Volume

2

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Module Documentation

EDI Messenger

MODULE DOCUMENTATION

EDI Messenger Module

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Chapter 1

Introduction

Capability is everything..

The EDI Mailer module included with OPSCON's MoveItNow Suite does a good job but it is limited in focus. It only does outbound email.

The purpose of the EDI Messenger module is to replace the EDI Mailer with something much more capable.

The capabilities being brought out with this module are:

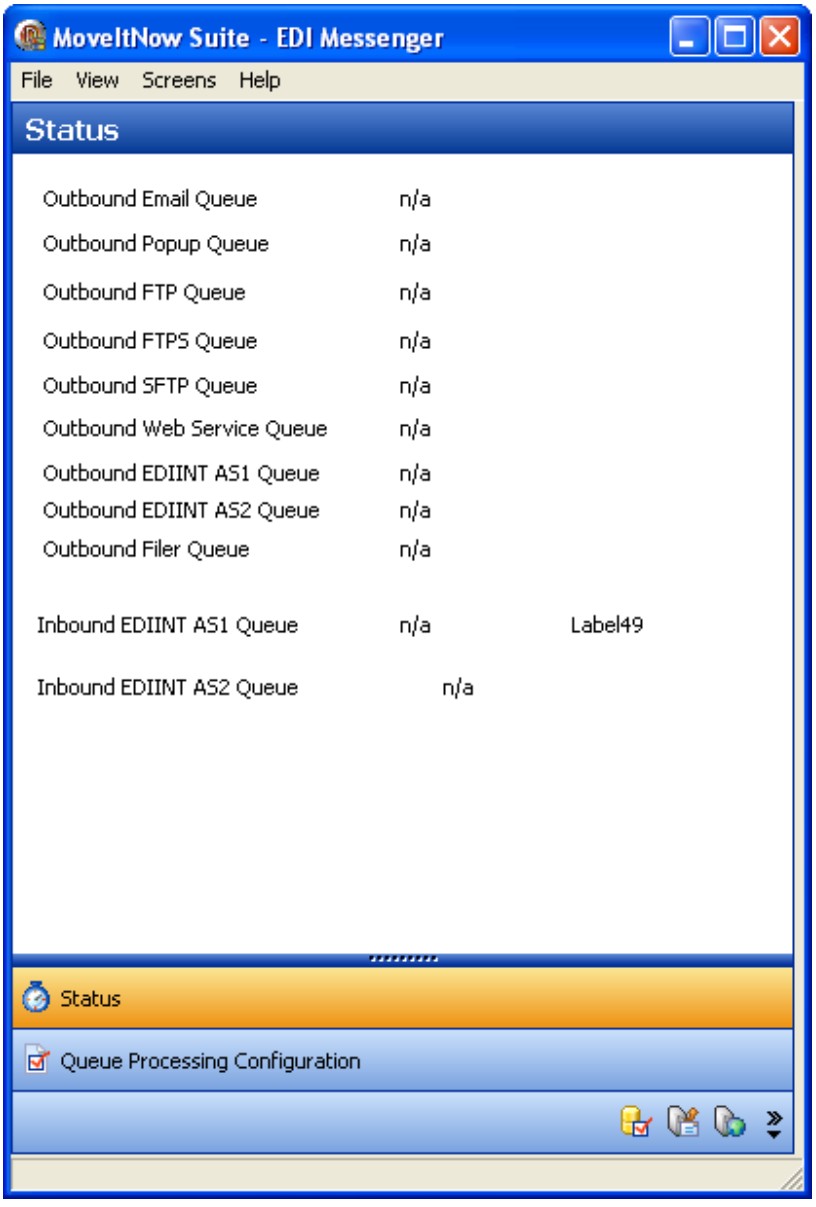
- Outbound Email
- Outbound Popups
- Outbound FTP
- Outbound FTPS
- Outbound SFTP
- Outbound EDI-INT AS1
- Outbound EDI-INT AS2
- Outbound Web Services
- Outbound Files
- Inbound EDI-INT AS1
- Inbound EDI-INT AS2

The EDI Mailer only does the first one so you can see the improvements.

