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# PREMIER TRANSFORMATION FUNCTIONS TOOLBOX INSTALLATION GUIDE

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## GETTING STARTED

### INTRODUCTION

Thank you for purchasing the Premier Transformation Functions Toolbox for Informatica PowerCenter.

We have created a step-by-step installation guide for your reference to setup your environment in order to utilize the product. By following the steps within this guide there should be no issues viewing the functions within Informatica PowerCenter Designer or having them executed cleanly within Integration Services.

As of May 22, 2010 there is no automated installer file available. The installation process is manual but it is very quick.

### OVERVIEW

The Informatica Premier Transformation Functions Toolbox provides a well needed extension to the Transformation Expressions function list currently included with Informatica PowerCenter. Usage of these functions is limited only to the creative solution imagination of the end users; however a sample mapping and data source are provided to test the functions immediately upon your installation of the product.

Please note that these functions must be installed in three parts: Client, Server, and Plug-In. Depending on your Informatica environment architecture, each part of the installation may be on a separate machine. In a distributed server environment or single environment you will need to know the path for each and have the following access:

	Location	Access / Privileges Required
<b>Client</b>	<INFA_HOME>\client\bin\	Read / Write / Modify
<b>Server</b>	<FINA_HOME>\server\bin\	Read / Write / Modify
<b>Plug-In</b>	https://demomachine:8443/adminconsole/index.jsp	Administrator role, or ability to add/remove a plug-in

### LICENSE GRANTED

Purchase of this product entitles your organization to a single (1) server production license. If you have more than one Informatica Server you will need to purchase additional products/licenses to satisfy each server instance. Please contact our Sales department as volume pricing is available. If you have any questions regarding your license or any compliance thereto, please contact our sales department.

### CERTIFIED ENVIRONMENTS MATRIX

In order to comply with our standards as well as those of Informatica, our software has been tested thoroughly and rigorously.

Currently this product is certified (tested and proven) on the following environments:

	PowerCenter 8.6.x	PowerCenter 9.x	Others Coming Soon
<b>Windows Server 2003</b>	X	X	
<b>Windows Server 2008</b>	X	X	
<b>Linux</b>			
<b>Sun Solaris</b>			

## DOWNLOAD FILE(S)

Upon purchase you will or should have downloaded a single ZIP compression file based on the latest software version available. The name of the single file should be similar to FS\_INFA\_Functions\_Toolbox\_v<Version\_Number>.zip. This file contains all of the necessary binaries and read me files associated with the specific software version release.

Download this single file to a directory of your choice, ex: C:\downloads. Decompress the file using your extraction utility such as WinZip or WinRAR. The zip file is compressed at the root folder level so you may choose extract and the result will be the root folder, ex: C:\downloads\FyghtSoft\_Functions\_Toolbox\_v1\.

## FILE INVENTORY

Once the file is extracted, expand the root folder to see the file structure beneath it. The resulting file structure should be similar to the image below

[Image]

You are now ready to begin the installation.

# INSTALLATION OF BINARIES

## OVERVIEW

The Informatica PowerCenter (PowerMart) requires the installation of the binary files (.dll) under both the client and server \bin\ locations of the Informatica PowerCenter installation directory. The rationale for this is that:

1. the client and server components of Informatica may be installed on separate machines/servers
2. The client expression or lookup prompt must show the functions template and structure in order to select it from the client PowerCenter Designer.
3. The server's Integration Services must be able to execute the function for each row as the ETL process executes.

Informatica requires a separate binary file for each function. Before the plug-in is assigned in the Informatica Administrator Console the binary files should be present in the client and server bin folder locations on the respective physical server instances per license agreement.

## COPY TO CLIENT

From the extracted file root, navigate to the \bin\ folder. This folder contains all binary files released with this version of the software.

1. Copy all DLL (.dll) files from the \bin\ folder
2. Navigate to your Informatica PowerCenter install client folder, <INFA\_HOME>\client\bin\
3. Paste the files copied in step 1 into this directory

## COPY TO SERVER

1. Similar to the instructions provided for "Copy to Client" above, copy all DLL (.dll) files from the \bin\ folder of the extracted product root directory.
2. Navigate to your Informatica PowerCenter install server folder, <INFA\_HOME>\server\bin\

**NOTE:** Ensure that you are pasting the files onto the correct Informatica server instance if using a distributed server environment. Failure to do so will cause a workflow, etc. to fail at runtime.

