

iConnect ebXML Client System



User Manual

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I. INSTALLATION SETUP GUIDE

I.A. System Requirements

1. Pentium III 450Mhz or higher or equivalent CPU. At least 128 MB RAM.
2. Operating System: Any Operating System that supports Java Runtime Environment (JRE) 1.4.1 or higher.

Sample Operating Systems supported are:

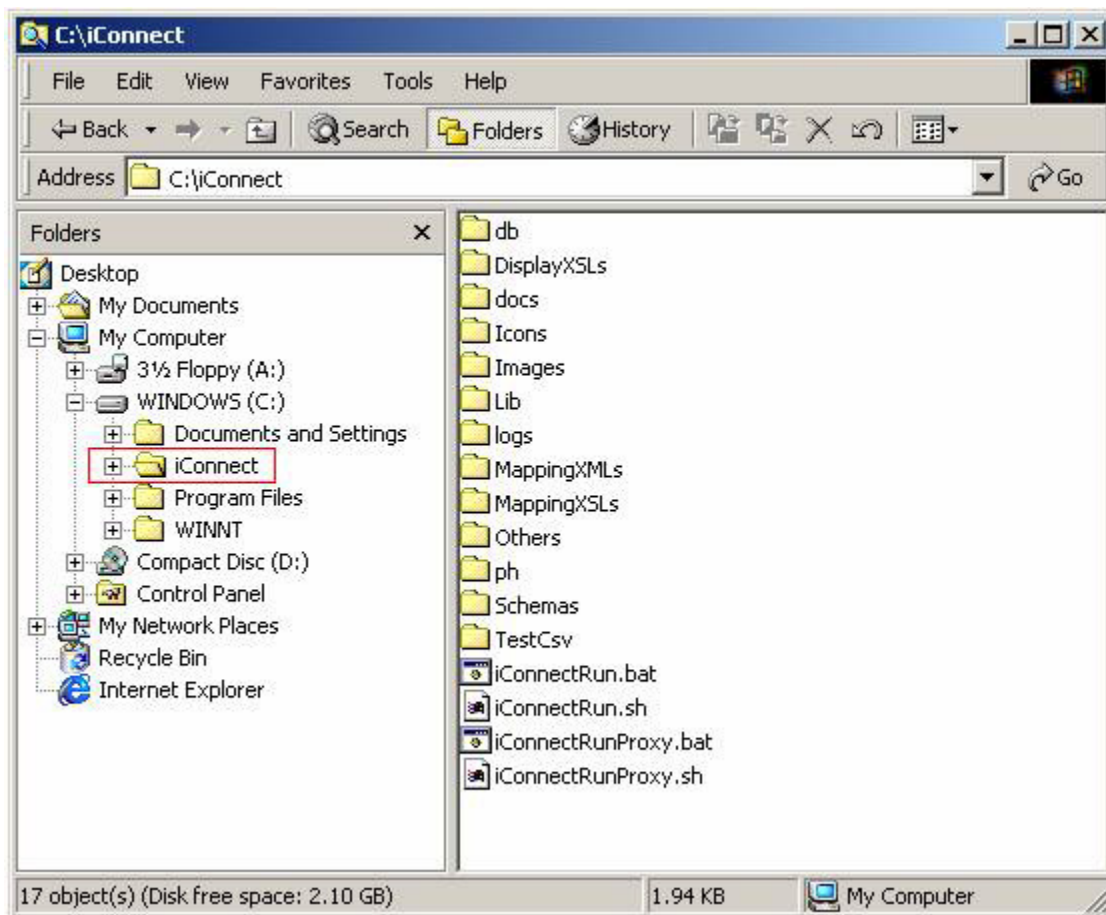
- Windows 95, 98, ME
 - Windows NT 4.0 service pack 5
 - Windows 2000
 - Windows XP
 - Linux Intel kernel v2.2.12
 - Solaris
3. Minimum screen area setting is 800 x 600 pixels. Recommended value is 1024 x 768 for better viewing of the interface.

I.B. Installing & Running the iConnect Client System

1. Install the Java Runtime Environment using the JRE installer included in the zip file or downloaded from <http://java.sun.com/downloads.html>. To check whether the JRE is installed in the system, run "java -version" on the command-line prompt. If JRE is properly installed, you should see the following output at the screen:

```
C:\>java -version
java version "1.4.1_01"
Java(TM) 2 Runtime Environment, Standard Edition (build 1.4.1
Java HotSpot(TM) Client VM (build 1.4.1_01-b01, mixed mode)
```

2. Extract the iConnect zip file to a specified directory location. This extraction will create the iConnect folder which contains the needed files to run the application. For example, extracting the zip file to C:\ will create iConnect folder in that directory.



3. Run the iConnect Client App:

- a) Windows Explorer
Go to the iConnect folder and double-click **iConnectRun.bat** file.
- b) Command Line
Go to the iConnect folder, type **iConnectRun.bat** and then press Enter.
- c) To run iConnect on Linux, use this command inside the iConnect folder:

```
$ sh ./iConnectRun.sh
```

Note: Make sure that the file's executable permission is set correctly. You can issue this command to make the script file executable to all users:

```
chmod 777 iConnectRun.sh
```

4. After launching the iConnect, the application will check if the JRE's security file is updated. iConnect will automatically update JRE's security settings that will be used during runtime. A message will be prompted that the security settings was updated. Just restart the application after it shutdowns.

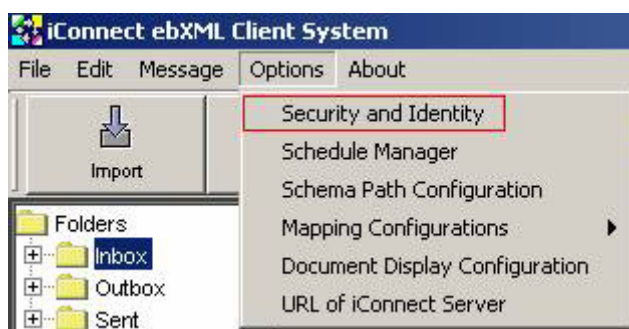


I.C. Setting Up Your Company's Identity (Generating Key Pairs)

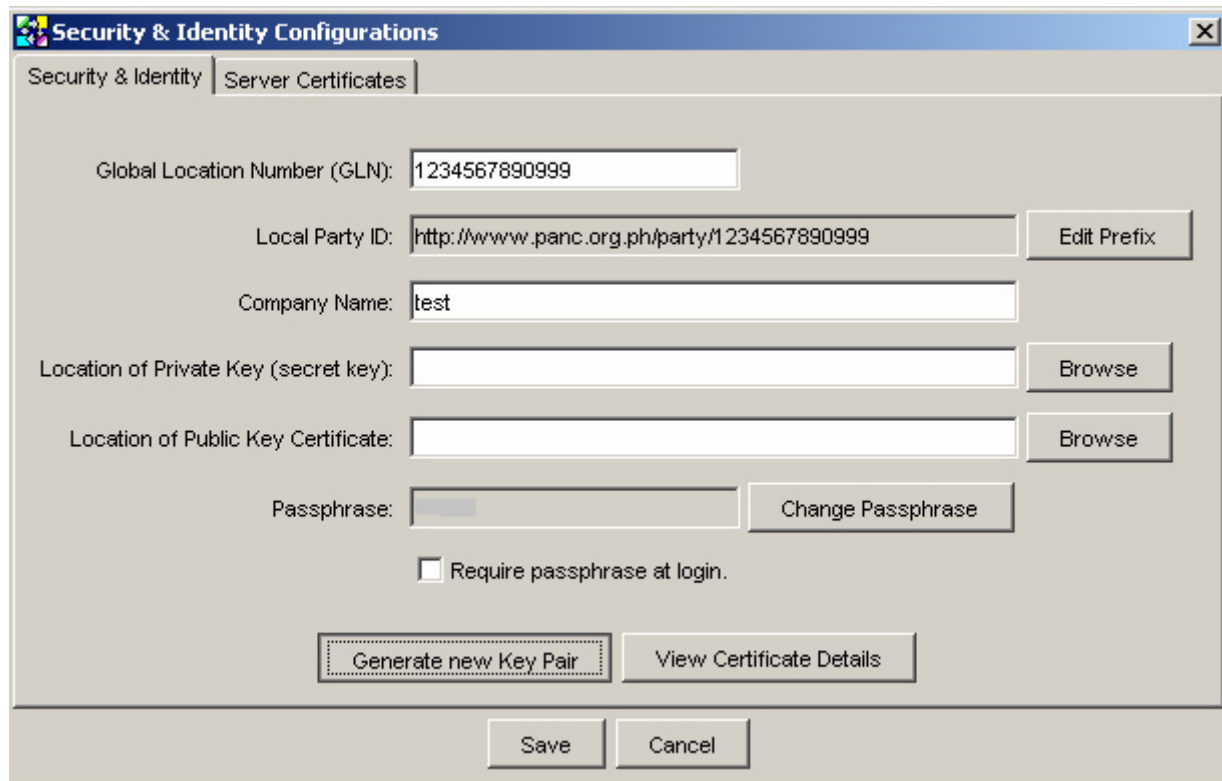
Public and Private keys generated by your iConnect Client app will be used to identify your client PC when accessing the message service of the iConnect Server.

Please follow these steps to generate the key pairs:

1. Go to **Options > Security & Identity** at the menu options to launch the **Security & Identity Configurations** window.



2. Below is the Security & Identity Configurations. Click the **Security and Identity** tab to view the Security & Identity settings.



Security & Identity Configurations

Security & Identity | Server Certificates

Global Location Number (GLN): 1234567890999

Local Party ID: <http://www.panc.org.ph/party/1234567890999> Edit Prefix

Company Name: test

Location of Private Key (secret key): Browse

Location of Public Key Certificate: Browse

Passphrase: Change Passphrase

☐ Require passphrase at login.

Generate new Key Pair View Certificate Details

Save Cancel

Global Location Number (GLN): a 13-digit number used to uniquely identify a location.