Chapter 2

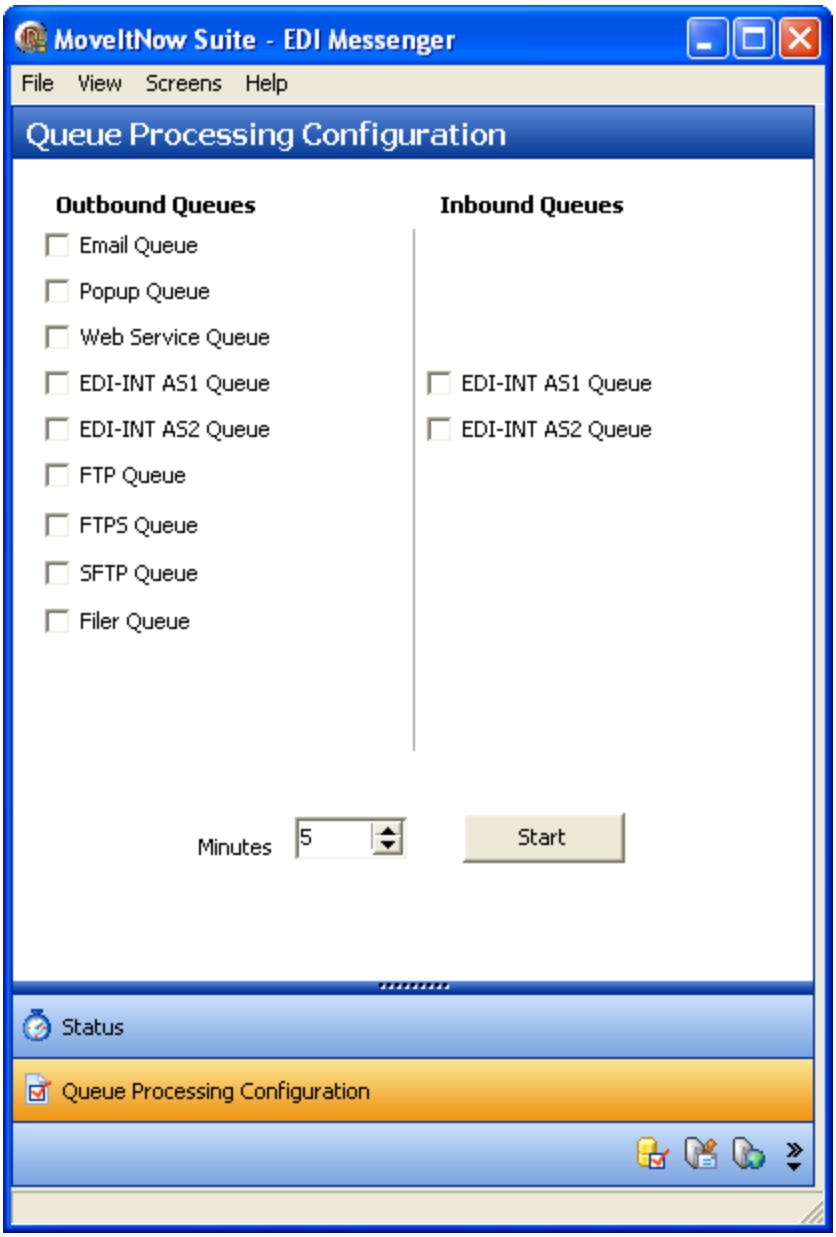
Usage

Using this module is very easy.



The module starts up at the current status for all queues.

To start the processing, click on *Queue Processing Configuration*.

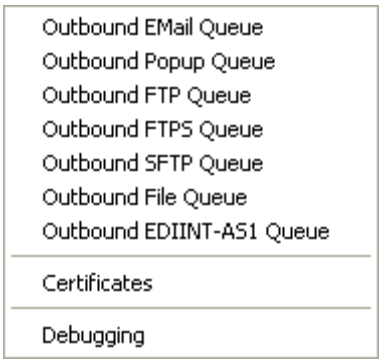


Check the queues you wish to have the system process and click the Start button.

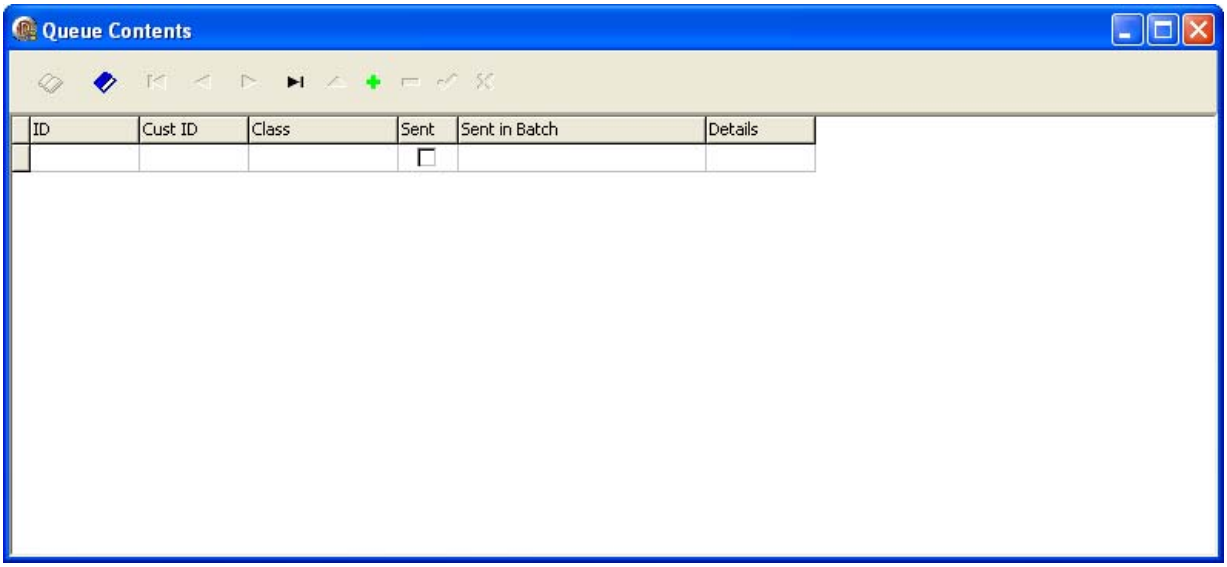
The system will launch the processing functions immediately, switching you to the status screen so you can watch while it processes any available messages.