3. Paste the files copied in step 1 into this directory

## CONCLUSION

If you have followed the instructions above you have successfully completed the first step in installing this product. As of now your PowerCenter has the proper files in place where in the next step you will proceed to configure Informatica PowerCenter to recognize those files by installing the plug-in files in the Administration Console. As a final validation, ensure that the same number of DLL files you have moved from the unzipped product file \bin\ folder now exist in both the respective client and server Informatica PowerCenter <INFA\_HOME> paths.

# INSTALLATION OF PLUG-INS

## OVERVIEW

In order register the new DLL files installed in the previous section with Informatica, Informatica must be told how to reference said function libraries. This is completed by accessing the Informatica PowerCenter Administration Console, setting the Repository to “**Exclusive**” mode, and then registering each plug-in XML file. This is a relatively quick process. However, each plug-in XML file must be done one-by-one – not a once.

## ACCESS THE ADMINISTRATION CONSOLE

Navigate to the web based PowerCenter Administration Console by either:

1. On Windows, select Start > All Programs > Informatica PowerCenter <Version> > Services > PowerCenter Administration Console, or
2. Open a web browser, type **Error! Hyperlink reference not valid.** in the address bar, click go
  - a. The default address is the server name and the default port is 8443. Please consult with your Informatica Administrator if this default information was changed.

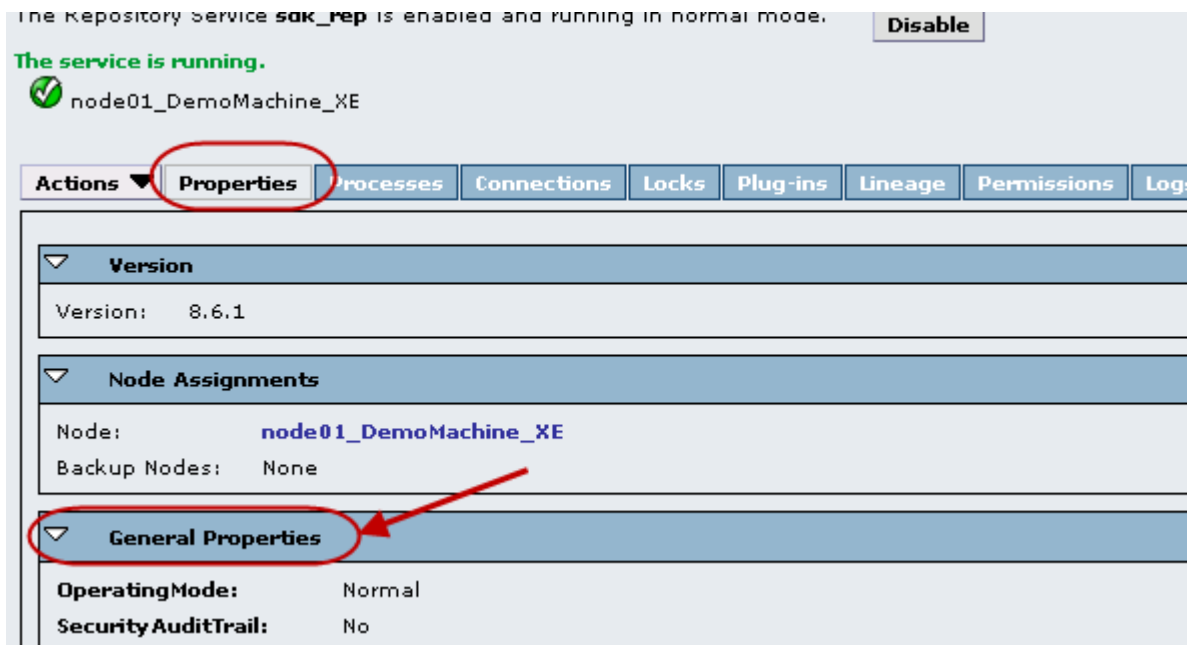
Log-in to the Administration Console with a valid username and password.