- a.) Specify the Global Location Number or GLN of your company to set the Local Party ID to be used by the application.

Local Party ID: identification name that will be registered to the iConnect server. It consists of the URL prefix <http://www.panc.org.ph/party/GLNnumber>

- a.) By default, the prefix of the Local Party ID is <http://www.panc.org.ph/party/>. Click the Edit Prefix button if you want to replace the prefix specified.

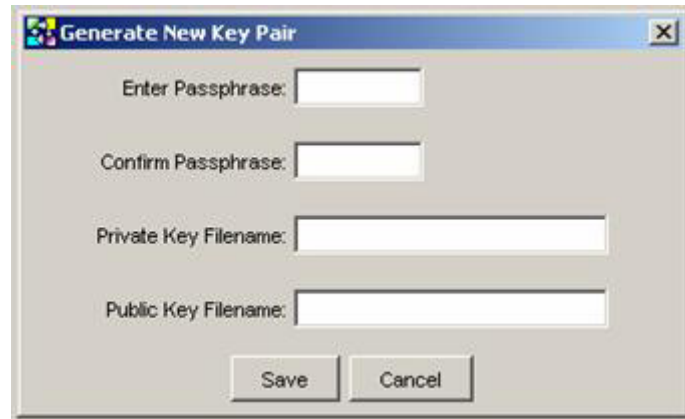
Company Name: Specify the company name.

Location of Private Key (secret key): contains the secret key file that will be used to identify the client user to the iConnect server.

Location of Public Key certificate: contains the certificate file which is issued after authenticating the public key file.

Passphrase – private key password

3. Click the **Generate new Key Pair** button to launch the Generate New Key Pair dialog box. Fill-up the following fields:

A screenshot of a Windows-style dialog box titled "Generate New Key Pair". It contains four text input fields: "Enter Passphrase:", "Confirm Passphrase:", "Private Key Filename:", and "Public Key Filename:". At the bottom, there are two buttons: "Save" and "Cancel".

Enter Passphrase - Password for the Public and Private Key and for login access in the iConnect client application.

Private Key Filename – Filename of the Private key to be generated. Note that the extension name **.sk** will be automatically added at the end of the filename you specify. The Private key file will be saved at the **PrivateKeys** folder inside the iConnect application folder.

Public Key Filename – Filename of the Public key to be generated. Note that the extension name **.pk** will be automatically added at the end of the filename you specify. The Public key file will be saved at the **PublicKeys** folder inside the iConnect application folder.

Use file naming scheme to distinguish different key pair versions

Ex. Public key = company01.pk, company02.pk
 Secret key = company01.sk, company02.sk

4. Click the **Save** button to generate the key pairs. This will take some minutes to finish depending on the speed of your computer.
5. After the key pairs are generated, click the **Save** button at the **Security & Identity Configurations window** to set your identity. This action might require you to restart the iConnect application.

It is important that you keep the **Private Key** (key pair with the .sk extension name) file from getting deleted or used by unauthorized persons. We recommend that you backup this file and take note of its passphrase. You can store the file in an access-secured directory or in a diskette. Just click the Browse button at the Security & Identity settings to specify the location of the Private/Secret key if you want to use it from a diskette of another folder.

The **Public Key** (key pair with the .pk extension name) file must be submitted to the iConnect System Administrator for authentication, otherwise the client app will not be able to access the iConnect server. Send an email to scni@asia.com with the **attached Public Key file** and specify the following needed information in the email content:

CN (Common Name)	=	Local Party ID used in generating the Public and Private keys
OU (Organizational Unit)	=	Type of Organization Unit (ex. Food Manufacturing, Semi-Conductor Firm)
O (Organization)	=	Name of Organization / Company
L (Locality)	=	City
ST (State)	=	State/Province
C (Country)	=	Two-Letter Country Code

Here's an example Public Key application info assuming that the Local Party ID is <http://www.panc.org.ph/party/1234567890999> (GLN is 1234567890999):

CN = <http://www.panc.org.ph/party/1234567890999>
OU = Food Manufacturing
O = My Company
L = Quezon City
ST = Metro Manila
C = PH

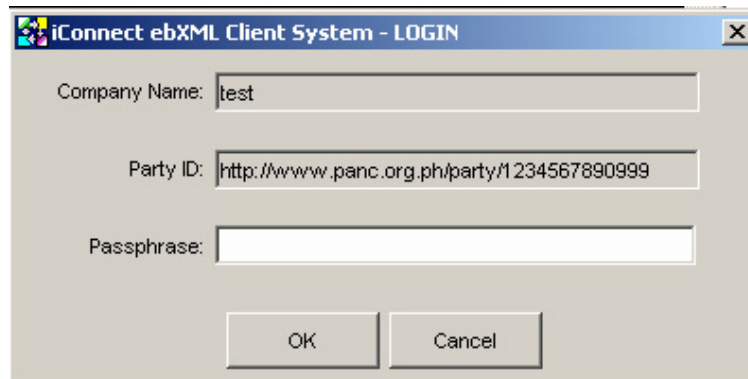
The iConnect System Administrator will notify you as soon as the Public Key is authenticated.

Note: There is no need to click the **Generate new Key Pair** button when your Public Key is already authenticated by the iConnect System Administrator. All you have to do is simply indicate the location of your private key and public key certificate, set its **valid** passphrase and then click the **SAVE** button.

The screenshot shows a Windows-style dialog box titled "Security & Identity Configurations" with a close button (X) in the top right corner. The "Server Certificates" tab is selected. The dialog contains several input fields and buttons:

- Global Location Number (GLN):** A text box containing "1234567890999".
- Local Party ID:** A text box containing "http://www.panc.org.ph/party/1234567890999". To its right is an "Edit Prefix" button.
- Company Name:** A text box containing "test".
- Location of Private Key (secret key):** A text box containing "C:\iConnect\test_cer\test.sk". To its right is a "Browse" button.
- Location of Public Key Certificate:** A text box containing "C:\iConnect\test_cer\test.cer". To its right is a "Browse" button.
- Passphrase:** A text box. To its right is a "Set Passphrase" button.
- Require passphrase at login:** A checkbox that is checked.
- Buttons at the bottom:** "Generate new Key Pair", "View Certificate Details", "Save", and "Cancel".

6. When you restart the application again, you will be prompted to enter the **Passphrase** for your Private Key file. Enter the valid passphrase to login.

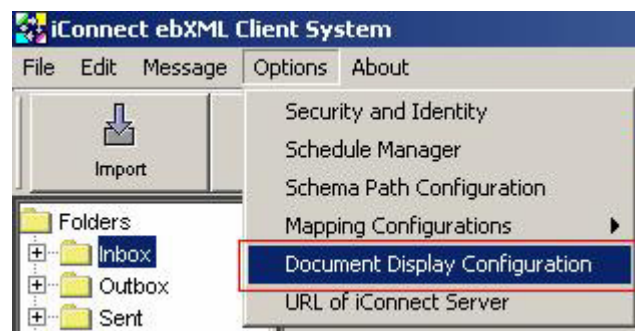


The image shows a login dialog box titled "iConnect ebXML Client System - LOGIN". It contains three text input fields: "Company Name" with the value "test", "Party ID" with the value "http://www.panc.org.ph/party/1234567890999", and "Passphrase" which is currently empty. At the bottom of the dialog are two buttons: "OK" and "Cancel".

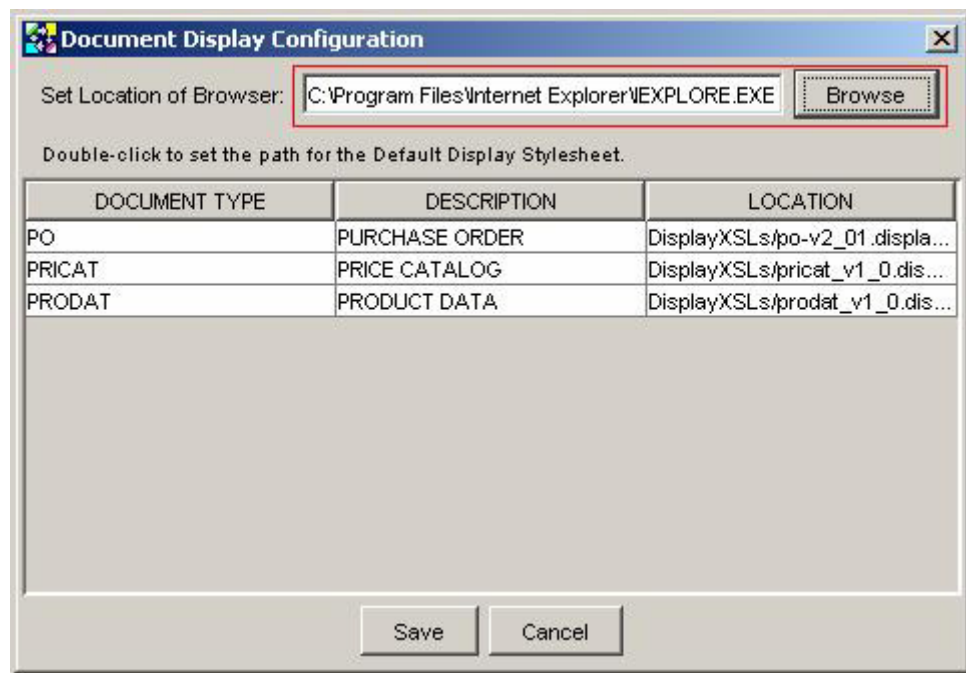
I.D. Configuring the Display Style Sheets and Internet browser application

Display Style sheets are used to format the XML message for HTML view using the Internet Browser. Follow these steps to set the preferred display style sheets for each document type.

