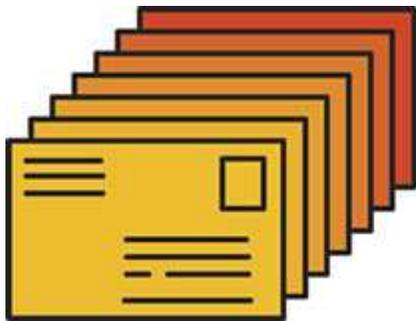


12/07/2009

Reform.12



Email Plug-in

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Using Email Features

Reform can send emails by communicating with email servers. Emails can contain text, html, or attachments. Combining Reform with an email server allows the delivery of documents processed by Reform to various recipients. By sending the information via email, paper costs are reduced and delivery and response delays are decreased.

System Requirements

- Reform 12 Enterprise or Reform 12 PDC
- Reform Email Plugin
- For Evaluation and Demonstration: Windows XP, Windows 2003 Server, Windows Vista, Windows 7 or Windows 2008 Server (64 Bit Operating Systems are Supported)
- For Production Systems: Windows 2003 Server or Windows 2008 Server (64 Bit Operating Systems are Supported)
- Microsoft .NET Framework 3.5 (this will be automatically installed if the installer does not find it on the system)
- Microsoft SQL Server (SQL Server Express will be automatically installed by the Email installer if it is not present on the current system)

All required Reform software downloads can be found at www.fabsoft.com >> Downloads section.

Hardware Requirements

- Production System Recommendation (These suggestions are only estimations. High load environments may require multiple servers, or additional hardware.)
 1. Pentium 4 Processor
 2. 4 GB RAM
 3. HDD Space 100 GB (Redundancy recommended)
 4. Battery Backup (UPS)
 5. Dedicated server, no other software products except for virus and security programs.
- Minimum System Requirements for demonstration purposes only
 1. Pentium 4 Processor
 2. 2 GB RAM
 3. HDD Space 30 GB

Hardware specifications depend greatly on the workload and throughput that is required. Higher end processors and greater amounts of memory will increase the amount of information and data that Reform can process thus improving overall system throughput. For load balancing or failover, multiple servers can also be used. (Note: A license for Reform and each plug-in is required for each server running the software.)

Before obtaining the server that you plan on utilizing for Reform, please check the plug-ins' user manuals for System Requirements as well as they may require additional hardware. For production systems, we also recommend redundant hard drives utilizing the mirroring features of RAID (Redundant Array of Independent Disks) to minimize data loss and expedite system recovery in the event of a hardware failure. Battery backups are also suggested to maintain system uptime and reliability in case of power failures.

Installation

To install the Email plug-in to your existing Reform 12 installation, download and run the Email installation executable.



The installer will launch. There is no pre-configuration required to install the plug-in, so click **Next** and the process will begin. If SQL Server Express is not installed on your system, it will be automatically installed. This typically takes between 10-20 minutes between downloading the application and installing it. If the Microsoft .NET Framework 3.5 is not already installed on your system, it will be automatically downloaded and installed. After the installation is complete, click **Finish**. The Email plug-in is now installed.

The default installation directory for Reform 12 and its plugins is **C:\Program Files\Reform...**. If you have changed the path during the Reform installation routine, or if you are using a 64 bit operating system, please refer to the appropriate path instead of the default one referenced throughout this documentation.

Plugin Registration and Licensing

When evaluating Reform 12, the plugins will also be in an evaluation mode for that period of time. Once Reform has been purchased and licensed, the required plugins must also be licensed in order to continue functioning correctly.

Please see the "Reform 12 Licensing and Registration" section of the Reform 12 User Manual for more information on how to license Reform 12 Plug-ins. After the license is entered, the Reform Spooler will need to be restarted to refresh the licenses. More information regarding the Reform Spooler Service can be found in the Reform 12 User Manual.

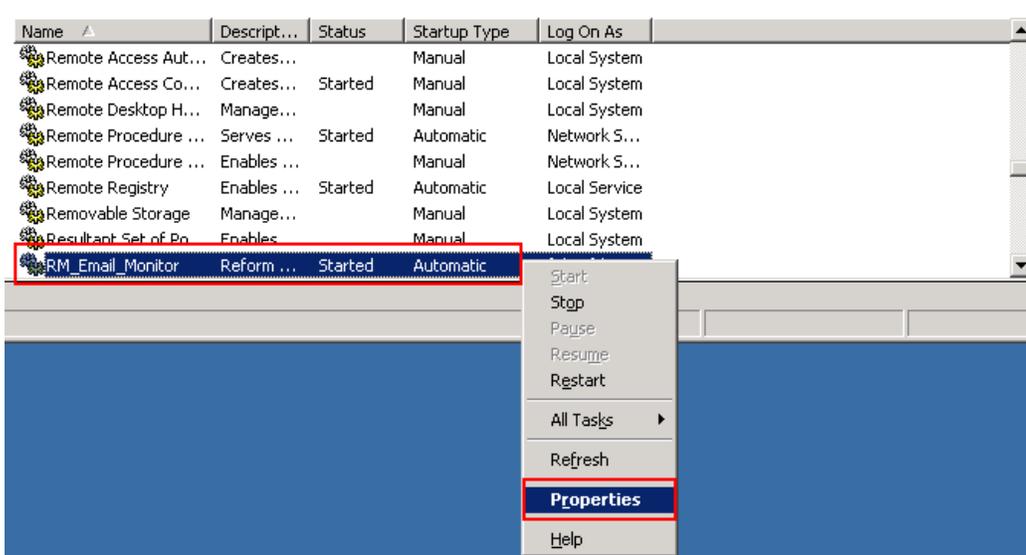
Email Server Types

The Reform Email plugin integrates with multiple email server types. It currently has the ability to communicate seamlessly with SMTP, Exchange 2003, Exchange 2007 and Exchange 2010. When configuring your email workflow using the Workflow Designer, you will be given the option of choosing the email server type you would like to configure. Depending on which type is chosen, you will be prompted for different required and optional email server settings.

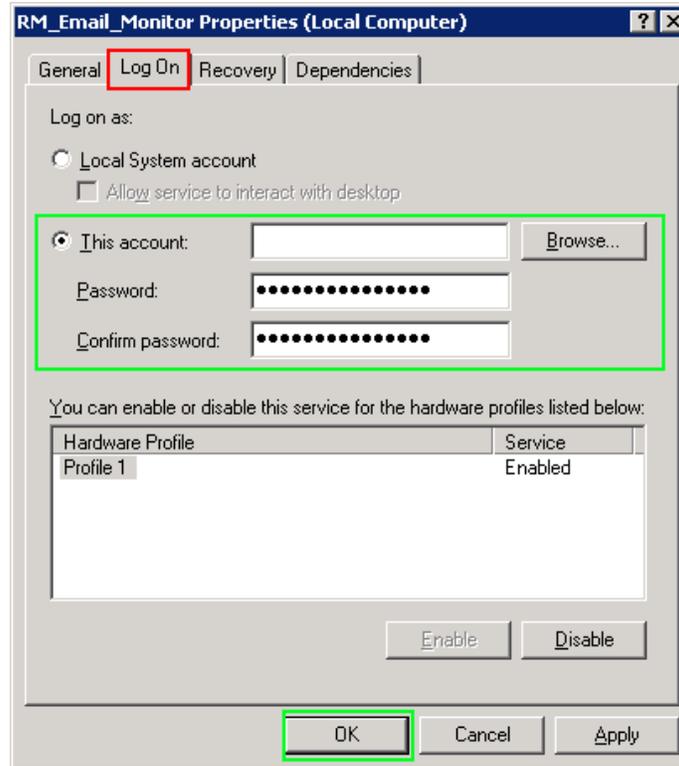
Reform Email Monitor Service

The RM_Email_Monitor service is installed by the Email installation routine. This service monitors a database table that is populated by the Email send to script in order send emails. Using this method, a record is kept of all sent emails. Also, emails can be resent automatically if they failed to be sent at the email server.

IMPORTANT: The RM_Email_Monitor Service **must** have local administrative privileges in order to function correctly (Cannot be run as Local System or Network Service). To change the service logon account, go to **Start > Programs > Control Panel > Administrative Tools > Services**. Right click on **RM_Email_Monitor** and select Properties.



Navigate to the **Log On** tab. Here, you will need to set the local administrative service logon account.



