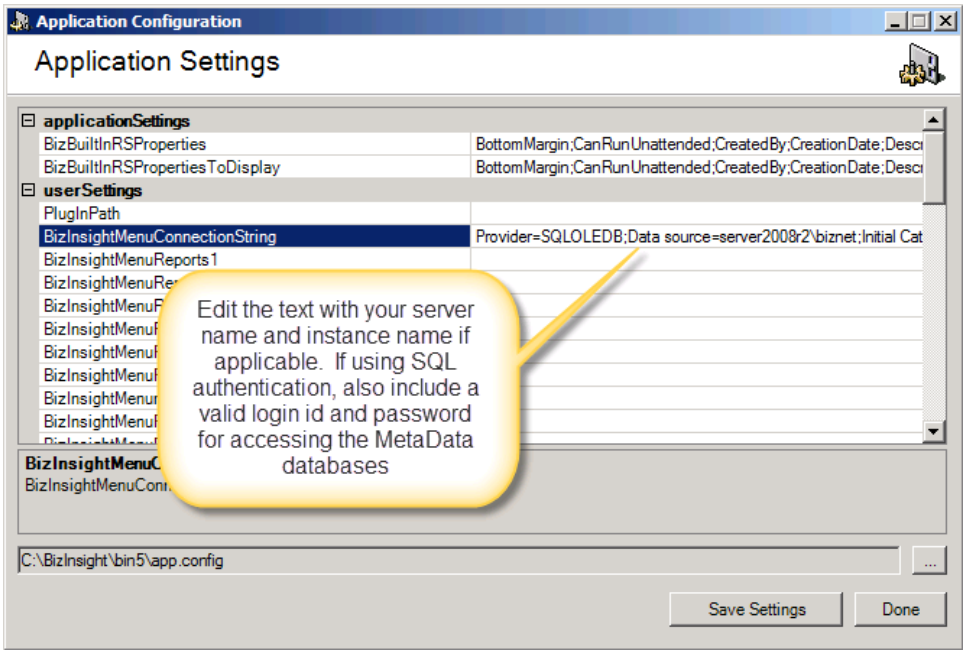
```
Provider=SQLOLEDB;Data source=servername;Initial Catalog=BizInsight;Integrated Security=SSPI;
```

**SQL Authentication**

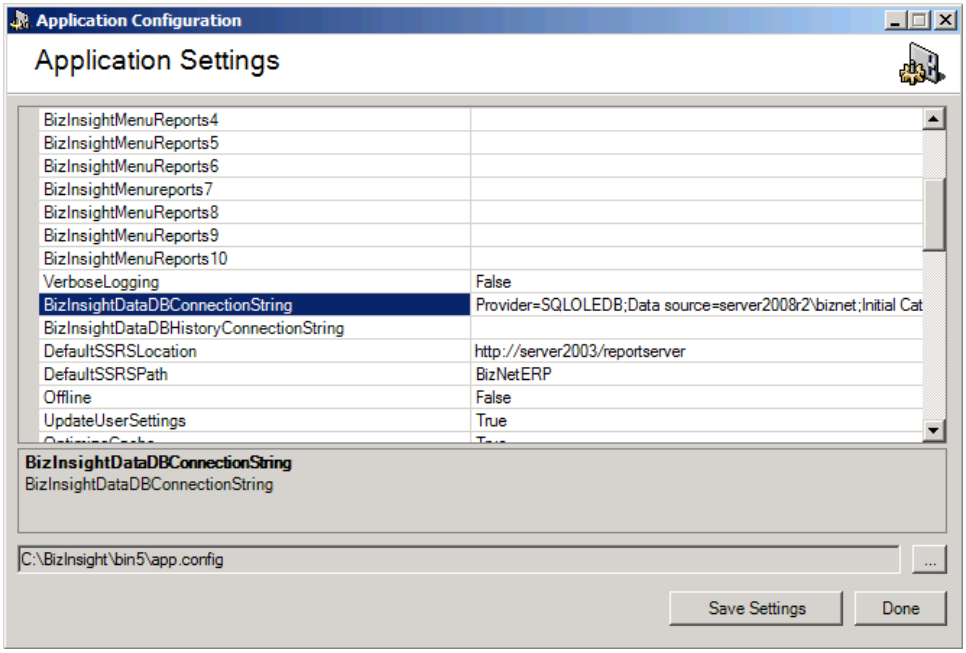
```
Provider=SQLOLEDB;Data source=servername;Initial Catalog=BizInsight;user id=UserID;password=PASSWORD;
```



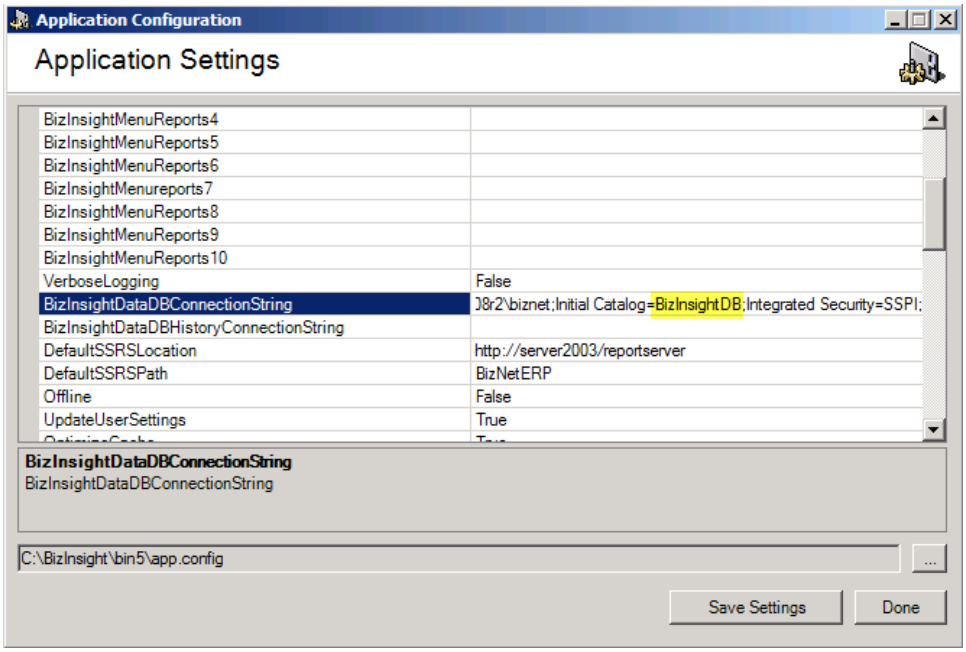

ii. Change the placeholder entries from these samples with the appropriate server name and, if using SQL authentication, a valid SQL user id and password.



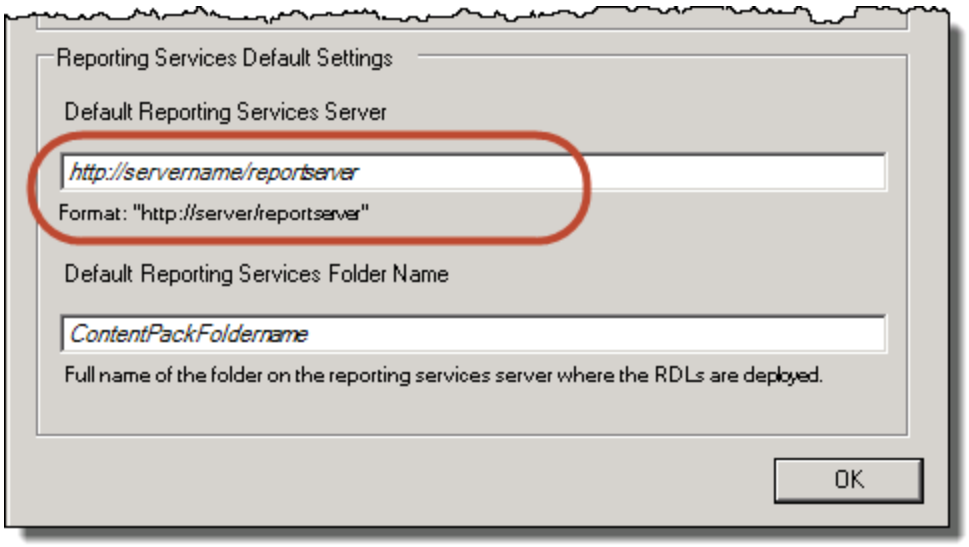

iii. Copy your edited connection string, locate the **BizInsightDataDBConnectionString** entry and paste your copied connection string for its value.



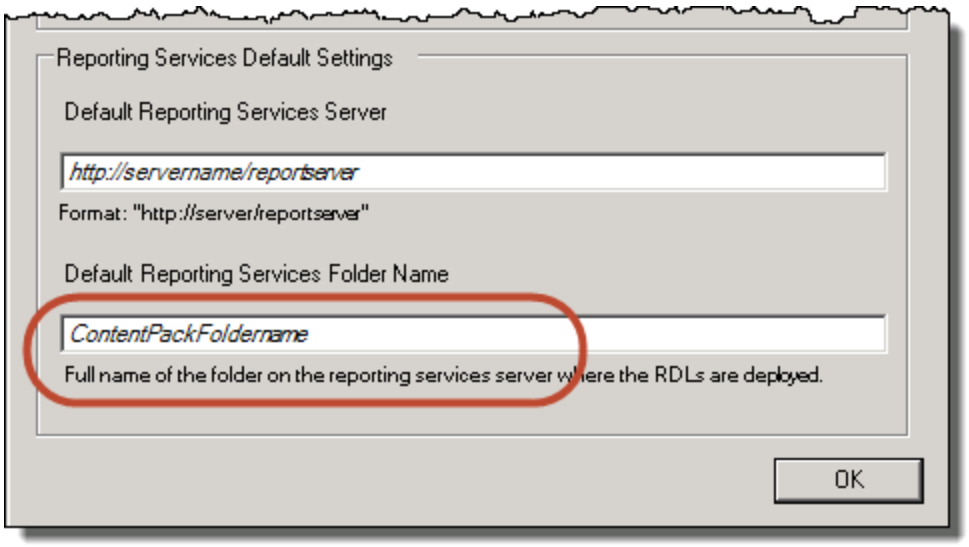
iv. Edit the copied connection string to change the Initial Catalog value to **BizInsightDB**.




h. Locate the **DefaultSSRSLocation** entry and type in the Reporting Server URL shown in the screenshot taken of the Application Settings dialog at the start of this process. This entry provides the value for the **Default Reporting Services Server** field on the Application Settings dialog.

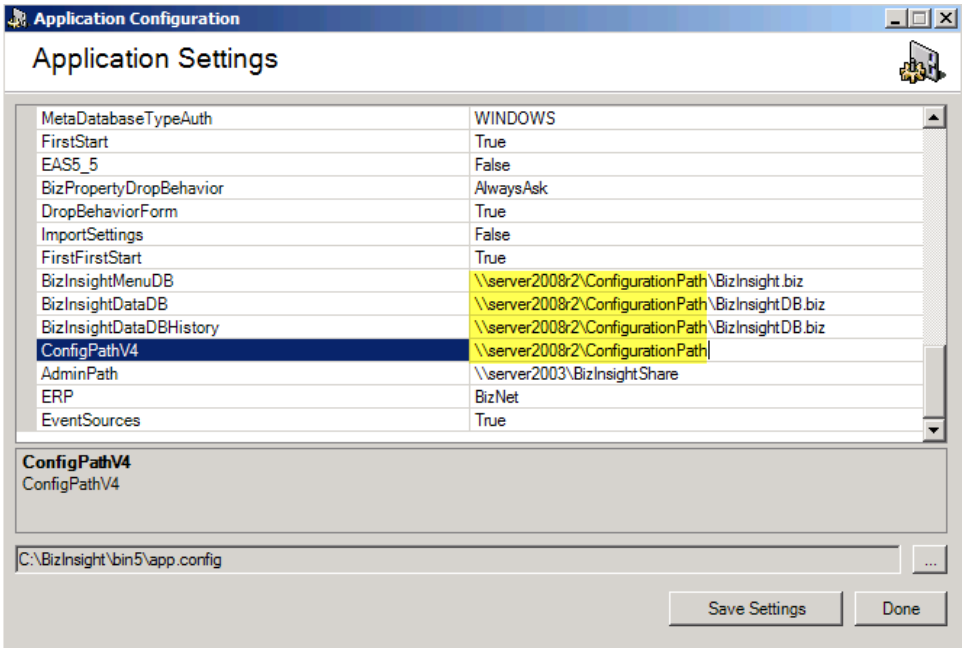



i. Locate the **DefaultSSRSPath** entry and provide the Report Folder name from the Application Settings screenshot. This entry provides the value for the **Default Reporting Services Folder Name** field on the Application Settings dialog.

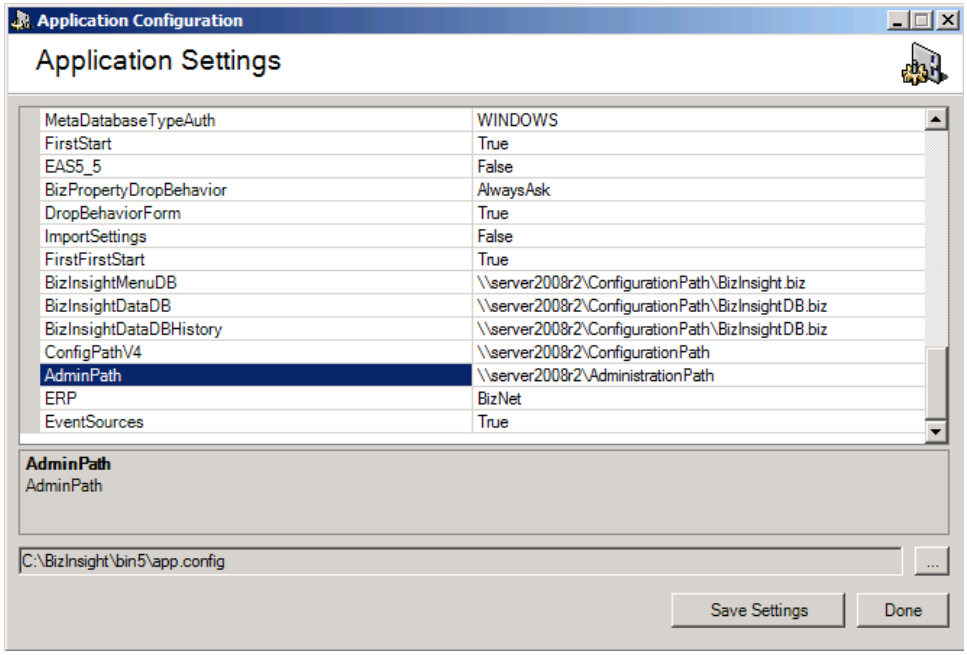



j. Locate the **BizInsightMenuDB, BizInsightDataDB**, **BizInsightDataDBHistory** and the **ConfigPathV4** entries. Update each one to replace C:\BizInsight with the UNC path to the Config Path directory shown in the Relevant Info dialog. These entries all relate to the **Configuration Path** field of the Application Settings

dialog.




k. Locate the **AdminPath** entry and update its value to the Admin Path directory shown in the Relevant Info dialog. This entry sets the value for the **Administration Path** field of the Application Settings dialog.

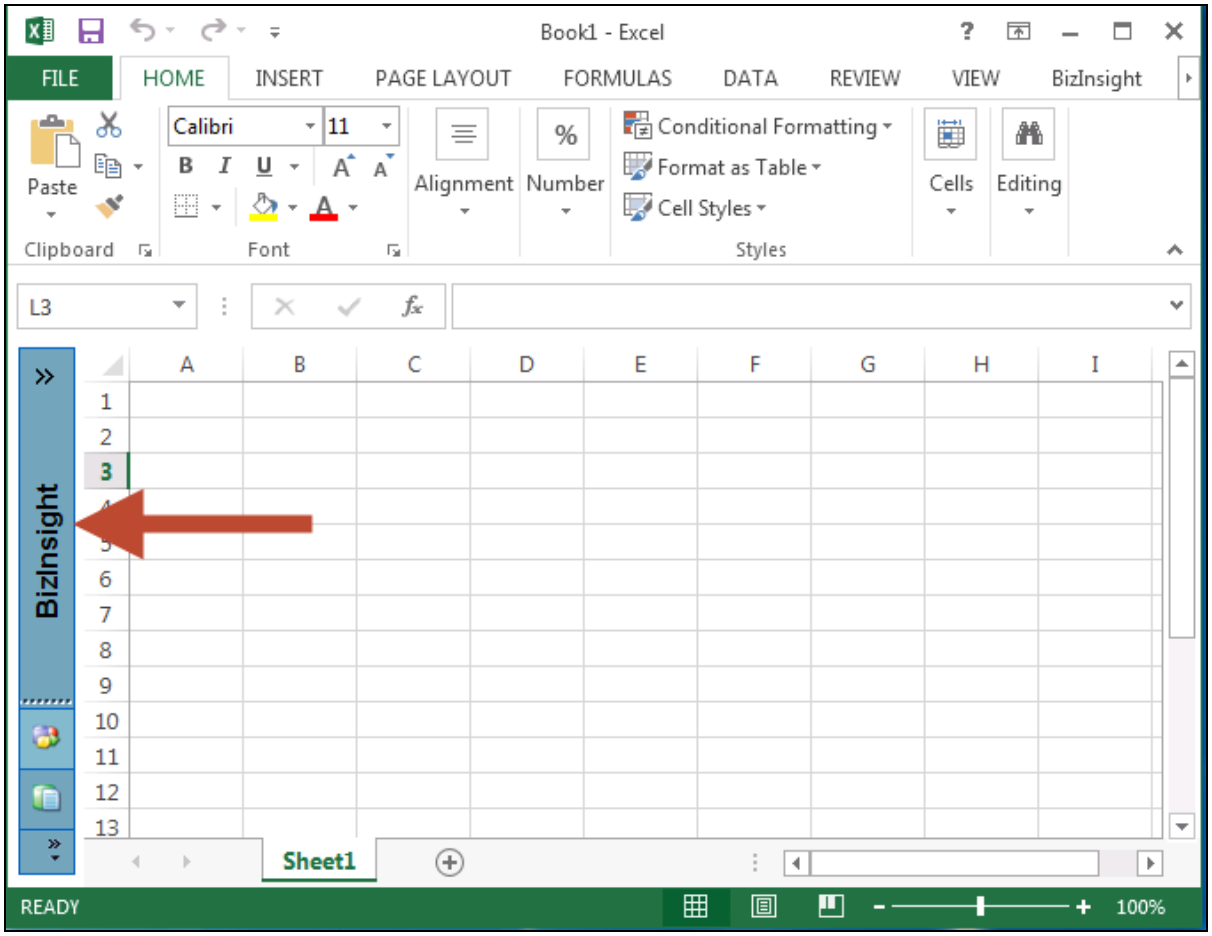


l. Click the **Save Settings** button and click **Done** to close the AppConfigTool.

m. Copy this configured app.config file to the Configuration Path directory for future use as a settings import file for any future BizInsight installations.

22. Start Excel.

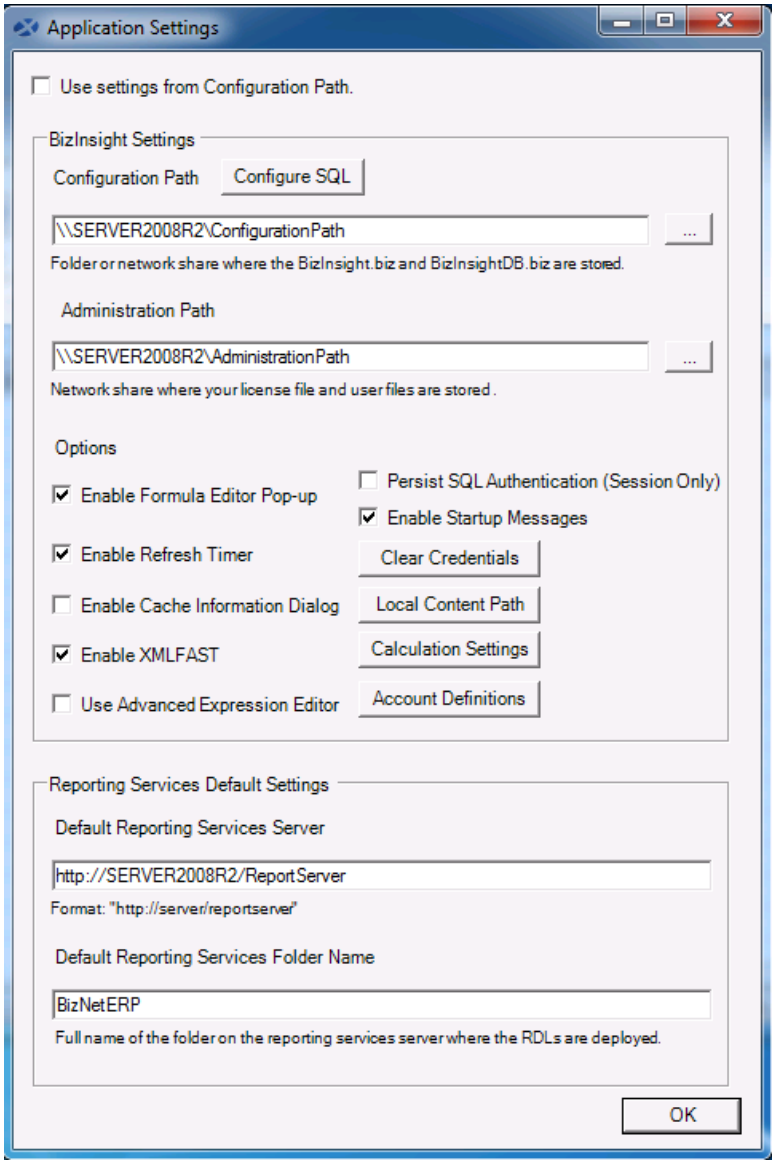
23. You should see BizInsight load and the Navigation Pane display on the left side in Excel.



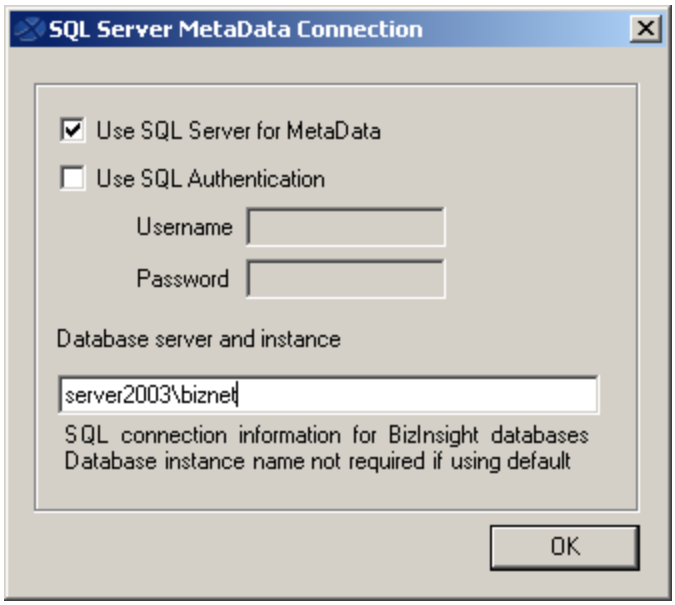

24. Close and reopen Excel.

25. When Excel reopens, click on the BizInsight tab on the ribbon. **IMPORTANT** If the Navigation Pane opens automatically, **close and reopen Excel again**.

26. Click on the **Application Settings** button on the BizInsight tab and confirm that all fields are populated with the correct information for your implementation.




27. If the **Configure SQL** dialog was populated before, click on the **Configure SQL** button to check that dialog. If this dialog is not correctly populated, go back to the AppConfigTool and make the corrections via the tool, not the Configure SQL dialog.




**IMPORTANT** Close the Configure SQL and Application Settings dialogs using the **X** in the upper right corner of the dialog. This will prevent a user.config file from being created for the currently logged in account that will override the app.config file settings.

28. Close Excel.
29. Browse to the reg5 subdirectory of the BizInsight installation directory and double-click the file named "**Register BizInsight for Excel *xxxx* OnDemand.bat**" to register the content. This should register the BizContent add-ins for your login id so that the installation can be tested and verified to be functional.
30. Restart Excel and load BizInsight by clicking on the BizInsight Explorer button on the BizInsight ribbon.
31. Open an existing report, right-click and choose BizNet Refresh to test that the new installation functions correctly.
32. If the report refreshes correctly, have each BizInsight user execute the "**Register BizInsight for Excel *xxxx* OnDemand.bat**" to register the BizInsight version for their login.

# Appendices

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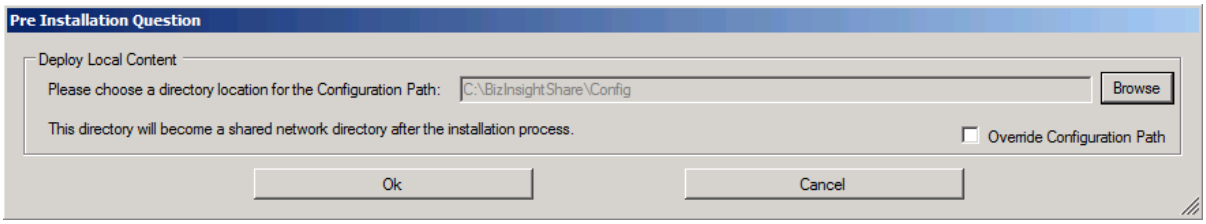
## Automatic Install

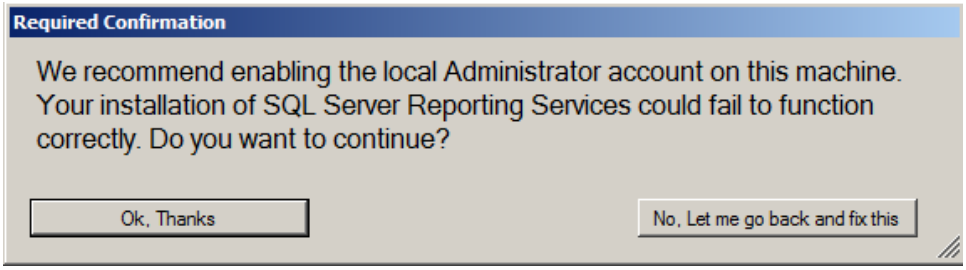
This section describes installing using the Automatic Install button.

1. Clicking on **Automatic Install** will open a prompt to designate your shared directory location. Click on the **Browse** button and browse to the folder that contains the configuration files (.dll, dna and .xll files, Templates subdirectory and .biz files).

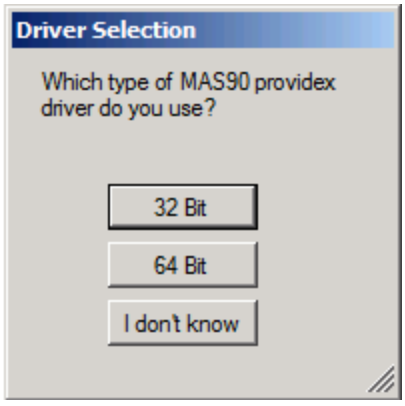



Click **OK**.

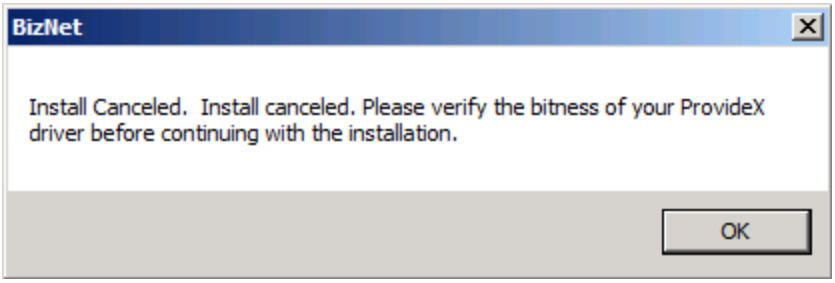
2. You may be asked to enable the local Administrator account. Click **OK, Thanks**, even if you know that the Administrator account is enabled.



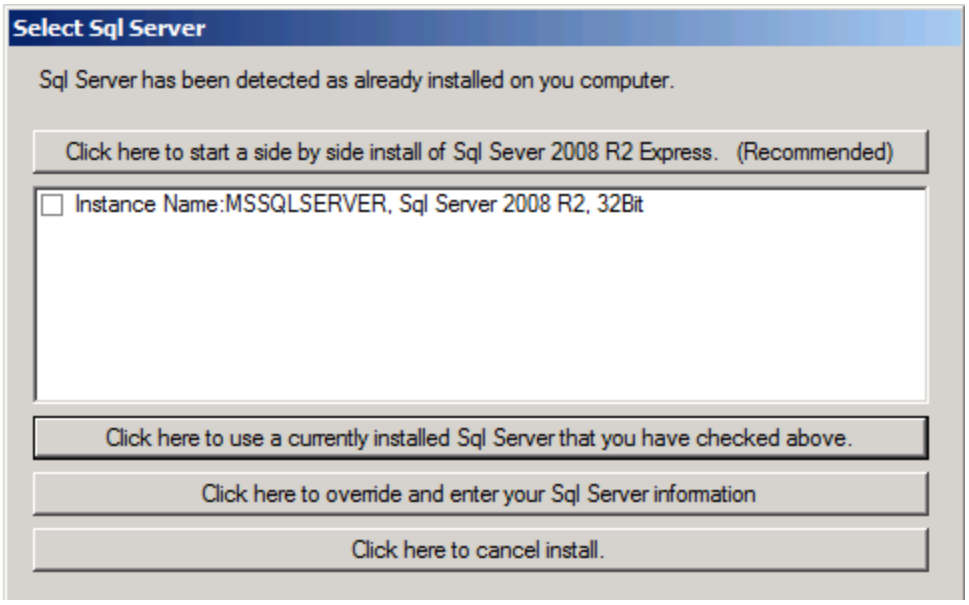

3. The installer will ask whether you are using a 32-bit version of Sage 100 or a 64-bit version. Choose the appropriate button.