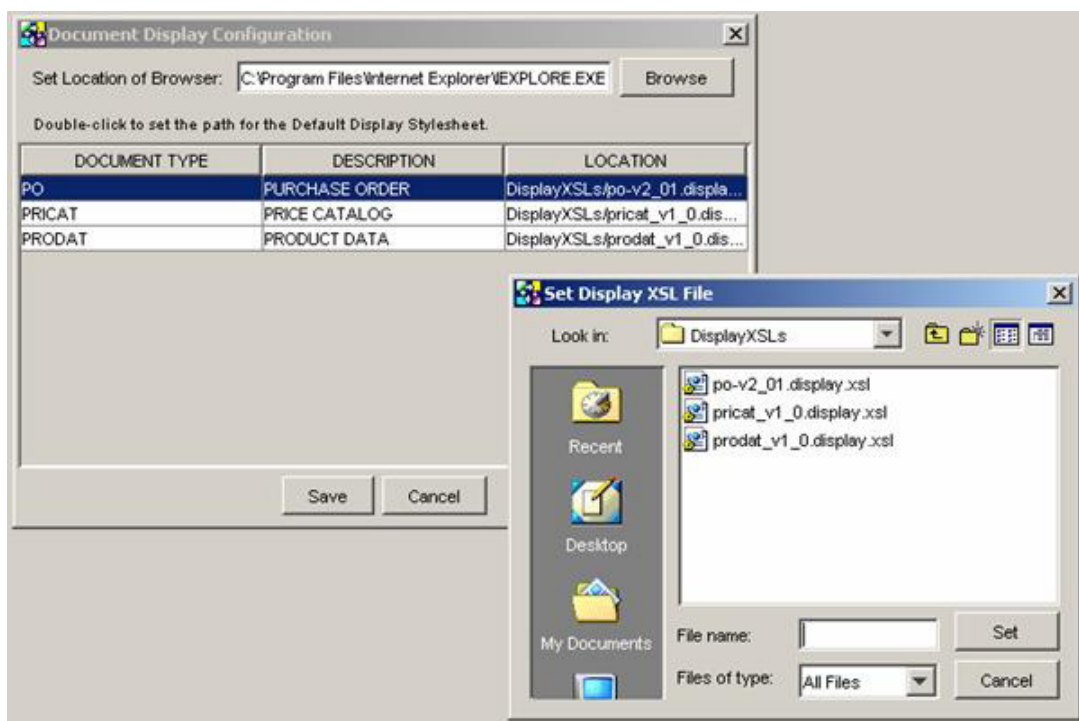
1. Go to **Options > Document Display Configuration** to launch the Document Display Configuration window.



2. By clicking the Browse button, set the location of the Internet browser application that will be used for viewing the XML messages in HTML format (e.g. Internet Explorer or Netscape for Windows, Konqueror or Mozilla for Linux).



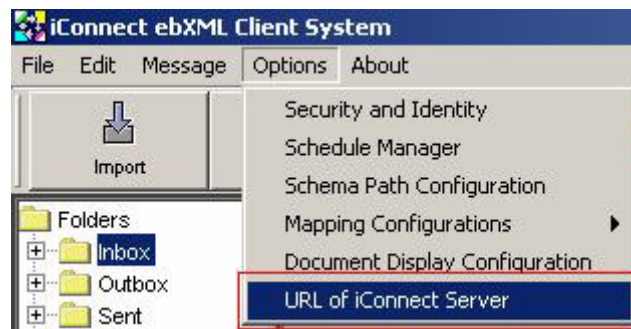
3. Set the Display Style sheet file for a particular document type by double-clicking the table row to launch the Set File dialog window. The default values are already set for installed document types.



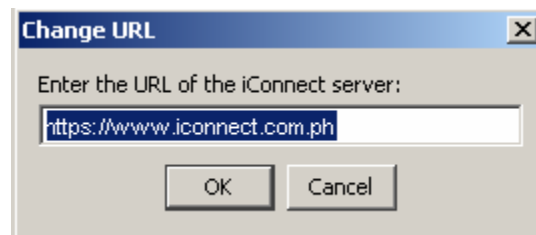
4. Click **SAVE** button.

I.E. Setting the iConnect Server URL

1. Go to **Options > URL of iConnect Server** to specify the URL location of iConnect ebXML server.

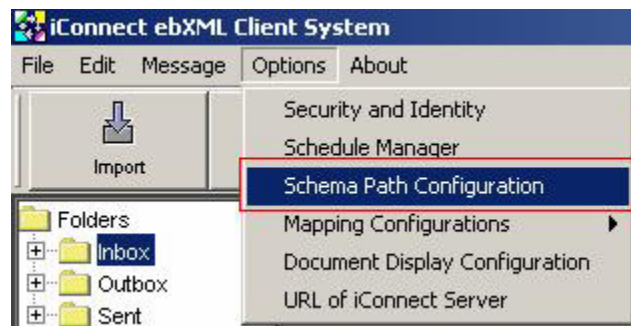


The default value is <https://www.iconnect.com.ph>.

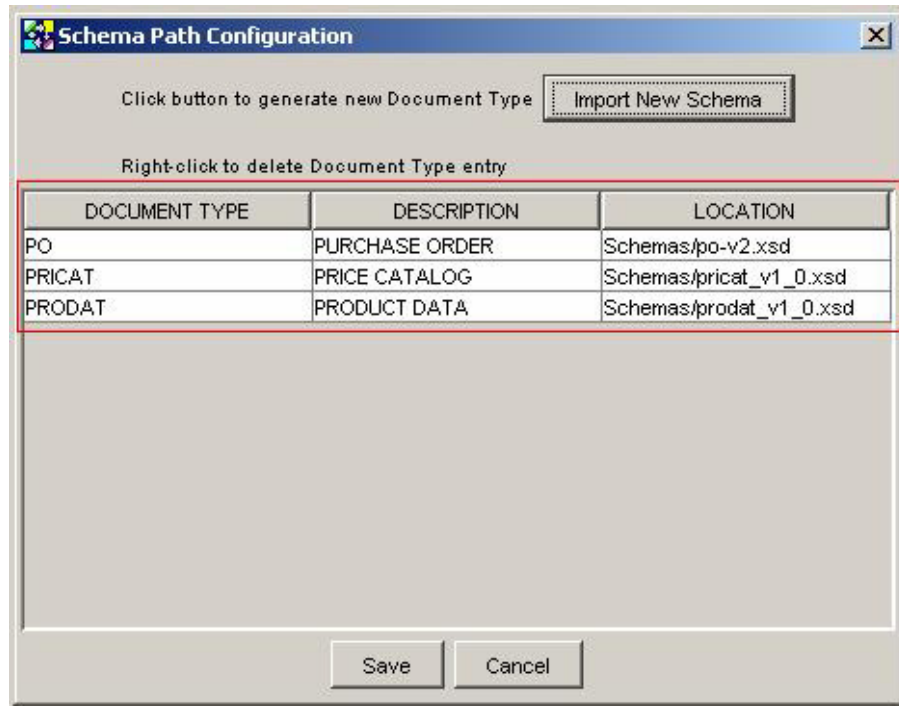


I.F. Schema File Configurations

1. Go to **Options > Schema Path Configuration** to launch the window for viewing/importing the schema files that will be used to define the document type messages in the iConnect system.



2. By default there will be Document Types already installed in the system. You can find the schema files for these document types by referring to the Location column.



3. To create new document type, click on the **Import New Schema** button to launch the dialog window for importing the new schema file.



4. Fill up the following text fields and then click the Import button to create the new document type based on the schema file:

Document Type – name of the message document.

ex. PO, PRICAT

Description – description for the message document.

ex. PURCHASE ORDER, PRICE CATALOG

Location – file location of the schema file; click the Browse button to set the schema file's location

I.G. Uninstalling iConnect Client System

To uninstall the application, simply delete the iConnect folder.

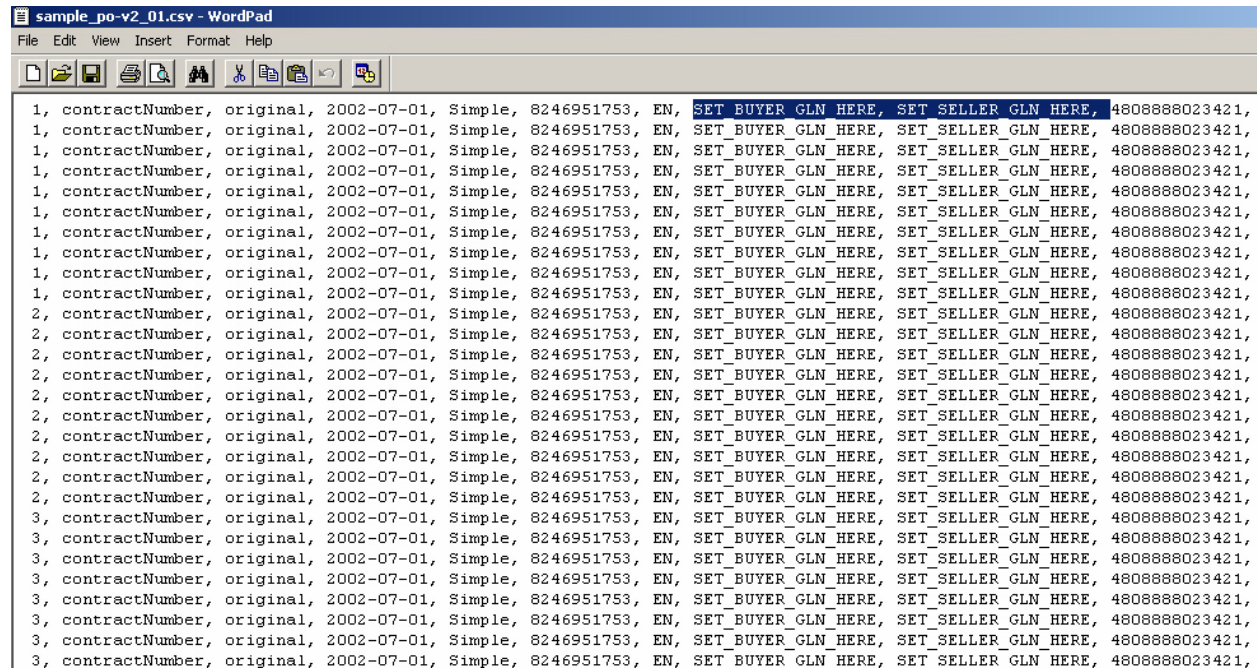
II. USING ICONNECT ebXML CLIENT SYSTEM

II.A. Sending and Receiving Messages

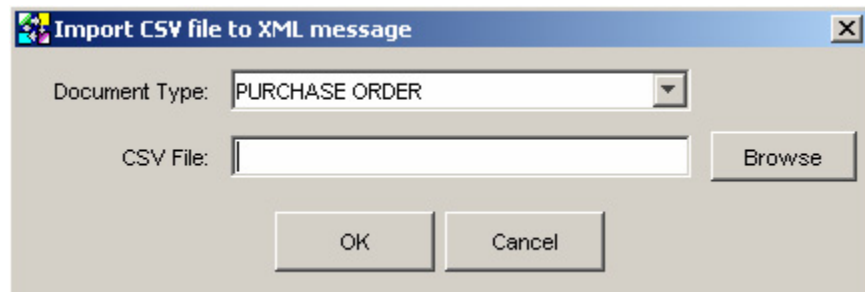
To test the iConnect ebXML Client System use the sample PO (purchase order) CSV files provided during installation found in iConnect/TestCsv/po directory.