## SET REPOSITORY TO EXCLUSIVE MODE

In order to install or remove a plug-in, the Repository Service for which you wish to use the function toolbox, must be set to Exclusive Mode.

1. Click on the Repository Service from the main Administration Console menu.
2. On the Properties tab, locate the **General Properties** section and click “**Edit**”.

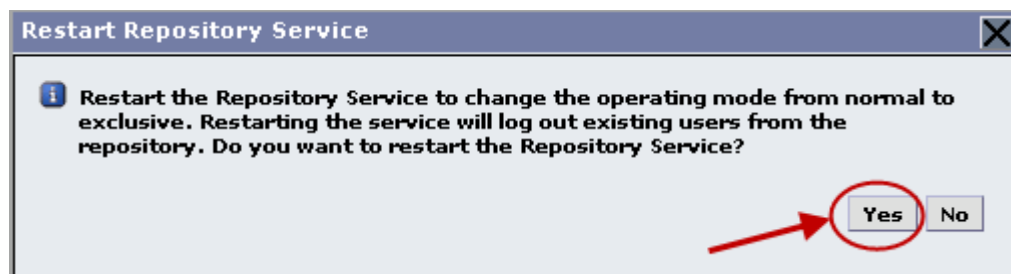




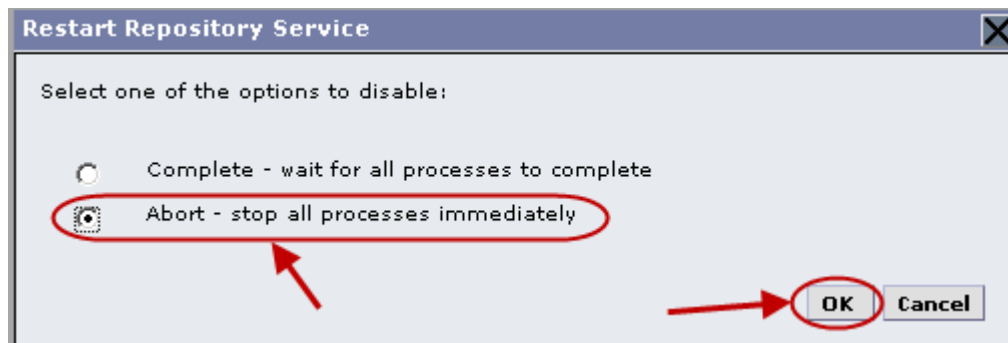
3. Change the **OperatingMode** option to “Exclusive” using the dropdown menu.



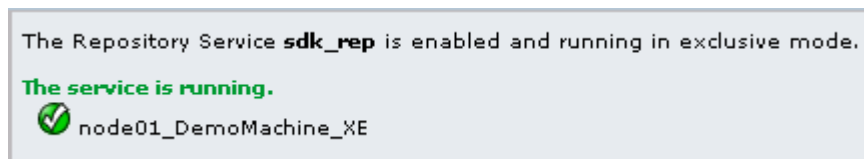
4. Click “OK”
5. If a prompt appears to restart the Repository Service click “Yes”



6. A second prompt asking for the immediacy of the restart will appear. If so, choose the Abort option for an immediate restart and click “OK”. (Please use your organization’s standards when restarting any Informatica services as this may impact end users).



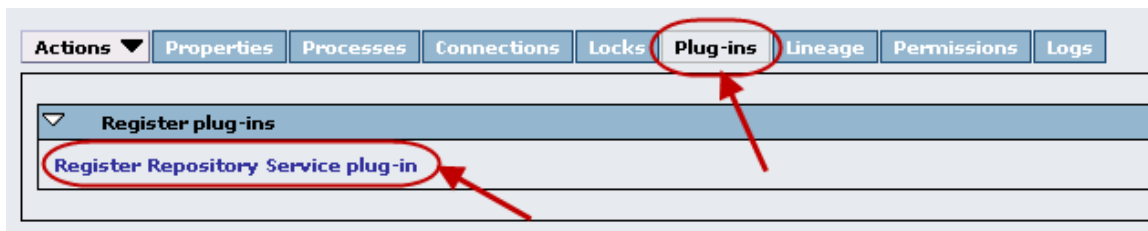
7. Pay attention to the restart notifications and wait for the Repository Service to start, return to enabled and running before continuing. The repository should now be in “**exclusive mode**” as seen in the image below.