Select the “This account:” option. You can manually enter the account credentials or use the **Browse...** button to search for one. Once you have entered the correct credentials, click OK to save your changes. If the service is already running, it will need to be restarted by stopping and starting the service. If the service is not started, please start the service after configuring an administrative logon service account.

Setting up your First Email Enabled Form

Setting up a new or existing form to connect to an email server and send emails is a simple process that utilizes the Workflow Designer, a form creation and configuration tool. The setup will allow you to set static (unchanging) values for various fields (such as the subject line, message body, recipients, etc), or you can use text objects mapped in the text layer to dynamically change values.

To start the tutorial, the Reform Designer must be opened. To open it, go to **Start>Programs>Reform...>Designer**.

1. For the example, we will be creating a new form with an existing template. Go to **File>New>New**. Select the **Email.FTM** template and click **OK**.

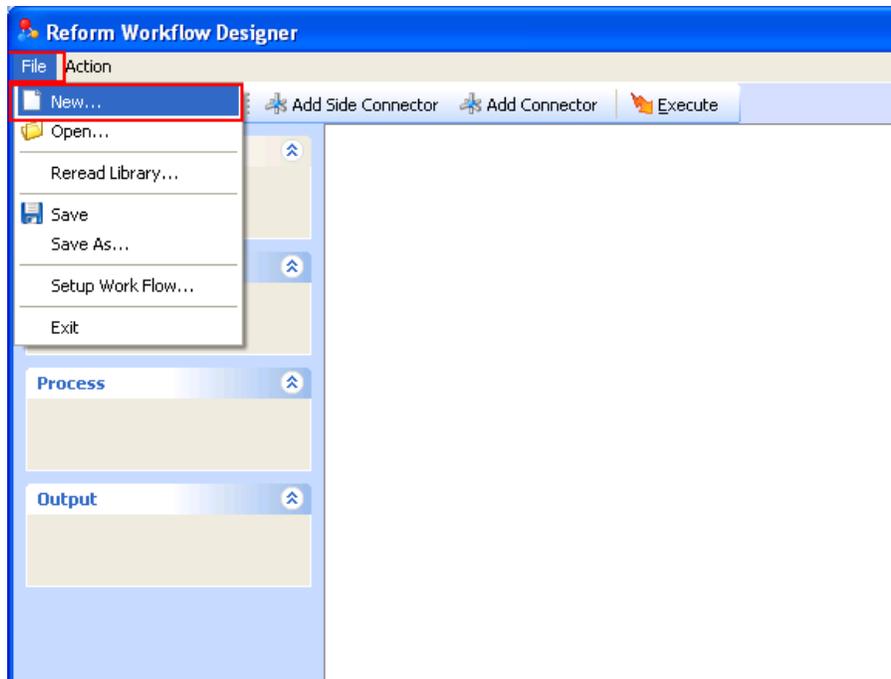


Email.FTM
Email Sample - Contract with Terms and Conditions

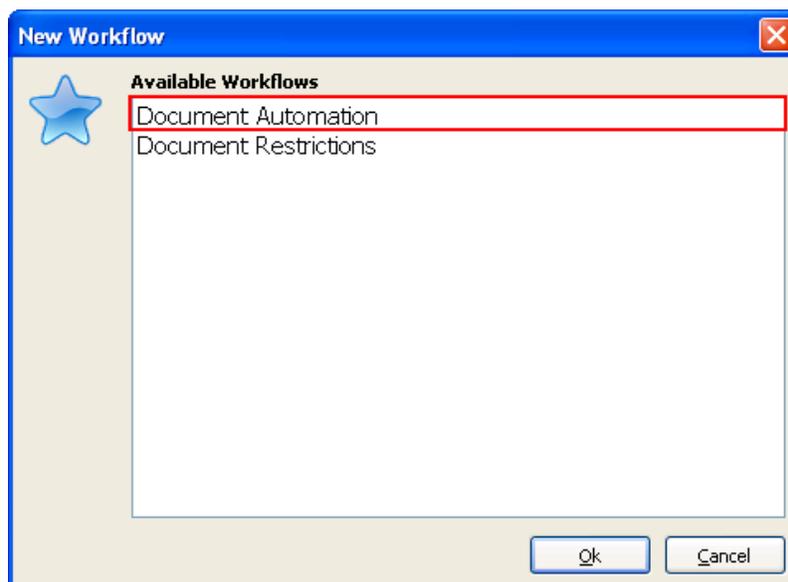
2. When it asks if you would like to open a text file for designing, select **No**.
3. Next, go to **File>Save** to save your form. Name it **Email.FOM**.
4. You can now close the Reform Designer since we have a form which we will be used with the Workflow Designer to route the document.

*Now that we have our form, we can begin to configure the desired Email workflow using the Workflow Designer. First, the Workflow Designer must be started.

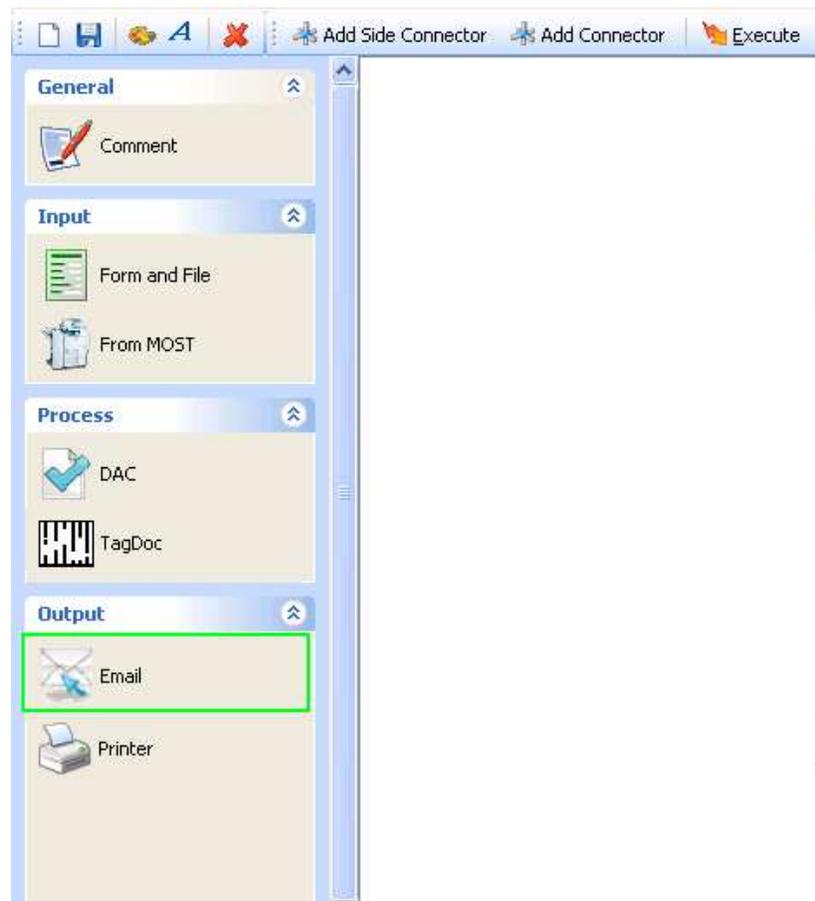
5. To open it, go to **Start>Programs>Reform...> Workflow Designer**.
6. Once open, we must go to **File > New...**



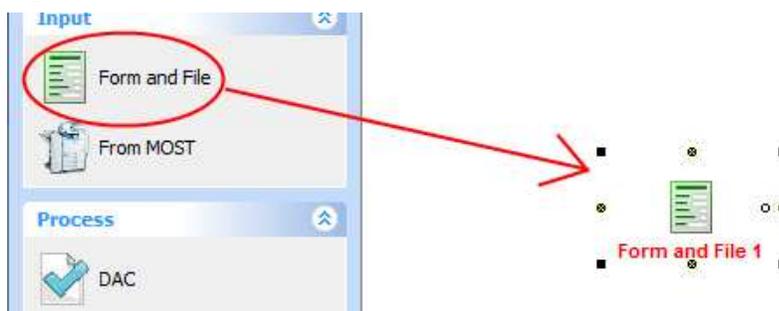
7. Select **“Document Automation”** and click **Ok**.