Sending PO Messages

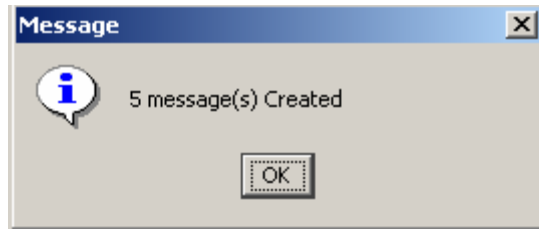
1. Before importing the sample CSV files, set first the BUYER and SELLER GLN columns in the CSV file. Replace the text SET_BUYER_GLN_HERE with the buyer/sender GLN and SET_SELLER_GLN_HERE with the seller/receiver GLN.



2. Go to **File > Import** or simply click IMPORT button to launch the Import CSV file to XML message window. This will create PO XML messages in OUTBOX folder.



3. Browse for the CSV file then click OK. You should see this message window.



4. Check your OUTBOX folder. There should be 5 messages in it.
5. Click SEND button to send PO XML messages from OUTBOX folder to iConnect ebXML server. All messages successfully sent will be archived in the SENT folder.

Receiving Acknowledgement from iConnect ebXML Server

1. Go to **File > Export** or simply click receive button to retrieve Acknowledgement messages from server.
2. All Acknowledgement messages will be placed in the ACKNOWLEDGEMENT folder.
3. These messages serve as a confirmation that the PO XML messages are now routed in the recipient's inbox at the server.

If you are able to receive the acknowledgement messages properly, your private key and public keys are properly set and your connection to the iConnect ebXML server is working.

Receiving PO XML Message

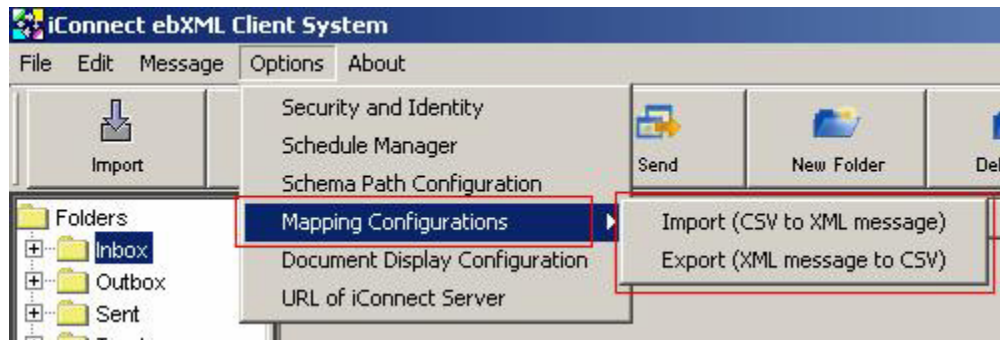
1. Click RECEIVE button to retrieve PO XML messages from the server. All PO XML messages will be placed in the INBOX folder.
2. Export the PO XML messages as either CSV or XML file by selecting a file and clicking the EXPORT button.

II.B. Mapping Configurations

Default mapping configurations for the pre-installed document types are already specified for your convenience. You can use these mapping configurations to import the sample CSV file inside the TestCsv directory in the iConnect folder. Reference for the mapping configurations for this CSV file is also located in the TestCsv directory.

To set iConnect on how to import CSV files to XML message and export XML message to the preferred CSV format, specify the appropriate mapping columns for each document type.

1. Go to **Options > Mapping Configurations**. There are 2 options for this item:
 - a) **Import (CSV to XML message)** - for setting the Import mapping configurations.
 - b) **Export (XML message to CSV)** - for setting the Export mapping configurations.

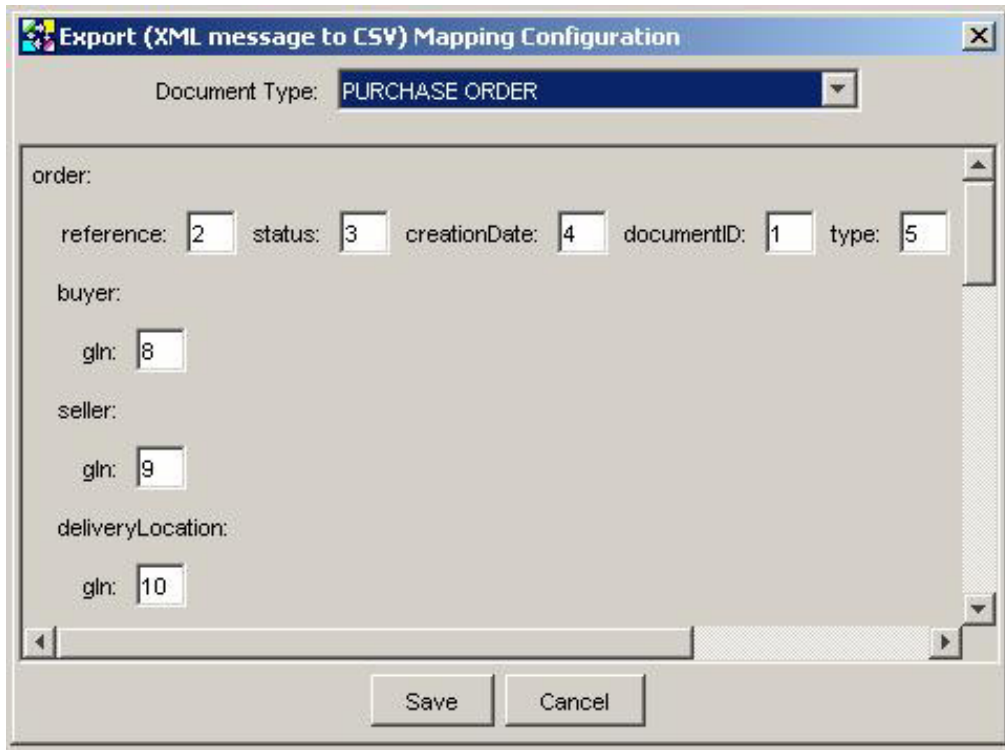


2. In the mapping configuration window, choose the document type for specifying the column numbers for each element/attribute of the XML message.
 - a) For Import mapping configurations, specify the column number where the XML element/attribute is located in the CSV file. You can leave the column number blank for optional elements/attributes so that these data will not be included in generated XML message. Be careful in specifying the column values to avoid parsing errors during import of CSV files. Duplicate column value entries are not allowed, except for the Receiver's Party ID, which is the GLN location of the receiver of your XML message document.

Description:

- a) Document Type combo box** - click on the down-arrow button to view the document type available for mapping configuration
- b) Receiver's Party ID Column value** - specify here the column number of the GLN of the receiver of this document type in the CSV file
- c) Elements/Attributes Column value** - specify here the column number of the specific elements/attributes of the XML message in the CSV file

- b) For Export mapping configurations, specify the column number where the XML element/attribute from the XML message will be placed in the generated CSV file. Take note that empty field entries are not allowed and column values should be sequential.



The image shows a dialog box titled "Export (XML message to CSV) Mapping Configuration". At the top, there is a "Document Type:" label followed by a dropdown menu set to "PURCHASE ORDER". Below this, the dialog is organized into sections for different XML elements: "order:", "buyer:", "seller:", and "deliveryLocation:". Each section contains one or more input fields for mapping to CSV columns. The "order:" section has five fields: "reference:" (2), "status:" (3), "creationDate:" (4), "documentID:" (1), and "type:" (5). The "buyer:" section has one field: "gln:" (8). The "seller:" section has one field: "gln:" (9). The "deliveryLocation:" section has one field: "gln:" (10). At the bottom of the dialog are two buttons: "Save" and "Cancel".