## INSTALL PLUG-INS

The plug-ins can only be installed when the Repository Service is in Exclusive Mode. Now that this was accomplished above, continue through the next steps to install one or more plug-in XML files. This is the crucial step which will allow one or more of the Premier Toolbox functions to be used within Informatica.

1. Locate the Plug-Ins tab within the same Repository Service.

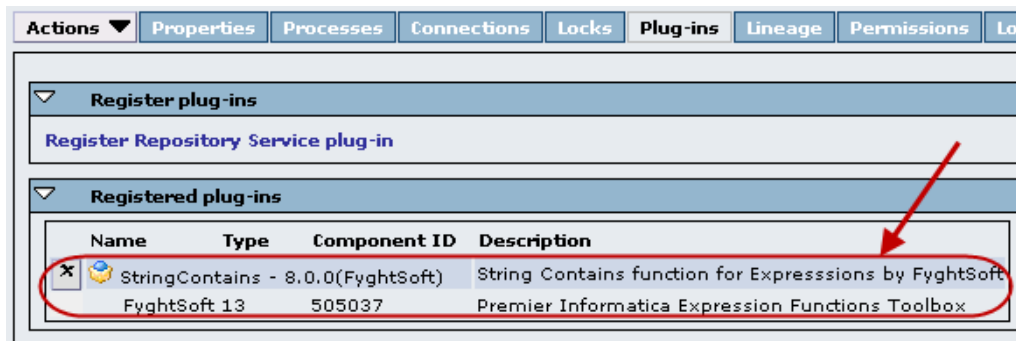


2. Click the “**Register Repository Service Plug-ins**” link.
3. On the Plug-Ins page, enter the credentials for a repository user authorized to install a plug-in (An Administrator role will always work here.)

4. Next, click the **“Browse...”** button.
5. On the browse prompt, navigate to the unzipped root folder for this product. Locate the **“Plug-Ins”** directory and choose one of the Plug-In files for any of the DLL files you installed in the previous section. Locate and select the XML file and click **“Open”** on the window prompt to confirm.

6. Click **“OK”** on the Plug-In registration window to load the plug-in to the Informatica PowerCenter repository service. An Action Status window will appear noting a success or failure response from loading the plug-in XML file. Either Save or Close the Action Status message.

7. The registered plug-in will now appear under the Plug-Ins tab for this Repository Service.

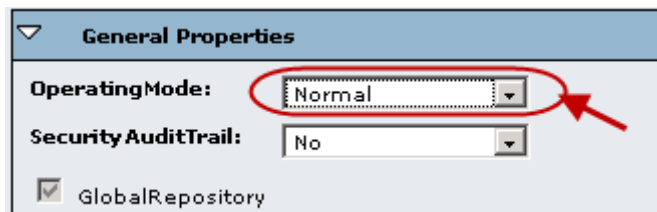


- Repeat steps 8 through 13 for each of the functions in the Function Toolbox that you wish to install and use.

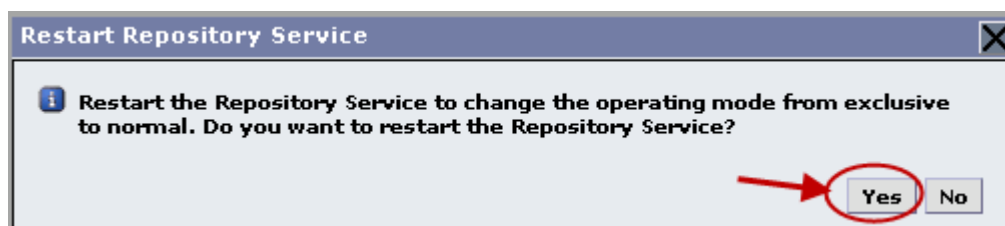
## SET REPOSITORY TO NORMAL MODE

Now that one or more (hopefully all) of the plug-ins have been registered within the Repository Service, the Repository must be set back to Normal mode for any user to access this Repository Service.