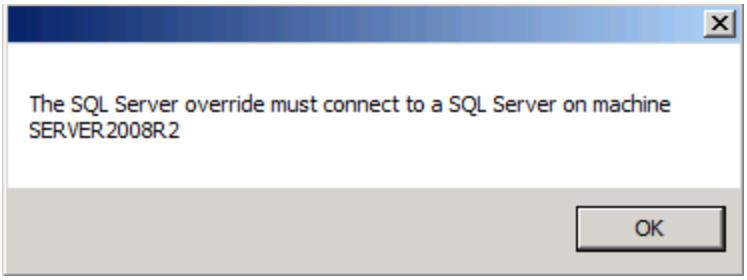
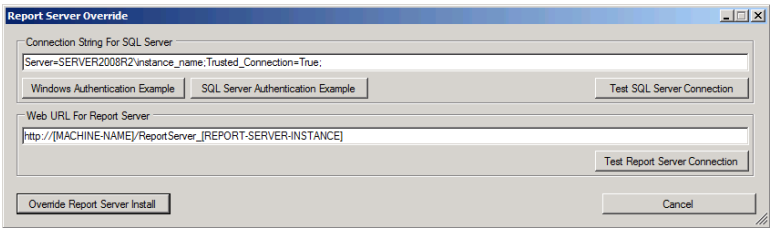
**IMPORTANT** This question controls whether a 32-bit a 64-bit version of SQL Server is installed. SQL Server can only access and use ODBC drivers that are the same bitness. If you do not know whether your Sage 100 installation is using a 32-bit or 64-bit ODBC driver, click **I don't know** and the installation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



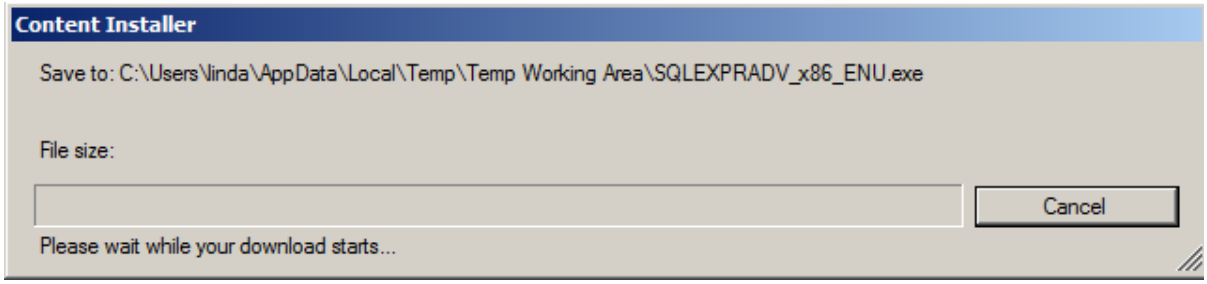

4. If the Content Installer detects existing instances of SQL Server Reporting Services installed on the local server machine, the following dialog will display giving you the option to use the existing installation or to install a side by side installation.



| 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.<br><br>**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. |

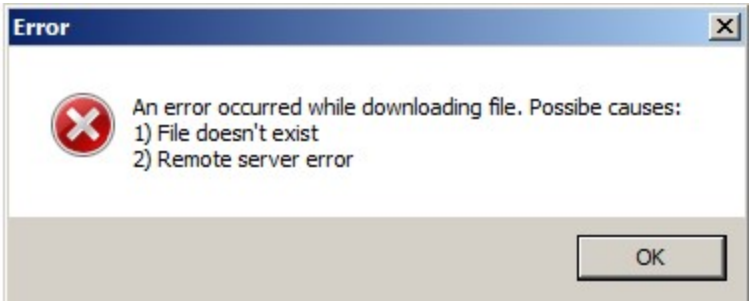
| Option | Description |
|---|---|
| **Click here to override and enter your Sql Server information** | Use this button If you need to specify a different port or want to use HTTPS for secure communications or your existing installation is not detected.<br><br>When this button is clicked, a warning will 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.<br><br>  <br><br>  <br><br>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.<br><br>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.



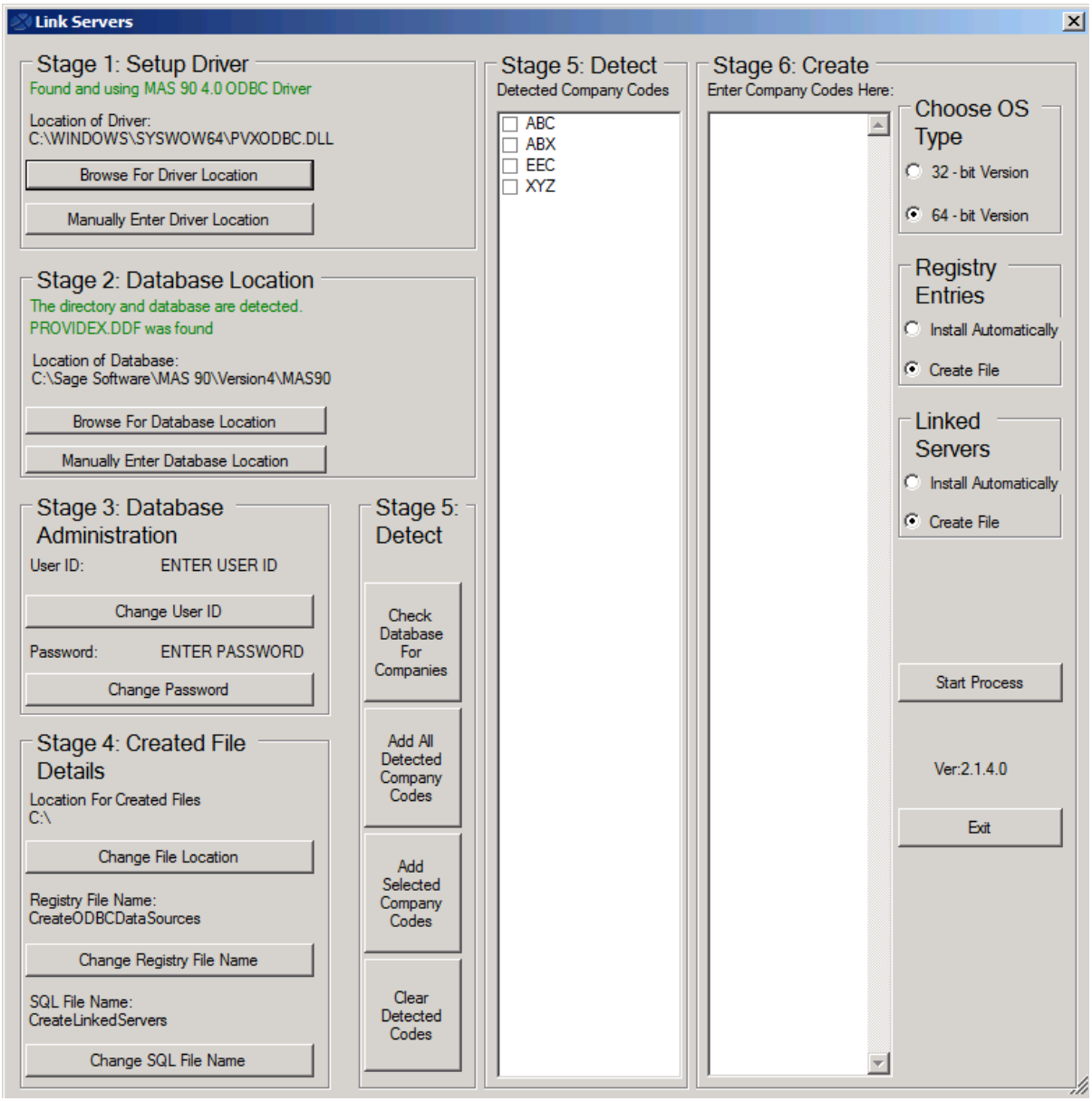

**IMPORTANT** IF an existing reporting services installation that you want to use is not detected by the installer or you are not able to use the Override option, contact BizNet Software Support for assistance.

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



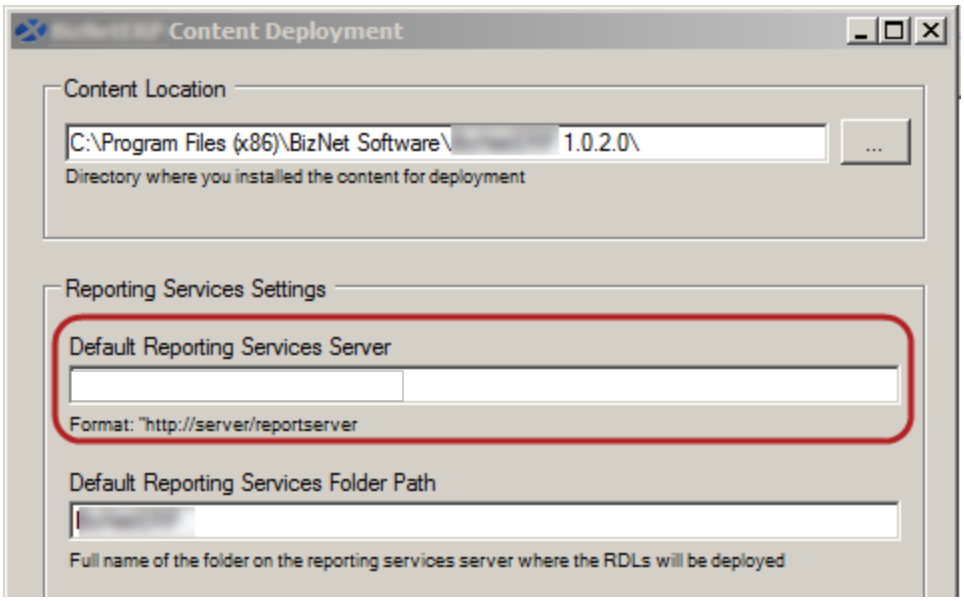

If the side-by-side installation fails, contact BizNet Software Support for assistance.

5. The **Link Servers** dialog will open. Unless you have additional companies to setup for BizInsight reporting, click **Exit**.

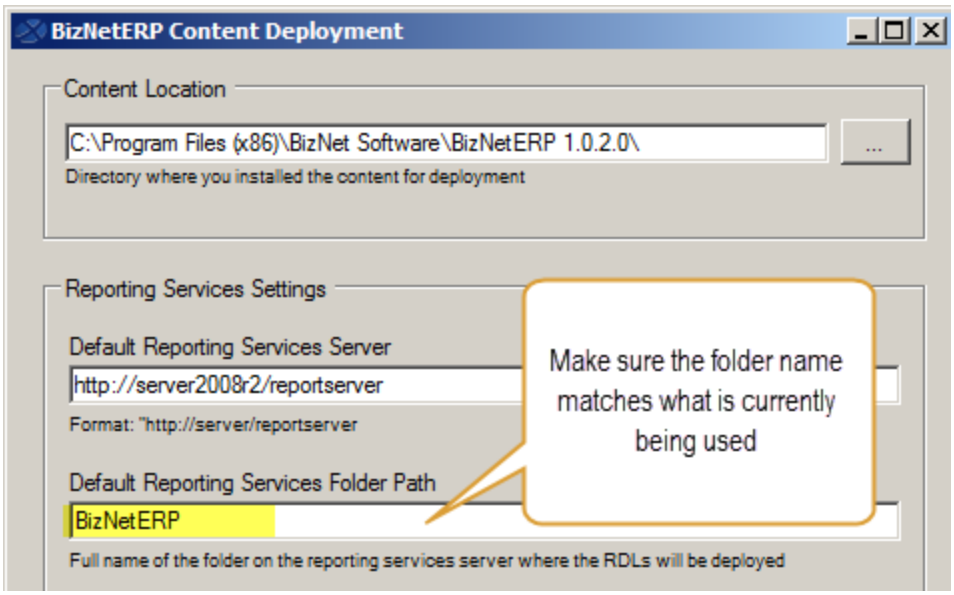



6. The Content Deployment dialog will open next. Most values will be automatically completed for you in this dialog.

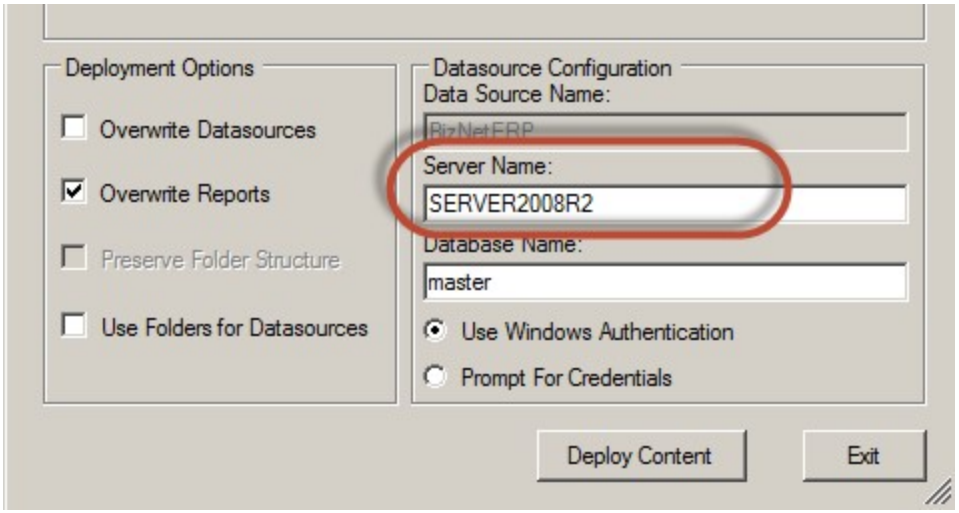
   a. Verify that the **Default Reporting Services Server** field contains the correct URL based on what was noted from Step 1 above. If this field is blank or incorrect, type in the correct Reporting Services URL.



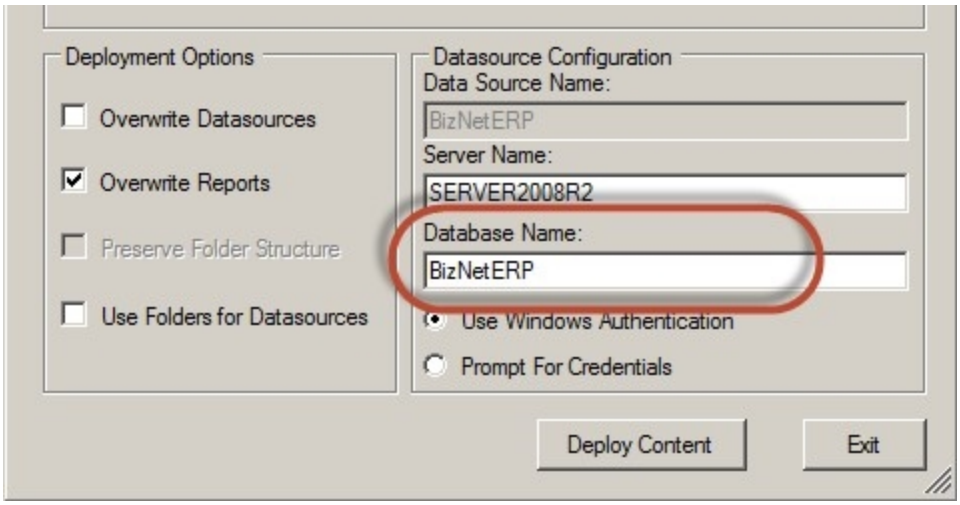

b. **IMPORTANT** Make sure the folder name is the folder name currently being used (noted in Step 1 above). If the folder is not the same, change the name to match the folder name currently being used.



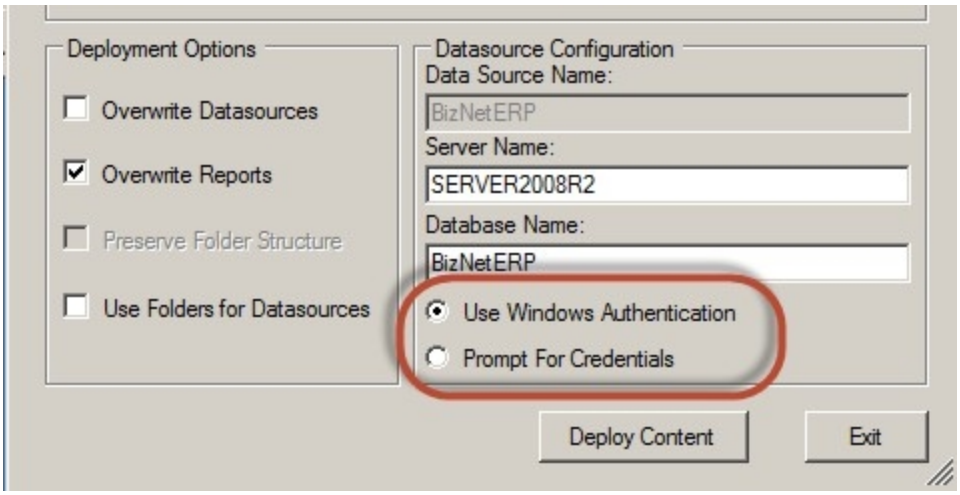

c. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Server Name** field if your accounting system database is on another server.



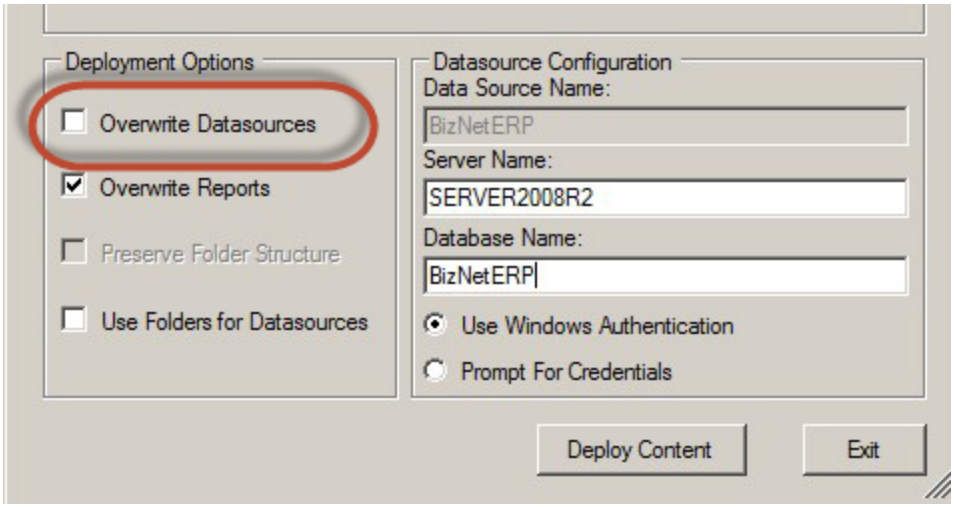

d. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name.



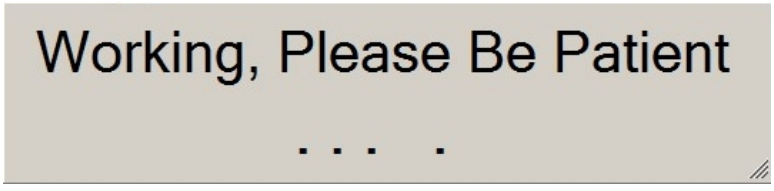

e. **Skip this step if you are using Sage 100 ProvideX** - **data can only be retrieved using Windows authentication**.
Select the desired authentication method – Windows authentication or Prompt for Credentials.




f. Make sure the **Overwrite DataSources** checkbox is unchecked.



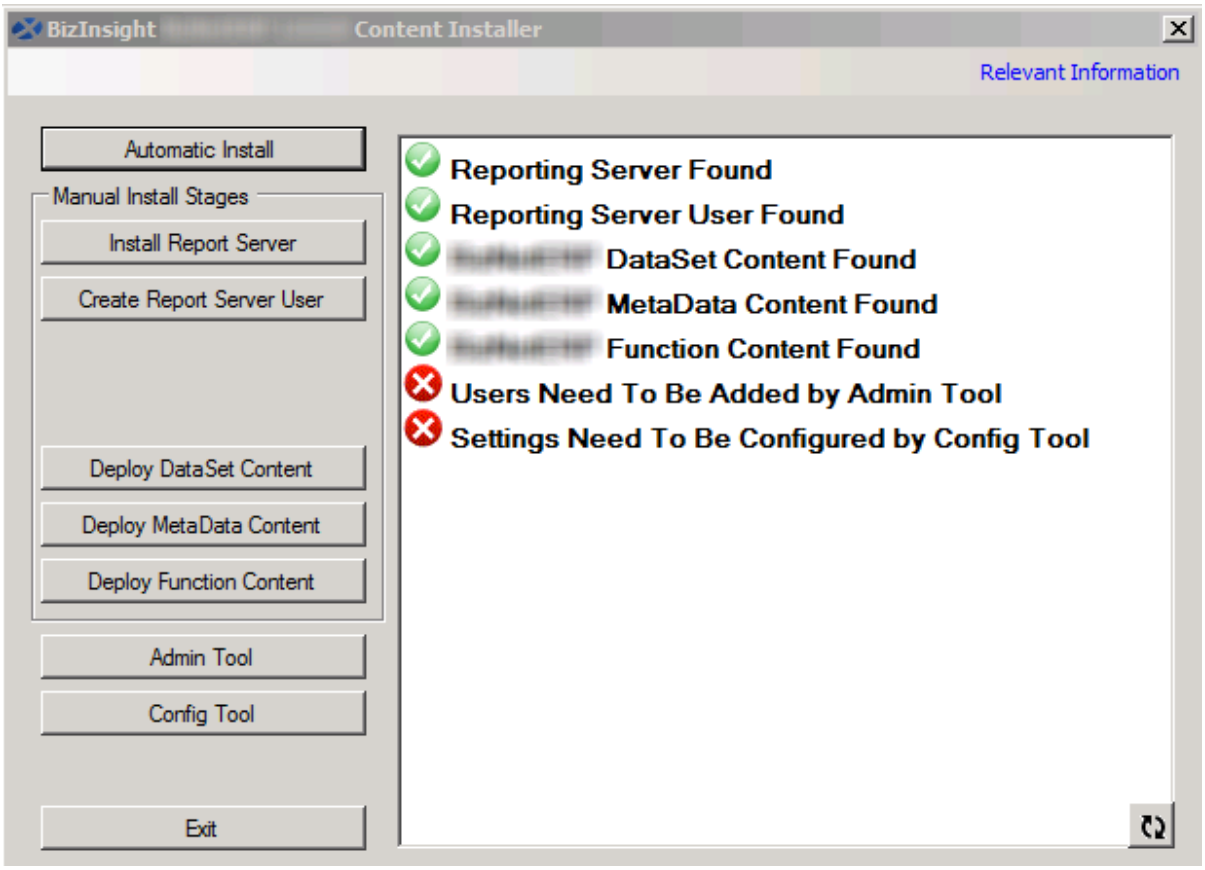

g. Click **Deploy Content** to continue.




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

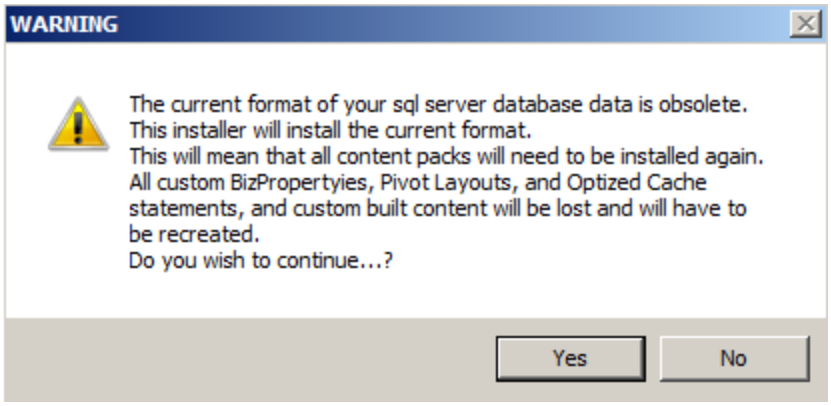
If you encounter an error deploying the DataSet Content, contact BizNet Software Support for assistance.

7. 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.



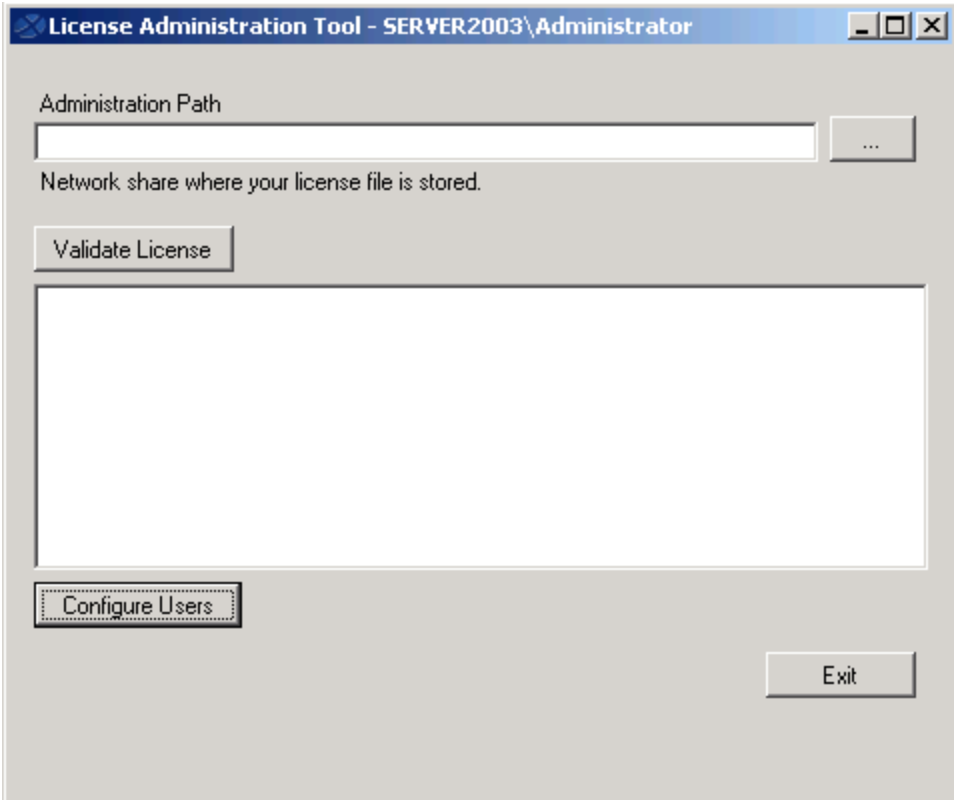

The following error may occur if the SQL Server instance already has SQL metadata

databases (BizInsight and BizInsightDB databases) and the existing metadata databases were not created with a Content Installer.

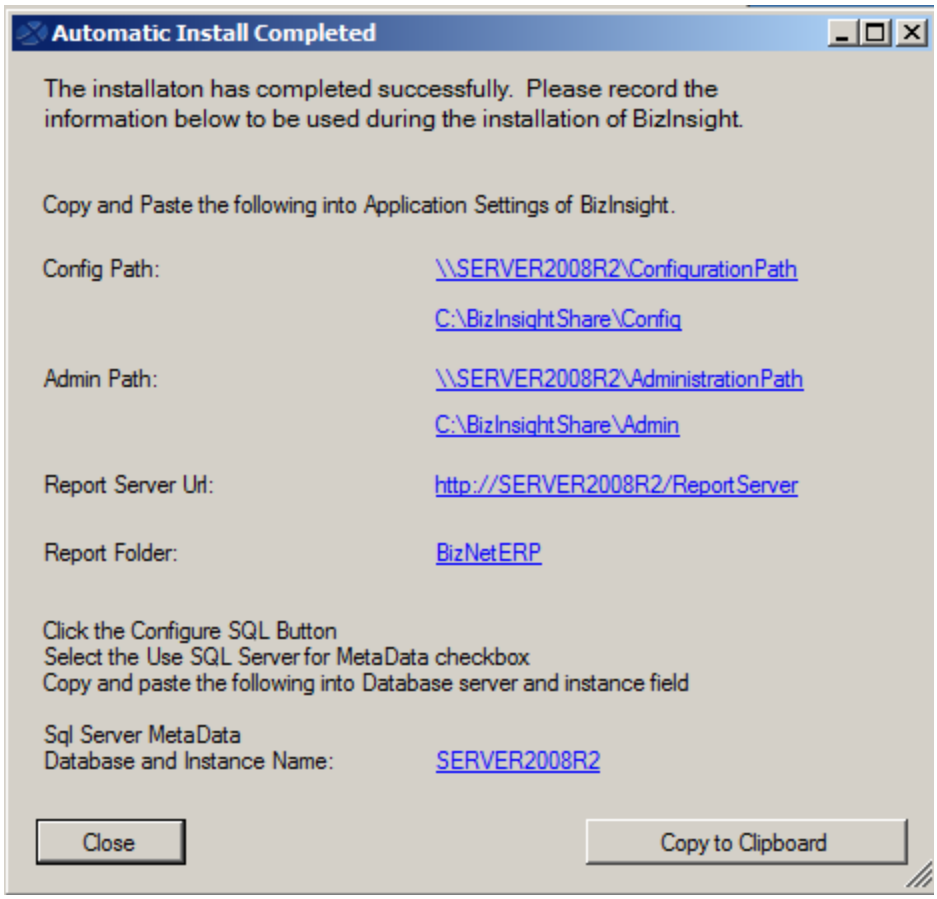



If the above message occurs, you must recreate all custom Navigation Pane nodes and refresh any Optimize Cache and Account Definition workbooks after the installation completes. Subsequent installations should not require this step.