8. You will now notice that your Inputs, Processes and Outputs have been populated by the various plug-ins you have installed (Email being one of the Outputs)

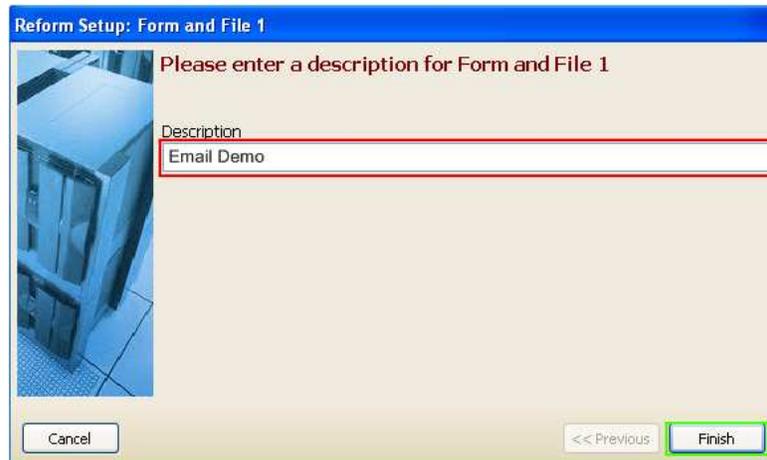


9. We can now start adding the necessary components to the workflow. First, drag and drop a **Form and File** object onto the workflow by clicking and holding your mouse on **Form and File** and then moving your mouse over to the workflow and releasing the mouse button.

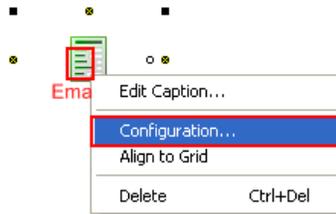


*You will be prompted with a dialog to describe the input.

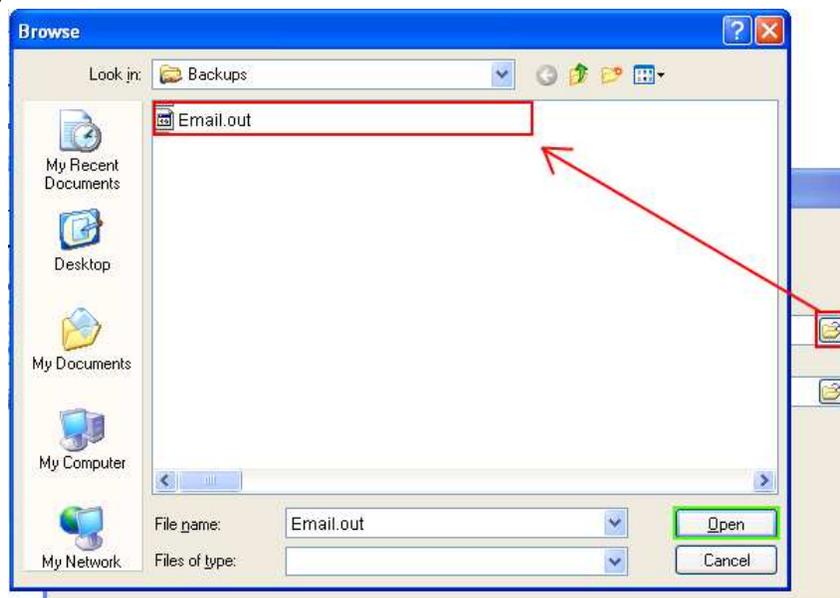
10. Enter a description for the object you just added. This is done by typing in the provided box. Type **"Email Demo"** and click **Finish**. This will take you back to your workflow.



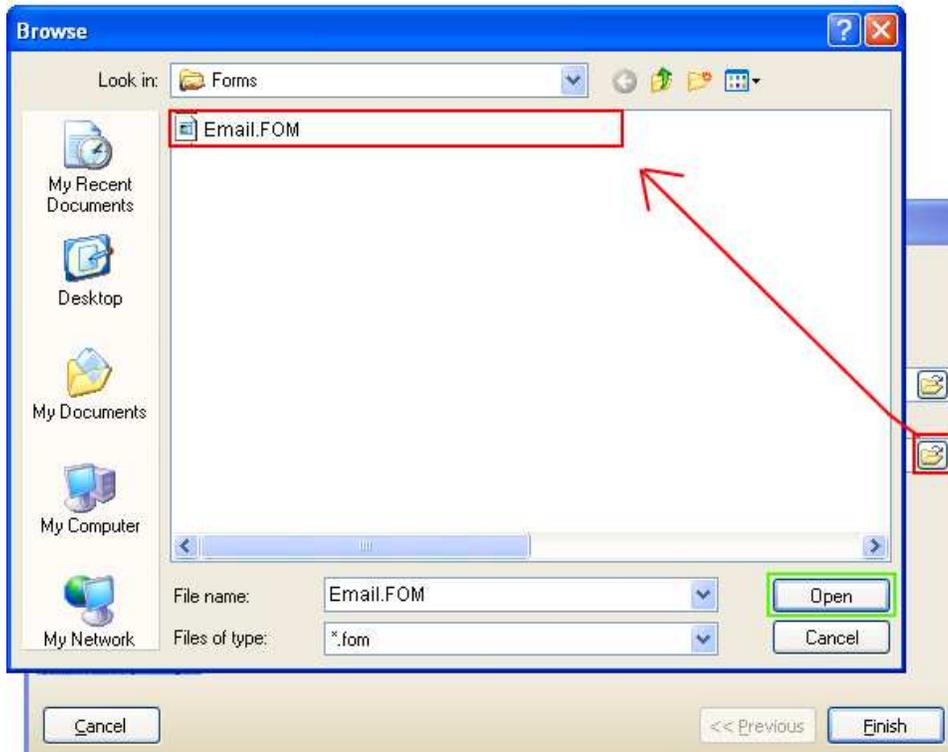
11. Now we are ready to configure the “**Email**” form and input file. To do so, right click on the newly added object and select “**Configuration...**” or simply **double-click** it.



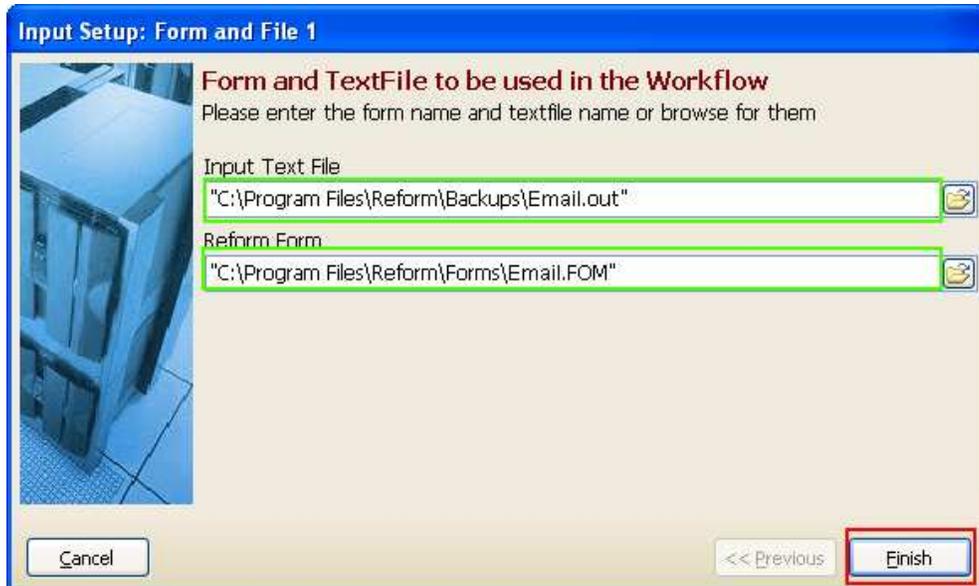
12. You are now presented with the Input Setup window. First, we want to select the TextFile or data stream that our form will be using. To do so, you can simply begin typing in the box, or you can browse to find it. We want to select the **Email.out** file which is located in the **\Reform\Backups** directory. Click the small folder icon to bring up a window which will let us choose that file. Select the file and click **Open**.



- 13. After choosing the text file, you are taken back to the Input Setup page so that you can now select a form. Click the small folder icon to bring up a window which will let us choose the desired **Email.FOM** form file. Select the FOM file and click **Open**.



- 14. Now that you have both your Input Text File and Reform Form selected, the setup of "Form and File" is complete. You can quickly double check that the correct files are selected and then click **Finish**.