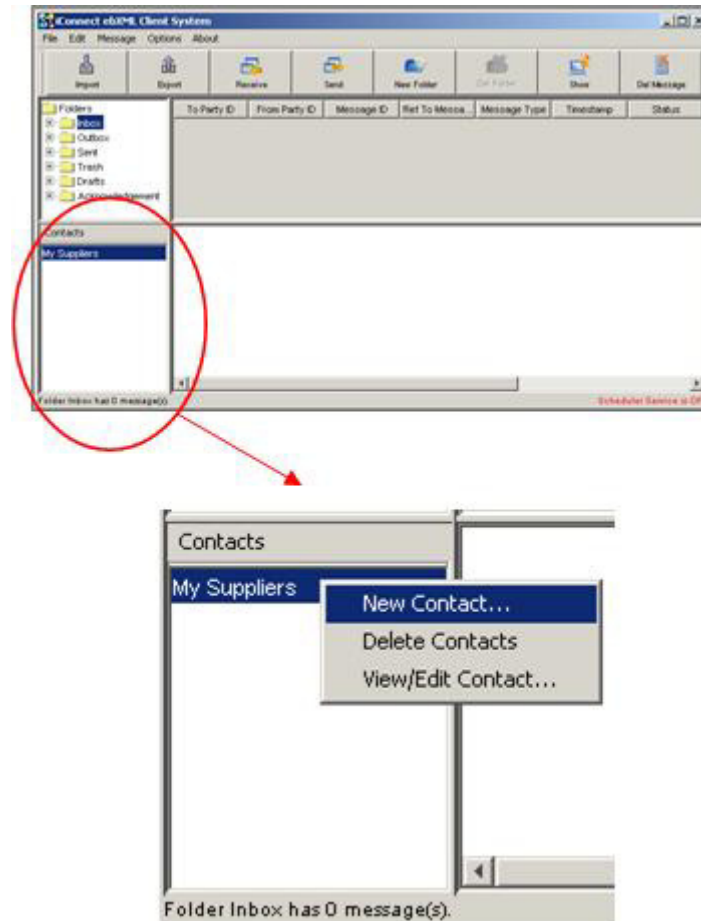
XML Element/Attribute	Column Number
order:reference	2
order:status	3
order:creationDate	4
order:documentID	1
order:type	5
buyer:gln	8
seller:gln	9
deliveryLocation:gln	10

- c) **documentID** parameter should be set always to 1.
- d) Click the **Save** button to save the settings.

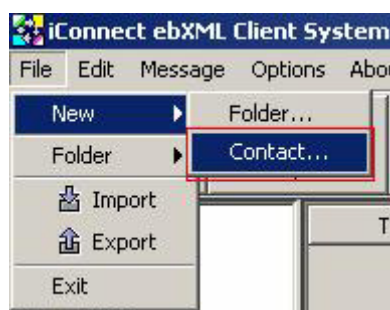
II.C. Adding New Contacts and Specifying Contact Display Style Sheets

You can add contacts containing company information such as Name and Party ID. Contacts are useful to easily identify the sender or receiver of your messages in the message grid view. You can also specify specific display style sheets for each contact.

1. Add a contact list by:
 - a) Right-clicking at the Contact List window pane. Choose **New Contact** to launch the edit window, or

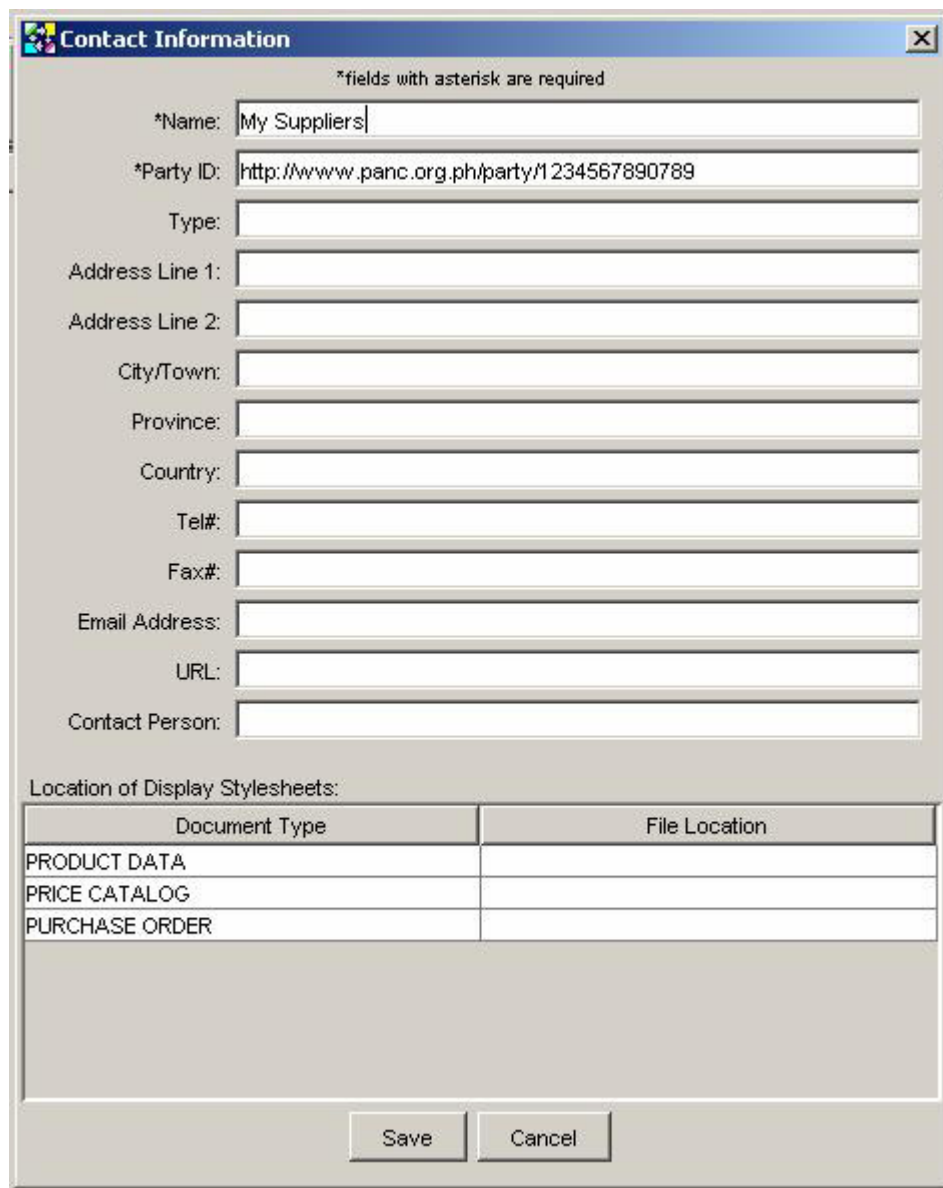


- b) Go to **File > New > Contact...** at the menu option.



2. Fill-up the text fields and then click the **Save** button when finished.

Note: **Name** and **Party ID** are required values.



The image shows a 'Contact Information' dialog box with a title bar and a close button. Inside, there's a note: '*fields with asterisk are required'. The form contains several text input fields: '*Name:' (filled with 'My Suppliers'), '*Party ID:' (filled with 'http://www.panc.org.ph/party/1234567890789'), 'Type:', 'Address Line 1:', 'Address Line 2:', 'City/Town:', 'Province:', 'Country:', 'Tel#:', 'Fax#:', 'Email Address:', 'URL:', and 'Contact Person:'. Below these fields is a section titled 'Location of Display Stylesheets:' containing a table with two columns: 'Document Type' and 'File Location'. The table has three rows: 'PRODUCT DATA', 'PRICE CATALOG', and 'PURCHASE ORDER'. At the bottom of the dialog are 'Save' and 'Cancel' buttons.

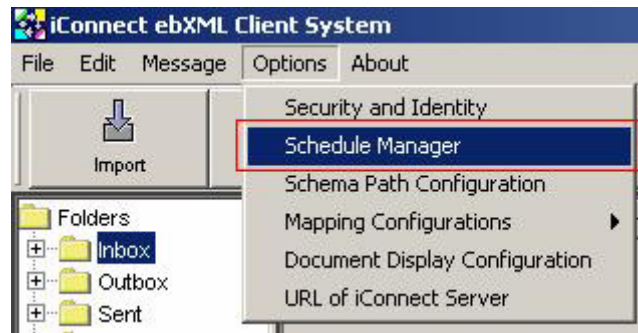
Document Type	File Location
PRODUCT DATA	
PRICE CATALOG	
PURCHASE ORDER	

3. At the bottom of the Contact editing window, you will see a grid table where you can specify display style sheet for a particular contact. Double-click on the File Location's row to launch the Set File dialog window. Choose the display style sheet file of the contact.
4. Click the Save button to save all settings.

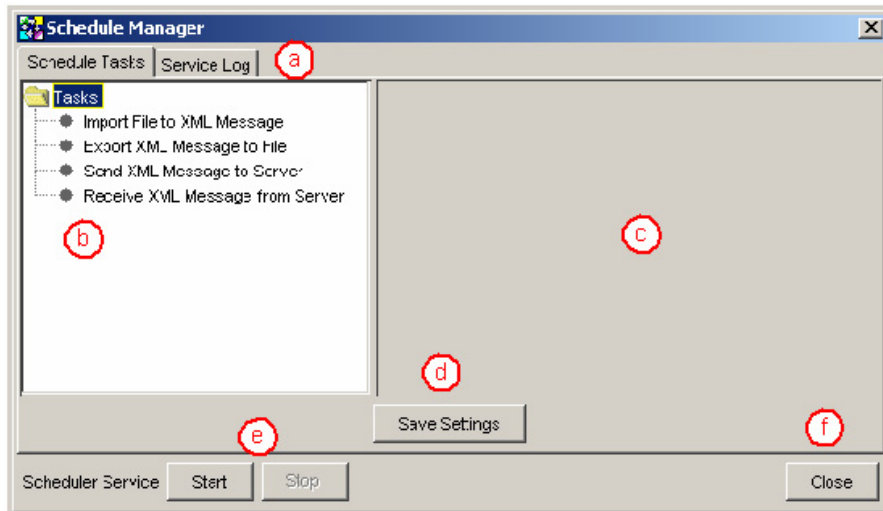
II.E. Schedule Manager

The **iConnect Schedule Manager** lets users automate the 4 basic tasks of the client system: (1) Import CSV files to generate the XML messages, (2) Send XML messages to the iConnect server, (3) Receive XML messages from the iConnect server, and (4) Export XML messages to CSV or XML files. To automate any of the 4 basic tasks, users must specify schedule entries in the Scheduler Manager. During the automated run of the specified tasks, logs will be prompted on the log screen and saved also to a file. Users can do other operations like viewing a message in HTML or XML while the Scheduler Service is running.