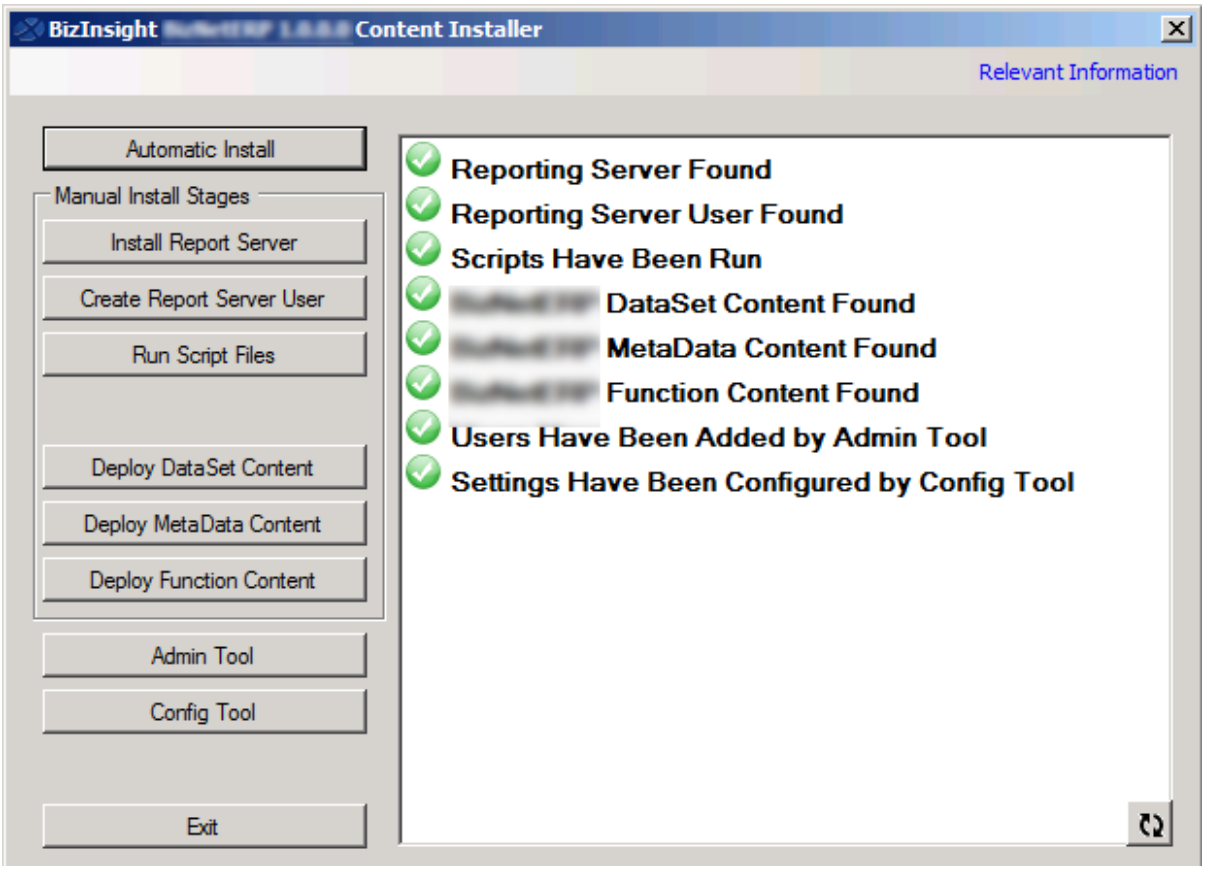
8. The License Administration Tool will open. Unless you need to add new BizInsight users, click **Exit**.




9. After automatic install is complete, relevant information is displayed. Click **Close**.




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

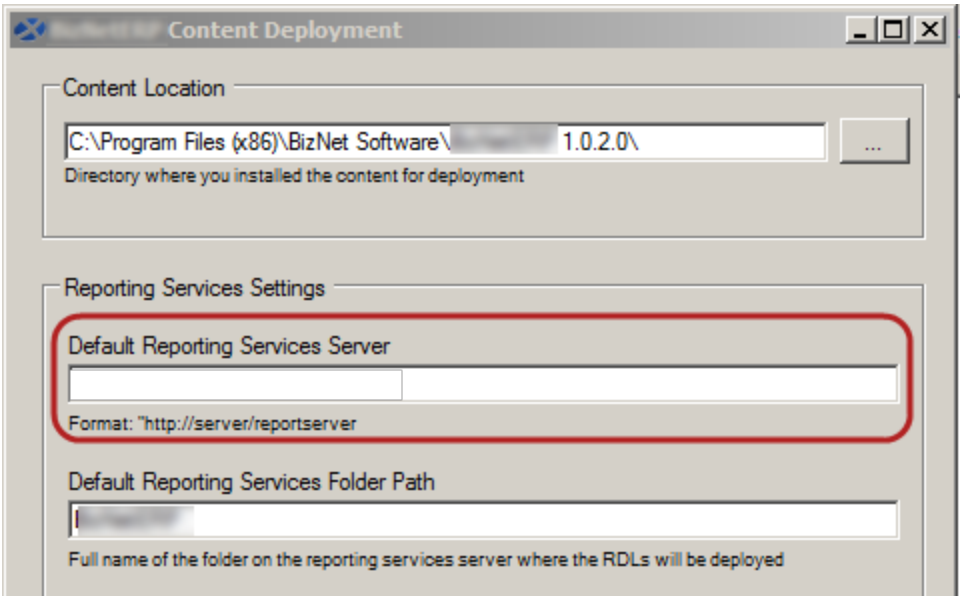

BizInsight Content Installer
Relevant Information
Automatic Install
Manual Install Stages
Install Report Server
Create Report Server User
Run Script Files
Deploy DataSet Content
Deploy MetaData Content
Deploy Function Content
Admin Tool
Config Tool
Exit
Reporting Server Found
Reporting Server User Found
Scripts Have Been Run
DataSet Content Found
MetaData Content Found
Function Content Found
Users Have Been Added by Admin Tool
Settings Have Been Configured by Config Tool

# Deploy Data Set Content

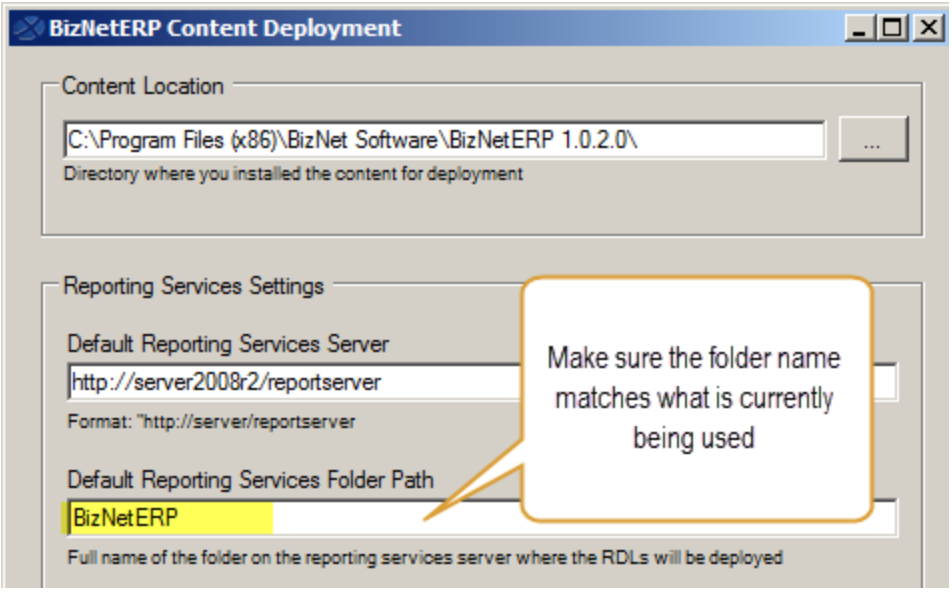
This button can be used to deploy the reporting services reports to the Report Server.

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:

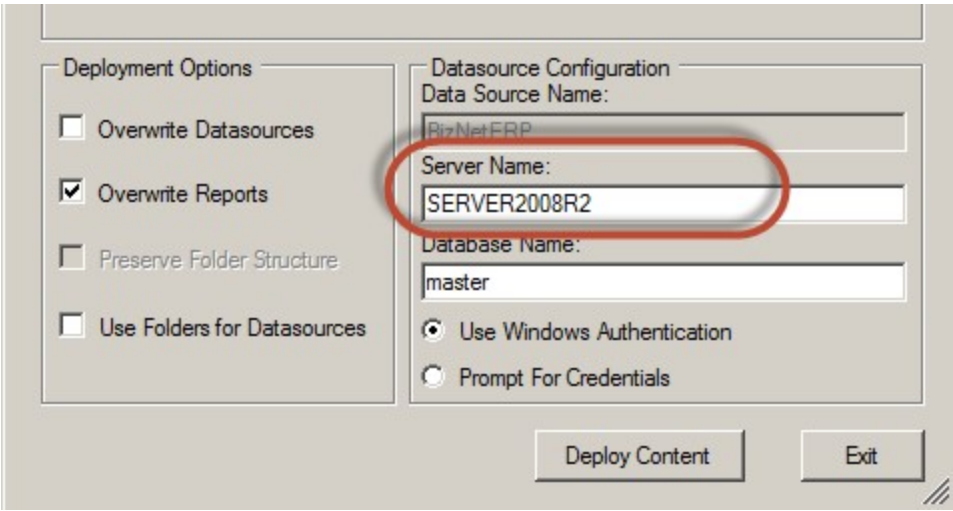
a. Verify that the **Default Reporting Services Server** field contains the correct URL based on what was noted from Step 1 above. If this field is blank or incorrect, type in the correct Reporting Services URL.



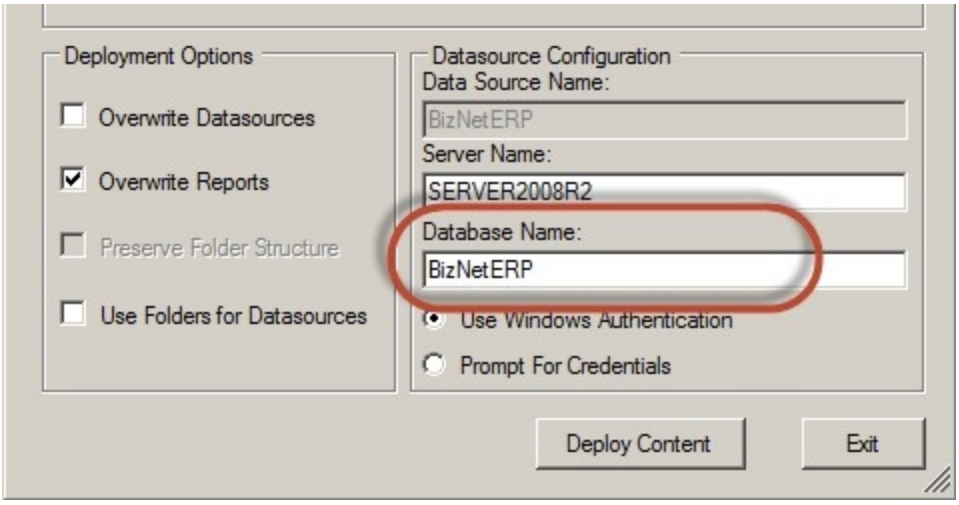

b. **IMPORTANT** Make sure the folder name is the folder name currently being used (noted in Step 1 above). If the folder is not the same, change the name to match the folder name currently being used.



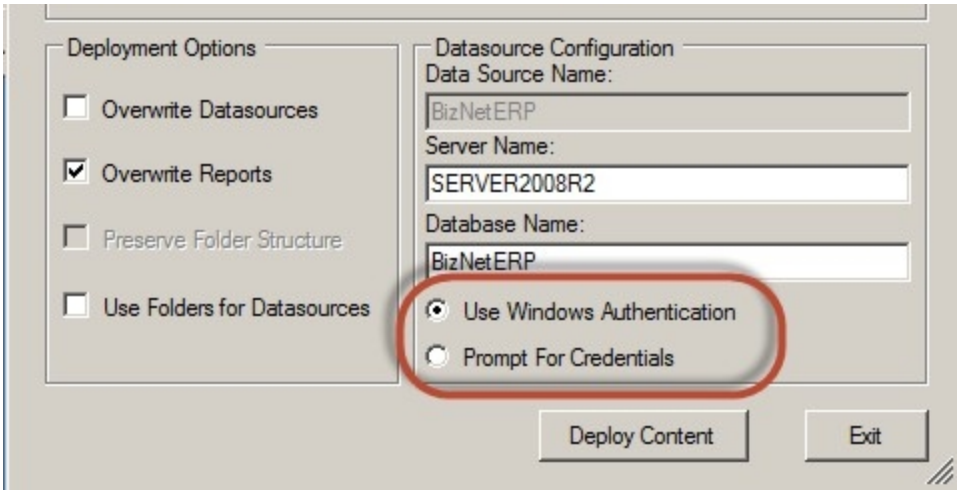

c. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Server Name** field if your accounting system database is on another server.



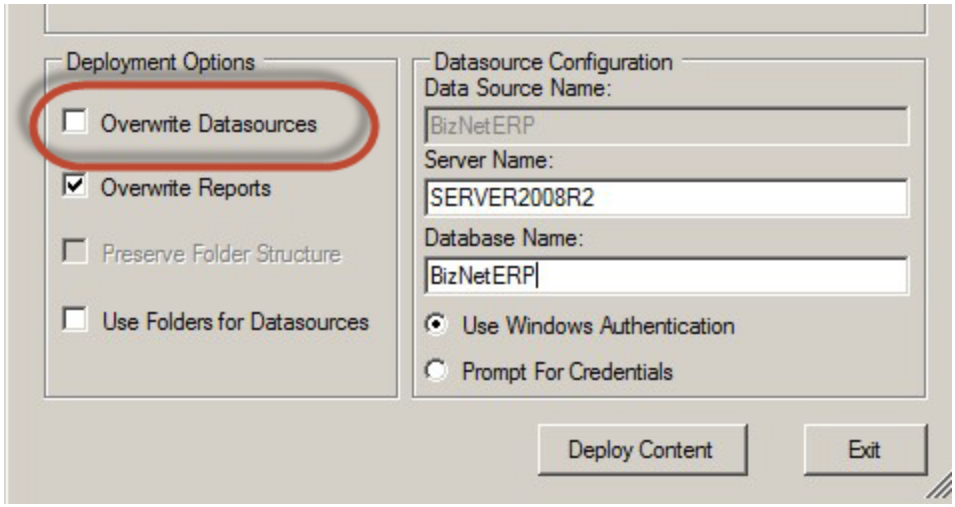

d. **Skip this step if you are using Sage 100 ProvideX**.
Adjust the **Database Name** field to point to your accounting system database. If your accounting software uses a system or control database, provide the name of that database rather than a company database name.



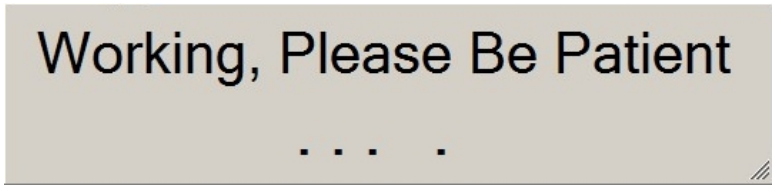

e. **Skip this step if you are using Sage 100 ProvideX - data can only be retrieved using Windows authentication**.
Select the desired authentication method – Windows authentication or Prompt for Credentials.



f. Make sure the **Overwrite DataSources** checkbox is unchecked.




g. Click **Deploy Content** to continue.




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

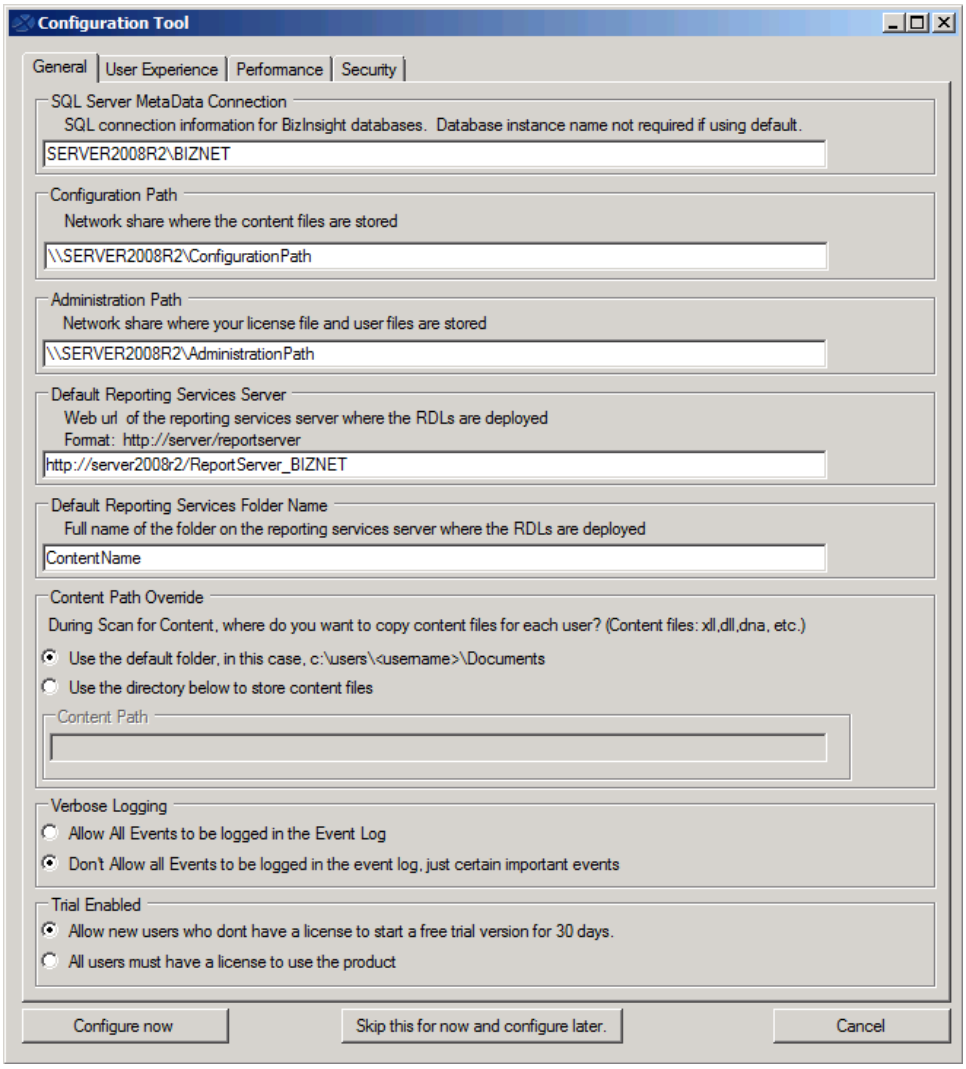
If you encounter an error deploying the DataSet Content, contact BizNet Software Support for assistance.

# 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.

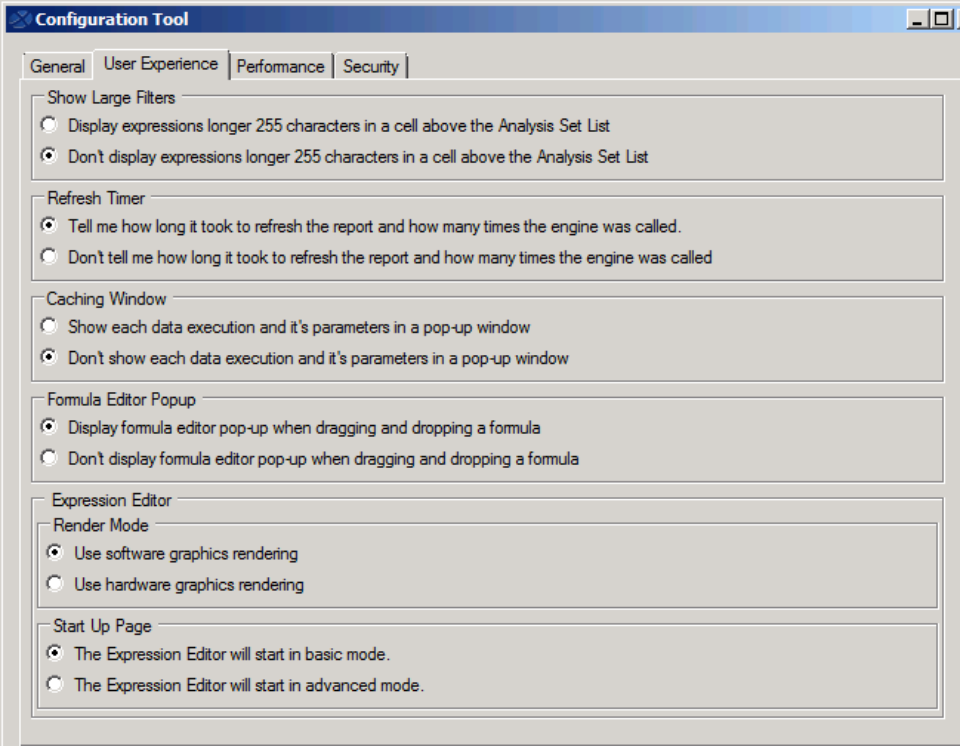
**General Tab**

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.

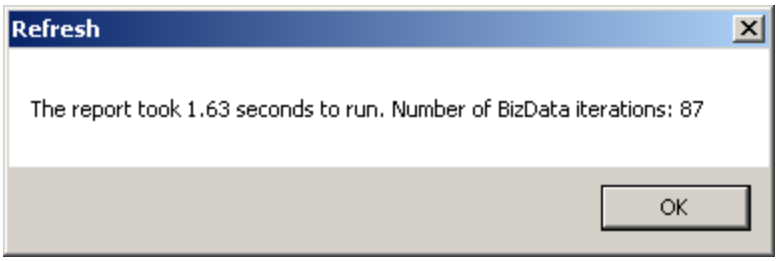
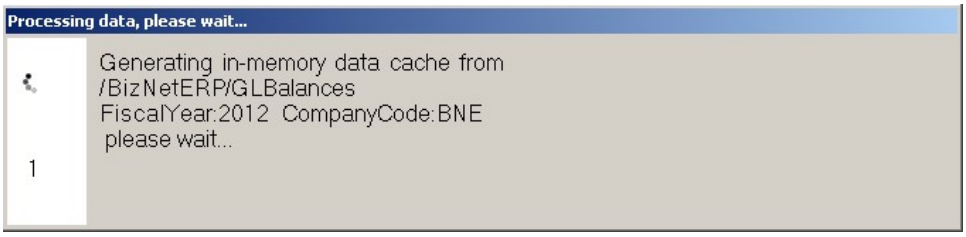


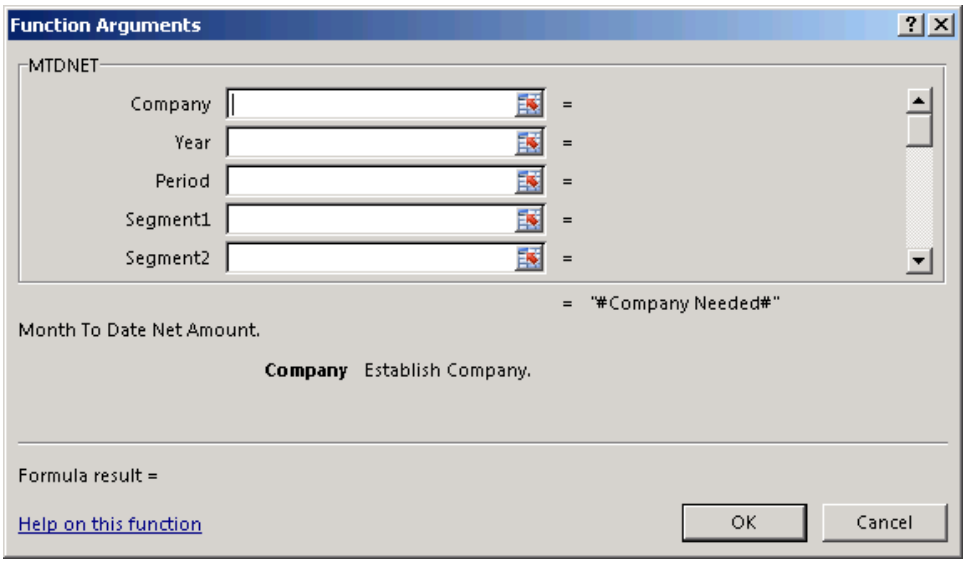

**User Experience Tab**

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.

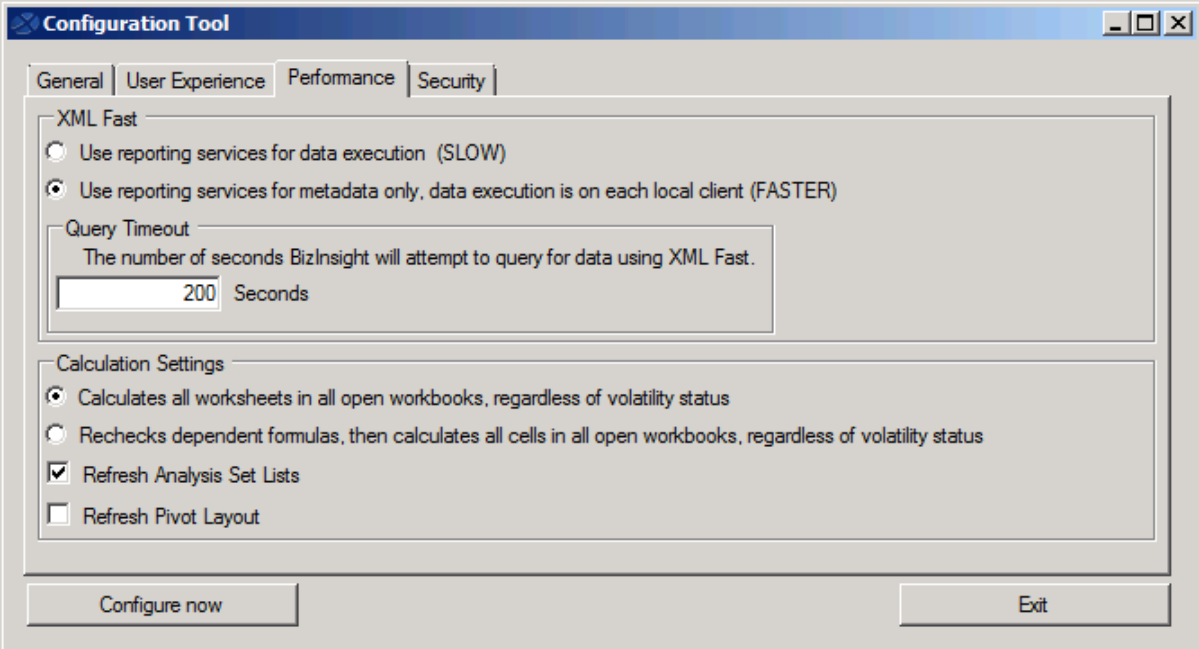



| Option | Description |
|---|---|
| Show Large Filters | When a user drills down on a function, the parameters used for the function are stored in a property of the analysis set. The field in which those values are stored is limited to 255 characters. When the total length of the string representation 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.<br>  |
| Caching Window | BizInsight can be configured to display a caching window for each data cache being built. .This feature is turned off by default.<br>  <br>**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.<br>  <br>**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. |

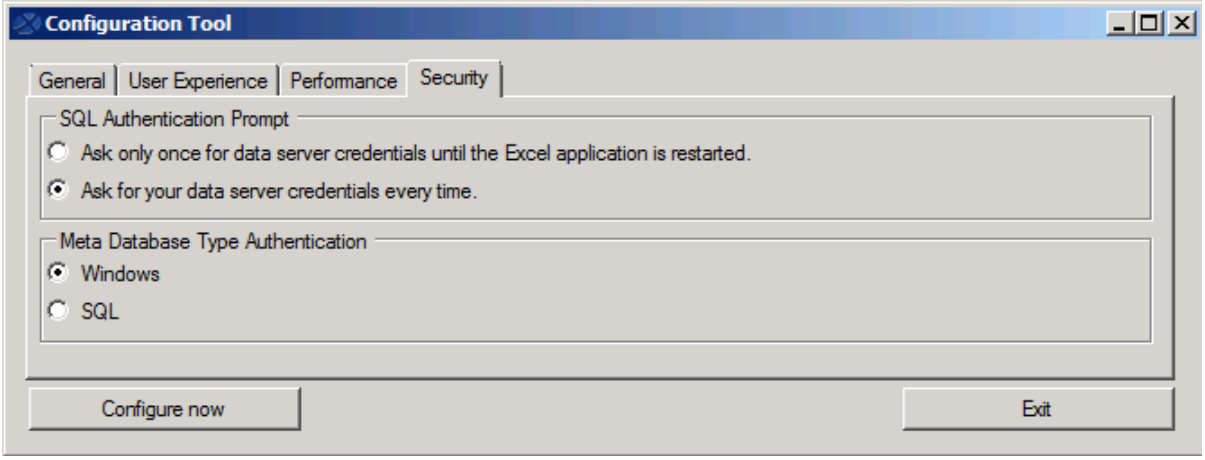
### Performance Tab




| 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.<br><br>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. |

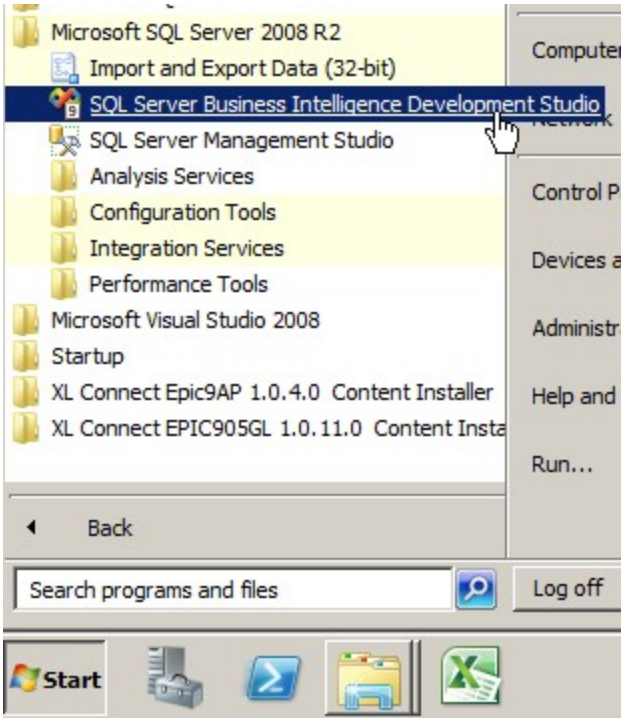
| Option | Description |
|---|---|
| Meta Database Type Authentication | Use this section to specify whether Windows authentication or SQL credentials will be used to retrieve data from the BizInsight MetaData databases. This is a completely different data connection than is used for retrieving data 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.