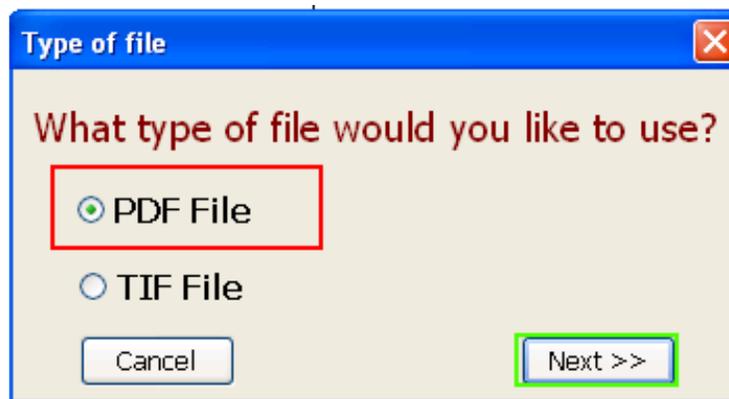
15. You will also be prompted to add a page-break field to the forms. At this point, we want to select **No**.
16. To finish the Email workflow, we want to add an **Email Output**. We use the same drag and drop procedure as with the **“Form and File”** (see step 9). Take your mouse and drag the **Email** object from under Output onto the workflow somewhere below your Input. Once you release your mouse, you will be prompted to describe **Email**. Type **“Email”** in the box and then click **Finish**.



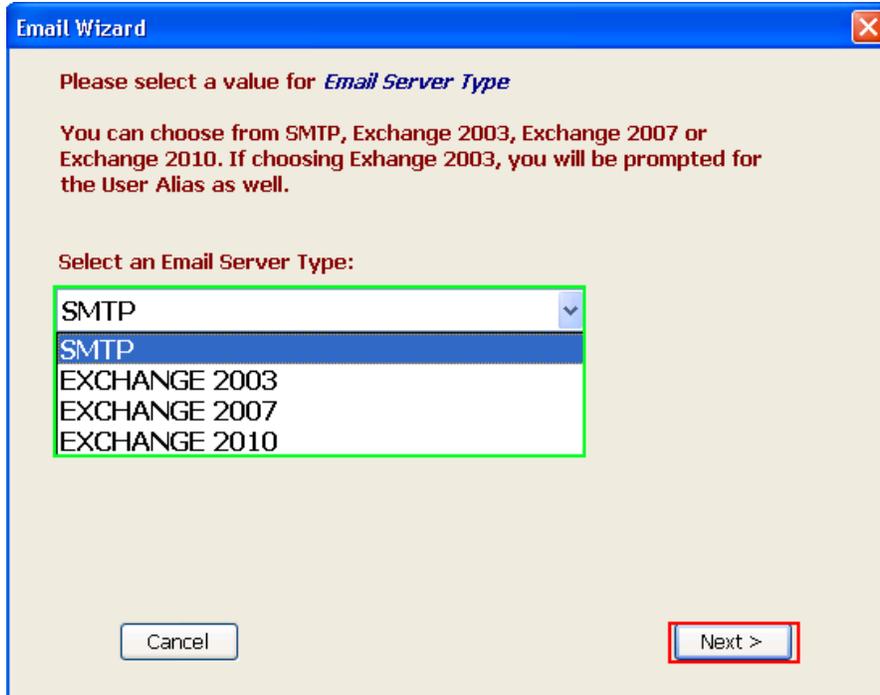
17. Once you click Finish, you are taken back to your workflow. Your **Email** will have a **Red** Caption because it is not yet configured. To configure **Email**, you must first connect the **“Form and File”** object titled **“Email Demo”**. To do so, first select the **“Add Connector”** button from the menu bar. Next, drag your mouse from the small **“x”** underneath **“Email Demo”** to the small **“x”** above **“Email”** as pictured below. When the connection is complete, the connector will turn black (if red, connection has not been made correctly, try again) and the **“Email Demo”** caption will turn **green**.



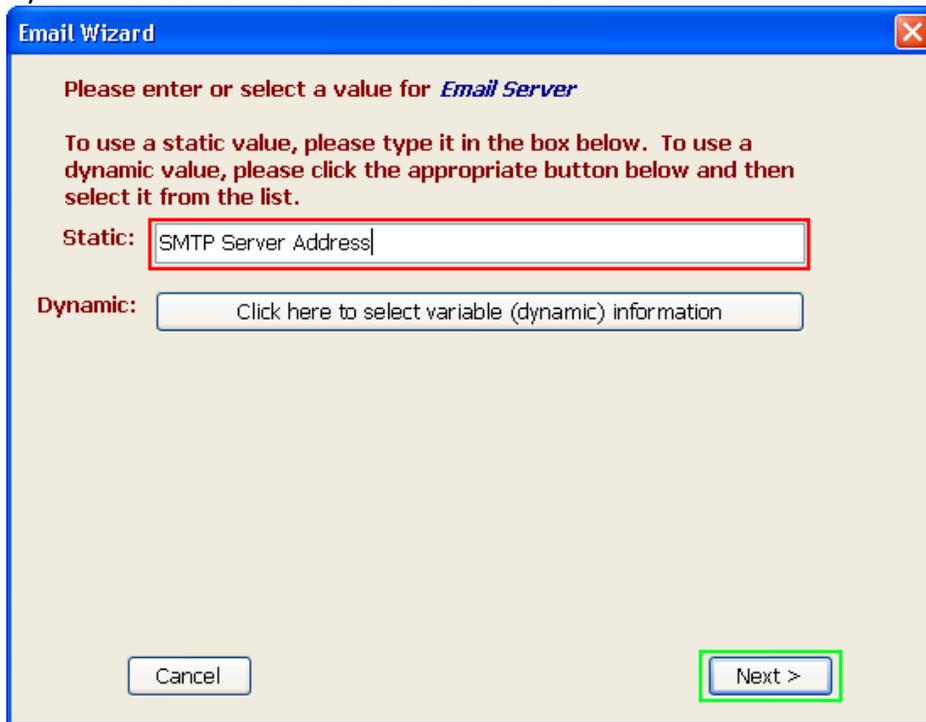
18. You will be prompted to configure **Email** upon completing the connection. Click **Yes**. If you click **No**, you can also **double click** on the Email object or **rightclick** on the object and select “**Configuration...**” at a later time. This configuration will step you through all the settings necessary for Email to work with your email server. The first piece of information is the file type you want your email attachment to be. Select “**PDF File**” and click **Next**.



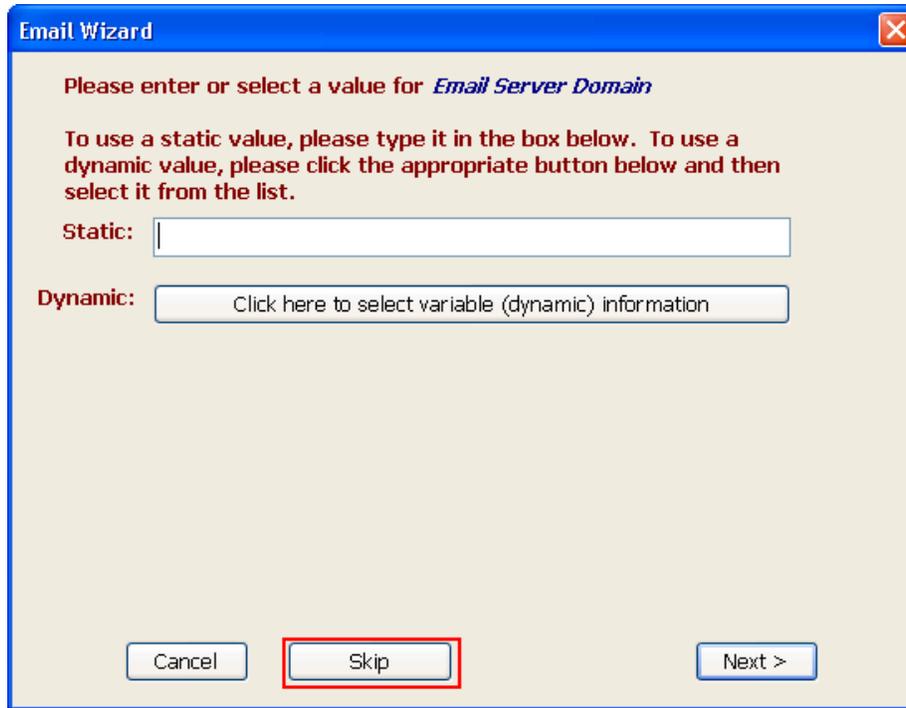
19. You are then prompted for the **Email Server Type**. Using the drop down box, you can choose which email server type you will be using to send out emails . Depending on the type that you select, you may be given different email server options. For demonstration purposes, we will be selecting **SMTP**. Click **Next** once you have selected your Email Server Type.