To set the Scheduler settings, go to **Options > Schedule Manager** to launch the Schedule Manager window.



Below is a brief description of the controls you will see in the Schedule Manager.



Description:

- a** **Schedule Task / Service Log tabs** click on these tabs to view task schedule options or Scheduler service logs.
- b** **Task List**- list of tasks that can be scheduled.
- c** **Schedule Control View** shows the controls for specifying the schedule for a particular task.
- d** **Save Settings button** click this button to save the scheduler settings for all tasks.
- e** **Scheduler Service Control buttons** start or stop the Scheduler Service by using these control buttons.
- f** **Close button**- click this button to close the Scheduler Manager window.

The following diagram shows the **Basic Schedule Controls** in the **Schedule Control View** that can be used for setting the schedule for each task.

The screenshot shows a Windows Task Scheduler 'Edit' dialog box for scheduling a task. The 'Schedule this Task for automated run' checkbox is checked (a). Under 'Set Time', the 'Per Item' radio button is selected (b). A 'Time Entry Listbox' (c) is empty. A 'Time Spinner' (d) shows '12:00 AM'. Below it are 'Add' (e) and 'Delete' (f) buttons. The 'By Range' radio button is unselected (g). The 'From' spinner (h) shows '09:00 AM' and the 'To' spinner (i) shows '06:00 PM'. The 'Interval' spinner (j) shows '1' and the unit is 'Hour'. Under 'Set Day', the 'Everyday' radio button is selected (k). Below it are 'Specify' and checkboxes for 'Mon', 'Tues', 'Wed', 'Thurs', 'Fri', 'Sat', and 'Sun'. The 'Every' spinner (l) shows '1' and the unit is 'Week(s)'. The 'Start on' date spinner (m) shows 'Jan 22, 2003 - Wed'.

Description:

- (a) Schedule Task checkbox** check this box if you want to automate the selected task in the Task List view; uncheck to disable automated run.
- (b) Set Time Per Item option** choose this option if you want to specify specific time values.
- (c) Time Entry Listbox** shows the time values that have been added.
- (d) Time Spinner**- click on the time element value that you want to change; selected element's value can be changed by clicking the tiny arrow buttons in the spinner, pressing the keyboard up/down arrow keys, or typing the value.
- (e) Add button**- click this button to add the Time Spinner value to the Time Entry listbox.
- (f) Delete button**- click this button to remove the selected time entry in the Time Entry listbox; you can select more than 1 item in the Time Entry listbox.
- (g) Set Time By Range** choose this option if you want to specify time values in a certain range.
- (h) From Time Spinner** set the start time here; similar to Time Spinner on setting values.
- (i) To Time Spinner** set the end time here; similar to Time Spinner on setting values.
- (j) Time Interval**- choose the interval of time values within specified range; time intervals can be in per hour or per minute unit.
- (k) Set Day options** specify whether the task will be execute Everyday, Weekday, or on specific days only.
- (l) Every Week interval** choose the frequency per week a task should be executed.
- (m) Start On date**- start date value wherein the task will start for automated execution.

The following diagrams describe the **Specific Controls** for Import/Export and Send/Receive. These controls can be found below the **Basic Schedule Controls** in the **Schedule Control View**.

IMPORT / EXPORT Tasks

a Location of Files C:\Exported b Change..

c File Type ☒ CSV ☐ XML

Description:

- a **Location of Files** shows the current path location of the files to be imported, and target locations for exported messages.
- b **Change button**- this will launch a File Location Chooser dialog box wherein you can specify the path location; you can also create the folder with the File Location Chooser dialog box.
- c **File Type option**- choose the type to be used for Import/Export; for Import only CSV file type is available.

SEND / RECEIVE Tasks

d Try to execute this task by 0 Attempt(s)

e Delay between attempts 0 in second(s)

Description:

- d **Number of Attempts** specify the number of attempts to execute this tasks in case there was a connection problem.
- e **Delay Between Attempts** set the delay to execute tasks between attempts.

How To Define Schedules in the Schedule Manager

There are 5 parameters that should be specified when defining a schedule in the Schedule Manager:

1. **Schedule Task Option** – parameter for specifying if the task will be scheduled for automated run.
2. **Time** – parameter for time entry values specified in the Set Time Per Time or Set Time By Range option.
3. **Day** – parameter for containing which day of the week the task will be executed.
4. **Week Frequency** – parameter for per week frequency, i.e. if the task will be executed every week, every 3 weeks, etc.
5. **Start Date** – parameter for specifying the start date of task execution.

The screenshot shows the 'Schedule Manager' dialog box with the following elements and annotations:

- Annotation 1:** A red dashed box highlights the checkbox labeled 'Schedule this Task for automated run', which is checked.
- Annotation 2:** A red dashed box highlights the 'Set Time' section. It includes a list box (empty), a time field set to '12:00 AM', 'Add' and 'Delete' buttons, and the 'By Range' section with 'From' (09:00 AM), 'To' (06:00 PM), 'Interval' (1), and a unit dropdown set to 'Hour'.
- Annotation 3:** A red dashed box highlights the 'Set Day' section. It includes radio buttons for 'Everyday' (selected) and 'Specify', and checkboxes for 'Weekdays' and individual days of the week (Mon, Tues, Wed, Thurs, Fri, Sat, Sun).
- Annotation 4:** A red dashed box highlights the frequency section, showing 'Every' followed by a spinner box set to '1' and the text 'Week(s)'.
- Annotation 5:** A red dashed box highlights the 'Start on' date field, which is set to 'Jan 22, 2003 - Wed'.

Here's an example on how to set schedules using the **Basic Schedule Controls**:

Example 1:

Task for Scheduling = Import File to XML Message

Time = 9:00 AM, 12:15 PM & 5:59 PM

Day = Every Weekdays

Week Frequency = Every Week

Start On = Today (Jan 22, 2003)

Steps:

- 1 Click the task that will be configured for scheduling.
- 2 Check the option box to specify that the selected task will be scheduled.
- 3 Click the Per Item option box to specify time entry values per item.
- 4 Change the value in the Time Spinner to specify the time value to be added. To change the value, click on the value (hour, minute or time of day indicator) and then click the tiny spinner buttons, press the up/down keyboard buttons or type the value.
- 5 Click the Add button to add the value in the Time Spinner to the Time Entry listbox.
- 6 List of time values added. To remove an item from the Time Entry list box, select the item and then click the Delete button.
- 7 Click the Weekday option.
- 8 The default value is 1 for every week. Since the task will be executed every week, we will use the default value.
- 9 Set the start date. The default value for the Start Date spinner is the current date value of the operating system. For this case, we will use the default value.

If the current OS date/time is Jan 22, 2003 WED 4:30PM, the Scheduler Service will execute the task on the next latest schedule which is Jan 22, 2003 WED 5:59PM. The table below shows the 1-week schedule that will be generated after saving the settings on Jan 22, 2003 WED 4:30PM:

DATE	TIME
JAN 22, 2003 WED	5:59 PM
JAN 23, 2003 THURS	9:00 AM
	12:15PM
	5:59 PM
JAN 24, 2003 FRI	9:00 AM
	12:15 PM
	5:59 PM
JAN 27, 2003 MON	9:00 AM
	12:15 PM
	5:59 PM
JAN 28, 2003 TUES	9:00 AM
	12:15 PM
	5:59 PM

Example 2:

Task for Scheduling = Send XML Message to Server
Time = 9:30 AM to 11:00 PM / Every 3 Hours
Day = Every Tuesday, Thursday and Sunday
Week Frequency = Every 2 Weeks
Start On = Today (Feb 14, 2003)

Steps:

- 1 Click the task that will be configured for scheduling.
- 2 Check the option box to specify that the selected task will be scheduled.
- 3 Click the By Range option box to specify time entry values by range.
- 4 Change the value in the From and To Time Spinner to specify the range. To change the value, click on the value (hour, minute or time of day indicator) and then click the tiny spinner buttons, press the up/down keyboard buttons or type the value.
- 5 Change the Interval value. To change the value, click on the tiny spinner buttons, press the up/down keyboard buttons or type the value.
- 6 Set the interval unit by clicking the down-arrow button and select whether HOUR or MINUTE unit value.
- 7 Click the Specify option and select the Day by checking the appropriate checkbox.
- 8 Change the Per Week Frequency value by clicking on the tiny spinner buttons, pressing the up/down keyboard buttons or typing the value.
- 9 Set the start date. The default value for the Start Date spinner is the current date value of the operating system. For this case, select the date parameter you want to change and then press the tiny arrow buttons, press the up/down keyboard buttons or type the value.