## Manually Deploying Content Reporting Services Reports

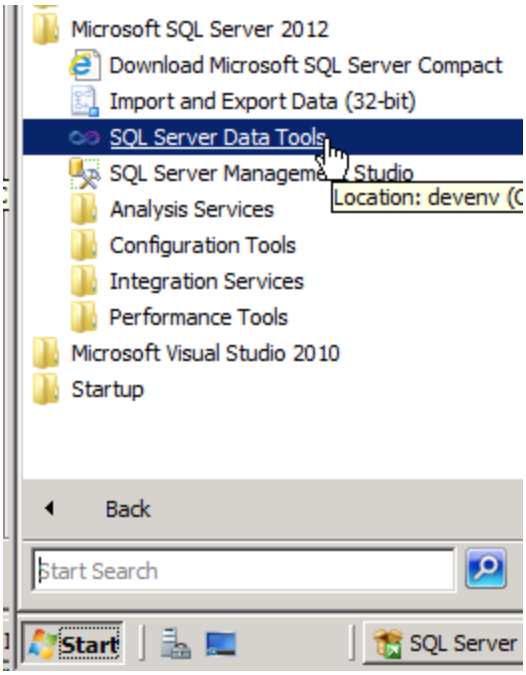
If the content installer does not detect your existing reporting services installation, it may be necessary to manually deploy the reporting services reports.

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.



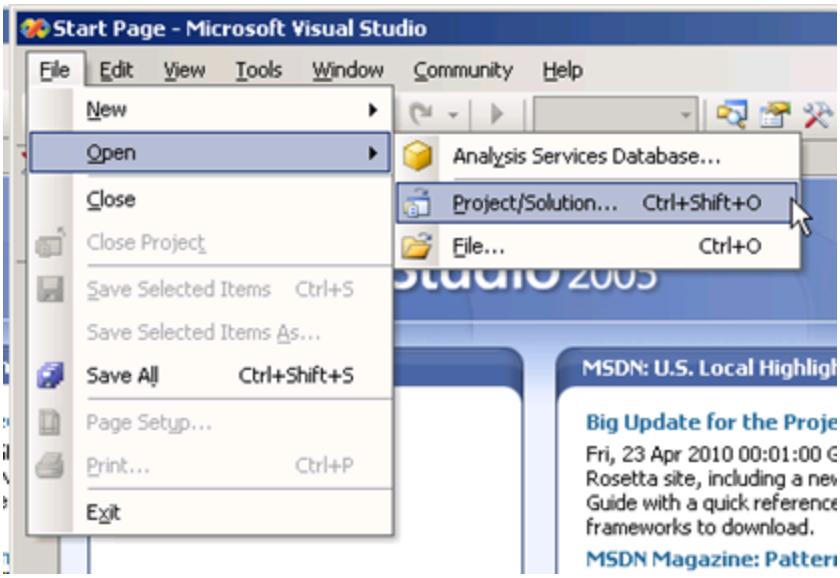

or **Microsoft SQL Server 2012** > **SQL Server Data Tools**

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

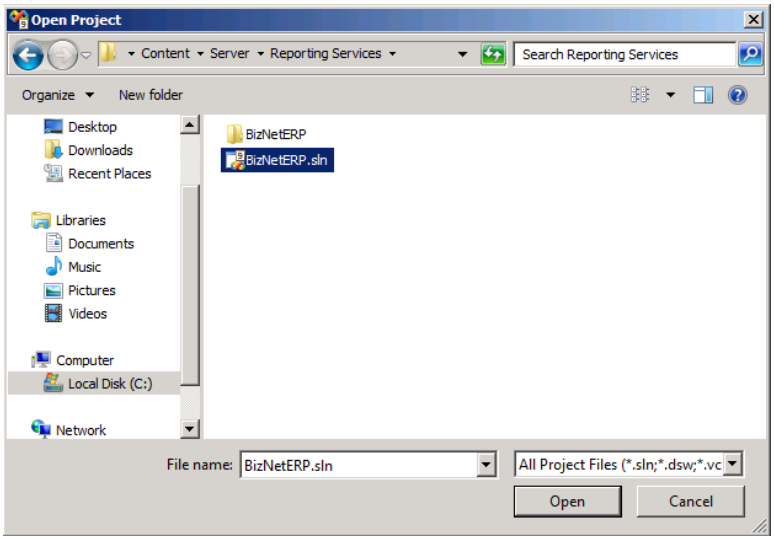



**IMPORTANT** If your server operating system is Windows Server 2008 or higher and User Account Control is enabled, Ctrl+Shift+Right-click on SQL Server Business Intelligence Development Studio (or SQL Server Data Tools) and choose "Run as administrator".

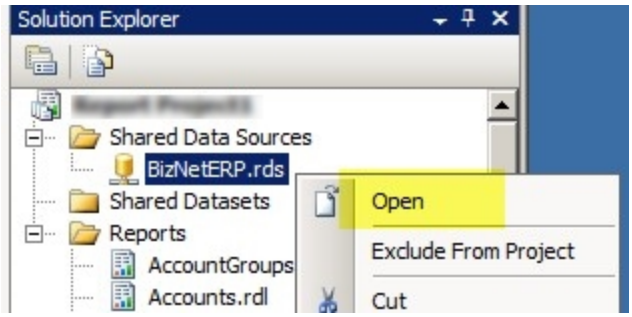
3. Click on **File** > **Open** > **Project/Solution**



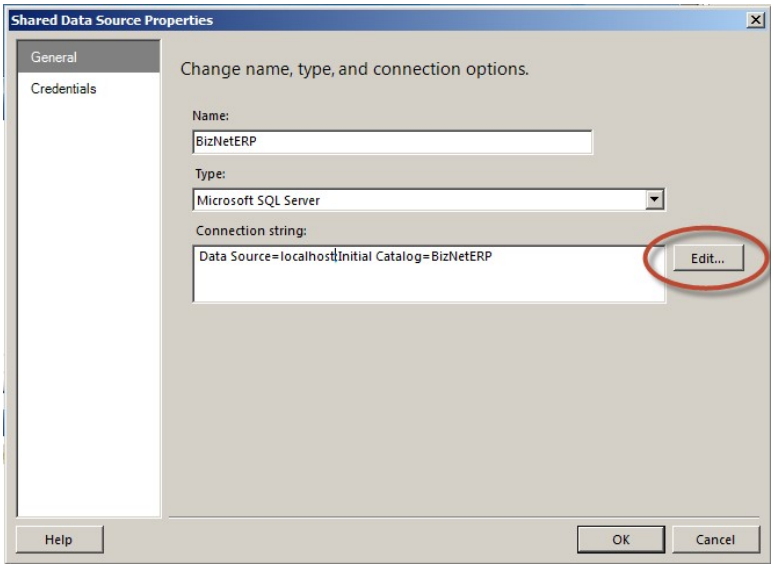
4. Browse to the directory to which the content was installed, locate the Reporting Services folder and select the .sln file. If one does not exist, select the .rptproj file.



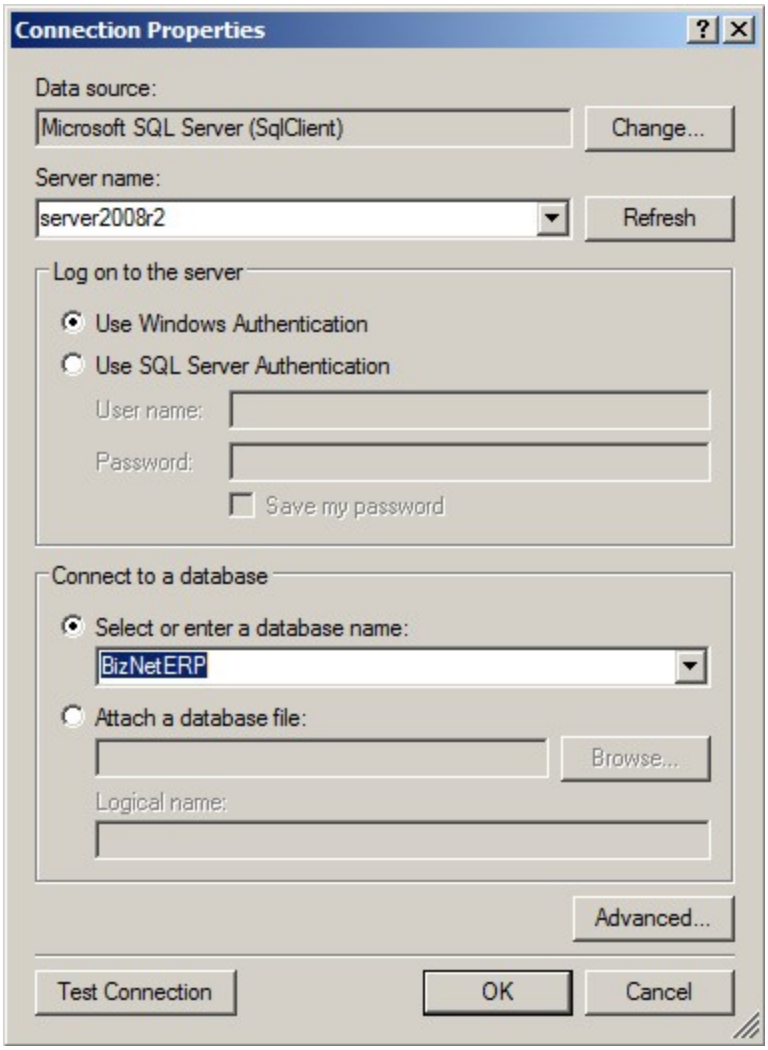

5. Right-click on the shared data source and choose **Open**.



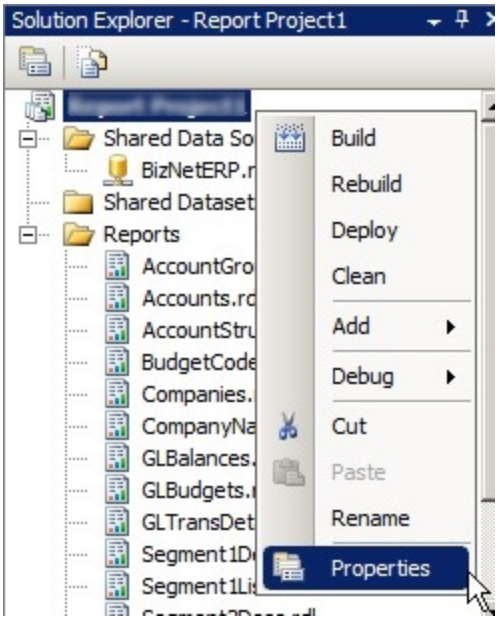
6. Click on **Edit**.



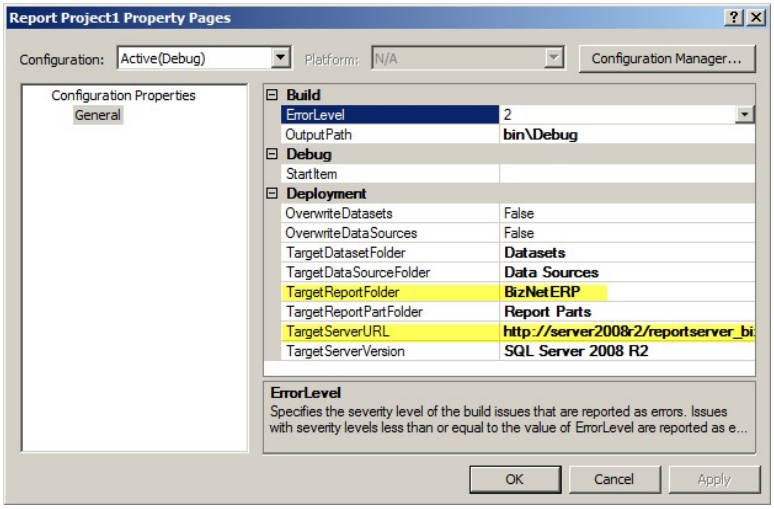

7. Enter the accounting system database server name (and instance name if applicable) in the **Server name** field. Select the accounting system database from the database drop down list. If your accounting system uses a system or control database, select that database instead of a specific company database.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

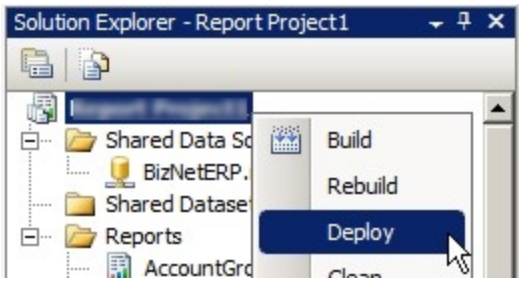
8. In the Solution Explorer, right-click on the top level and choose **Properties**.




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**.

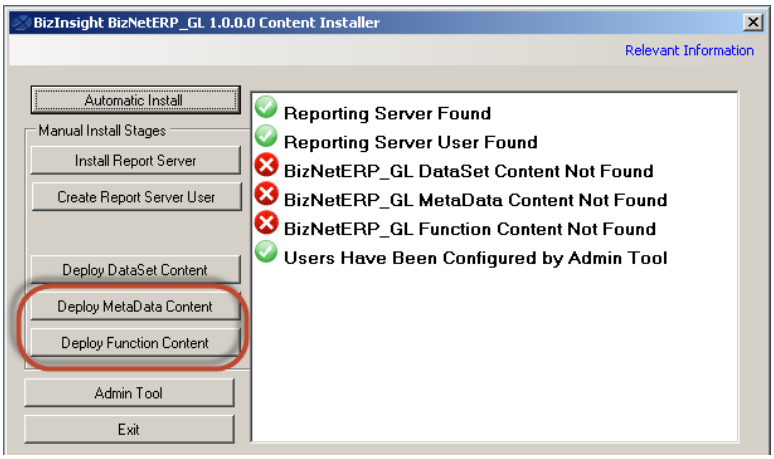


10. Right-click on the top level in the Solution Explorer and choose **Deploy**.




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

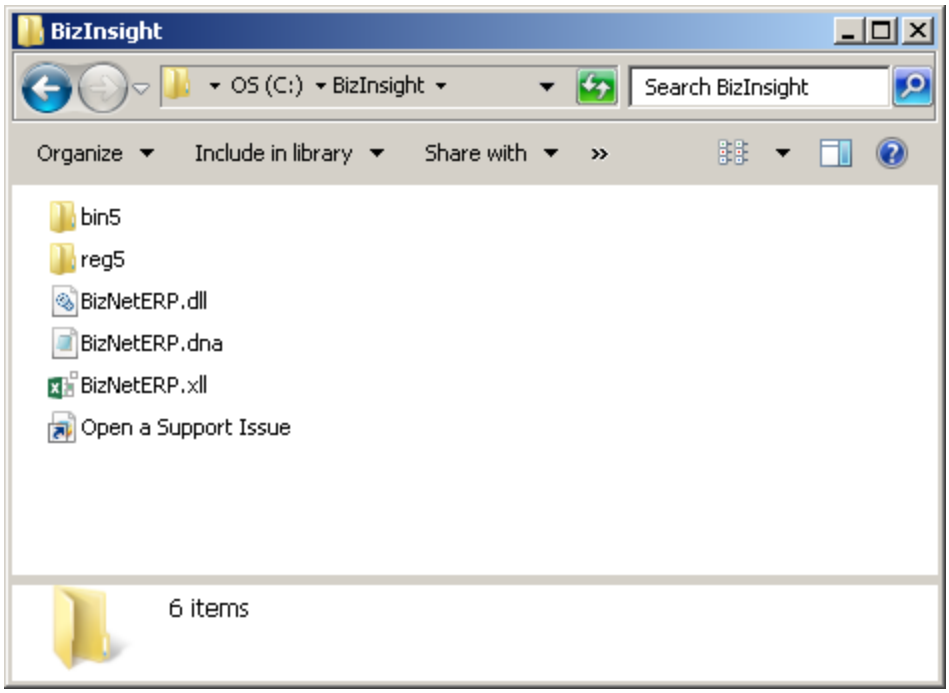
12. Run the **Deploy MetaDataConten**t and **Deploy Function Content** options in the Manual Install Steps section to complete the content pack installation.



## 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.

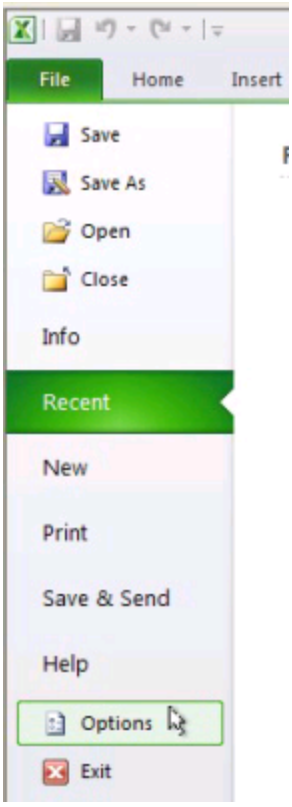



The remaining steps vary based on the Office version installed:

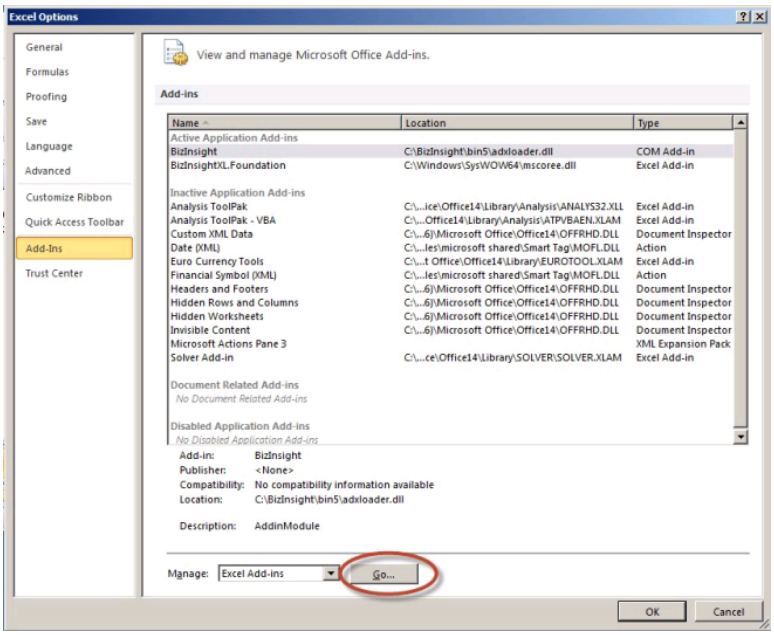
Office 2010/2013 steps
Excel 2007 steps
Excel 2003 steps

## Excel 2010/2013

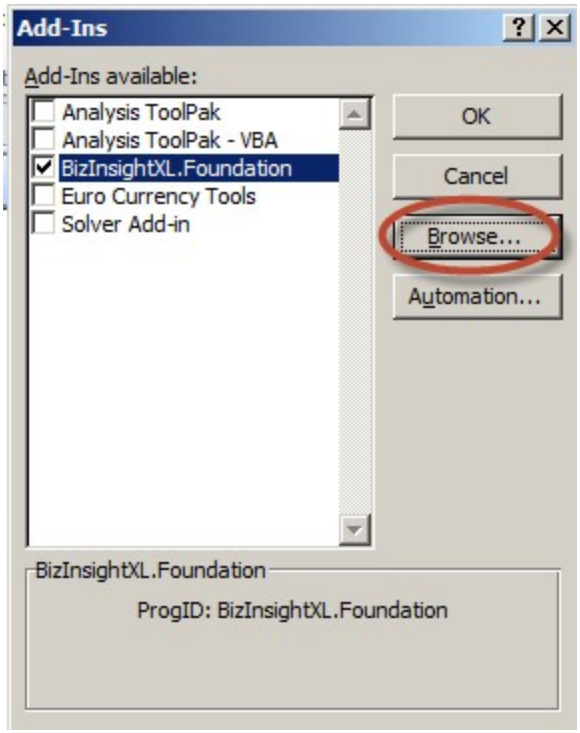
1. Click on **File** > **Options.**



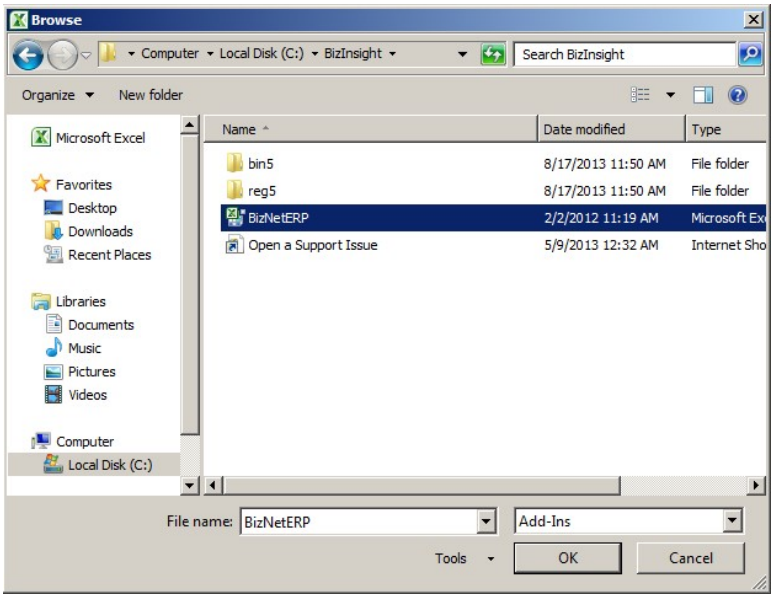

7. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



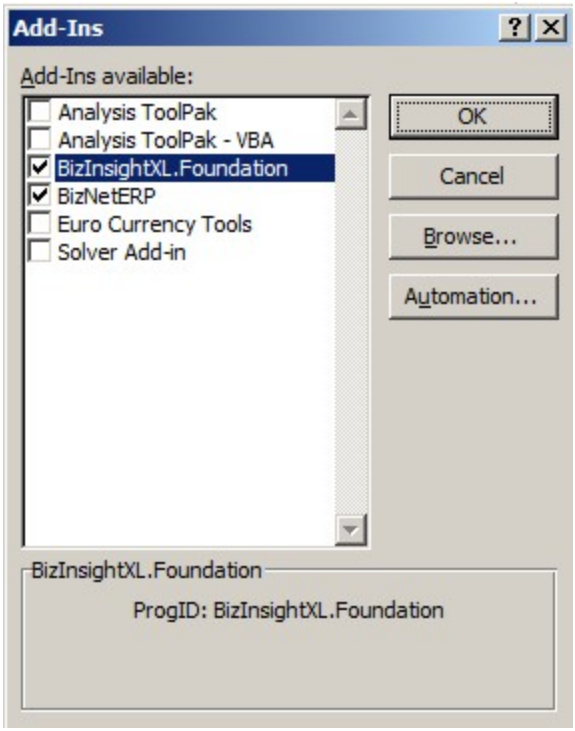
2. In the Add-ins dialog, click on the **Browse** button.




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



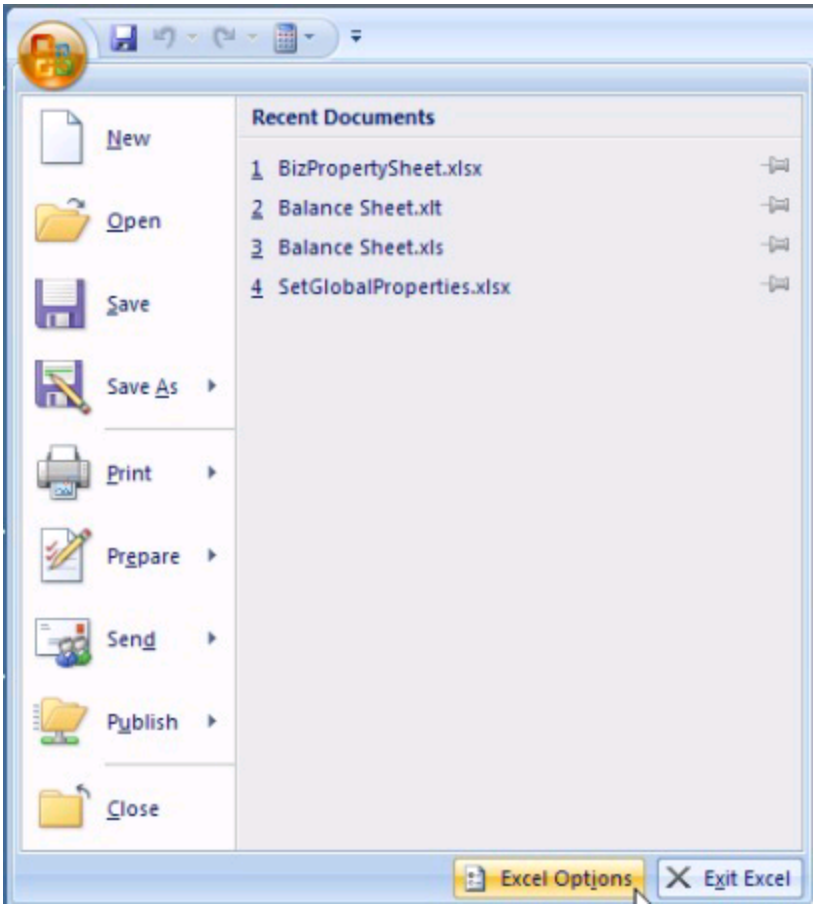

The Add-ins dialog should now look like the following:


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

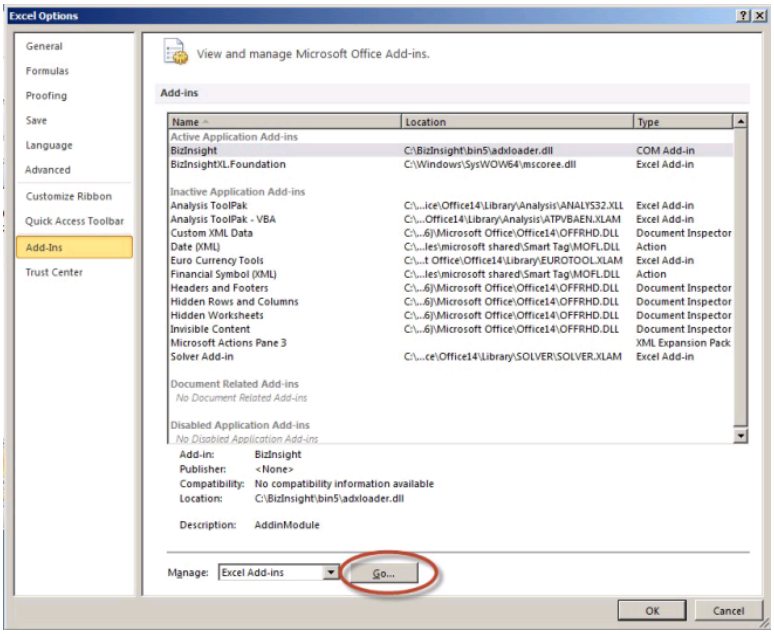
4. Click **OK**.

## Excel 2007

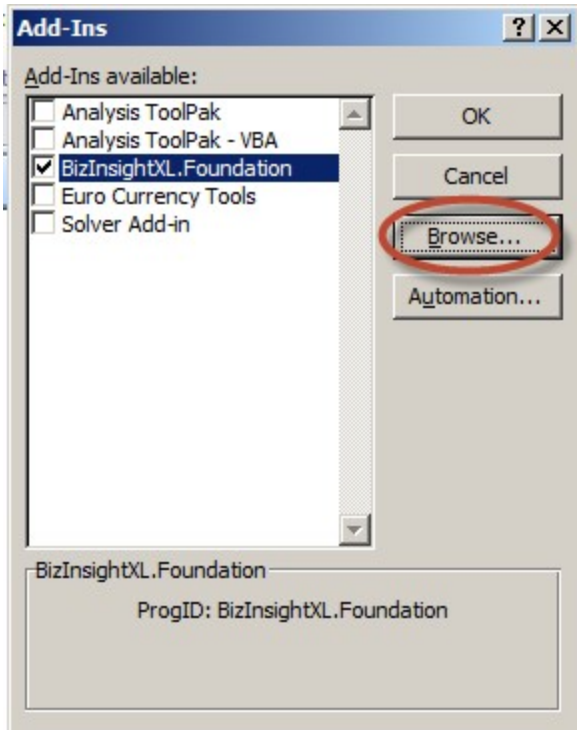
1. Click on the **Office** button and then click on the **Excel Options** button.



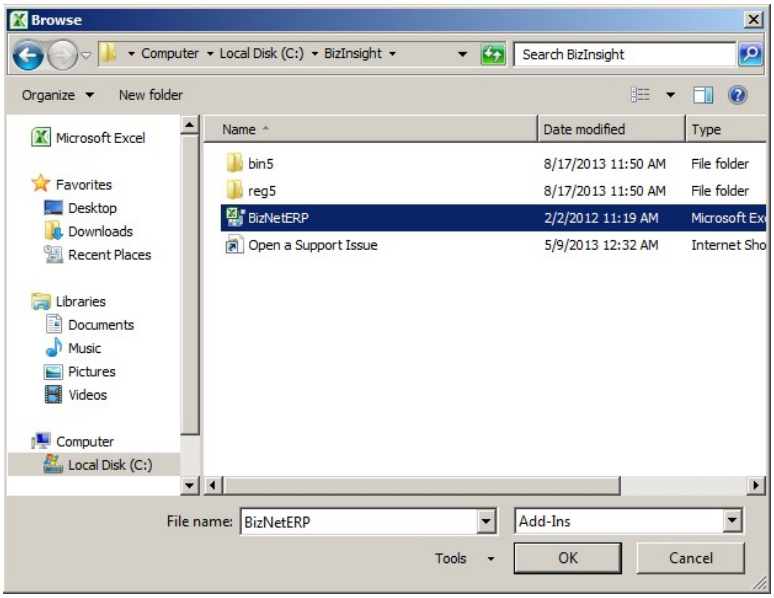
2. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



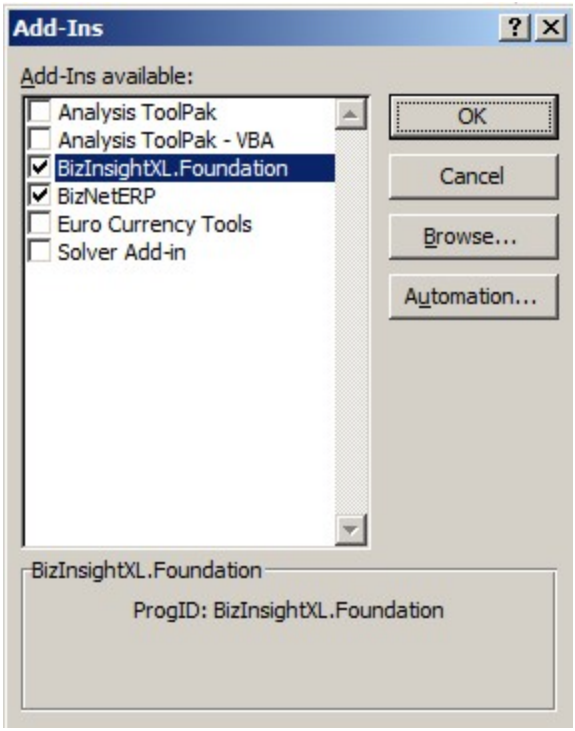
3. In the Add-ins dialog, click on the **Browse** button.