The system has a timer that is set for five minutes. This timer will wake up the processing cycle so you can walk away after starting the system.

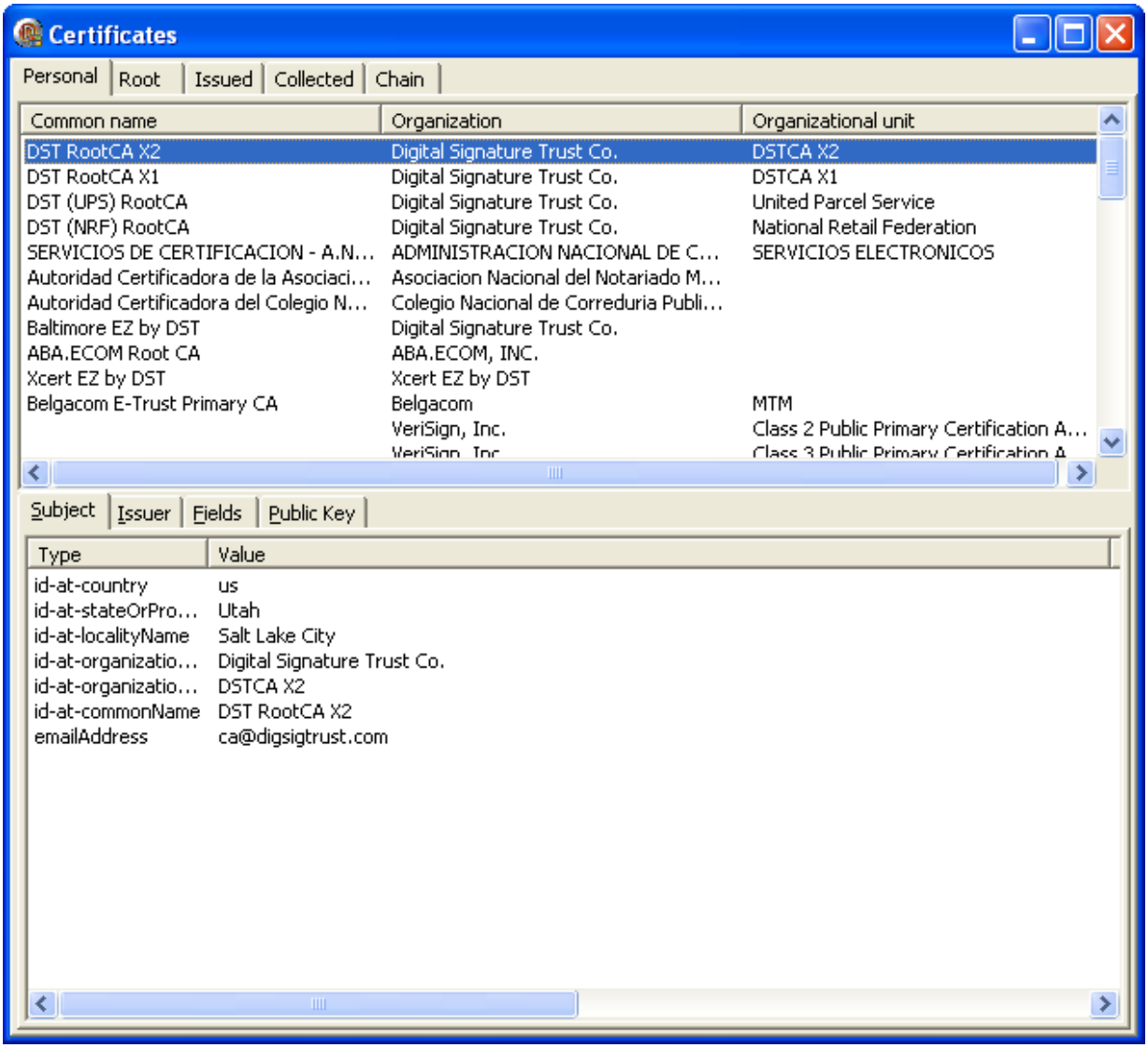
From the View menu you can get to the various message queues, view the known certificates, and enable the debugging mode.