- 20. For the example, we will be using data that is already present on the print stream. Some of the information you will need to enter will be dynamically populated directly from objects mapped on the text layer. The following screen will ask you to enter the address of your **Email Server**. Since this is a static value, you can manually enter your Email server information. Click **Finish**.

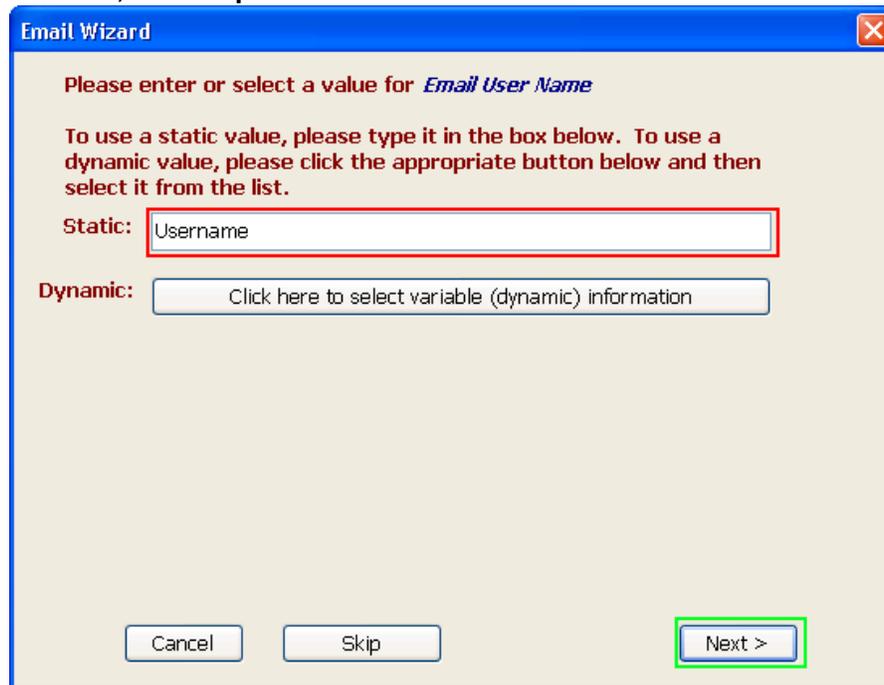


21. You are now prompted for the **Email Server Domain**. This is an optional setting but should be entered if required for your environment. For the demonstration, we will skip it. Click the **Skip** button to continue.



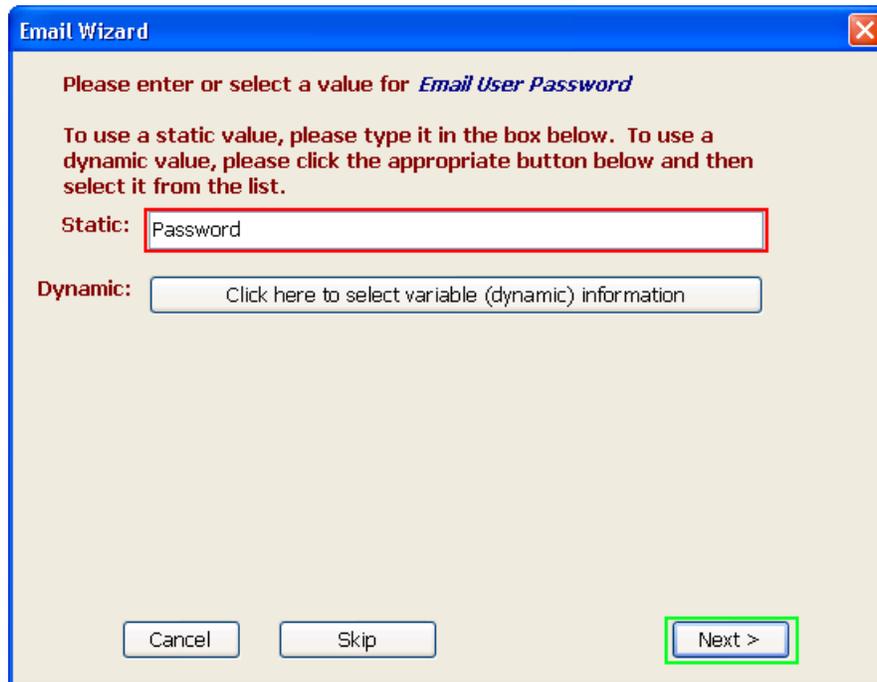
The screenshot shows a dialog box titled "Email Wizard" with a close button (X) in the top right corner. The main text reads: "Please enter or select a value for *Email Server Domain*". Below this, instructions state: "To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list." There are two input options: "Static:" followed by an empty text box, and "Dynamic:" followed by a button labeled "Click here to select variable (dynamic) information". At the bottom, there are three buttons: "Cancel", "Skip" (which is highlighted with a red rectangular border), and "Next >".

22. The next screen will ask you for the **Email User Name**. If your Email server requires authentication, enter the username now and click **Next**. If it does not require authentication, click **Skip**.



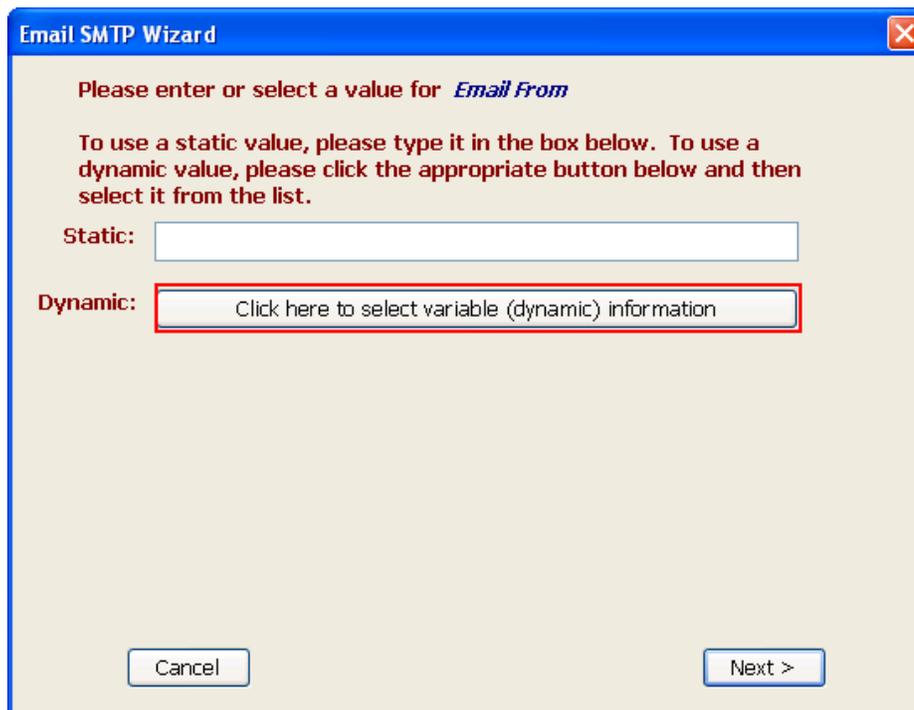
The screenshot shows a dialog box titled "Email Wizard" with a close button (X) in the top right corner. The main text reads: "Please enter or select a value for *Email User Name*". Below this, instructions state: "To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list." There are two input options: "Static:" followed by a text box containing the word "Username" (which is highlighted with a red rectangular border), and "Dynamic:" followed by a button labeled "Click here to select variable (dynamic) information". At the bottom, there are three buttons: "Cancel", "Skip", and "Next >" (which is highlighted with a green rectangular border).

23. The next screen will ask for the **Email Password**. Again, if your Email server requires authentication, enter the password here and click **Next**. If it does not, you can click **Skip**.