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



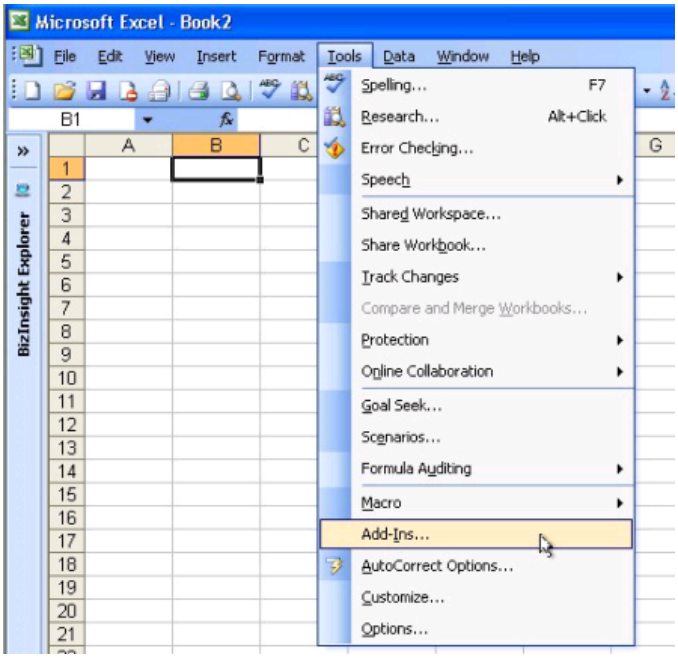

The Add-ins dialog should now look like the following:


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

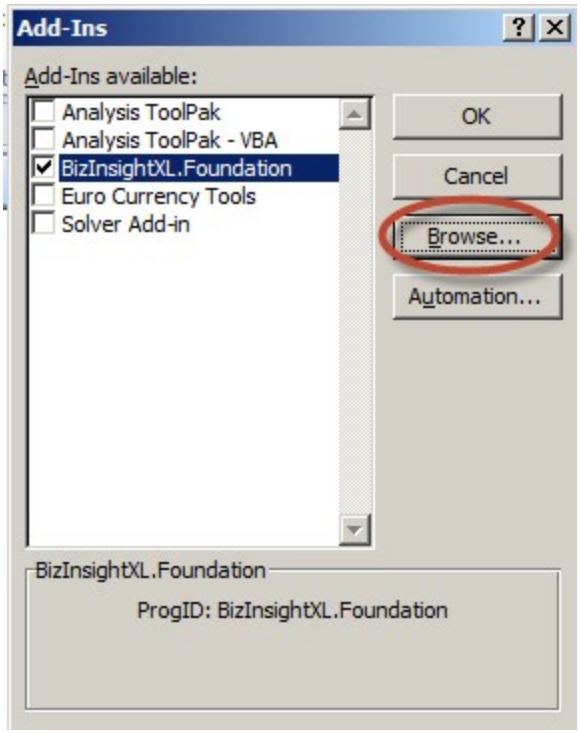
5. Click **OK**.

## Excel 2003

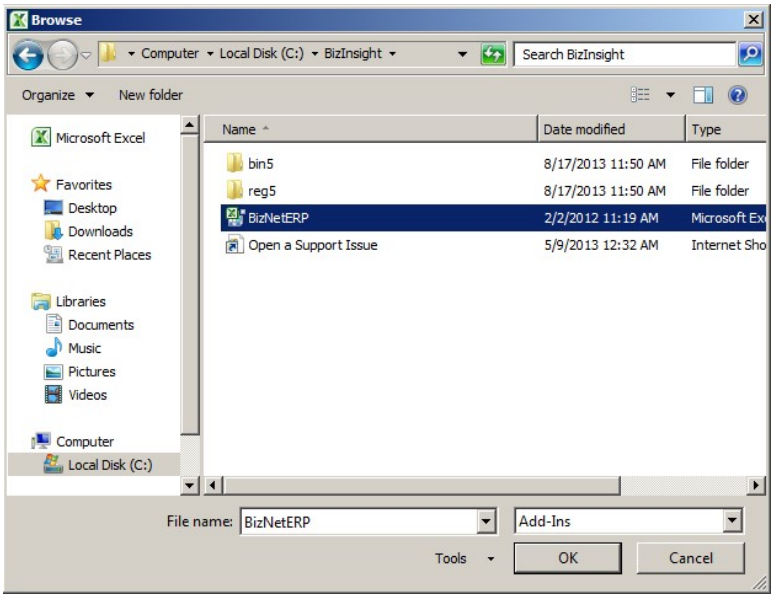
1. Click on **Tools** > **Add-Ins**



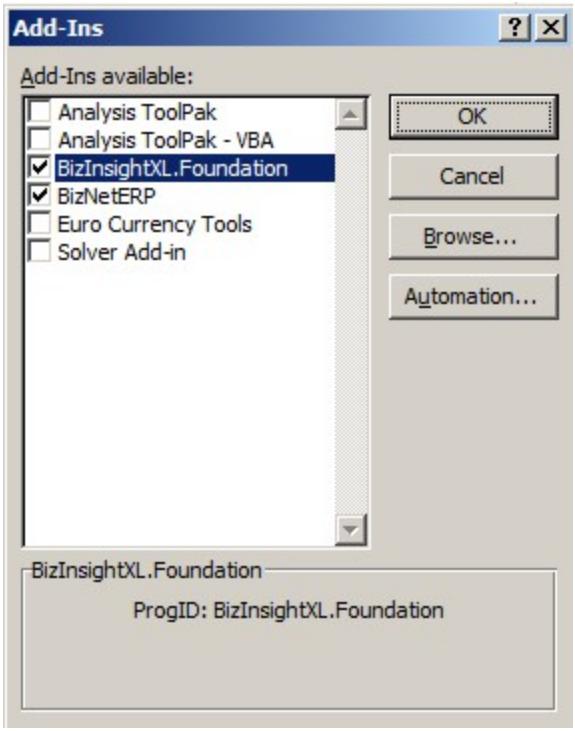
2. In the Add-ins dialog, click on the **Browse** button.




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**.

## Server Configuration Changes for XMLFast

XMLFast requires the server to be configured a certain way. If you are currently using XMLFast, you do not need to check these items. The following elements may already be configured on the server but they should be checked and confirmed to be configured as they are needed for XMLFast to function properly.

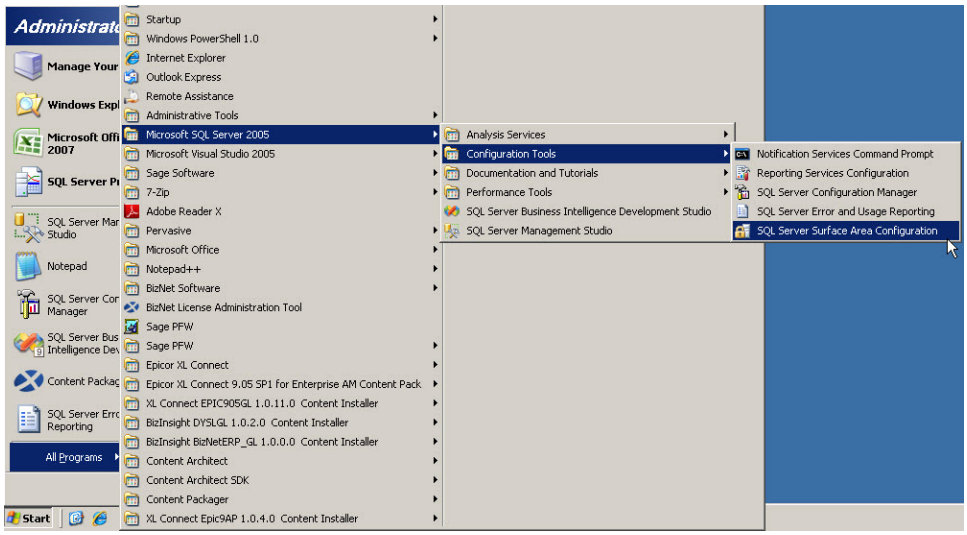
1. Check TCP/IP and SQL Browser, see "Enable TCP/IP" on the next page.
2. Add Windows Firewall Exceptions, see "Add Windows Firewall Exceptions" on page 123.
3. Verify SSRS Data Source Authentication, see "Verify Reporting Services Data Source" on page 139.

# Enable TCP/IP

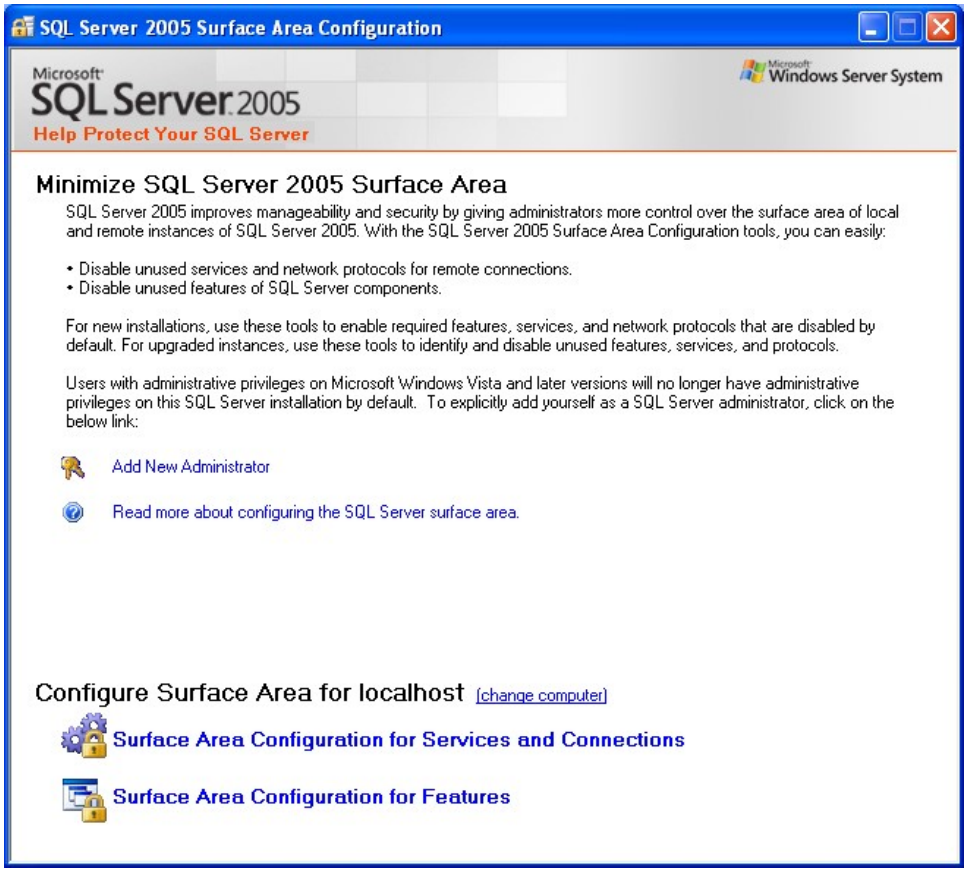
To enable TCP/IP, the steps vary depending on your SQL Server version. The steps for SQL Server 2005 are as follows. For SQL Server 2008 or higher, see "SQL Server 2008" on page 118.

## SQL Server 2005

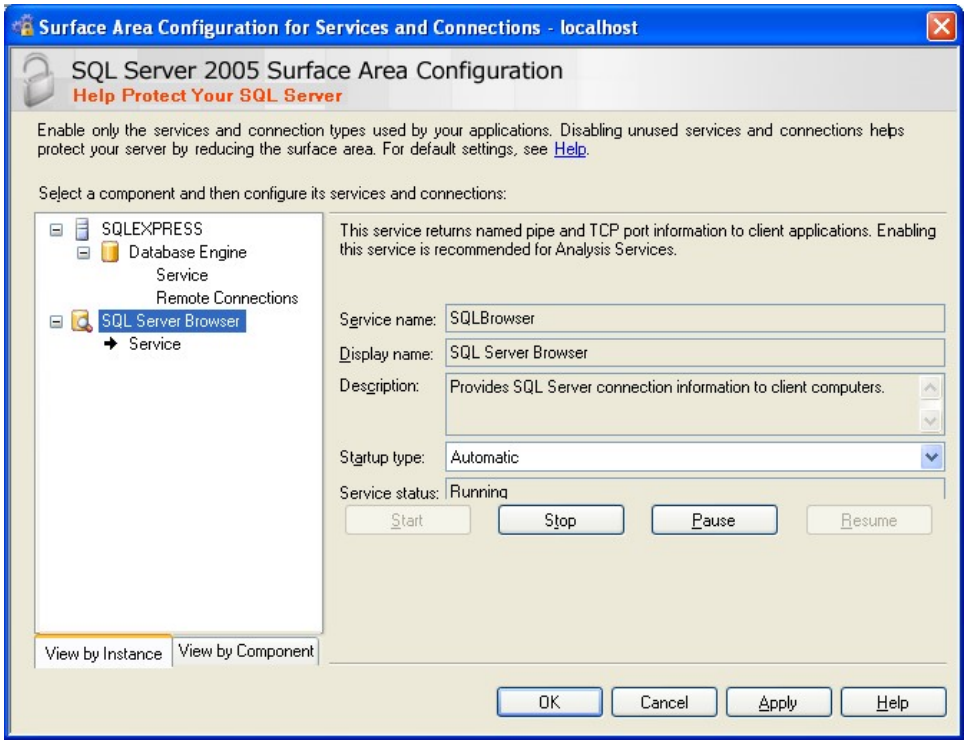
1. Click on **Start** > **All Programs** > **Microsoft SQL Server 2005** > **Configuration Tools** > **SQL Server Surface Area Configuration**.



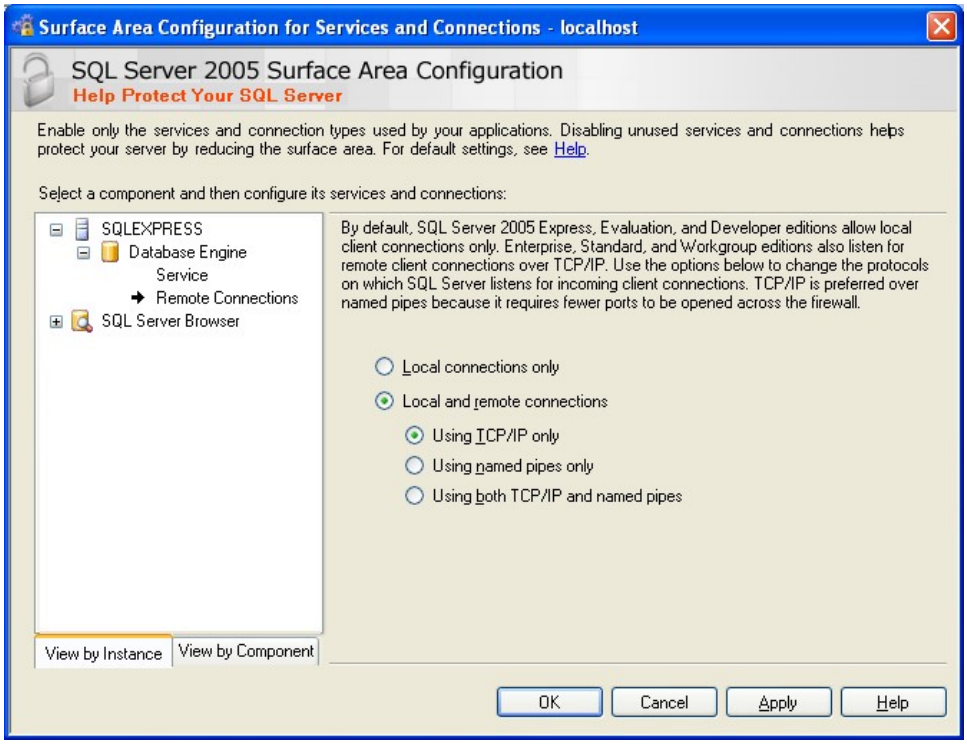
2. Click on **Surface Area Configuration for Services and Connections**.



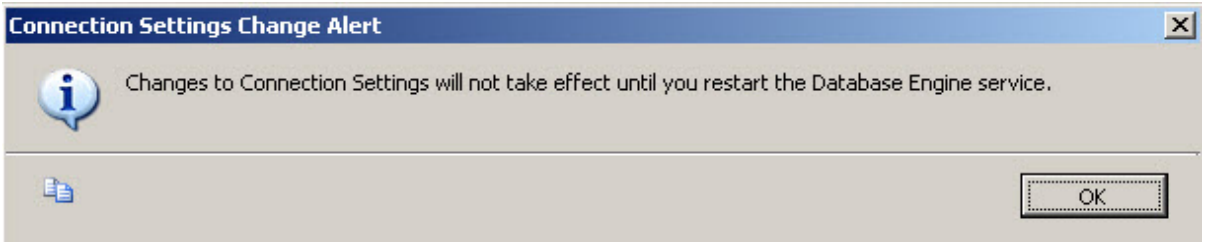
3. In the left pane, click on **SQL Server Browser**. When the right pane has refreshed with the options for the SQL Server Browser, make sure that **Startup Type** is set to "Automatic" and click on **Start** if the service is not started.



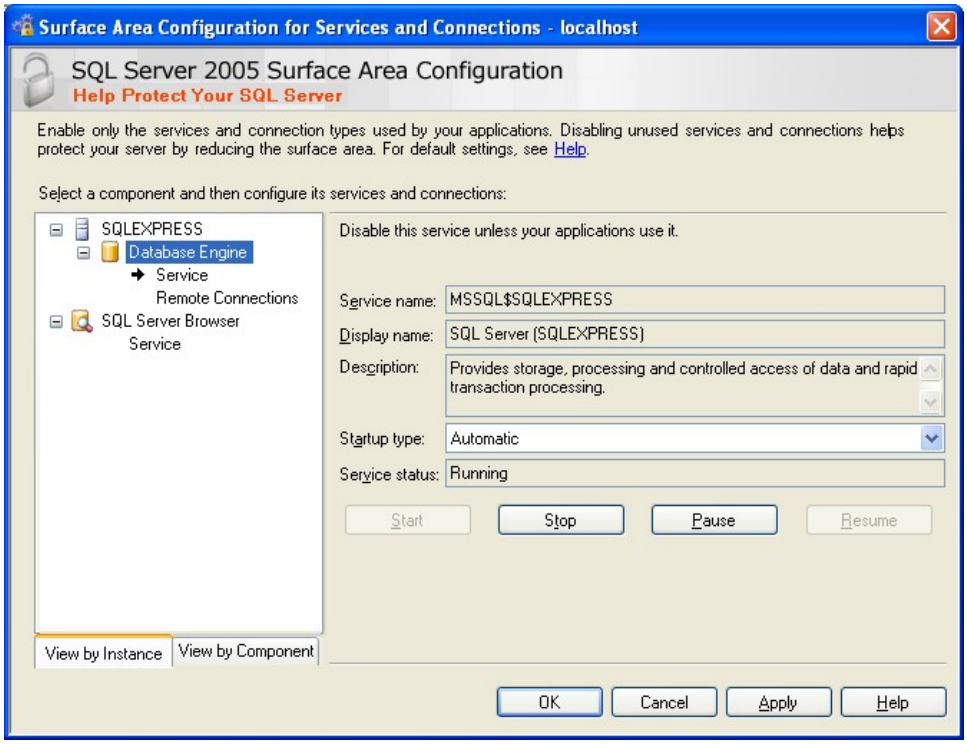
4. Under Database Engine, click on **Remote Connections**. Select the **Local and Remote Connections** radio button to enable remote users to access this SQL Server instance. Click **Apply**.




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**.

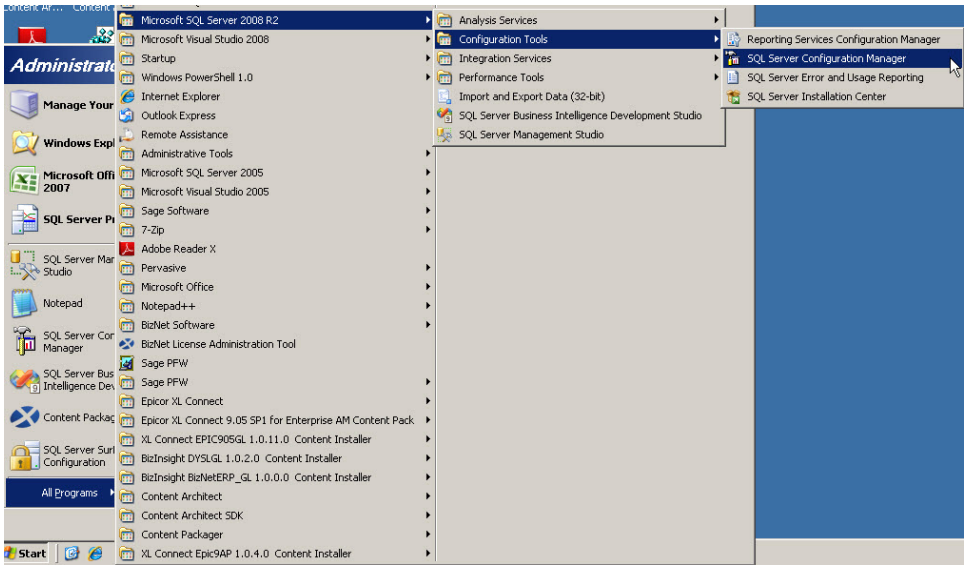



6. In the left pane, expand **Database Engine** and click on **Service**. In the right pane, click on **Stop** and then click on **Start** when that button becomes enabled. Once the service is restarted, click **OK** to exit the Surface Area Configuration tool.

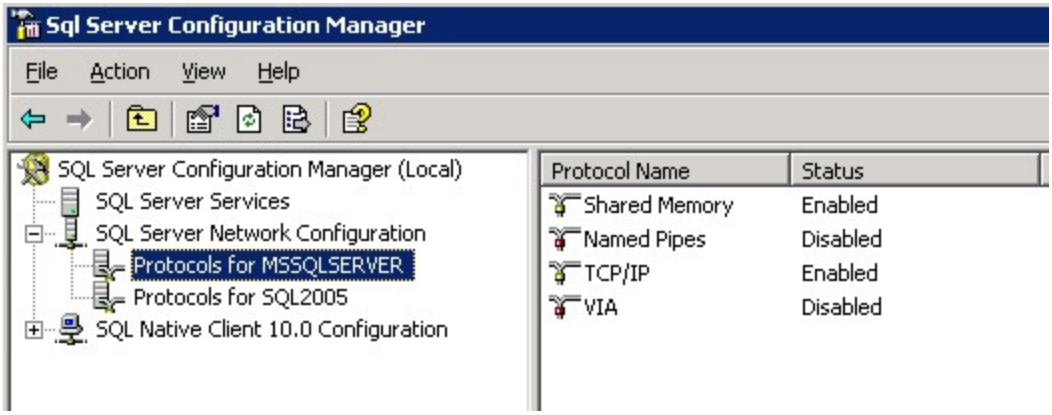

Surface Area Configuration for Services and Connections - localhost
SQL Server 2005 Surface Area Configuration
Help Protect Your SQL Server
Enable only the services and connection types used by your applications. Disabling unused services and connections helps protect your server by reducing the surface 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

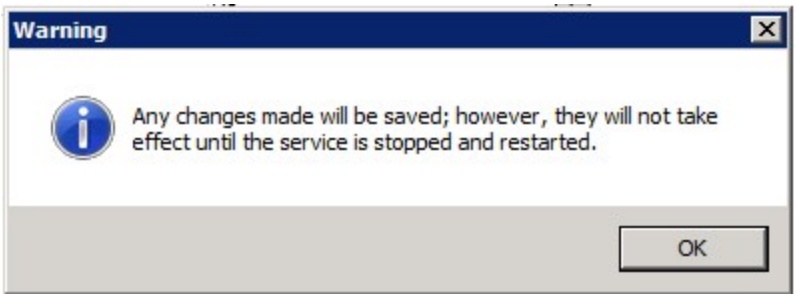
1. Click on **Start** > **All Programs** > **Microsoft SQL Server 2008 (2008 R2)** > **Configuration Tools > SQL Server Configuration Manager**.



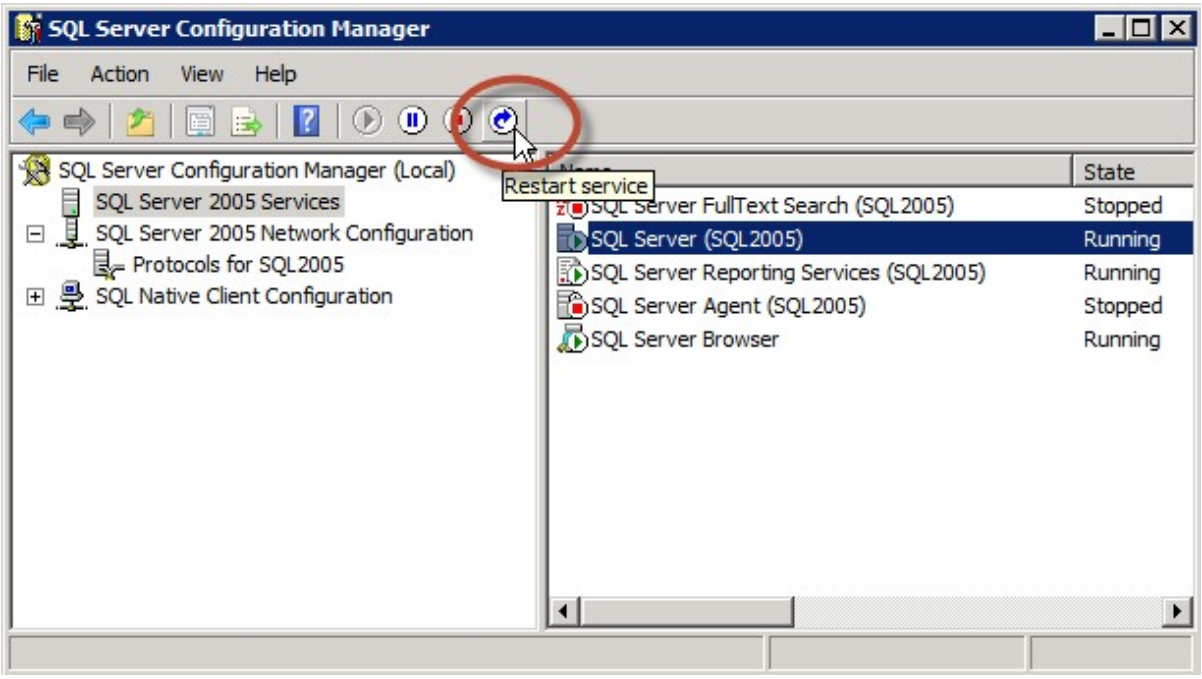

2. Expand **SQL Server Network Configuration** and select the **Protocols for *InstanceName*** that corresponds to the SQL Server instance that hosts the accounting system database.