If the current OS date/time is Jan 22, 2003 WED 4:30PM, the Scheduler Service will execute the task on the next latest schedule which is Feb 16, 2003 SUN 9:30AM (Feb 14, 2003 is not the next latest schedule because this date falls on Friday). The table below shows the 5-week schedule that will be generated after saving the settings on Jan 22, 2003 WED 4:30PM:

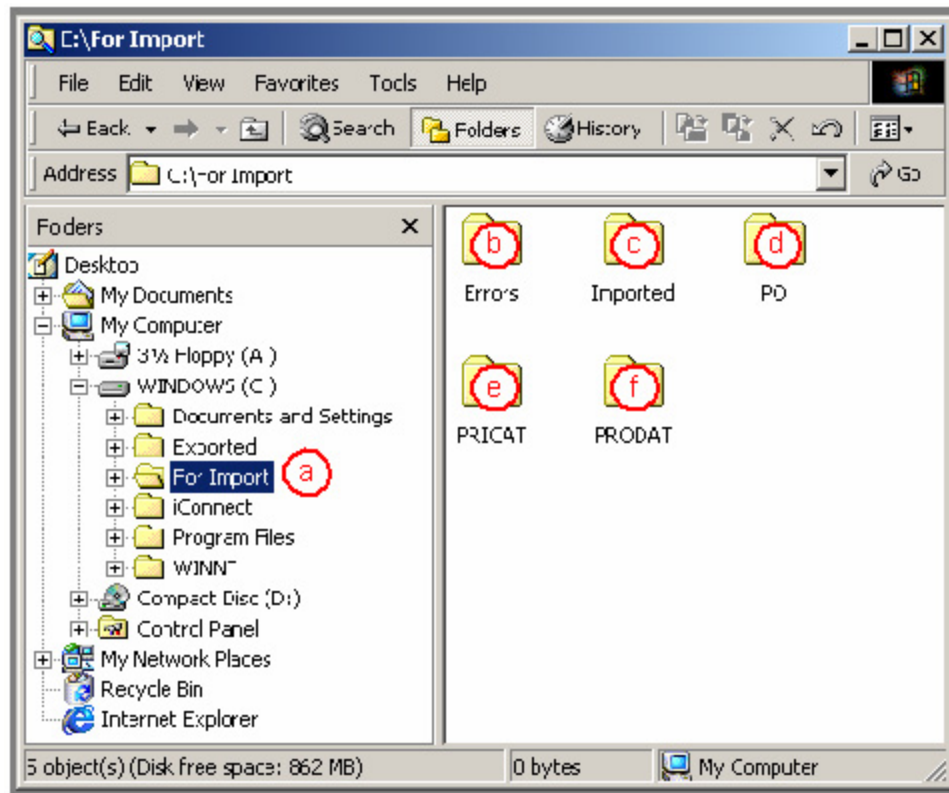
WEEK	DATE	TIME
1st	FEB 16, 2003 SUN	9:30 AM
		12:30 PM
		3:30 PM
		6:30 PM
		9:30 PM
	FEB 18, 2003 TUES	9:30 AM
		12:30 PM
		3:30 PM
		6:30 PM
		9:30 PM
	FEB 20, 2003 THURS	9:30 AM
		12:30 PM
		3:30 PM
		6:30 PM
		9:30 PM
2nd	No Schedule	
3rd	MAR 2, 2003 SUN	(same time)
	MAR 4, 2003 TUES	(same time)
	MAR 6, 2003 THURS	(same time)
4th	No Schedule	
5th	MAR 16, 2003 SUN	(same time)
	MAR 18, 2003 TUES	(same time)
	MAR 20, 2003 THURS	(same time)

Note: Week starts on Sunday

How To Use the Import/Export Directory Bin

To use the **Import** and **Export** task scheduler, users must set the **Directory Bin** folder location wherein the CSV/XML files will be placed for import or export. To set the Directory Bin location, set the **Location of File** parameter at the **Specific Control for Import/Export Tasks** (please refer to the *Overview* discussion).

The Directory Bin consists of subfolders inside the specified Directory Bin location. Let's say that the user specified **C:\For Import** folder as the Import task's directory bin and **C:\Exported** folder as the Export Task's directory bin. Assuming that we have 3 document types namely; PO, PRICAT and PRODAT, the following directory bin structure will be created after saving the scheduler settings:



Description:

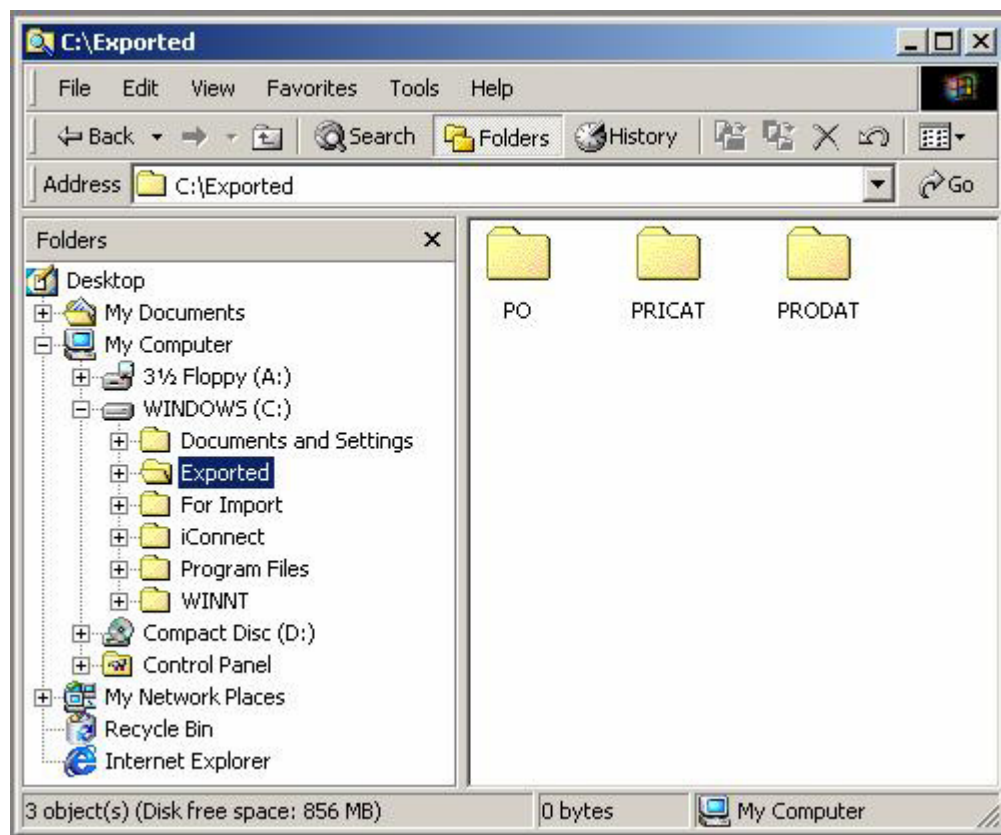
- (a) Directory Bin folder location**
- (b) Errors Folder-** all CSV files that were not imported due to errors will be moved here.
- (c) Imported Folder-** all CSV files that were successfully imported will be moved here.
- (d) PO Folder-** place all PO CSV files for import here.
- (e) PRICAT Folder-** place all PRICAT CSV files for import here.
- (f) PRODAT Folder-** place all PRODAT CSV files for import here.

The **Errors** and **Imported** folders are automatically generated by the Schedule Manager. The Schedule Manager will create the **Document Type (PO, PRICAT and PRODAT) Folders** based on the imported schema file document type name. If a schema file for a new document/message type is imported in the Schema Path Configuration, a new folder for this document type will be created in the Directory Bin for Import Task (assuming that the Import Task is set for scheduling).

For example, if a new document type named RETURN was imported in the Schema Path Configuration and the Import task is set for scheduling, a RETURN document type folder will be created automatically in the C:\For Import directory bin. All RETURN CSV files must be placed in the RETURN document type folder for automatic import by the Scheduler Service.

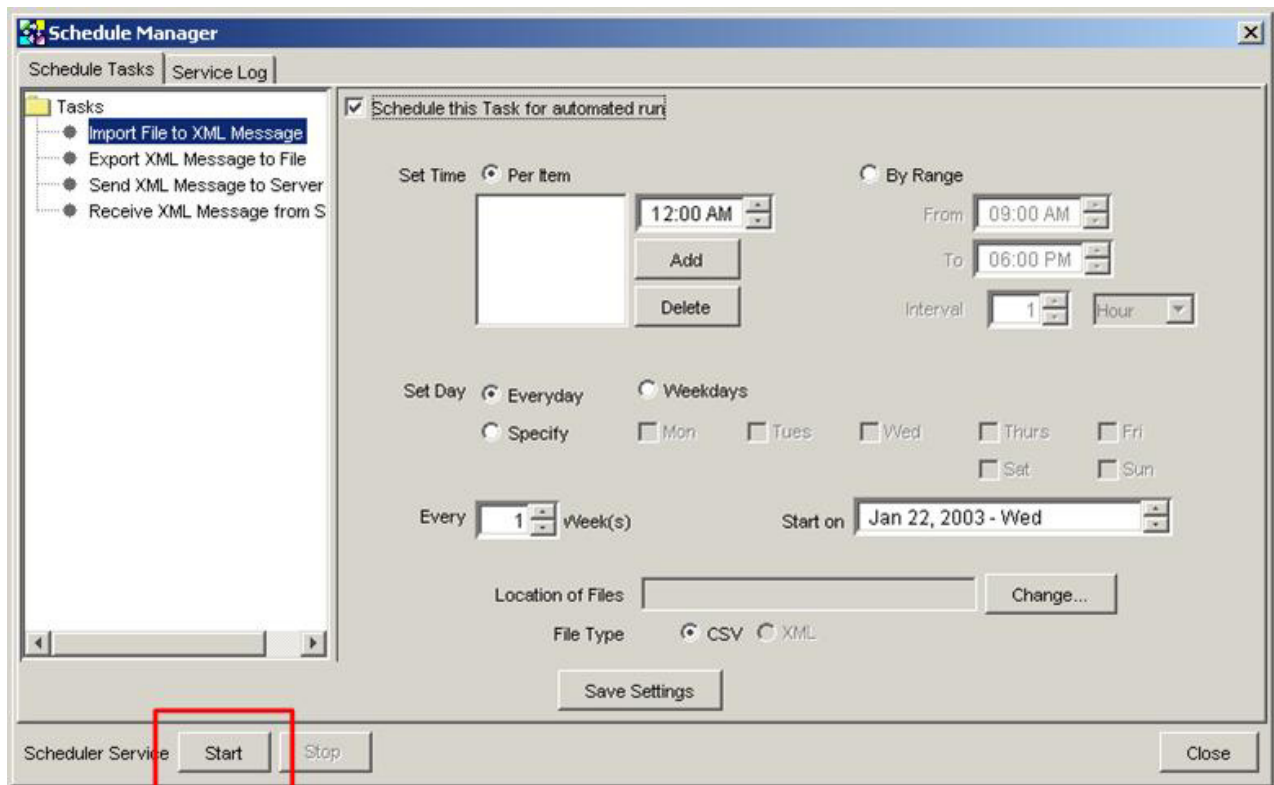
For Export Task, the directory bin will consist only of document type subfolders. All messages that are exported will be placed in the appropriate document type folder. If a message was not successfully exported, the message status will not change to EXPORTED at the Message View window.