The screenshot shows a dialog box titled "Email Wizard" with a close button (X) in the top right corner. The main text reads: "Please enter or select a value for *Email User Password*". Below this, it says: "To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list." There are two input options: "Static:" followed by a text box containing the word "Password", and "Dynamic:" followed by a button that says "Click here to select variable (dynamic) information". At the bottom of the dialog, there are three buttons: "Cancel", "Skip", and "Next >". The "Next >" button is highlighted with a green border.

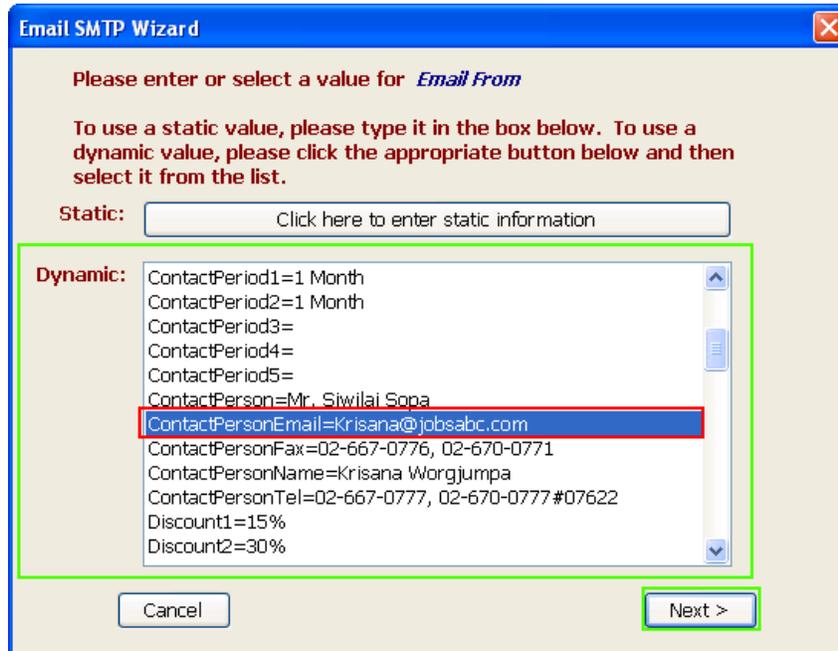
24. The following screen asks for the email address that the email will be sent from. Here we would like to use data that is available in the data stream instead of a static value. To do so, we first must click the "**Click here to select variable information**" button.



The screenshot shows a dialog box titled "Email SMTP Wizard" with a close button (X) in the top right corner. The main text reads: "Please enter or select a value for *Email From*". Below this, it says: "To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list." There are two input options: "Static:" followed by an empty text box, and "Dynamic:" followed by a button that says "Click here to select variable (dynamic) information". At the bottom of the dialog, there are two buttons: "Cancel" and "Next >". The "Click here to select variable (dynamic) information" button is highlighted with a red border.

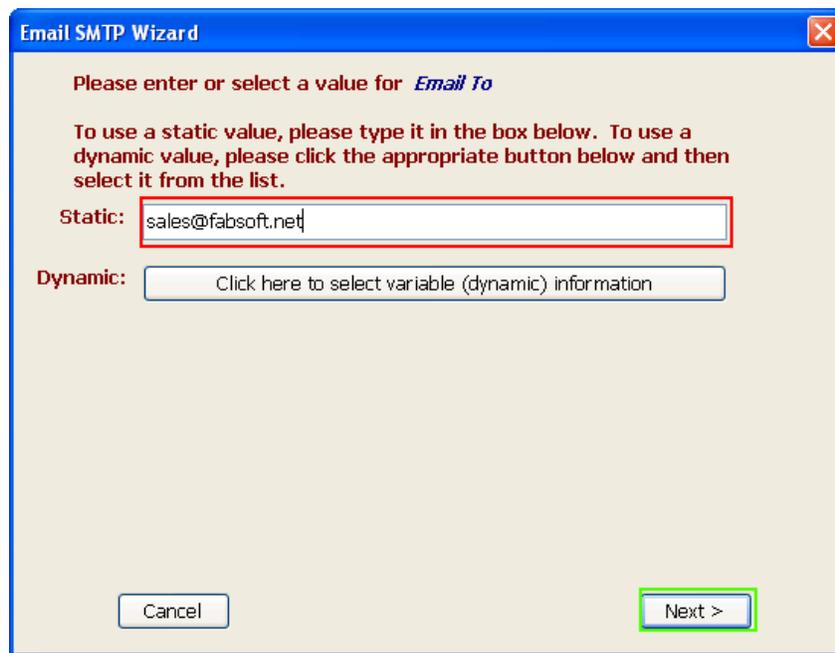
*Note-After doing so, we see that a list will appear with the different fields that you can choose for your variable data. If you want to go back to static input mode, you can do so by clicking the appropriate button for static information and then typing it in.

25. Now we want to use **ContactPersonEmail** as our “**Email From**” value. Select **ContactPersonEmail** from the list. You will have to scroll down to see it. Click **Next**.



The screenshot shows the 'Email SMTP Wizard' dialog box. The title bar reads 'Email SMTP Wizard'. The main text says: 'Please enter or select a value for *Email From*'. Below this, it instructs: 'To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list.' There are two sections: 'Static:' with a text box containing 'Click here to enter static information', and 'Dynamic:' with a list box. The list box contains the following items: 'ContactPeriod1=1 Month', 'ContactPeriod2=1 Month', 'ContactPeriod3=', 'ContactPeriod4=', 'ContactPeriod5=', 'ContactPerson=Mr. Siwilai Sopa', 'ContactPersonEmail=Krisana@jobsabc.com' (highlighted with a blue selection bar), 'ContactPersonFax=02-667-0776, 02-670-0771', 'ContactPersonName=Krisana Worgjumpa', 'ContactPersonTel=02-667-0777, 02-670-0777 #07622', 'Discount1=15%', and 'Discount2=30%'. At the bottom, there are 'Cancel' and 'Next >' buttons.

26. The next screen will ask for the email address that the email should be sent to. Enter an email address that you can check (Ex. your own personal email address). Click **Next**.



The screenshot shows the 'Email SMTP Wizard' dialog box. The title bar reads 'Email SMTP Wizard'. The main text says: 'Please enter or select a value for *Email To*'. Below this, it instructs: 'To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list.' There are two sections: 'Static:' with a text box containing 'sales@fabsoft.net', and 'Dynamic:' with a text box containing 'Click here to select variable (dynamic) information'. At the bottom, there are 'Cancel' and 'Next >' buttons.

27. Next, it will ask you to enter email addresses for **Carbon Copies**. Click the **Skip** button.
28. Next, it will ask you to enter email addresses for **Blind Carbon Copies**. Click the **Skip** button.
29. Next, it will ask you to enter the **Return Email Address**. Click the **Skip** button.
30. Next, it will ask for the email **Subject**. Select the object **Remark**. To select an object, first click "**Click here to select variable data**" and then the object list will be shown. You will have to scroll down to see **Remark**. Click **Next**.

Email SMTP Wizard

Please enter or select a value for *Subject*

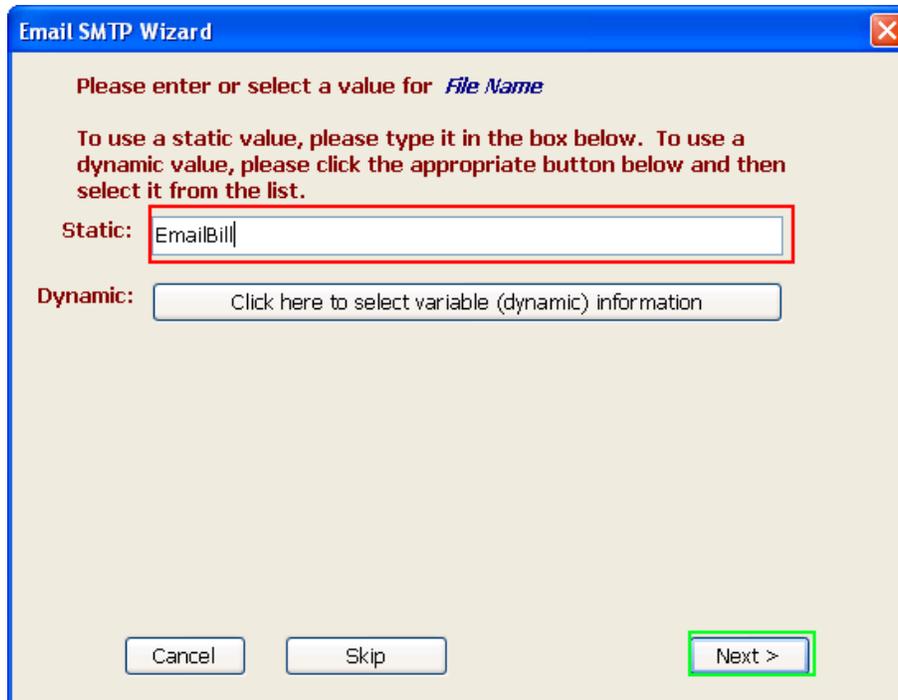
To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list.