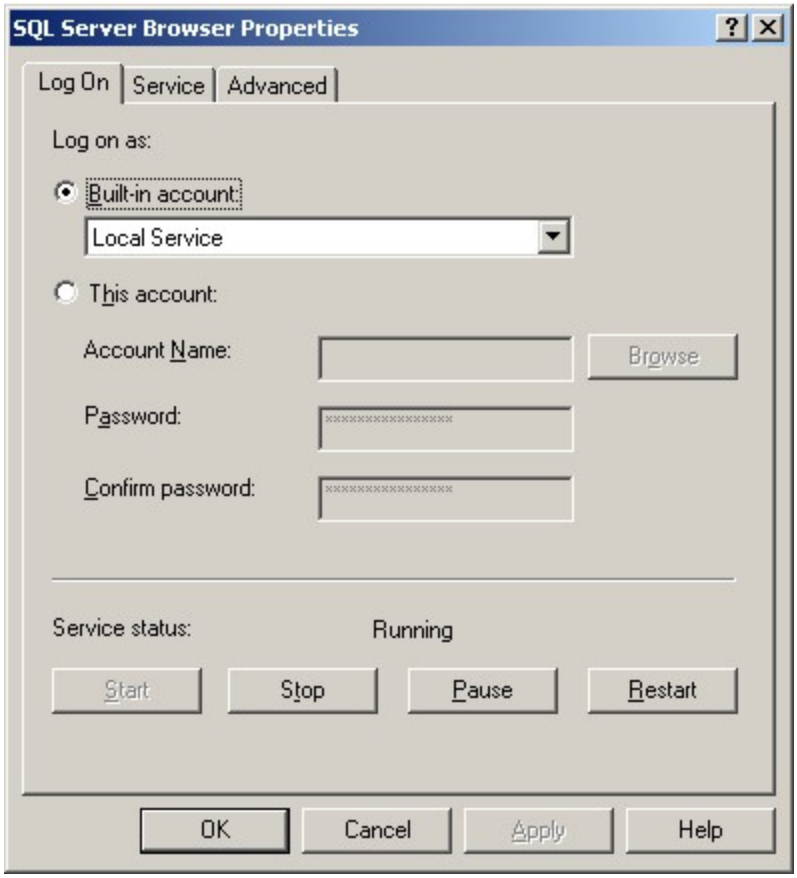

3. Verify that the **TCP/IP** Protocol is "Enabled". If it is not enabled, double-click on the protocol and change its properties to enabled. You will receive a warning that the service will need to be stopped and restarted:



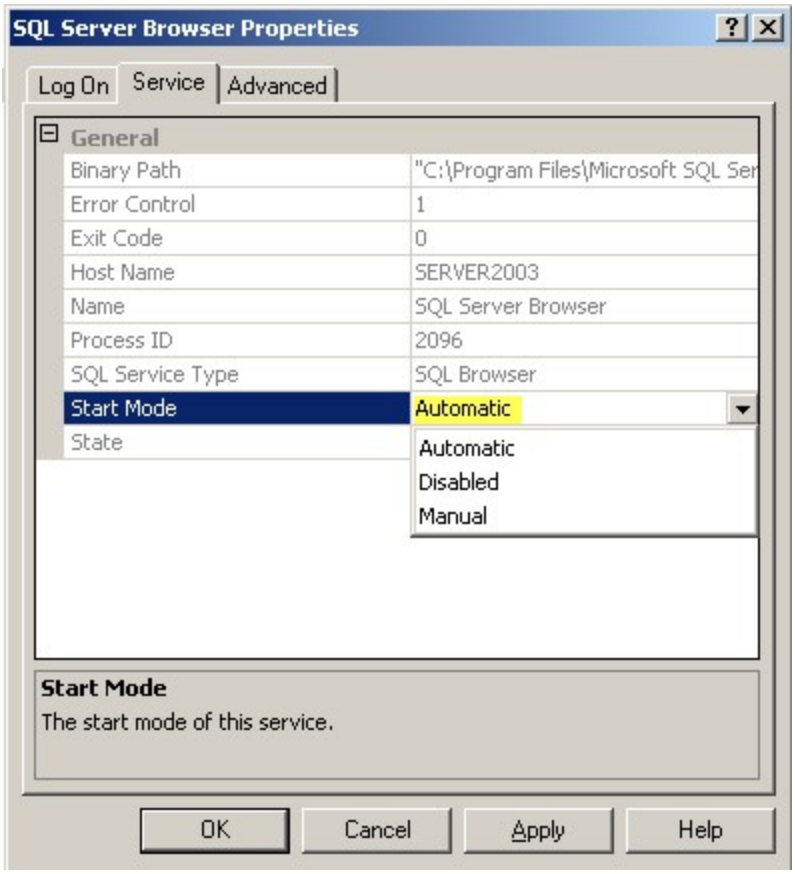

4. Go to the **SQL Server Services** section. Select the SQL Server service and click on the restart the service button.



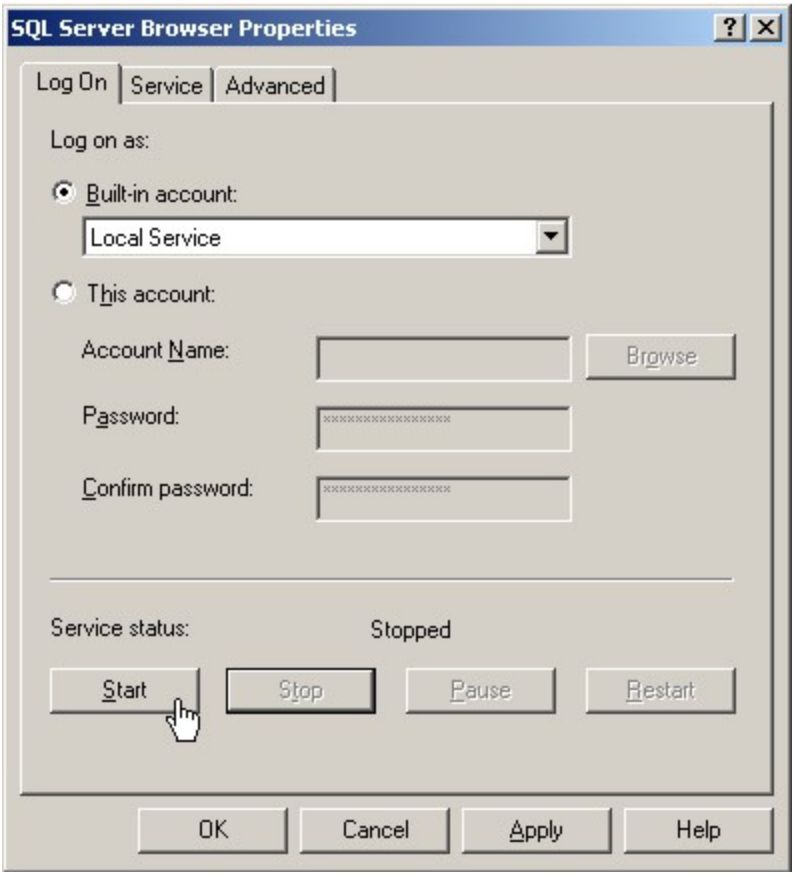
5. In the SQL Server Services section, verify that the SQL Server Browser service is started. If it is not, double-click on the service to open the service properties.



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

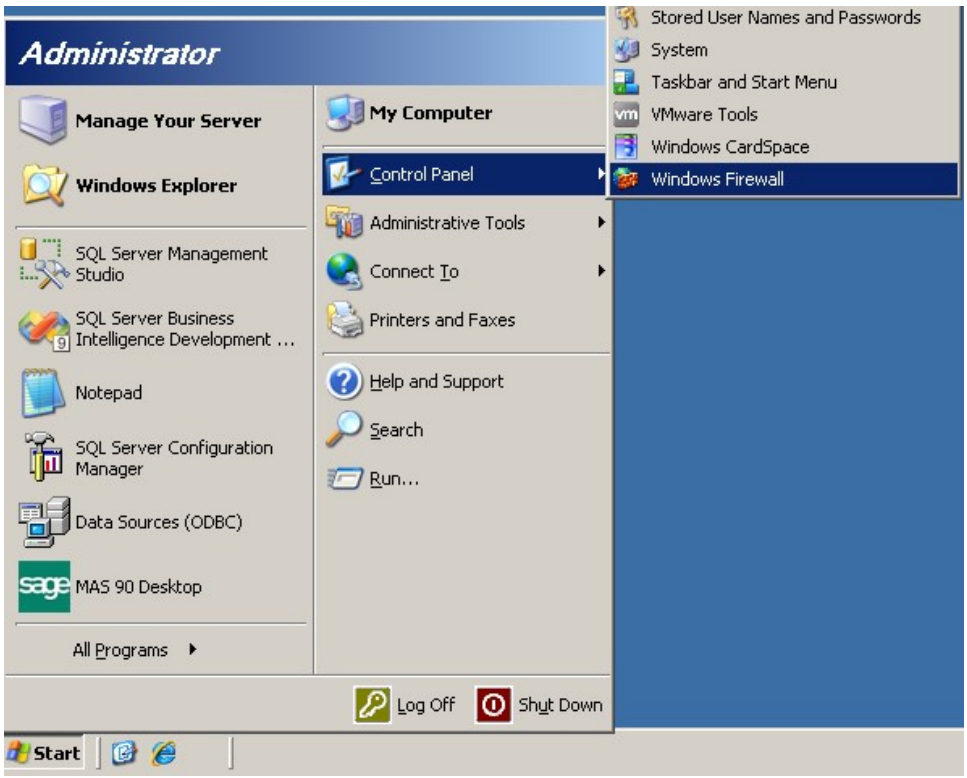


# Add Windows Firewall Exceptions

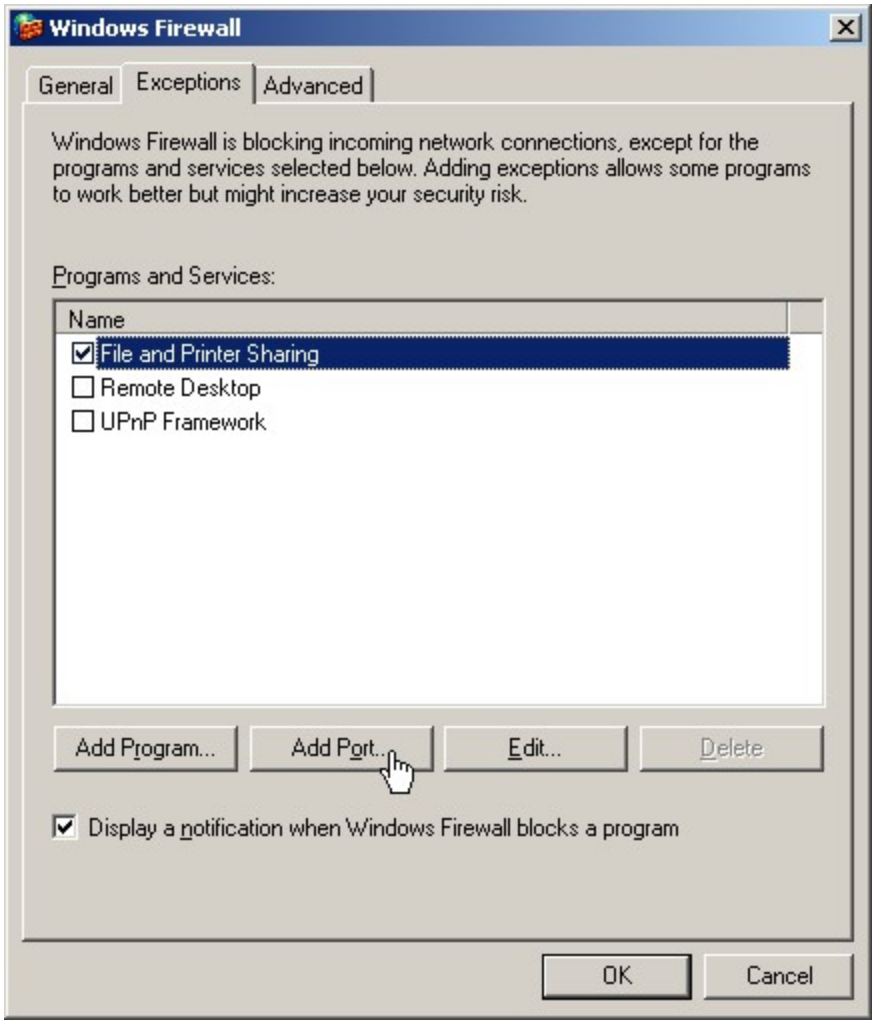
This step may not need to be performed if the Windows Firewall is turned off on the server.

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

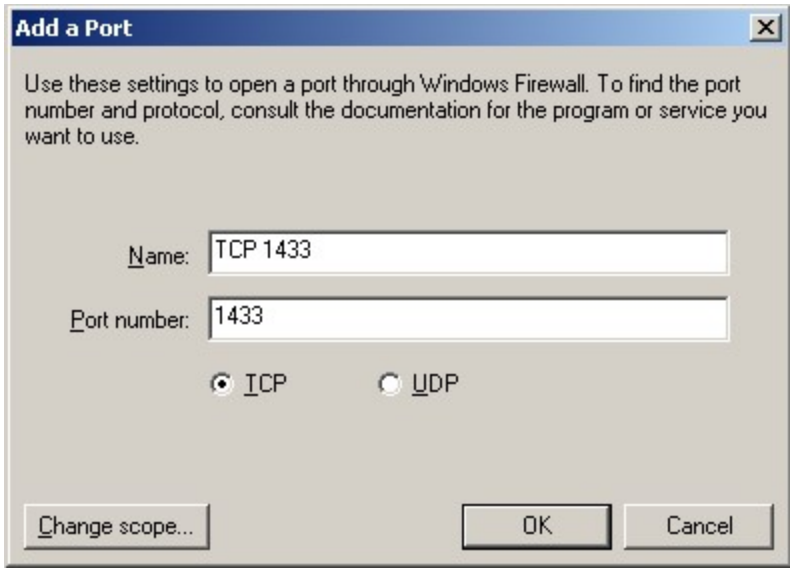
1. Click on **Start** > **Control Panel** > **Windows Firewall**



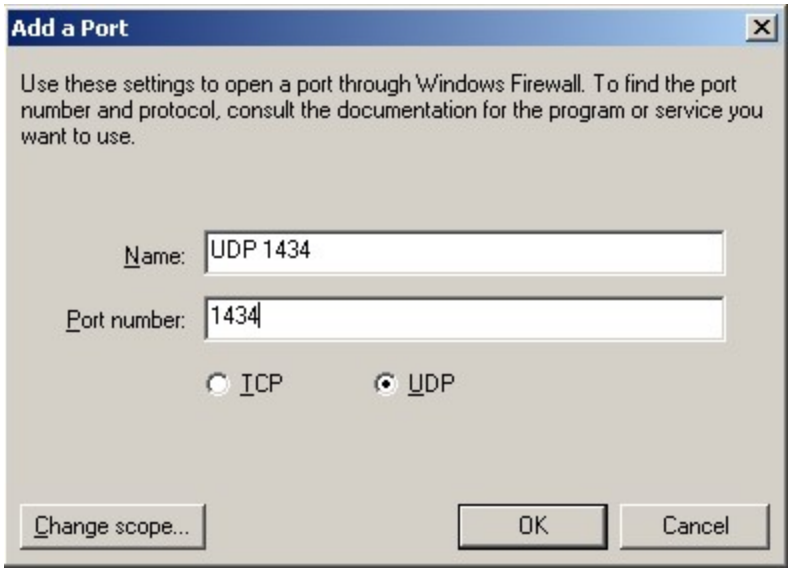
2. On the **Exceptions** tab, click the **Add Port** button.



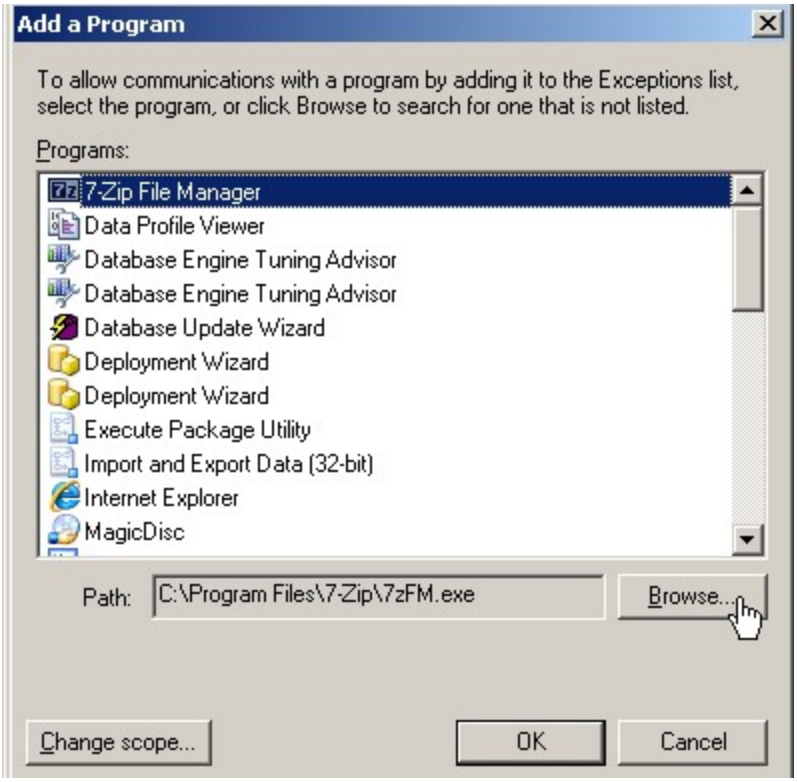
3. In the **Add a Port** dialog, enter a name for the exception entry and type "1433" for the port number. Click **OK**.



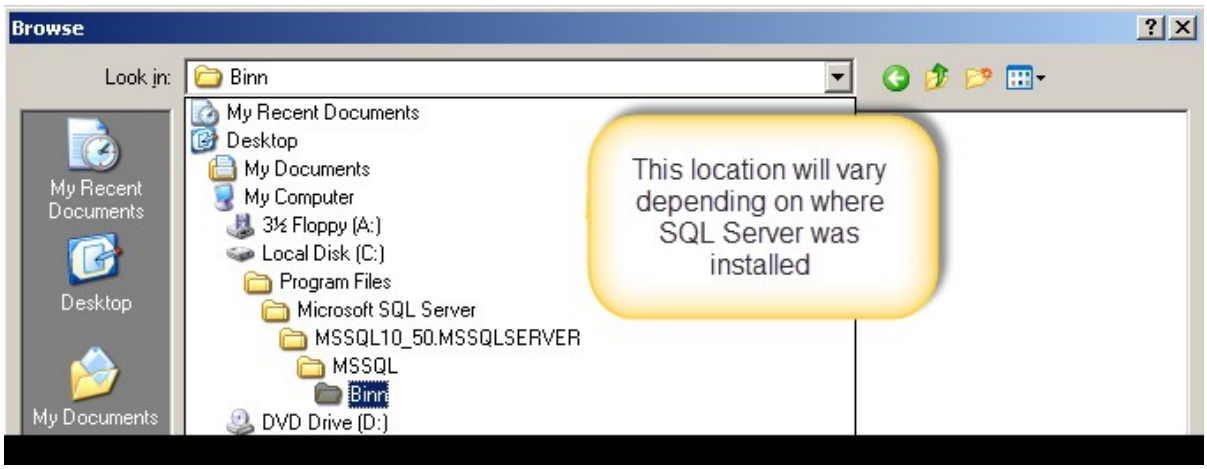

4. Add a second port exception for UDP 1434.

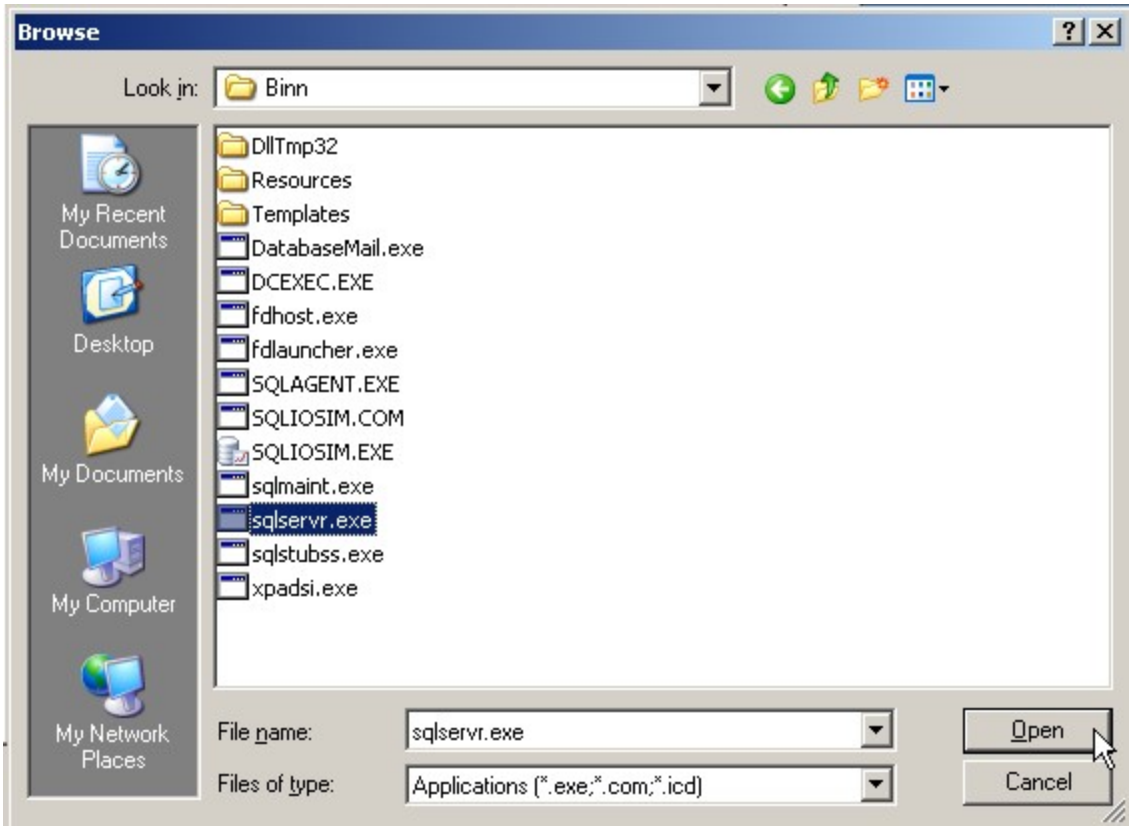


5. Click the **Add Program** button then click the Browse button




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

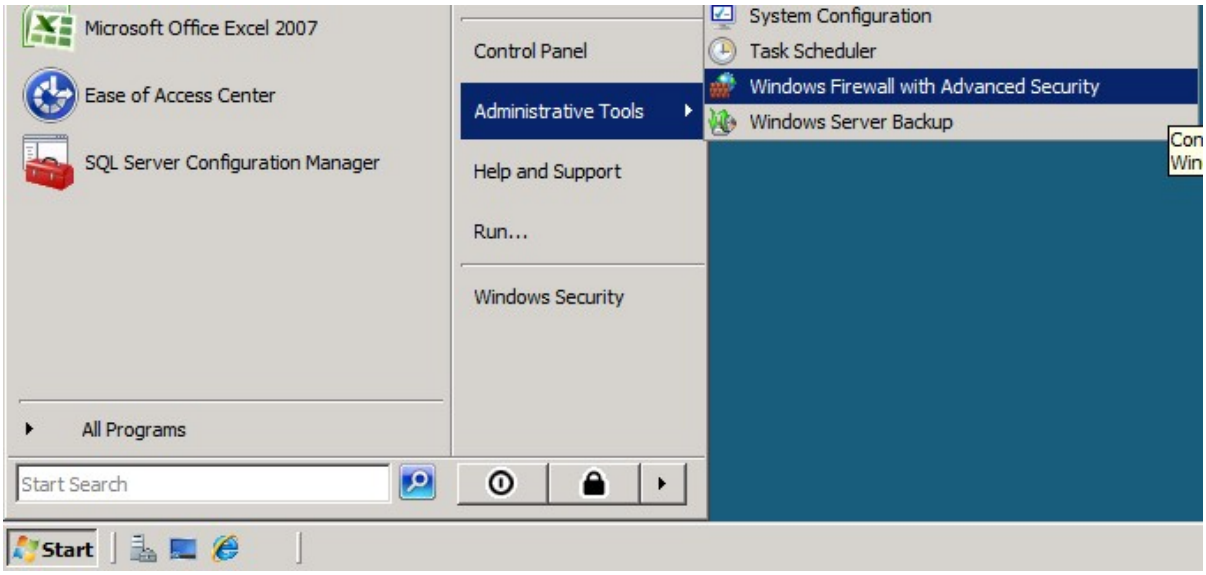





7. Close the Firewall dialog after making these additions.

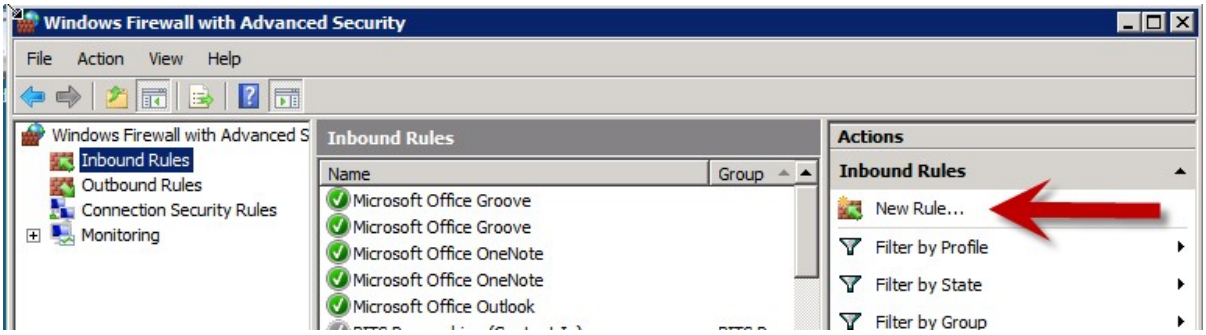
## Server 2008

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

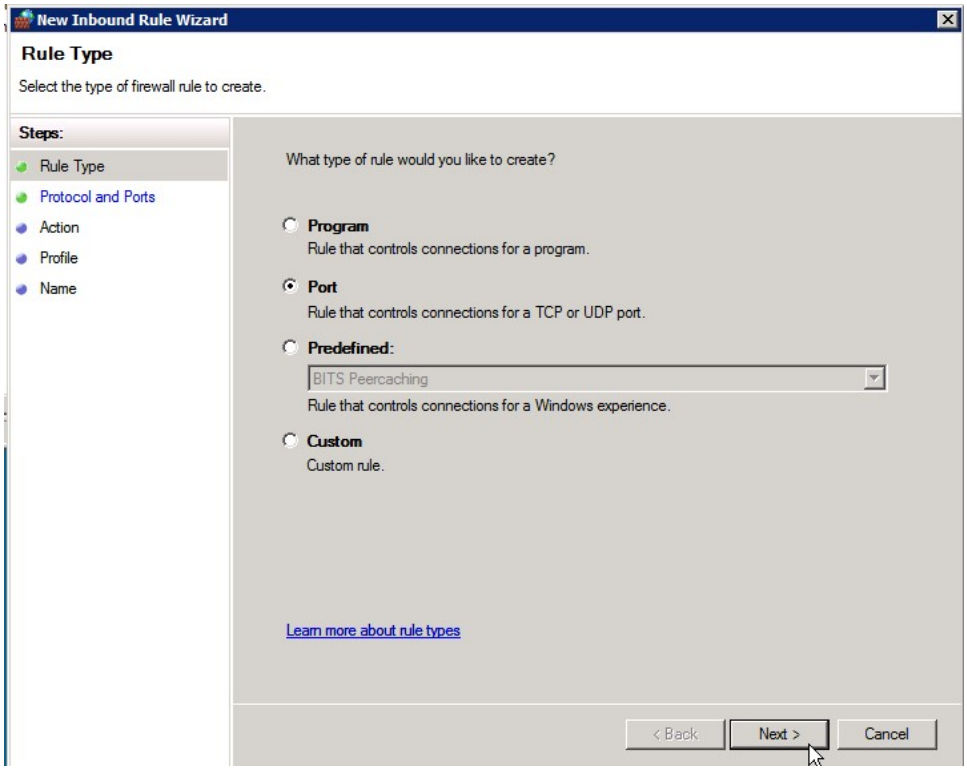



2. Click on **Inbound Rules**.

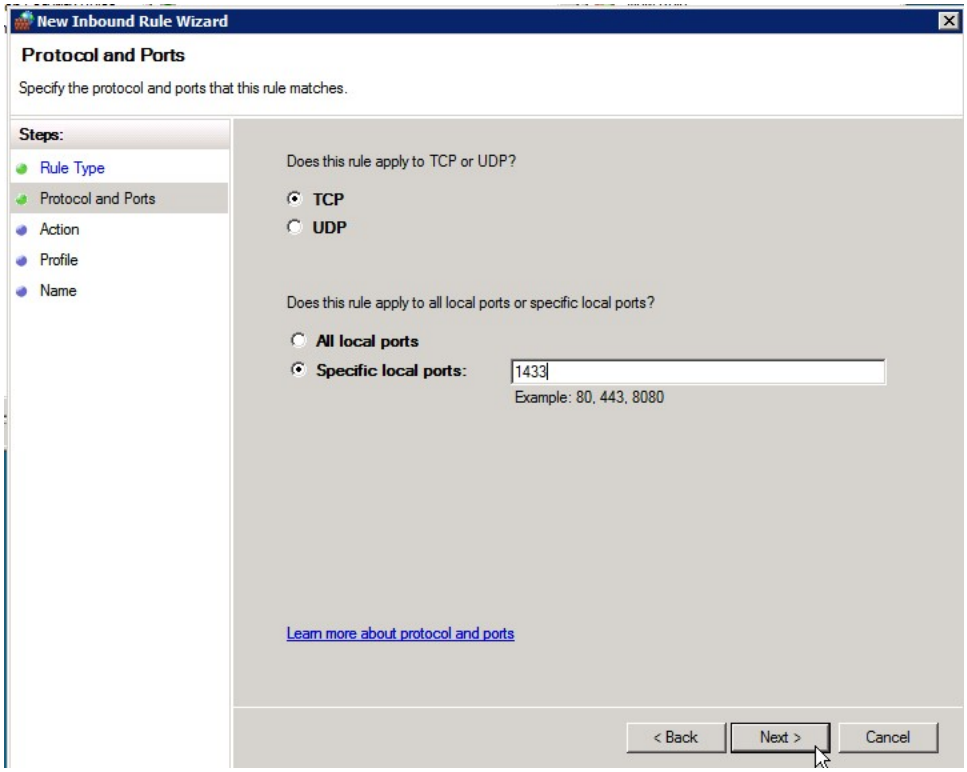
3. Click on **New Rule**.



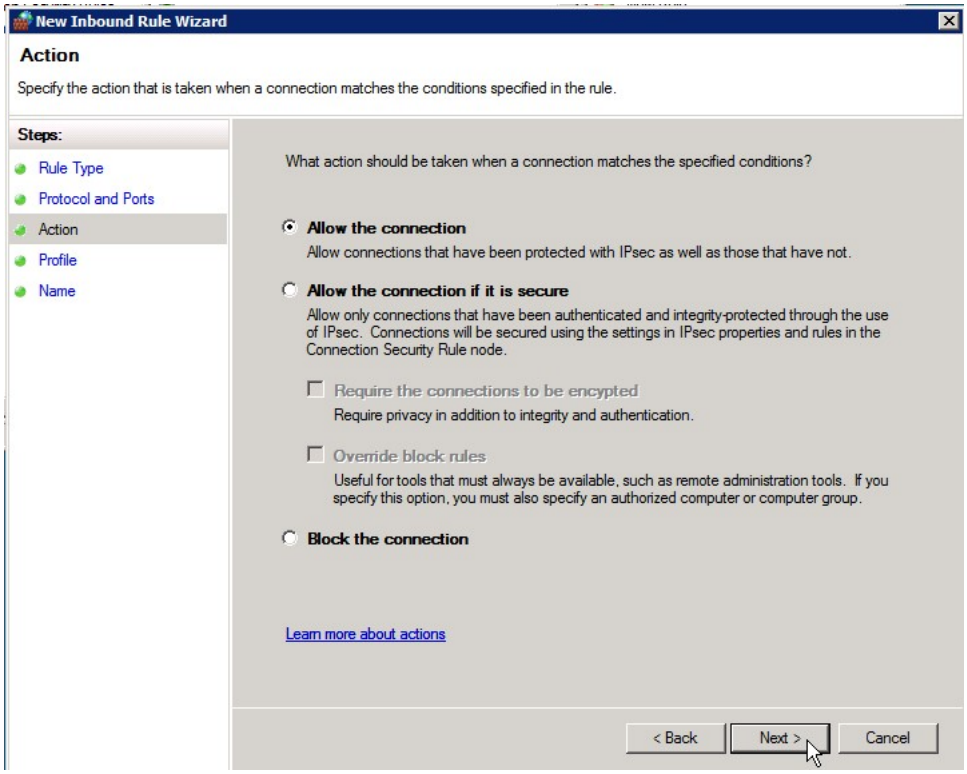
4. Choose the **Port** radio button and click **Next**.