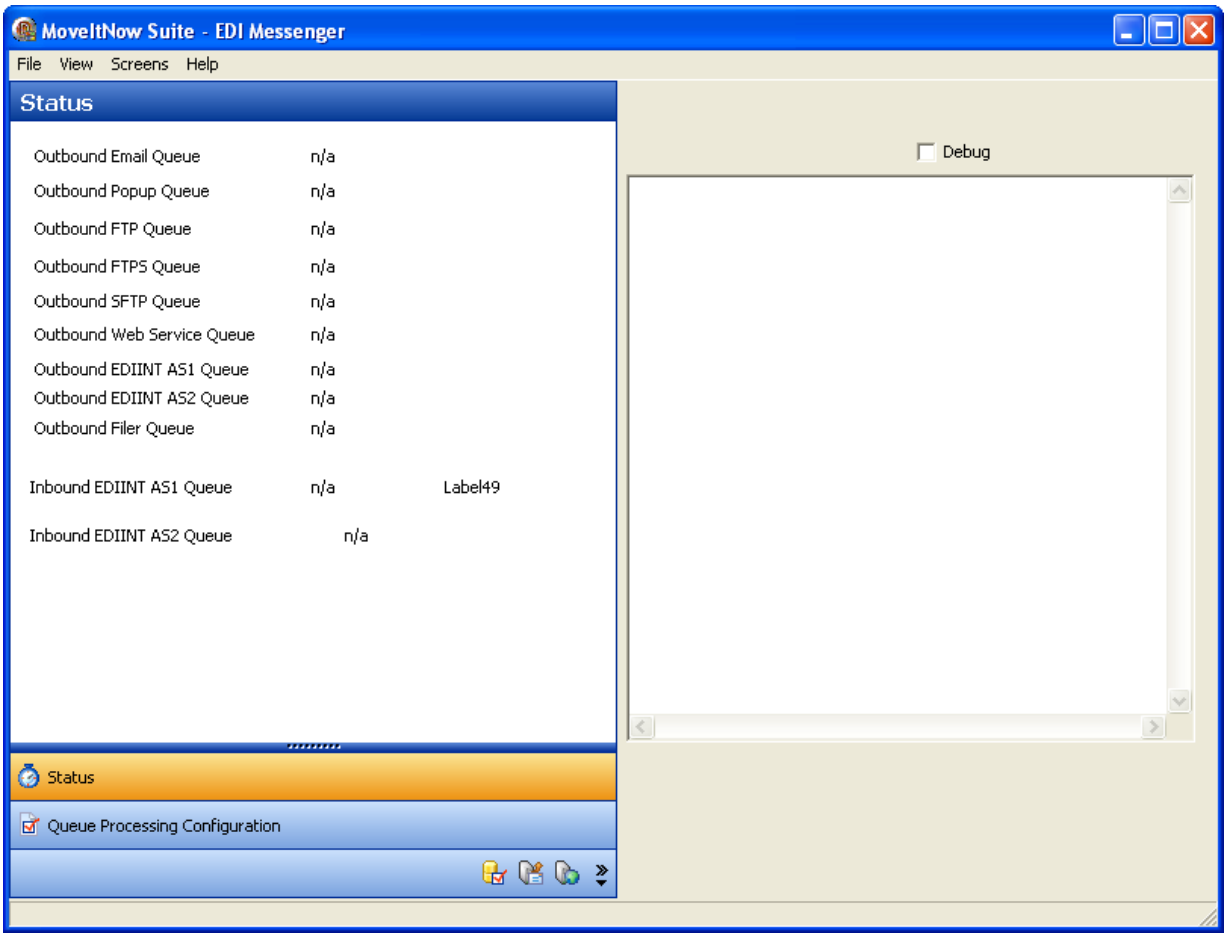
The message queues screen will allow you to edit the current entries as well.



The certificates view will allow you to list all the known certificates in the system. You can not modify these certificates.