Static:

Dynamic:

- RegularPrice3=
- RegularPrice4=
- RegularPrice5=
- Remark=*Sep Promotion valid Sep,2008* / RF111 free refresh**
- RequiredStartDate=10/15/2008
- TelNo=02-888-8888-8
- Title=Post Jobs
- VatIncluded1= \$45.475.45
- VatIncluded2= \$56.175
- VatIncluded3=
- VatIncluded4=
- VatIncluded5=

31. Next, it will ask for the file name of the attachment. Enter the value **EmailBill**. Click **Next**.



Email SMTP Wizard

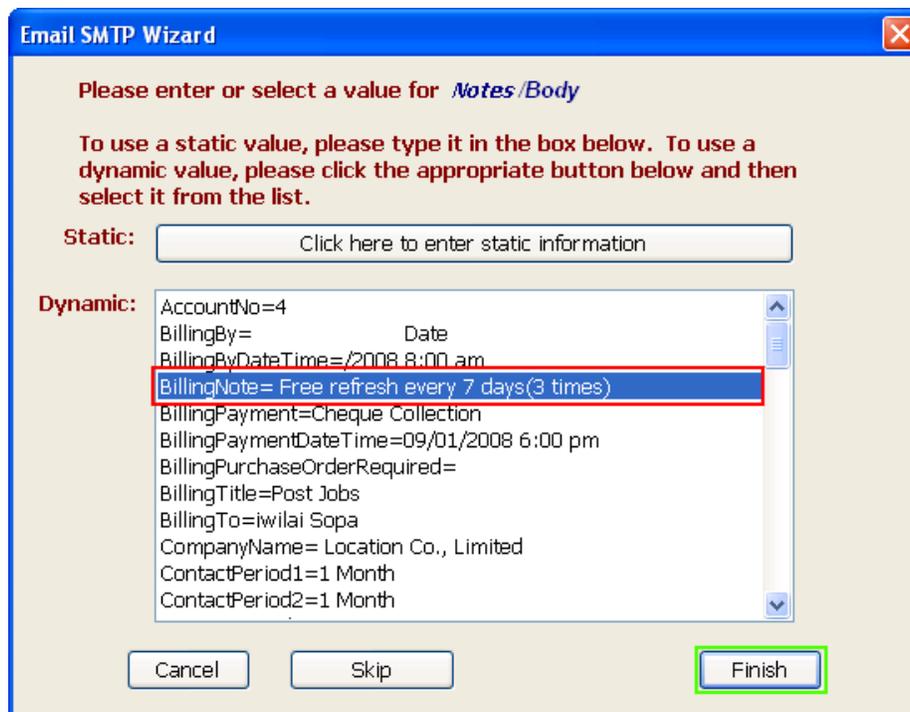
Please enter or select a value for *File Name*

To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list.

Static:

Dynamic:

32. The last screen will ask for the message body of the email. We want to select the object **BillingNote**. To select an object, first click **“Click here to select variable data”** and then the object list will be shown. Select **BillingNote** from the list. Click **Finish**.



Email SMTP Wizard

Please enter or select a value for *Notes /Body*

To use a static value, please type it in the box below. To use a dynamic value, please click the appropriate button below and then select it from the list.

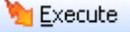
Static:

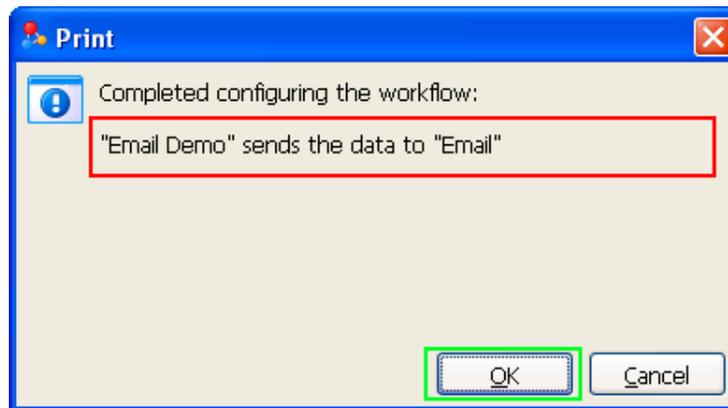
Dynamic:

33. You have completed configuring your simple Email workflow. Your 2 objects (“Email Demo” and “Email”) should both be green meaning they have been successfully configured and the workflow is ready to be created.



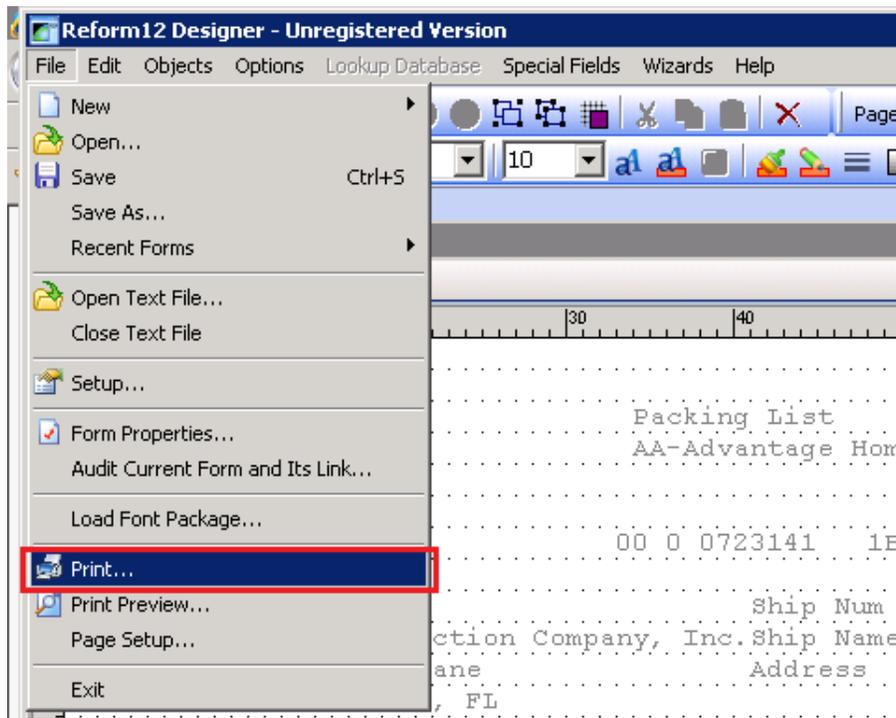
34. To make all the appropriate forms and changes, we must execute the workflow.

This is done by clicking the “Execute” button  on the menu bar. After execution, you will be notified of the configuration that has taken place. Click **OK**.



35. You can now close the Workflow Designer. When prompted, you may save your workflow so that you can go back to reconfigure it at a later time. Your form has been saved in your default forms directory. A backup of your original **Email.FOM** file has been copied to the “**Workflow Designer Original Forms**” folder in your forms directory. **Any permanent form changes should be made to this original form as it is used throughout the form configuration process as a template. If any updates or changes are made to this template, you must execute the workflow again for your changes to appear in the forms.**

36. To test out your settings and make sure that emails can be sent, first we should open the form with the Reform Designer. Navigate to your Forms directory and double click on **Email.FOM**. When asked to open the associated TextFile, click **Yes**.
37. Verify that the special fields exist on the right hand side of your form. Then go to **File>Print**. Reform will use the information on the objects that were just added to your form to process and send the email.