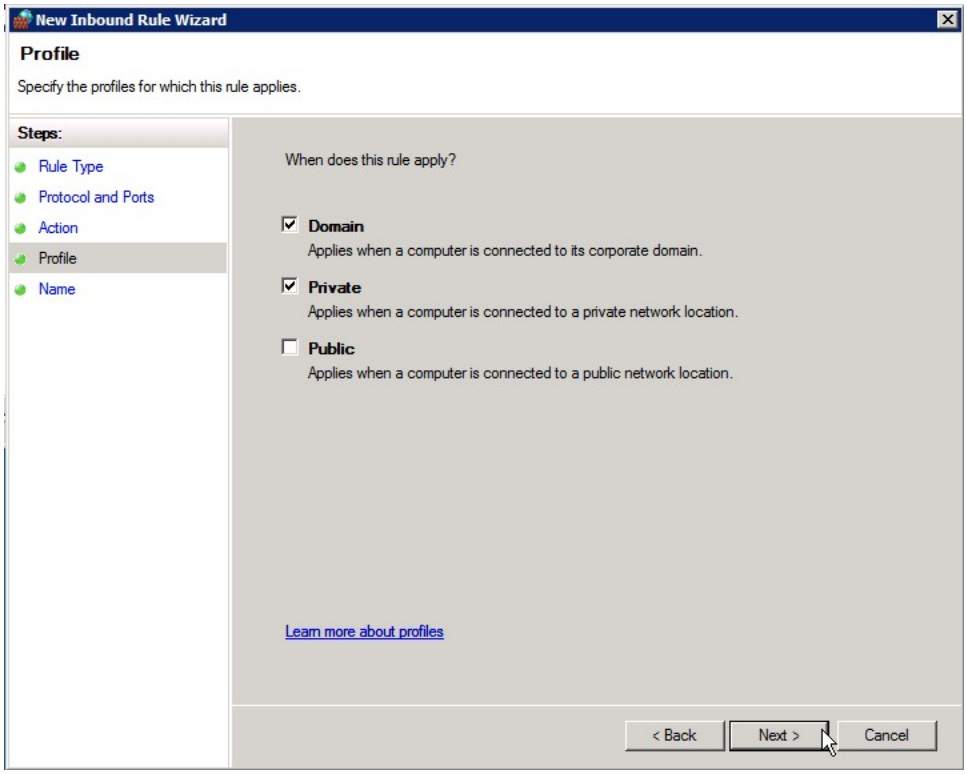
5. Leave the **TCP** option selected and type in port 1433. Click **Next**.



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

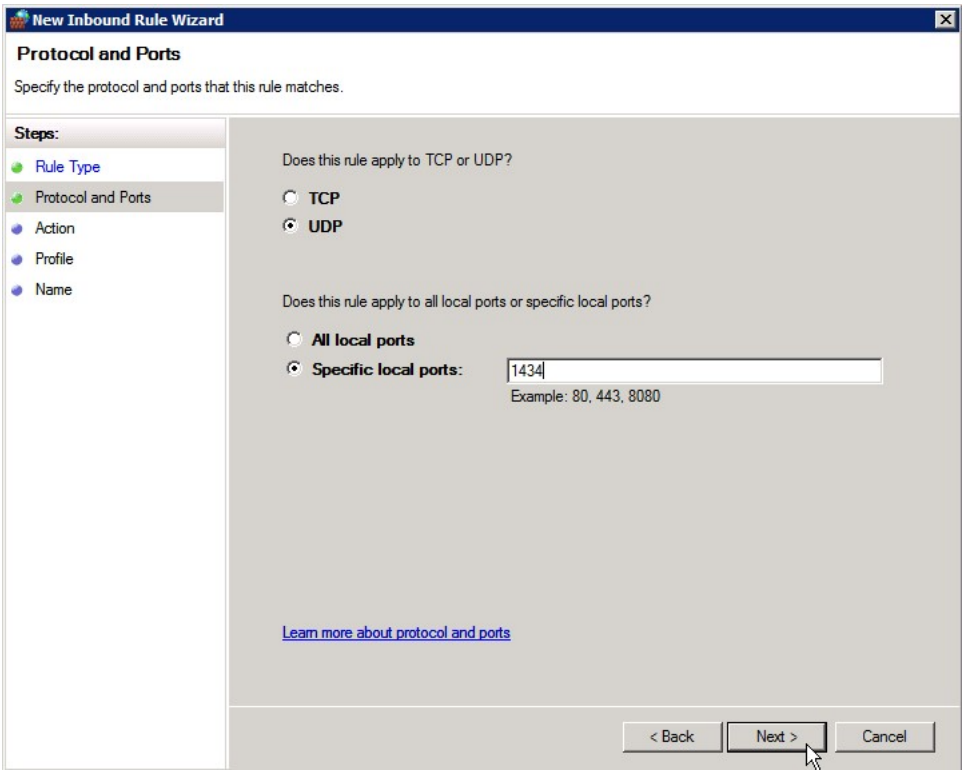


7. Uncheck the **Public** checkbox (unless users are connecting using a public network location) and click **Next**.

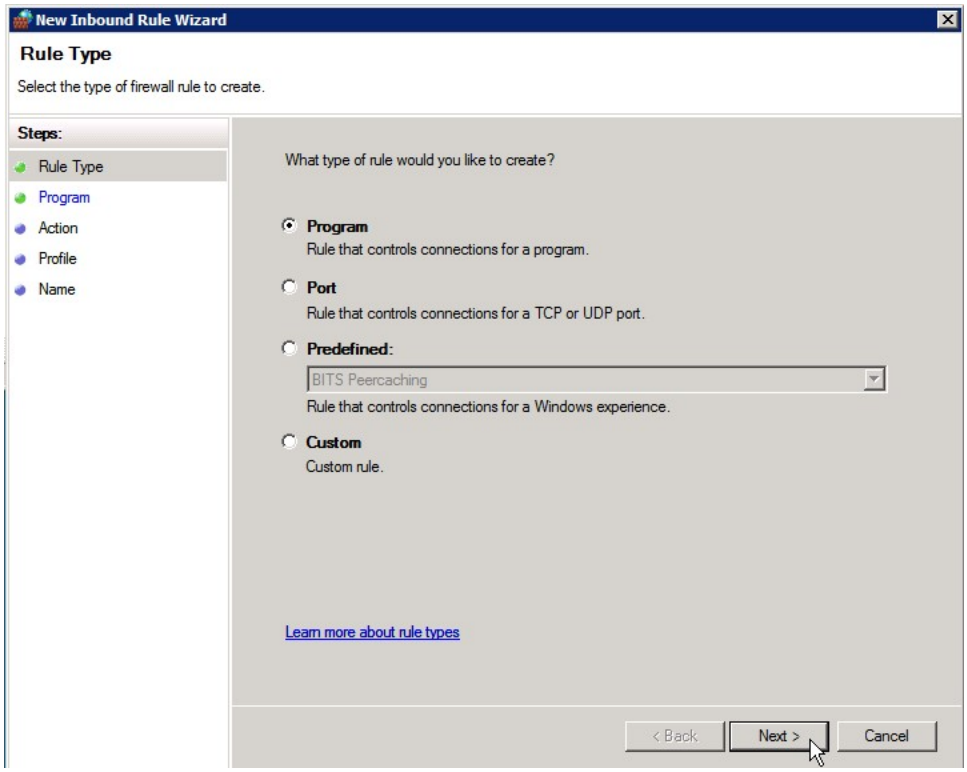



8. Type a name and description for the exception and click **Finish**.

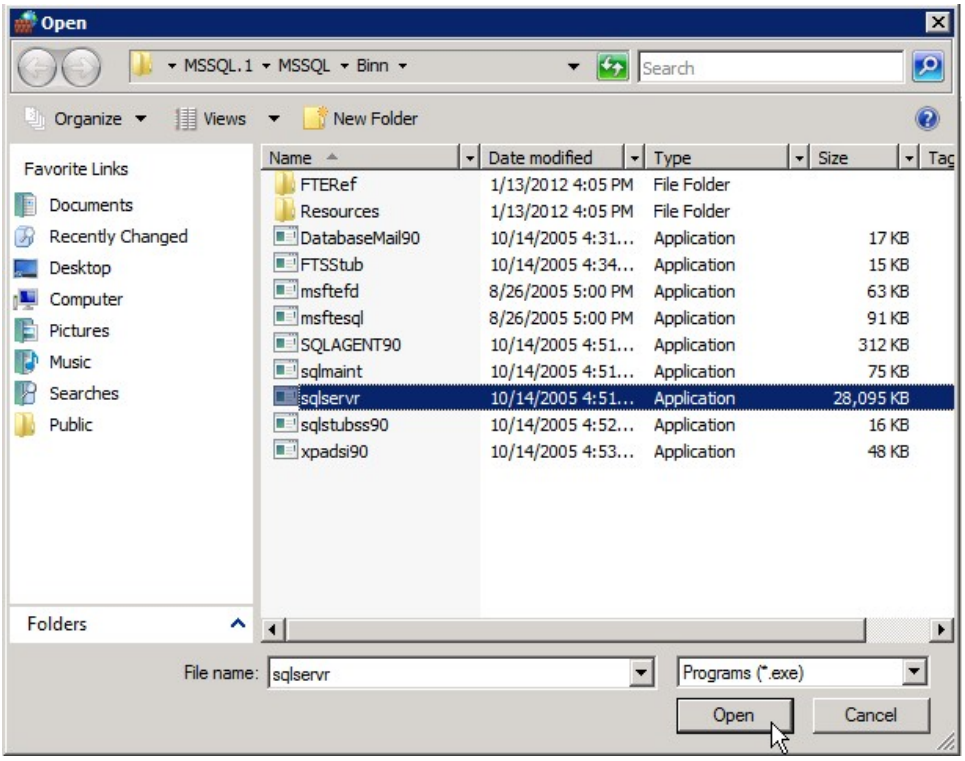
9. Repeat these steps to add a UDP port exception for port 1434.

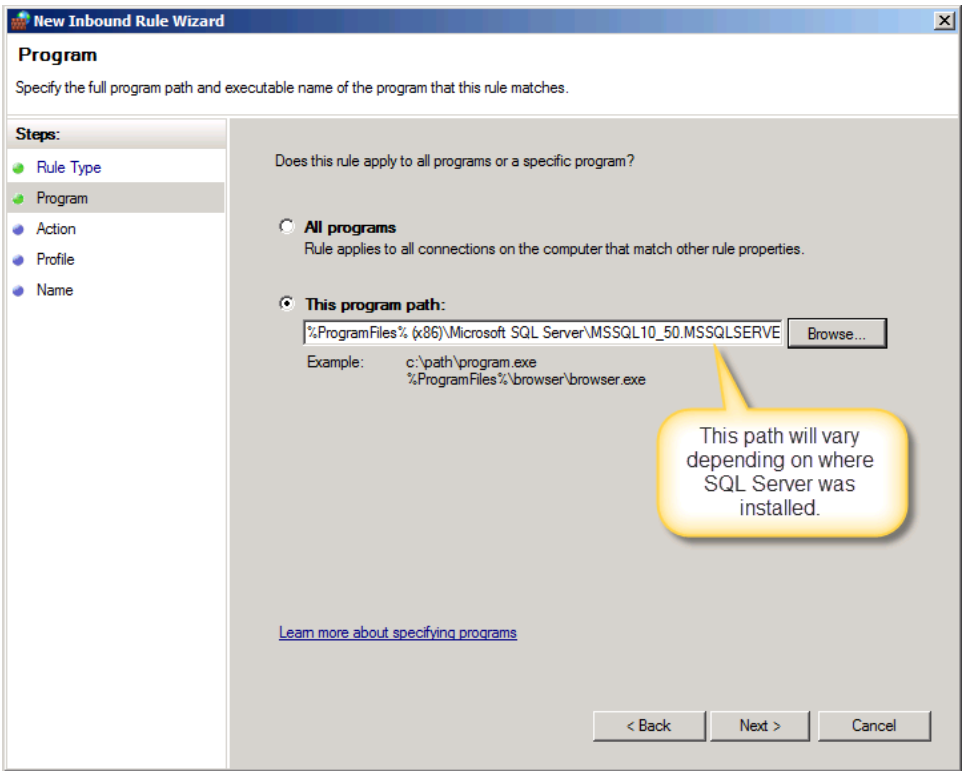


10. Add a third new inbound rule for a program exception.

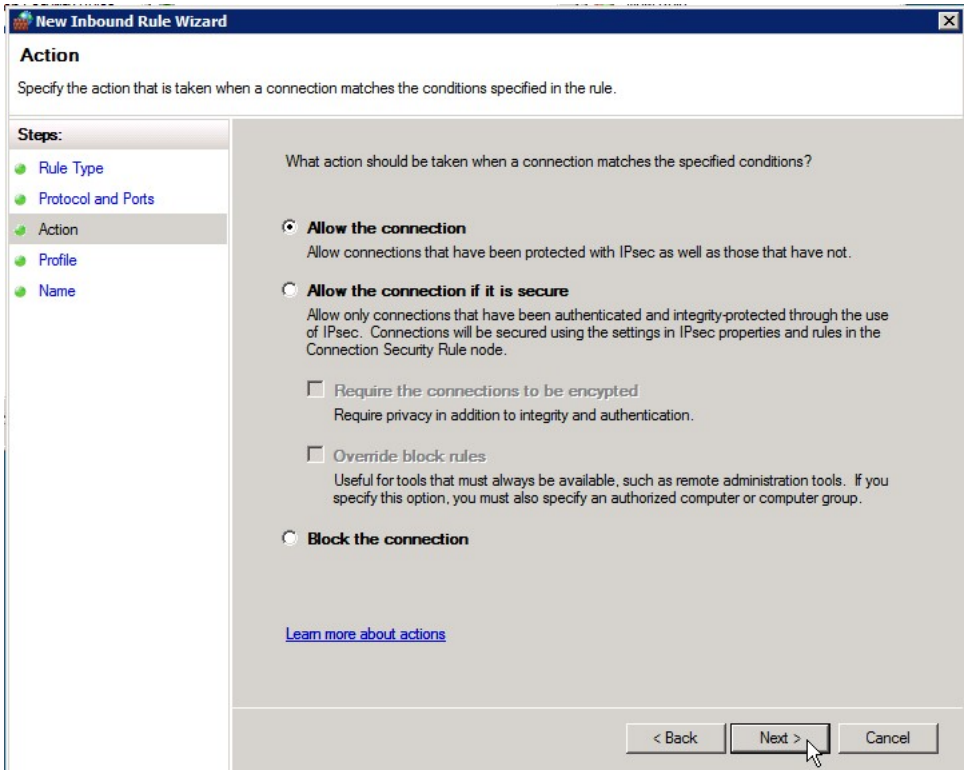


11. Click on the **Browse** button and browse to the SQL Server installation's Binn directory and select **sqlservr.exe**. Then click **Next**.

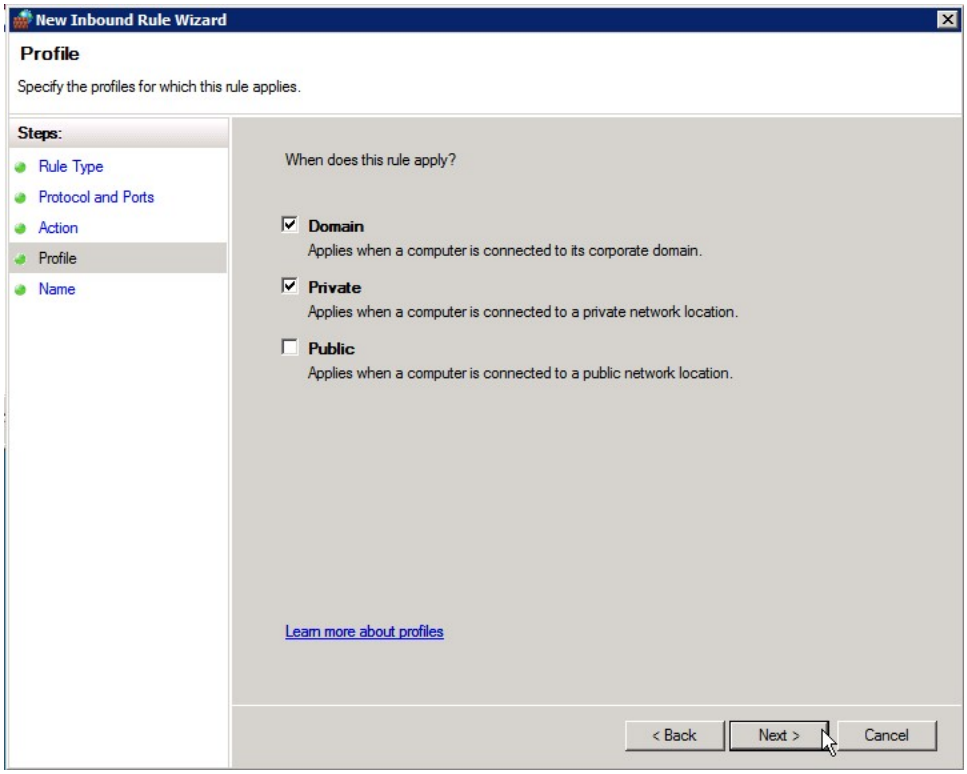



New Inbound Rule Wizard
Program
Specify the full program path and executable name of the program that this rule matches.
Steps:
Rule Type
Program
Action
Profile
Name
Does this rule apply to all programs or a specific program?
All programs
Rule applies to all connections on the computer that match other 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**.

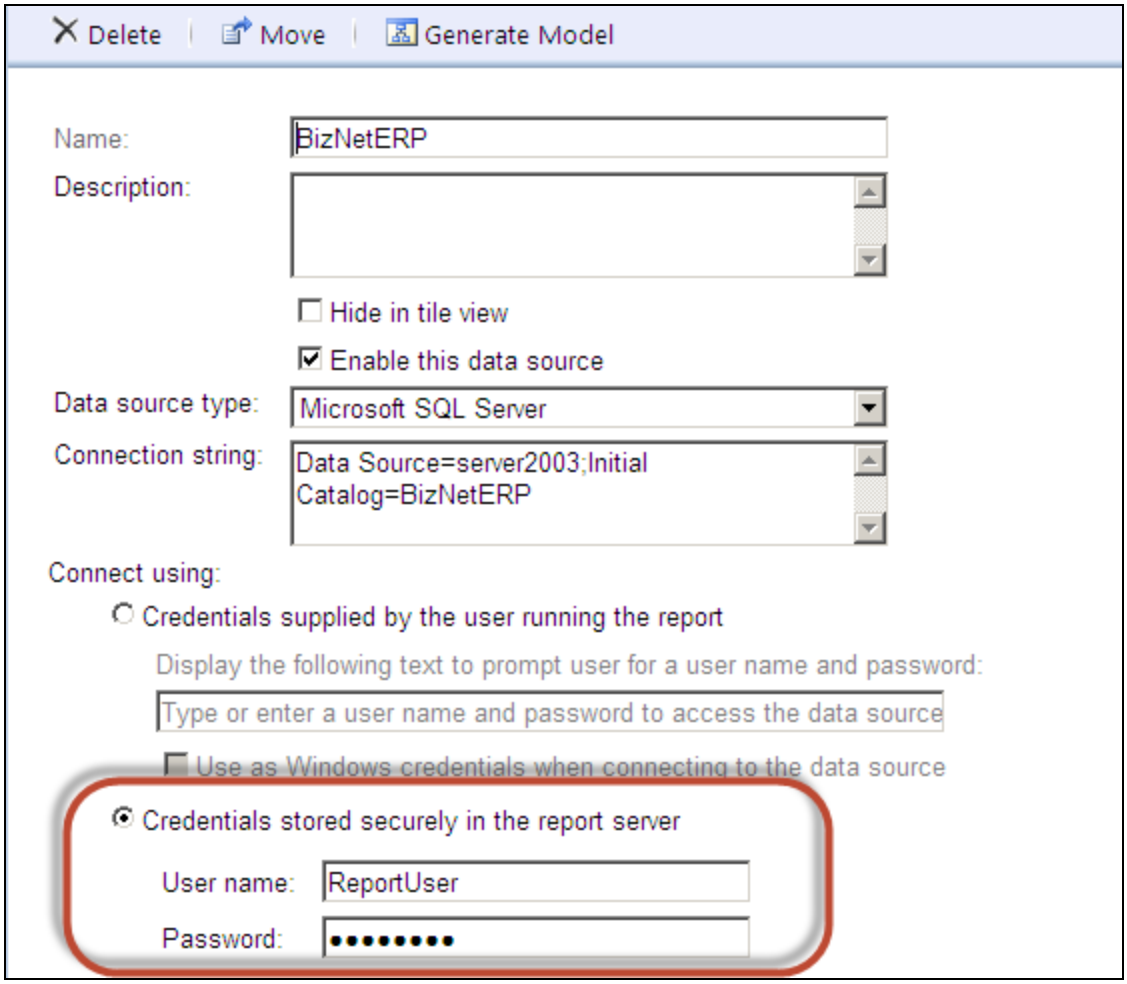



14. Type a name and description for the exception and click **Finish**.

## Verify Reporting Services Data Source

The XMLFast feature cannot use data sources that are configured to use stored credentials.

1. Browse to the Reporting Services Report Manager URL. This URL will be very similar to the Web Service URL but will use “Reports” instead of “ReportServer”. For example, if your Report Server Web Service URL is http://BizNetSvr/ReportServer, your Report Manager URL will be http://BizNetSvr/Reports.
2. Click on the **Data Sources** folder.
3. Click on the content pack data source.
4. Check to see if the Credentials stored security in the report server option is enabled as shown below.



If this option is not enabled, you can stop here.

5. Any data sources configured with stored credentials must either be changed to use Windows Integrated Security or to prompt for SQL credentials.

***Windows Integrated Security***

1. To configure for Windows Integrated Security, check the **Windows Integrated Security** radio button. Click the **Apply** button to save the changes.
2. Go to SQL Management Studio. Expand the Security section and confirm that each BizInsight user's Windows login id has been added in SQL security and that user has db_datareader rights to the accounting system database.

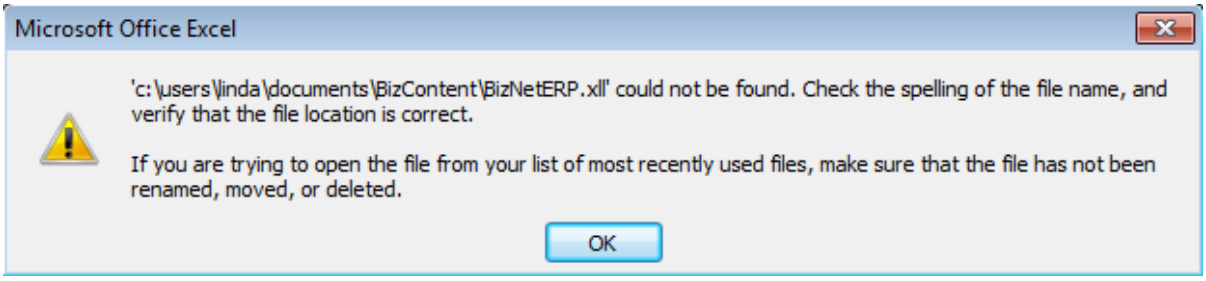
***Prompt for SQL Credentials***

1. To configure the data source to prompt the user for credentials, select the **Credentials supplied by the user running the report** radio button.
2. Click **Apply** to save the change.
3. Go to each workstation where BizInsight is installed, click on the Application Settings button on the BizInsight ribbon and check the **Persist SQL Credentials** checkbox. Making this change will ensure that the credentials provided by the user when prompted are stored in memory for the Excel session and they will not be prompted each time a data retrieval call is made

**IMPORTANT** If your company has content packs for multiple accounting systems implemented (ex. Sage 500 and CCH), you must check all content data sources to confirm none are configured with stored credentials.

## Resolving ".xll could not be found" errors

In some rare instances, the name of the content add-in file provided with an update may change. When an add-in file name is changed, Scan for Content will properly remove that add-in file but will not delete the pointer to it that resides within Excel and the following error will occur:



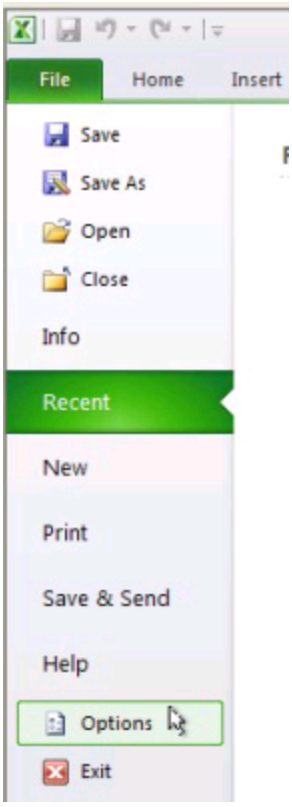

Perform the following steps to resolve the issue:

The remaining steps vary based on the Office version installed:

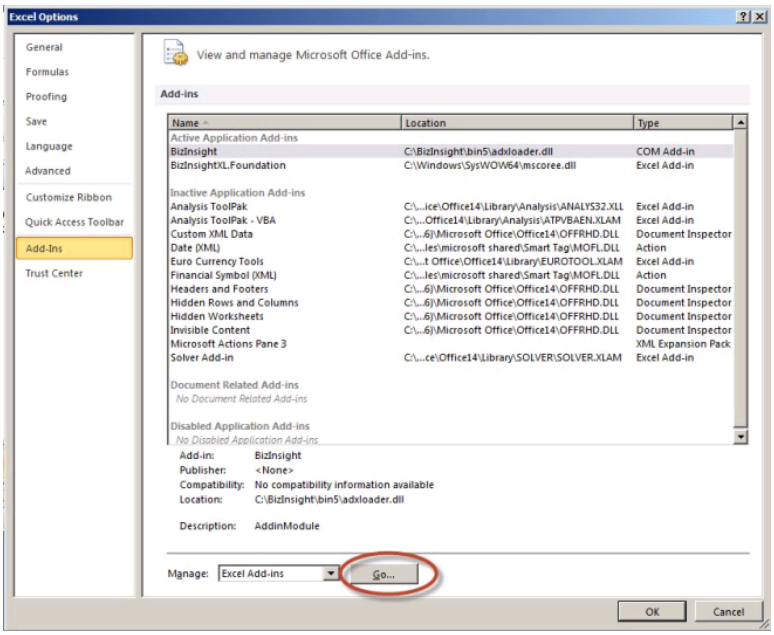
Office 2010/2013 steps
Excel 2007 steps
Excel 2003 steps

### Excel 2010/2013

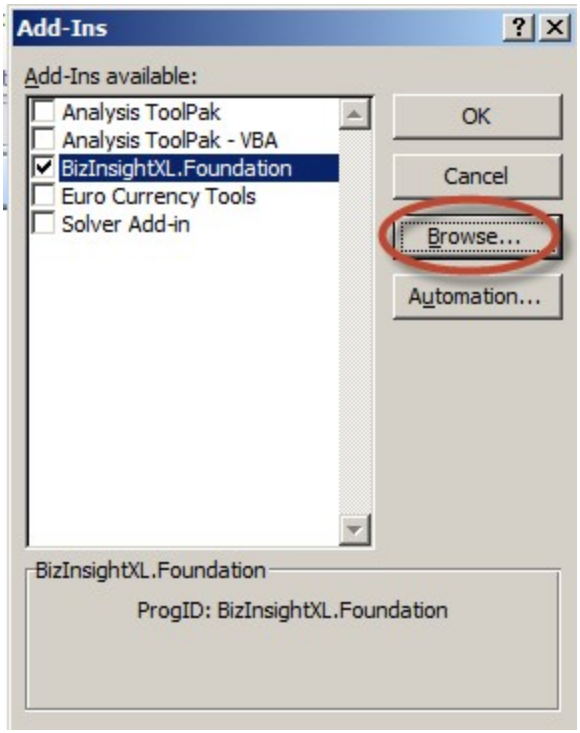
1. Click on **File** > **Options.**



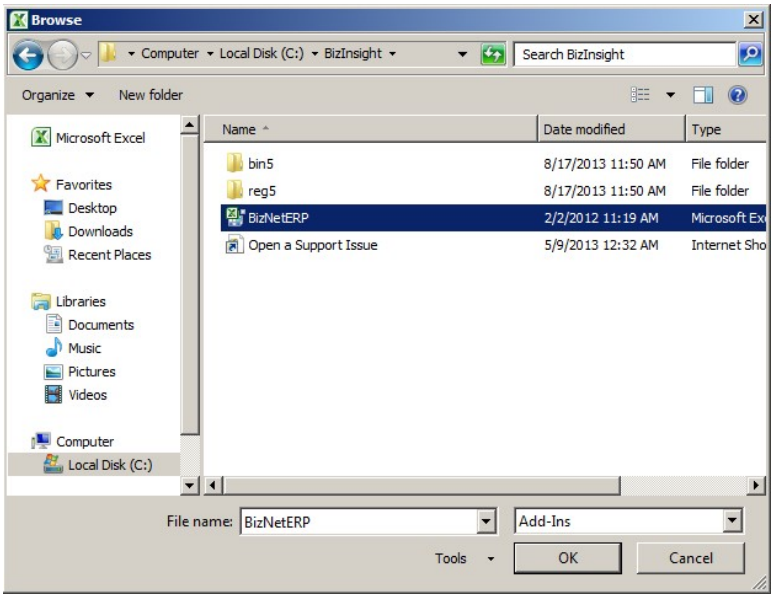

7. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



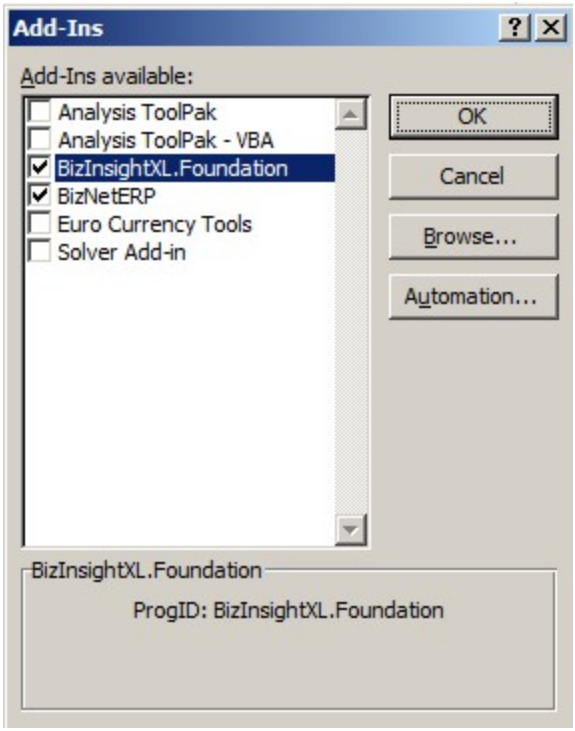
2. In the Add-ins dialog, click on the **Browse** button.