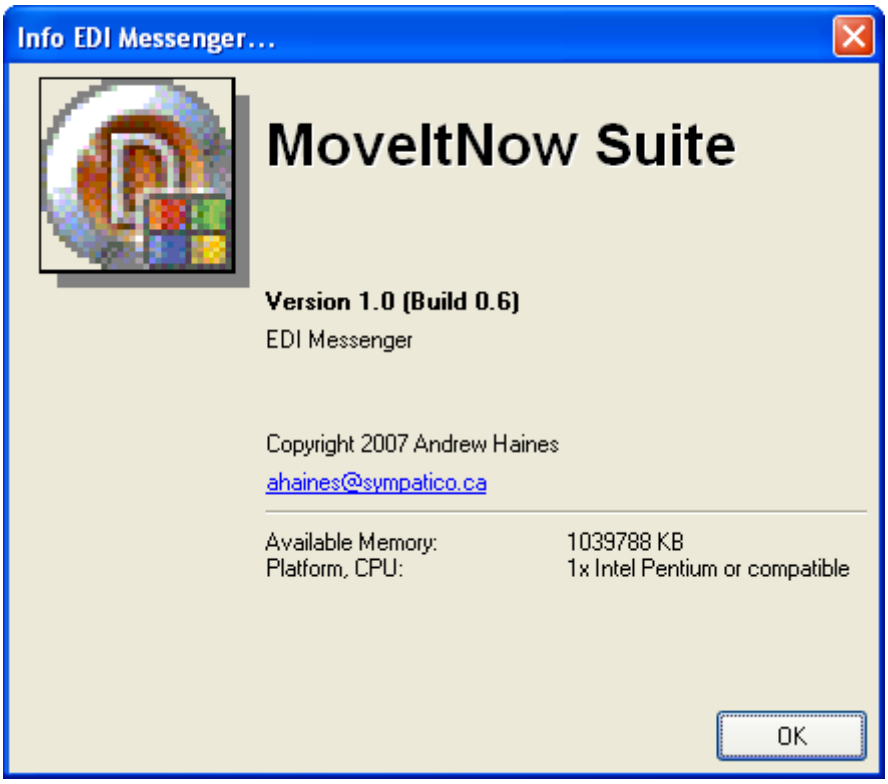


The debugging mode changes the main screen to allow access to the debug log.

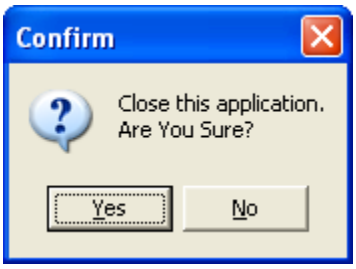


Just check the Debug checkbox and the next time the queues are processed you will have some detailed information in the text box.

Also available via the Help menu is the About box.



And when closing the application you will be prompted to confirm your decision to exit. As the processing cycle needs to have the application running, a confirmation is required to close everything.



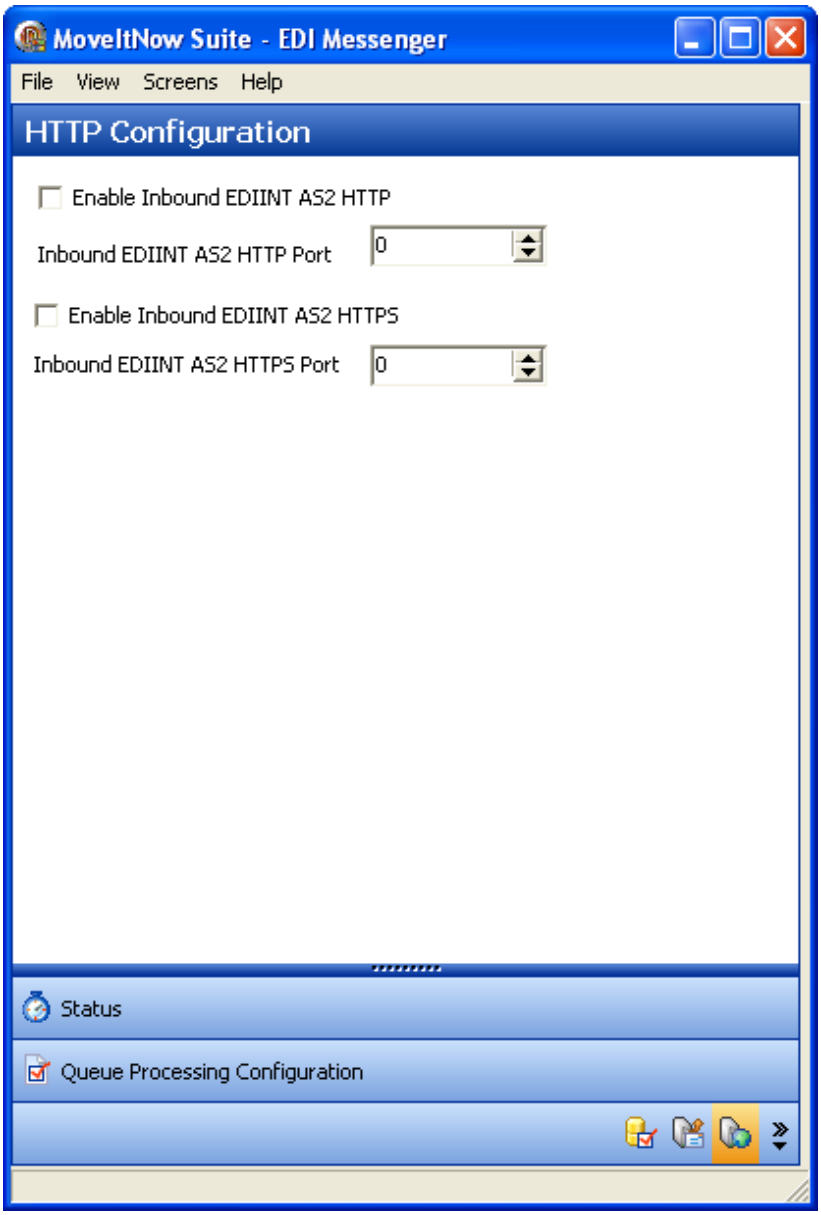
Chapter 3

Configuration

The configuration of the system is fairly straight forward. You can have your settings saved to the registry for future use or just for the current session.