An appropriate log message will also be shown at the Service Log tab in the Schedule Manager and saved on log files located in the **logs** folder inside the iConnect application folder. Below is a sample view of the directory structure for Export Task:

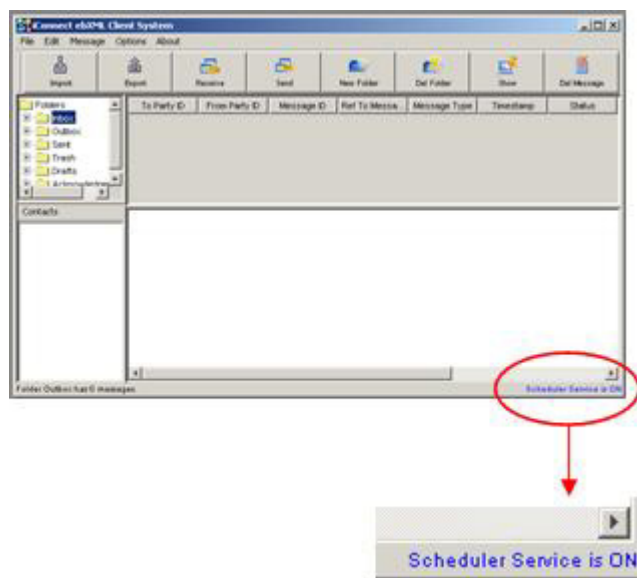


Starting/Stopping the Scheduler Service

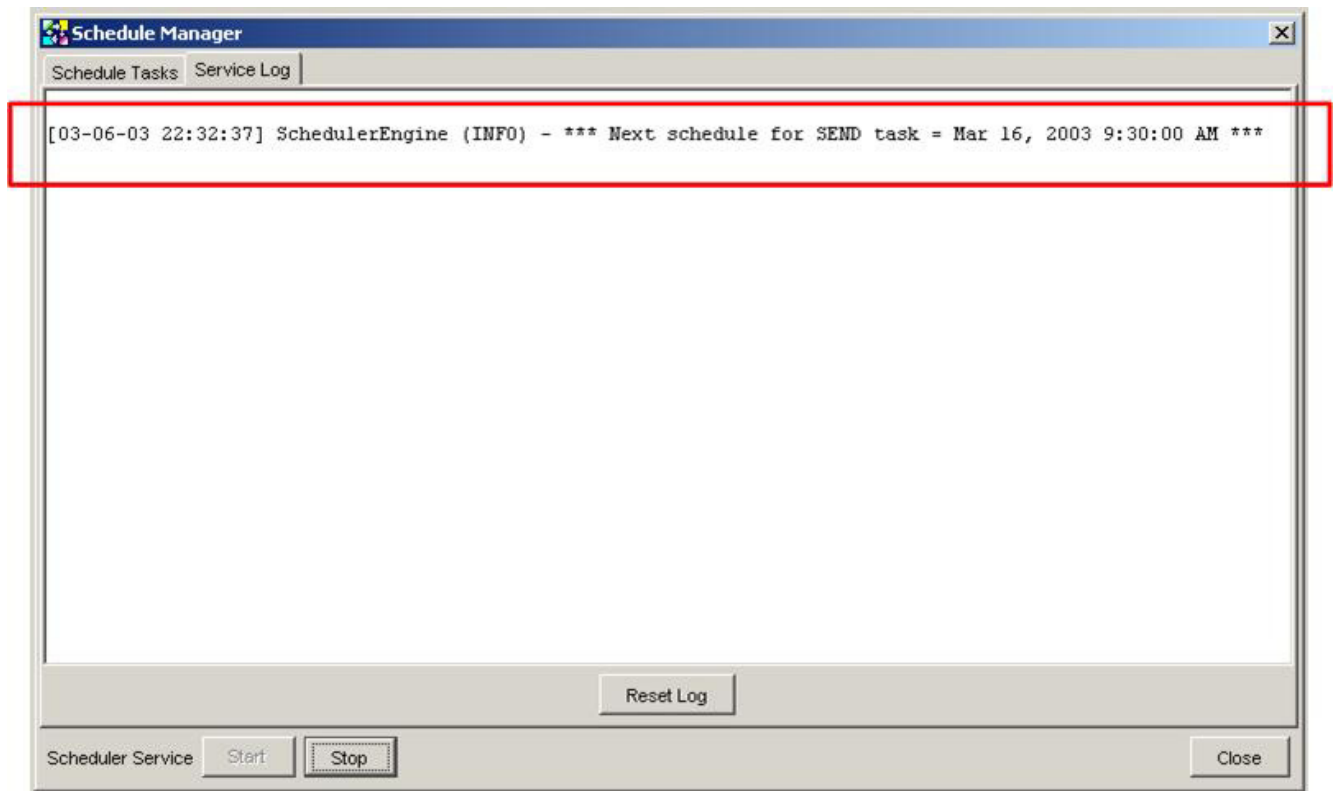
After saving all the settings for each tasks, click on the Start button to activate the Scheduler Service.



When the Scheduler Service is successfully started, the status message at the lower right corner of the main iConnect window will change from **Scheduler Service is OFF** to **Scheduler Service is ON**.



Click on the Service Log tab to view the log Messages shown.



There are two types of log messages: (1) INFO and (2) ERROR. Here are some of the common logs that can be shown by INFO and ERROR log messages:

INFO LOGS

- Next Schedule
- Start Date/Time value of an executed task
- Location of successfully imported files
- Files that were exported
- Send and Receive duration
- Number of messages sent/received

ERROR LOGS

- Send/Receive errors
- Import/Export errors

The log messages also have daily archive files located at the **logs** folder located inside the iConnect folder.

To stop the Scheduler Service, click the Stop button at the Schedule Manager.

II.F. Settings for Proxy Server Access

iConnect can access the Internet through a proxy server for sending/receiving messages. Use [iConnectRunProxy.bat](#) in Windows or [iConnectRunProyx.sh](#) in Linux to launch iConnect configured for proxy server access.

To configure iConnect for proxy server access, edit [iConnectRunProxy.bat](#) or [iConnectRunProyx.sh](#) and specify the proxy server IP address and port number for the following parameters:

```
-Dhttps.proxyHost=SET_IP_ADDRESS_HERE (Proxy Server IP address)
-Dhttps.proxyPort=SET_PORT_VALUE_HERE (Proxy Server Port Value)
```

Here's an example of a valid parameter setting inside the batch file:

```
java -DproxySet=true -Dhttps.proxyHost=192.168.0.111
-Dhttps.proxyPort=3128 -Djavax.net.debug=all .....(other parameters)
```

In order for iConnect client system to connect to the iConnect server, the proxy server must allow https connection and security policies (i.e., user authentication) should be configured properly to allow the client app to access the iConnect Server URL (see Part 1 Section E for the default iConnect Server URL value). If the client app is installed in a computer behind a firewall, make sure that the firewall allows https connection via port 443.

Notes on Proxy Server Setup

iConnect ebXML client system is a stand-alone Java application that is capable of sending and receiving ebXML messages to/from a secured web server. iConnect is dependent on the environment settings in the Java Virtual Machine or JVM, and by default the JVM is configured for a proxy server access. By using the iConnectRunProxy.bat batch program, the JVM will be configured for proxy server access. The JVM only supports HTTPS proxy settings using the Host (IP Address) and Port parameters. Proxy server authentication can only be done with Java's http proxy settings, which include a username, password, Host, and Port parameters. In the case of the iConnect client app, the web server is accessed through a https connection.

If your computer is behind a firewall, the proxy server must also handle HTTPS requests for you to visit a secure Web site on the Internet. However, there is one significant difference between a proxy server processing HTTP requests and HTTPS requests. For HTTP requests, the proxy server is able to parse the communication content and exercise a lot more discretion on policing the traffic, including dropping the connection at the appropriate time (a proxy server always assumes HTTP connections are non-persistent).

On the other hand, the proxy server will not be able to decipher HTTPS connections because of encryption, so it has no choice but to relay the data intact and cannot drop the connection unless the client and or the server desires so. Another "secret" of HTTPS proxy connections is that the actual client/server communication need not to be encrypted or involve SSL, even though this type of connection is often called SSL Tunneling. Again, this is because the proxy server assumes the subsequent communication will not be readable.

iConnect uses SSL for sending and receiving confidential XML messages. SSL does not support proxies in the way that clear text HTTP does in terms of protocol design, since an SSL connection is end-to-end. Only the original server on the remote end can do the necessary decryption and encryption for communication. Contrast this with Plain HTTP, which is easily handled by a server such as Squid or MS Proxy Server, because it takes requests as a server and makes requests as a client. One possible approach to allow iConnect client app to connect to an HTTPS web server through a proxy server is to set

per-IP basis security policies. Network Administrators can do this by relaxing the security policies for accessing the iConnect web server at <https://www.iconnect.com.ph>.

II. F. Sorting Messages

iConnect (v1.3.2.) offers a new feature wherein you can sort messages either in ascending or descending order according to column, by clicking at the table grid columns.

To Party ID	From Party ID	Ref To Message ID	Message ID	Message Type	Timestamp	Status
-------------	---------------	-------------------	------------	--------------	-----------	--------

Table Grid Columns

II. G. Java Heap Size Settings

The Java heap size can be set depending on the size of RAM installed in your PC. This is done to enable the JVM run on the correct RAM settings and as a solution whenever your application encounters Out of Memory error.

To set the Java heap size, edit the **iConnectRun.bat** using any text editor application. In the batch file, you will see the following command:

```
java -cp . . . (other parameters)
```

For example, if the RAM installed is 128MB insert the following after the word "java":

```
-Xms128m -Xmx128m
```

The batch file should contain the following after editing:

```
java -Xms128m -Xmx128m -cp ... (other parameters)
```

where "128" is the allocated heap size in megabytes.

Save the batch file and run iConnect.