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



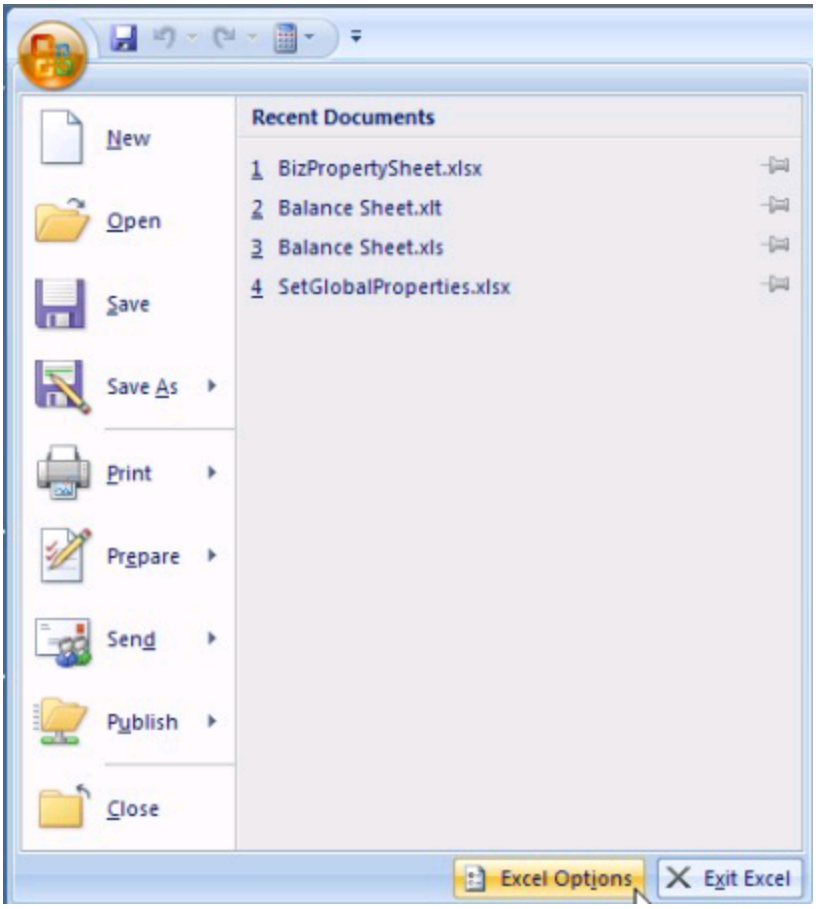

The Add-ins dialog should now look like the following:


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

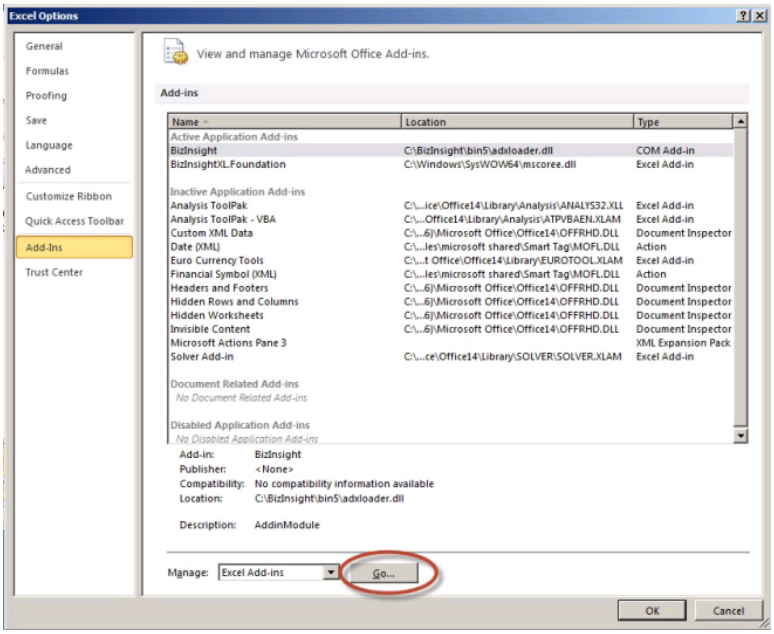
4. Click **OK**.

## Excel 2007

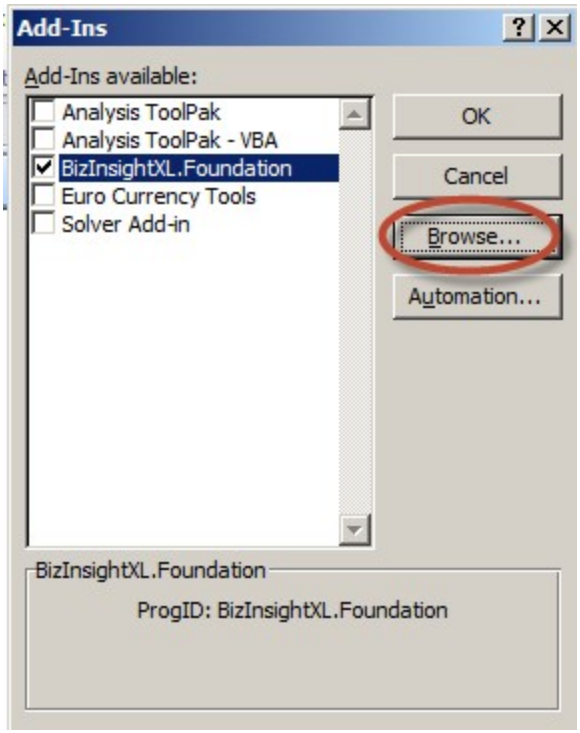
1. Click on the **Office** button and then click on the **Excel Options** button.



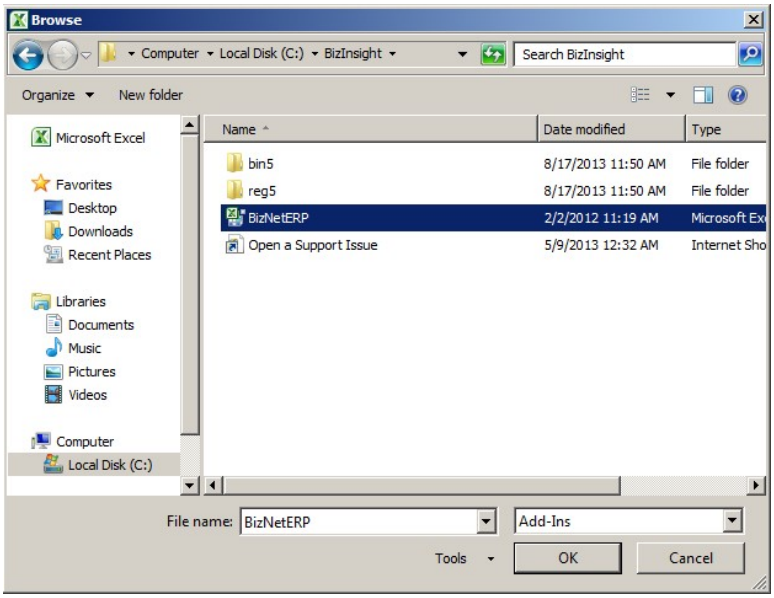
2. Click on **Add-ins** in the left pane and then click on **Go** at the bottom on the right pane.



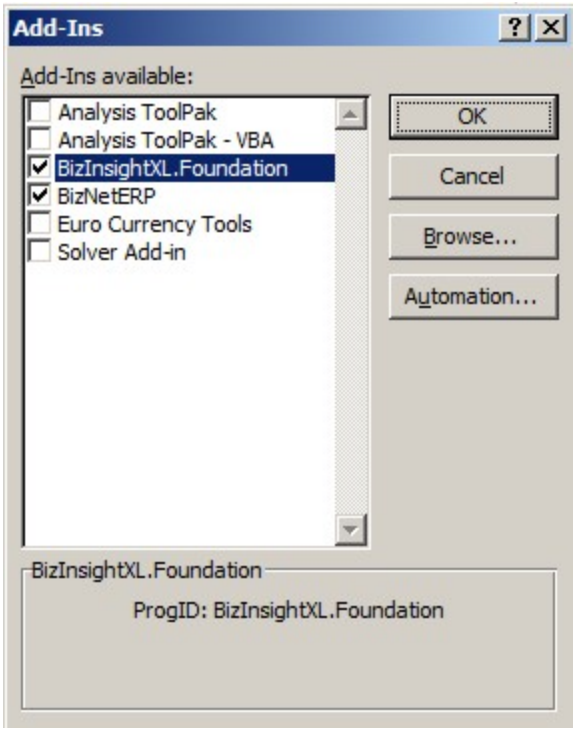
3. In the Add-ins dialog, click on the **Browse** button.




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



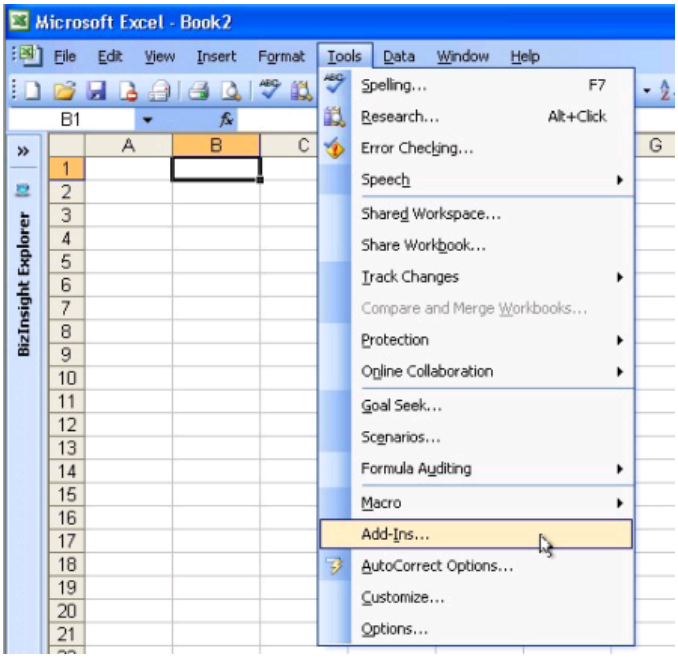

The Add-ins dialog should now look like the following:


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

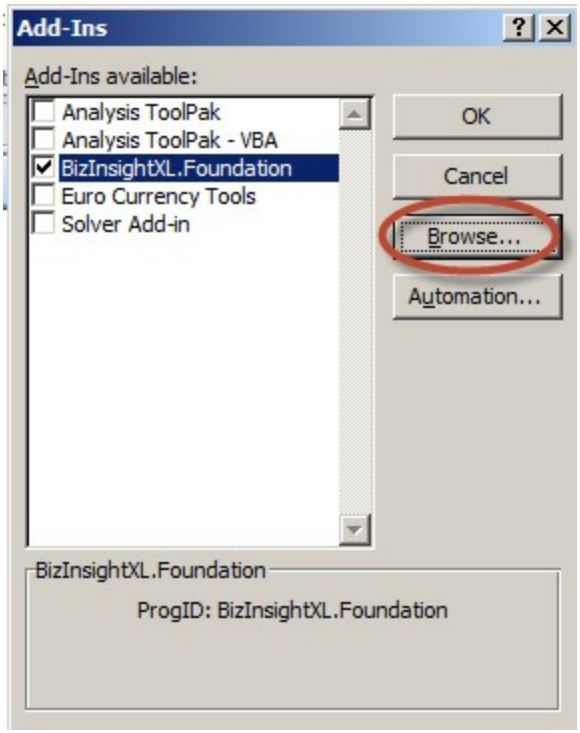
5. Click **OK**.

## Excel 2003

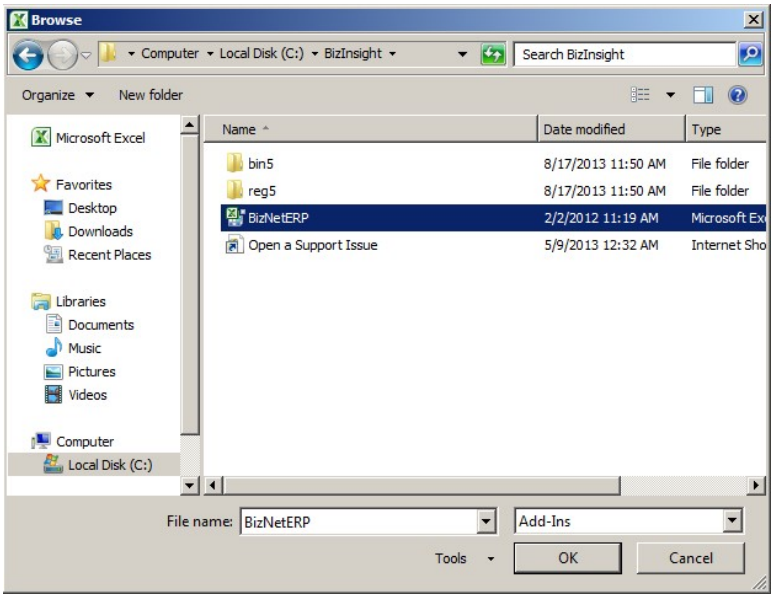
1. Click on **Tools** > **Add-Ins**



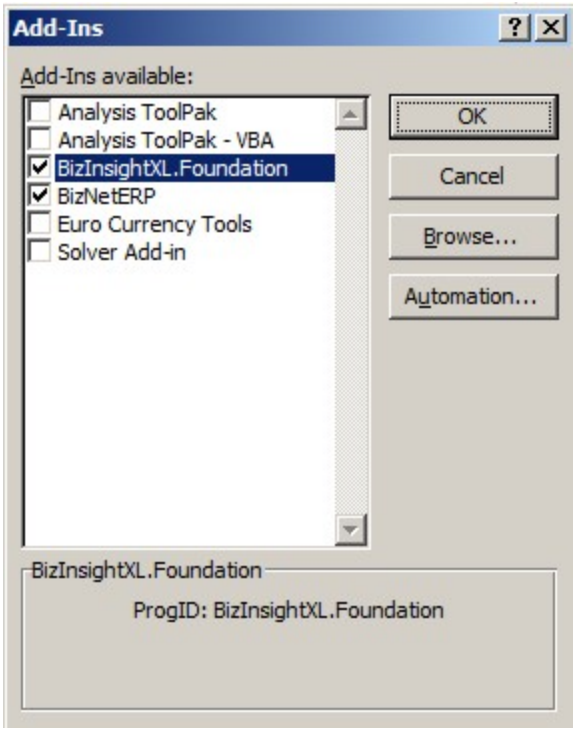
2. In the Add-ins dialog, click on the **Browse** button.




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

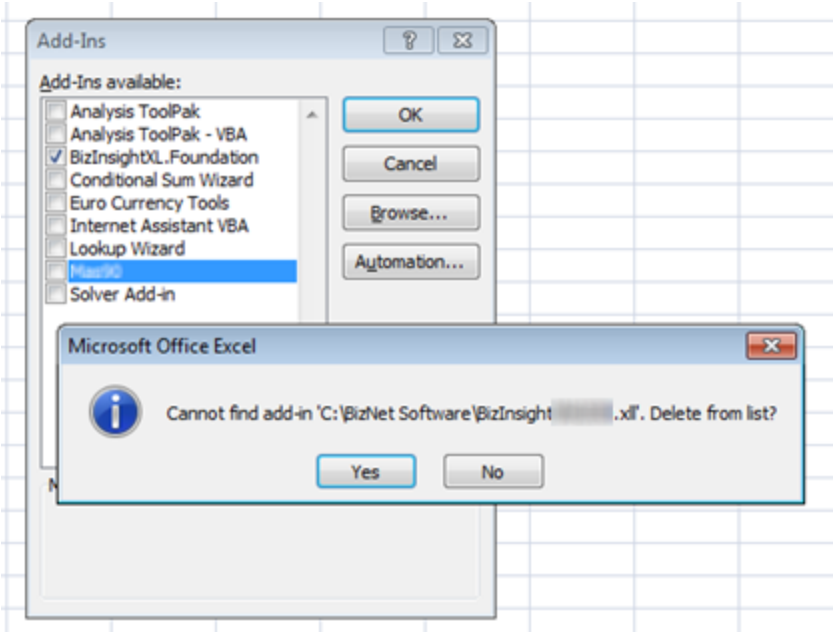



The Add-ins dialog should now look like the following:




4. Click **OK**.

9. Once in the add-ins dialog, uncheck the add-in mentioned in the error message. You should get the following message. Click **Yes**. If you do not get this message, you have unchecked the wrong add-in. Re-check it and uncheck the next one that is shown that has a similar name.




10. Close and reopen Excel to confirm that the error no longer occurs.

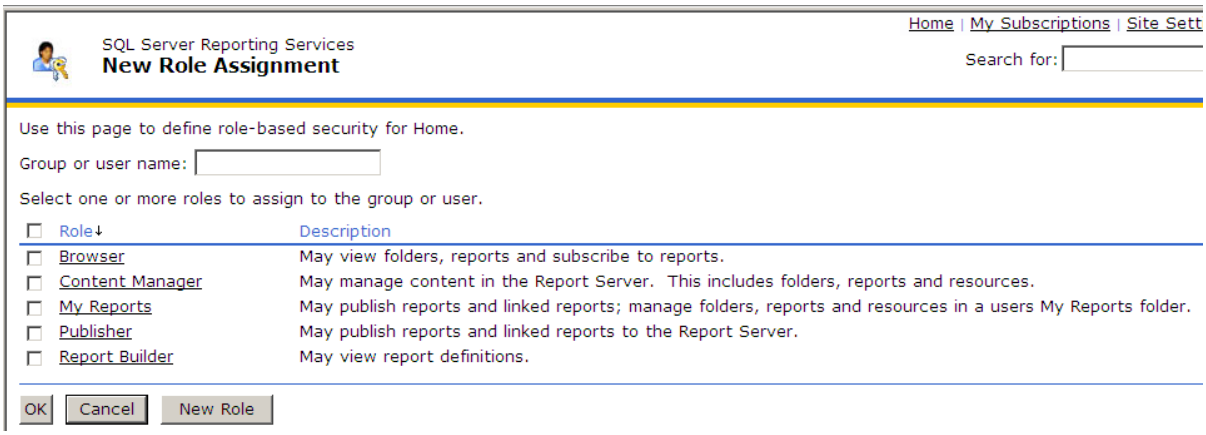
## Assign rights in Reporting Services

This step probably has been addressed by the Content Installer Admin tool. In the event an error occurred while users were being assigned security rights or you did not use the Admin Tool to assign BizInsight security to the new user, follow these steps to assign them rights to the Reporting Services items.

***NOTE*** If you are managing Reporting Services security with an Active Directory group, make sure the user is a member of that group and that group has been added to Reporting Services security.

All BizInsight users must have rights granted to them in Reporting Services. Reporting Services uses role-based security to secure access to items managed by the report server.

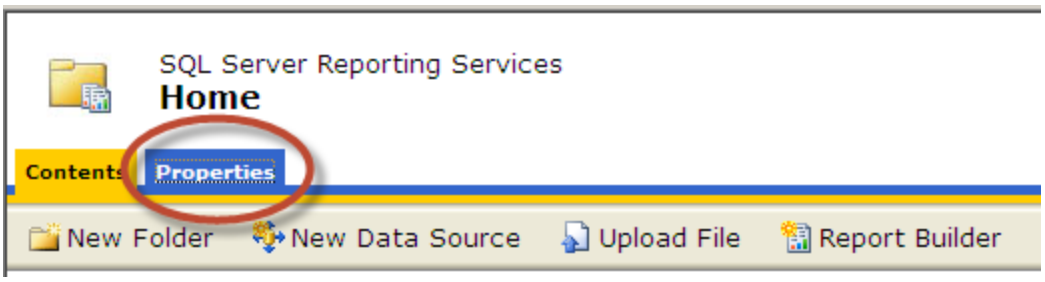
**IMPORTANT** Starting with the BizInsight build , the minimum pre-defined role necessary for a BizInsight user is Content Manager. A script is provided in the document titled "***Installing SQL Server and Reporting Services***" to create a custom role named “” that will assign only the minimum permissions required for the XMLFast feature.



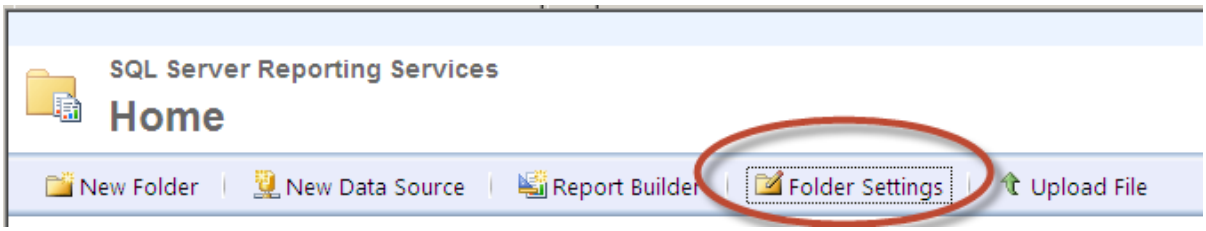

Reporting Services Security is accessed by browsing to the Reporting Services Report Manager URL (ex. http://servername/reports). Go to the Application Settings dialog of your currently working BizInsight user and copy the Reporting Services URL that is listed in the dialog. Modify the “reportserver” part of the URL to “reports” then paste into a browser.

**IMPORTANT** If Reporting Services is installed on a ***Windows Server 2008 or higher*** server and User Account Control (“UAC”) is enabled, you must elevate your privileges when you start Internet Explorer. To do this, press **CTRL+Shift** and then right-click on Reporting Services Configuration Manager and select **Run as administrator**.

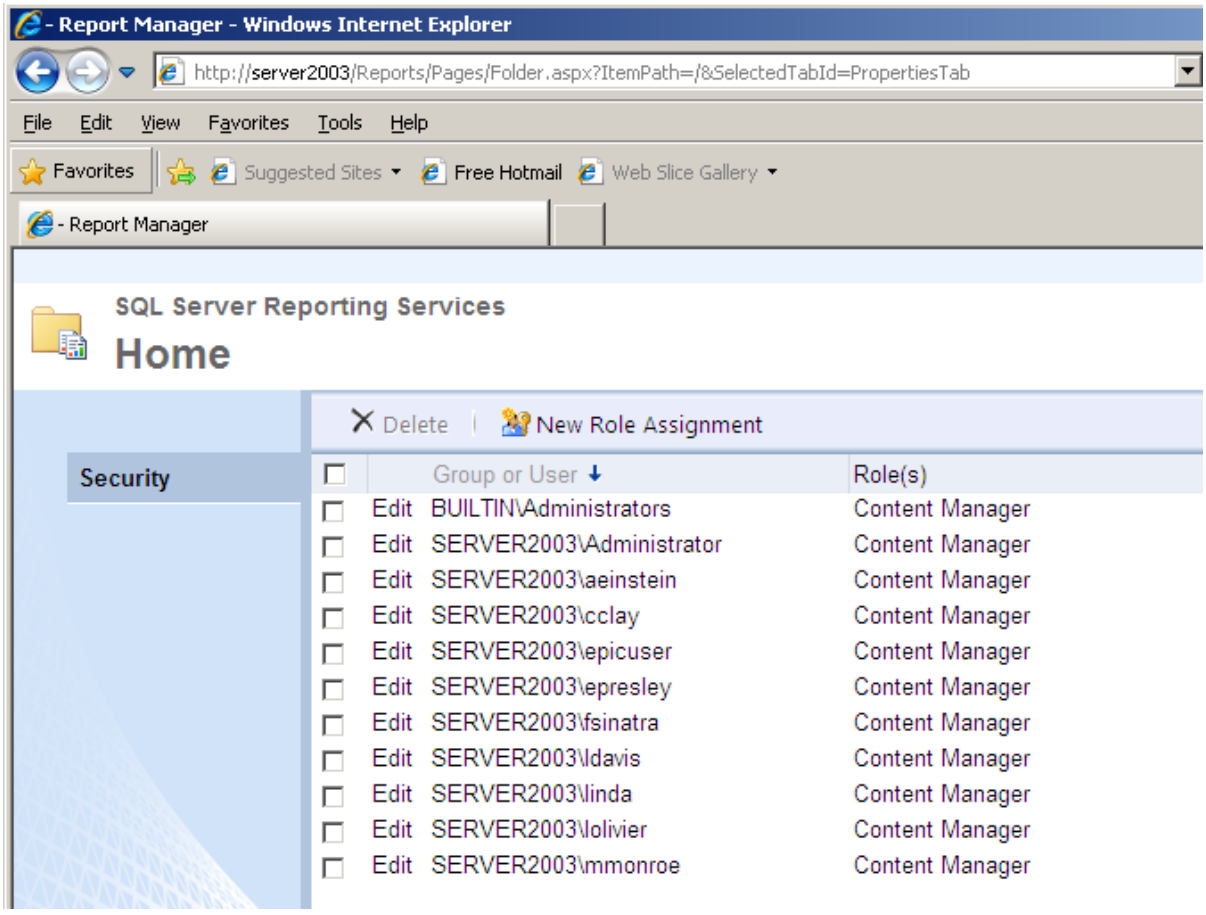
For SQL Server Reporting Services 2005 and 2008, go to the **Properties** tab:




For SQL Server Reporting Services 2008 R2, click on the **Folder Settings** button.




The following screenshot shows an example of a Reporting Service site with user security configured. The user named “linda” has been given Content Manager permissions.



# BizInsight Column Based Security Overview

*Disclaimer:*

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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.

## 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:**<br>Excel 2010 64-bit<br>BizData Iterations - 80,688<br>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.

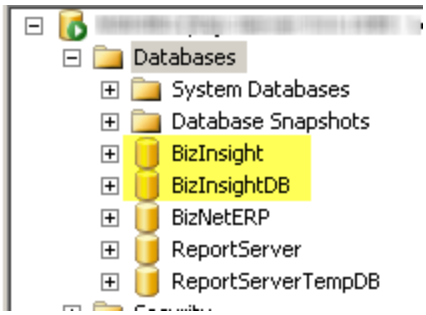
3. When Security mode is activated with double the amount of restricted values in the security table, there is about a double percentage loss in reporting performance.

### 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

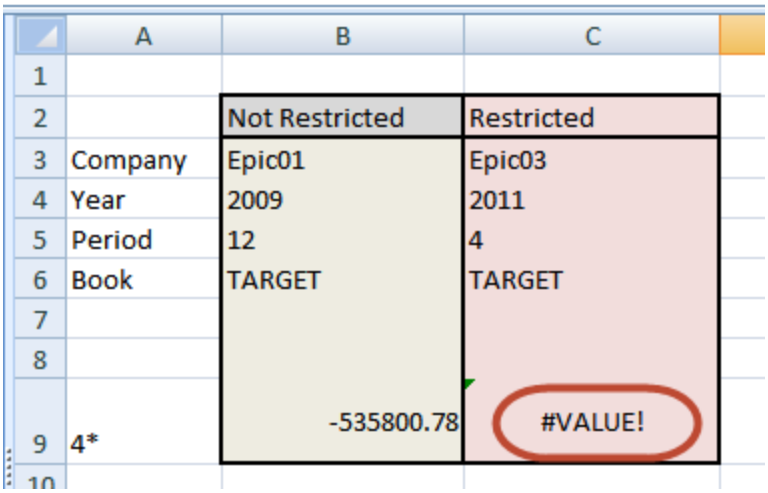
   The SQL Server System CLR Types package contains the components implementing the geometry, geography, and hierarchy id types in SQL Server 2008 R2. This component can be installed separately from the server to allow client applications to use these types outside of the server.

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

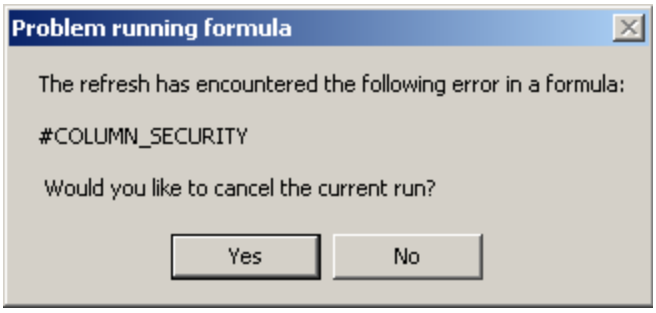
When a user tries to access data to which they have been denied access, the cell will display #VALUE.



| | A | B | C |
|---|---|---|---|
| 1 | | | |
| 2 | | Not Restricted | Restricted |
| 3 | Company | Epic01 | Epic03 |
| 4 | Year | 2009 | 2011 |
| 5 | Period | 12 | 4 |
| 6 | Book | TARGET | TARGET |
| 7 | | | |
| 8 | | | |
| 9 | 4* | -535800.78 | #VALUE! |
| 10 | | | |

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.