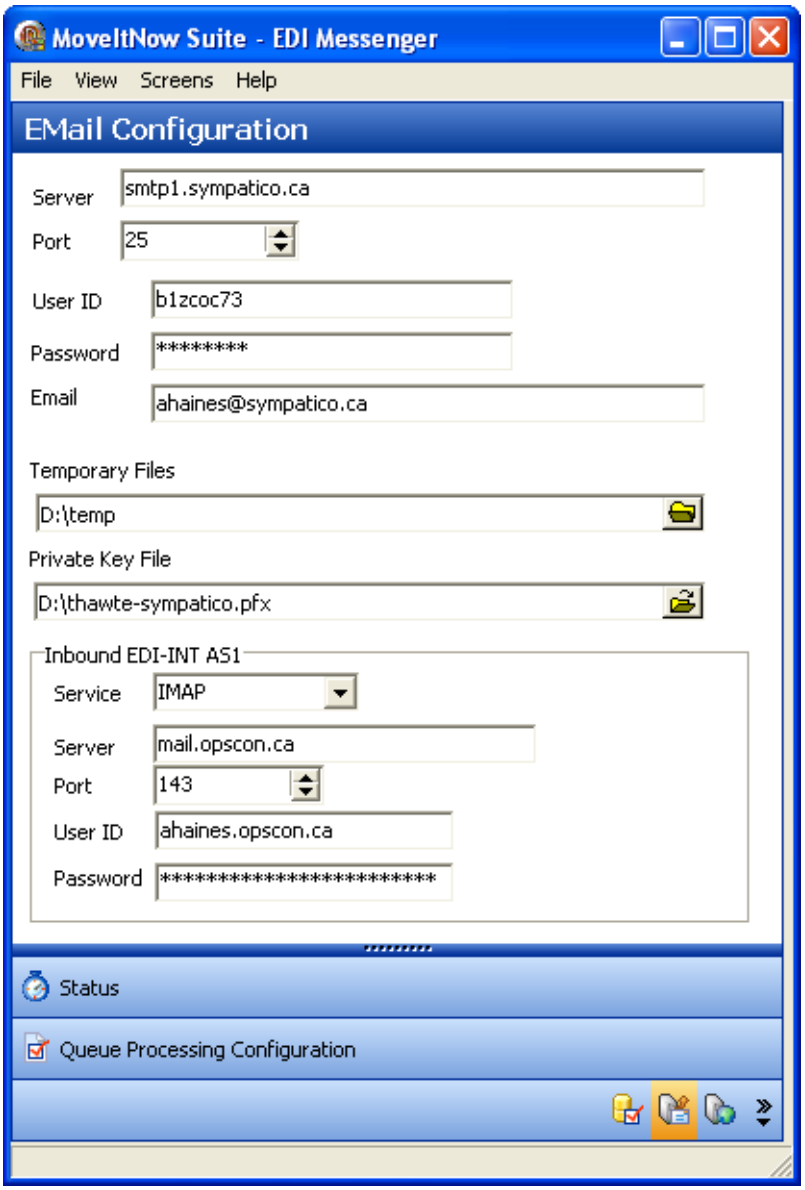
Database Configuration consists of the server, path to the database, user id, and password.

The Certificates File is for importing any root certificates used for the Public Key verification.



The HTTP Configuration is used to set up the receiving of messages via a web site.

It will also be used to set up any proxy server settings for the outbound messages that are sent via a web site.



The Email Configuration is used for both Inbound and Outbound messages that use SMTP.

For Outbound messages you need to set up the Server, Port, User ID, Password, and Email address to use.

The Temporary Files folder is where you want to store the attachments that may be created in the message process.

The Private Key File is your PKI certificate that can be used for digitally signing messages.

For receiving EDI-INT AS1 messages you need to set up the receiving mailbox. This configuration is very much like your home configuration.

Chapter 4

Queues

The message queues supported by this module are each running in a thread. This allows the system to make good use of multiple processors. It also allows for simultaneous processing of each queue.

Email

The email queue just sends the text message via email. This is useful where basic notifications are needed and integration is not an issue.

Headers:
TO:
CC:
BCC:
FROMADDRESS:
FROMNAME:
SUBJECT:
REPLYTO:
RECEIPTTO:
CONTENT-TYPE:
CONTENT_TRANSFER_ENCODING:
CONTENT-DISPOSITION:
REFERENCES:
ORGANIZATION:
ENCODING:
PRIORITY:
SIGNED:
ENCRYPTED:
SECURITY:

Filer

The filer queue just saves the message body to a file. This is useful when you need to integrate with some other system but are not able to do so automatically.