The email should be sent to whichever address you entered for the EmailTo during the configuration with the Workflow Designer. The time it takes for the email to be sent will vary depending on the speed and workload of the email server you are using. If you do not receive an email after a minute or two, verify that the RM_Email_Monitor service is running and has the correct service logon account. For more information about the service, please see the Reform Email Monitor Service section. If the service is running and you're still not receiving emails please refer to the Troubleshooting section of this manual. This concludes the basic setting up and sending of an email. To experiment with more advanced options such as carbon copies and blind carbon copies, read on to the next section to learn about different fields and how you can work with them to perform more advanced email operations.

Descriptions of Setup Wizard Fields

The setup wizard can be run by going to File>Page Setup, and then by clicking the **Setup** button in the bottom of the window under **Send To Devices**. You can also access this setup by using the Workflow Designer to reconfigure the objects you just added.

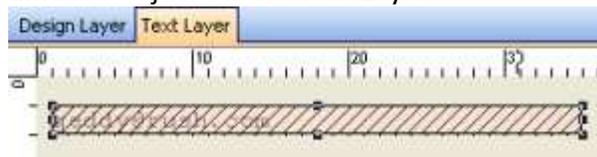
- Email Server – This is the name or IP address of the email server that emails will be sent from.
- Email User Name – If your email server requires authentication, the user name to authenticate with is entered here.
- Email User Password – If your email server requires authentication, the password to authenticate with is entered here.
- Email From – When a user receives an email, this is who the email will appear to have been sent from.
- Email To – The email address that the email will be sent to. If you are entering multiple email addresses, separate them with commas. For example: user1@fabsoft.com, user2@fabsoft.com, user3@fabsoft.com.
- Email CC – In this field, one or several email addresses may be entered to have the email carbon-copied to different email addresses. Email BCC – Same functionality as Email CC, except this will blind carbon copy everyone on the list. Separate multiple email addresses with a comma.
- Return Email – Specifies the return address when a user replies to an email they received from the Reform Email plug-in.
- Subject – Specifies the subject of the email that will be sent out by the Email Plug-in.
- File Name – Sets the file name of the email attachment.
- Notes – The message body of the email.

Descriptions of Designer Email Fields

The following is a list of available email fields. These fields are found under the Special Fields menu.

1. **EmailTo:** This field is used to capture the email address of the recipient. This can be used on the Text Layer or on the Design Layer. When used on the Text Layer, it will use the email address that this object highlights. When used on the Design Layer, you can supply a static email address, or, use the Company Look-up option to fill in the email address. Please see the Reform Manual for more information about Lookups.

EmailTo object on the Text Layer



(EmailTo objects on the Design Layer will show up as special fields with red text)

2. **EmailFrom:** This field is used to supply a specific sender's email address. This object can be used on both Text and Designer Layers.
3. **Subject:** This field is used to supply a subject for the email.
4. **Notes:** This field is used to include any information that you may want to add to the body of the email.
5. **Company Lookup:** This field is used to find an email address and other information in the Lookup Database. This field can be used on the Text or Design Layer. If the EmailTo field is empty, Reform will use the Lookup Database to find the email address. If you wish to use only the Lookup Database, place the EmailTo field in the Design Layer and remove the text information in the object.

System Specific Fields: Some systems have fields that will need to be added manually. To add the fields manually, add a Design/Linked Text Object to the appropriate layer and rename the text object accordingly. For more information on the system specific field, please refer to the email system's respective section.

Maintenance

There are certain directories and SQL tables that need to be monitored for growth along with the Email plugin for Reform 12. As a system processes more and more jobs, the size of these directories and SQL tables can grow very quickly. Overall system performance can be affected by the large amounts of space that the files may take up. Also, there exists a 4GB database limit if using the Microsoft SQL Server Express 2005 supplied with this installation. Obsolete files/database entries should be deleted according to your needs and file retention specifications. It is recommended to monitor the following directories and SQL tables for growth:

Directories:

C:\Program Files\Reform...\Backups
C:\Program Files\Reform...\Spooler\ImageQueue
C:\Program Files\Reform...\Plugins\Email \Attachments

SQL Tables:

Reform_Email_Status
Reform_Email_Trans

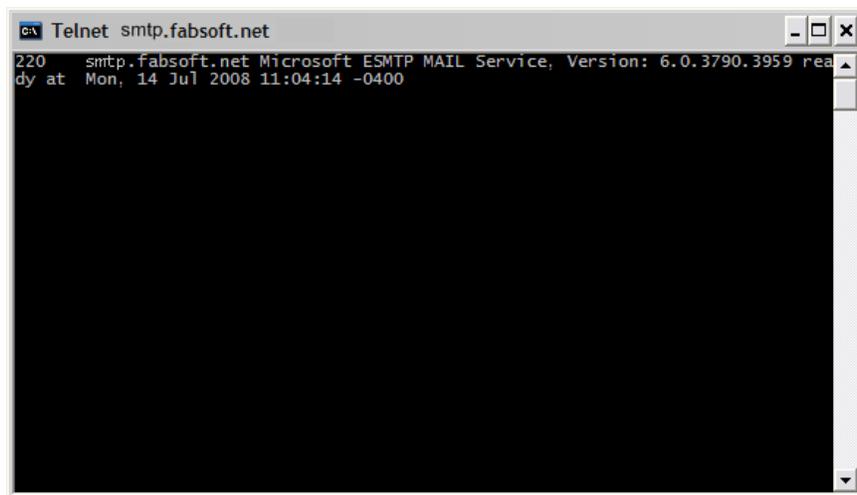
Troubleshooting

Q: *The SMTP server cannot be reached.*

A: The first thing that you should do if you are not receiving emails is test to see if the SMTP server is functioning properly and can be reached from the Reform server. Telnet, which may not be installed by default on all systems, can be used to verify connectivity. If installed, go to Start>Run, enter **cmd**, and press OK. In the command prompt, type:

```
telnet <your smtp server here> 25  
Example: telnet mail.yourcompany.com 25
```

and press Enter. You should see a connection established message in the command prompt, similar to the one below:



```
CA Telnet smtp.fabsoft.net  
220 smtp.fabsoft.net Microsoft ESMTPL MAIL Service, Version: 6.0.3790.3959 ready at Mon, 14 Jul 2008 11:04:14 -0400
```

If you cannot connect to your SMTP server on port 25 (the default SMTP port), then the server is not reachable from the Reform server, and as such, the email will not be able to be sent.

Q: *The SMTP server is rejecting my authentication username/password.*

A: Be sure that you entered the username and password correctly in the setup wizard. To do this, open up your form in the Designer, go to File>Page Setup, and click the **Setup** button under Send-To Devices. Step through the prompts of the setup wizard and check to make sure the values are correct for authentication.

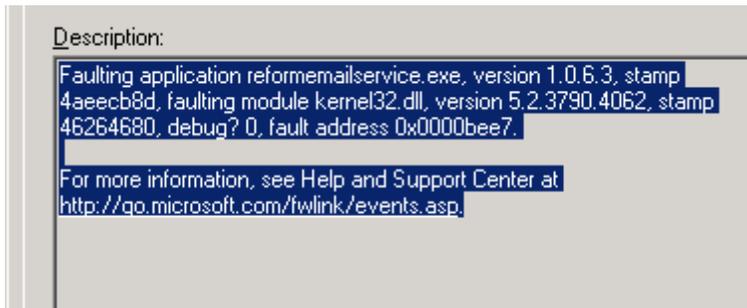
Q: *Where can I view the Exchange 2003 webmail interface?*

A: The URL is <http://<EMAILSERVERNAME>/Exchange/>. This will prompt you for a username and password. You can also try [http://<EMAILSERVERNAME>/Exchange/<USERNAME or USERALIAS>/](http://<EMAILSERVERNAME>/Exchange/<USERNAME or USERALIAS>)

Q: Nothing is happening after the form is processed. How can I determine the cause of an issue?

A: Check the Event Log for errors related to Reform or the Reform Email Service. The Event Log can be access by going to Control Panel > Administrative Tools > Event Log. This will usually give you a good idea about why the emails might be failing.

Note: If the error below occurs, Go to Control Panel > Administrative Tools > Services and try using a different account to run the ReformEmailService, such as your windows local administrator account. To change the log on information, right click on ReformEmailService>Properties>Log On tab and type in the account you want to use. Click Ok and restart the service.



Q: Emails are not being received; no authentication is required on my SMTP server.

A: Check the relay settings on your SMTP server to ensure the Reform server has the appropriate permissions. Also make sure that any fire/anti-virus software is disabled.