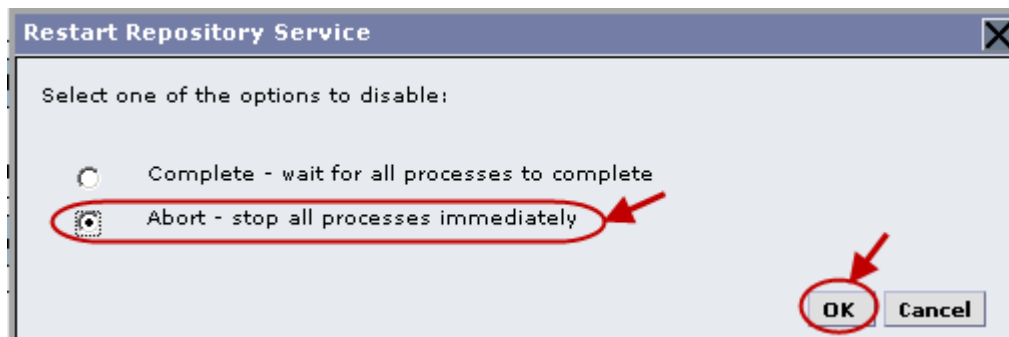
- Select the Repository Service in question from the main Administration Console menu.
- Click on the **Properties** tab and locate the **General Properties** section.
- Click **Edit** on the General Properties section to edit it.
- Change the **OperatingMode** option to **Normal** using the drop-down menu.



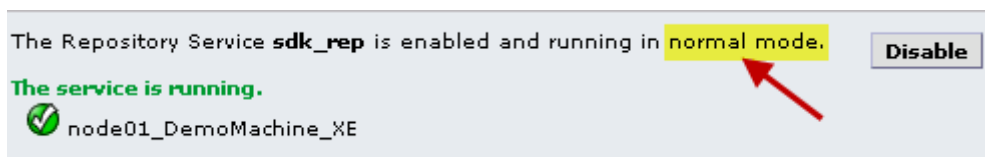
- Click **OK** to save your change.
- You will be prompted to restart the Repository Service. Click **Yes** to start the restart.



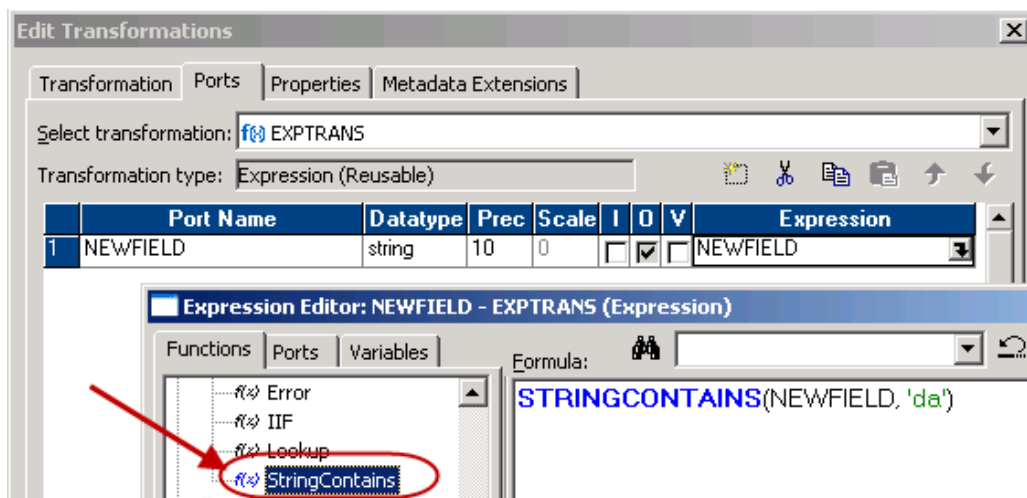
- A second restart prompt requests the immediacy for the restart. Choose the Abort option and click the **OK** button to proceed.



8. The repository service will restart. Once the Repository Service has restarted, confirm that it is back in Normal mode.



You may now access Informatica PowerCenter Designer and verify that the plug-in(s) is now available by creating a dummy Expression, adding a port, and looking under the new folder labeled **FyghtSoft**. Please note that these functions can also be found under the **Special** folder.



## CONCLUSION

Installation of the Premier Functions Toolbox is straightforward. If you can see the functions within your validation test via Designer then you are ready to begin using the functions in your transformations. For usage information, please consult the user guide available in the unzipped product directory.