Headers:
FILE:
EDITYPE:
SEPARATOR-SEGMENT:
SEPARATOR-ELEMENT:
SEPARATOR-SUBELEMENT:

FTP / FTPS / SFTP

These queues are all variations on the FTP protocol. FTPS is FTP over SSL and SFTP is FTP over SSH. The FTPS and SFTP use secured connections to transmit the files where basic FTP does not. These queues upload the message body to the remote server. In some cases, a trigger file is also sent.

Headers:
USERID
PASSWORD
SERVER
PORT
FILENAME
REMOTEPATH
EDITYPE:
SEPARATOR-SEGMENT:
SEPARATOR-ELEMENT:
SEPARATOR-SUBELEMENT:
CERTIFICATEFILE:
TRIGGERFILE:

Popup

This queue takes advantage of the Windows Messenger Service on the local network desktops. It will display a popup notification window that the user has to click OK on. It only works on your local network so it is of limited use.

Headers:
TO:

EDI-INT AS1

This queue is meant for handling EDI data sent via Email. It saves the cost of the EDI VAN that is very common with traditional EDI configurations. It does however require configuration between the partners. Digital Signatures and Encryption are included in this standard but are optional. The current release of the EDI Messenger does not support signing or encryption. There is presently only one decoder for receiving messages and it does a 204 release 4030 transaction. The sending queue works for any message but also does not support signing or encryption.

Headers:
TO:
SUBJECT:
CONTENT_TRANSFER_ENCODING:
SIGNED:
ENCRYPTED:
SECURITY:
EDITYPE:
SEPARATOR-SEGMENT:
SEPARATOR-ELEMENT:
SEPARATOR-SUBELEMENT:

EDI-INT AS2

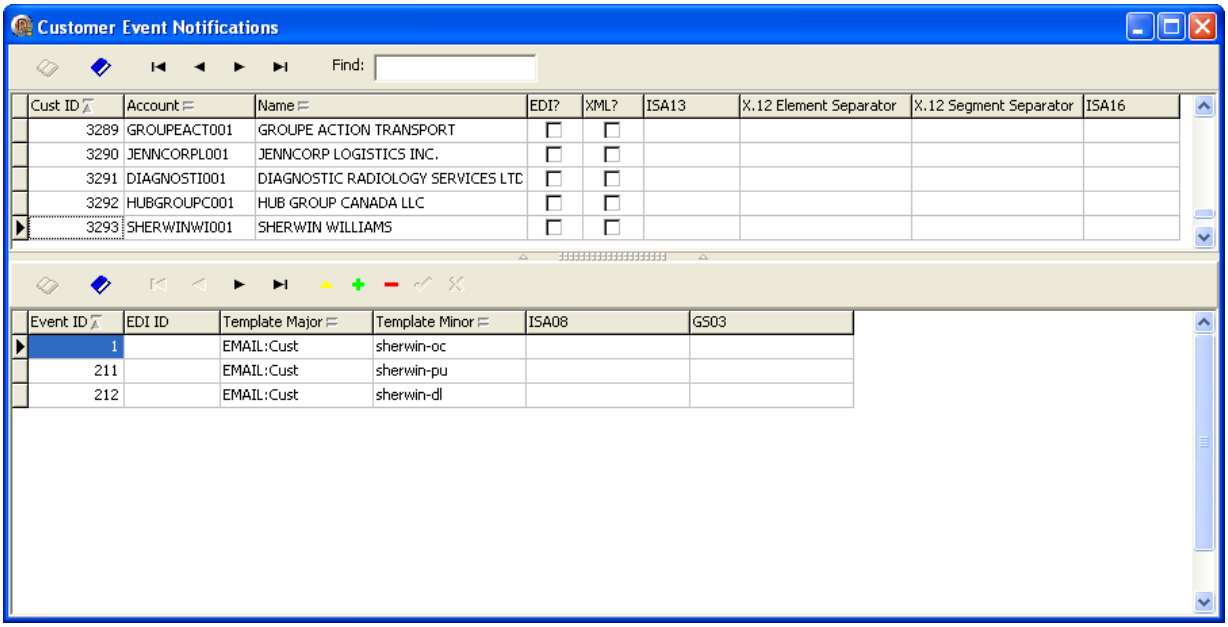
This queue is meant for handling EDI data sent via a web server. It saves the cost of the EDI VAN that is very common with traditional EDI configurations. It does however require configuration between the partners.

Headers:
SUBJECT:
CONTENT_TRANSFER_ENCODING:
SIGNED:
ENCRYPTED:
SECURITY:
EDITYPE:
SEPARATOR-SEGMENT:
SEPARATOR-ELEMENT:
SEPARATOR-SUBELEMENT:
AS2-VERSION
AS2-TO
AS2-FROM
MESSAGE-ID
URI

Chapter 5

Customer Events

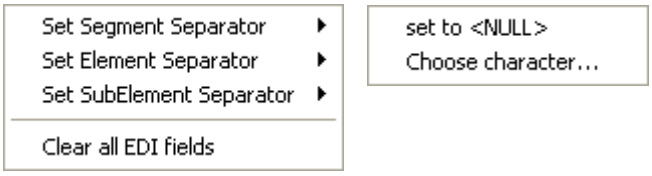
From within the Edi Messenger module you can get access to the events that have been assigned to the customer accounts (see the Customer Master screen in Dispatch). This screen is much easier than the one found in the main system.



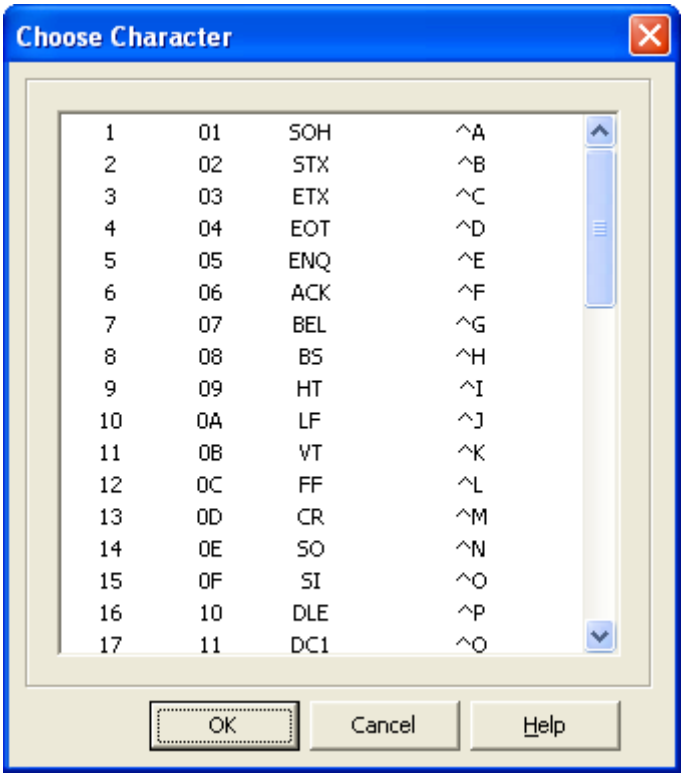
Both grids have a context menu (a.k.a. Right Click menu).

ISA13 is the transaction counter field and must be 1 or higher if using X.12 messages.

X.12 Element Separator, X.12 Segment Separator, and ISA16 are the decimal numbers that represent the characters used to separate the Elements, Segments, and Sub-Elements respectively. They need to be defined if you are using X.12 messages and do not want to use the system defaults (tilde for the element separator, caret for the sub-element separator, and a newline for the segment separator). You can choose a character from the popup menu.



Use the "Set to <NULL>" menu item to clear the field.



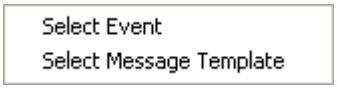
Select a character and click OK to return to the previous screen.

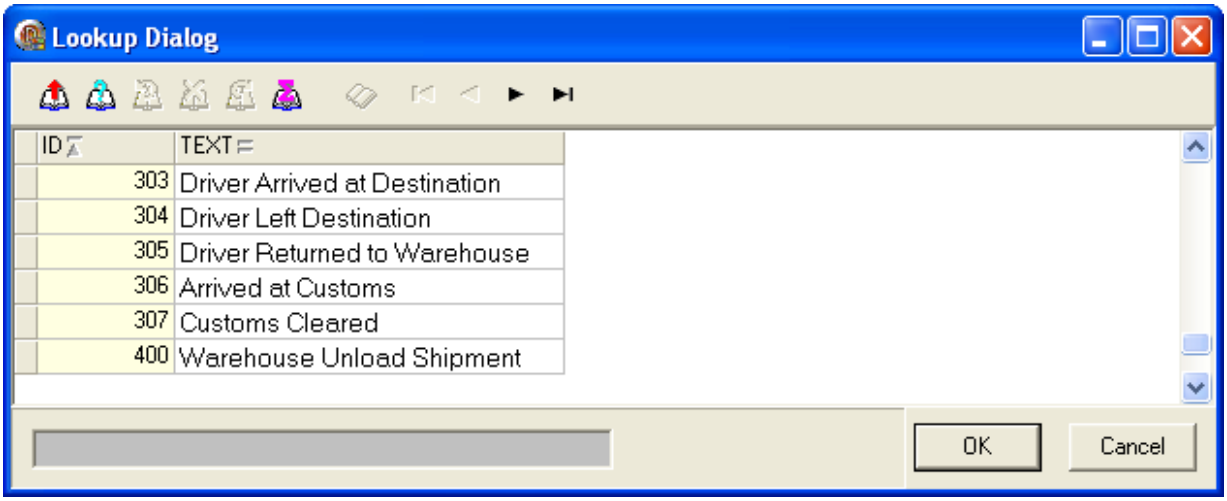
Each character is on one line. The four columns are: the decimal number, the hex number, the name, and the control key used to represent the desired character.

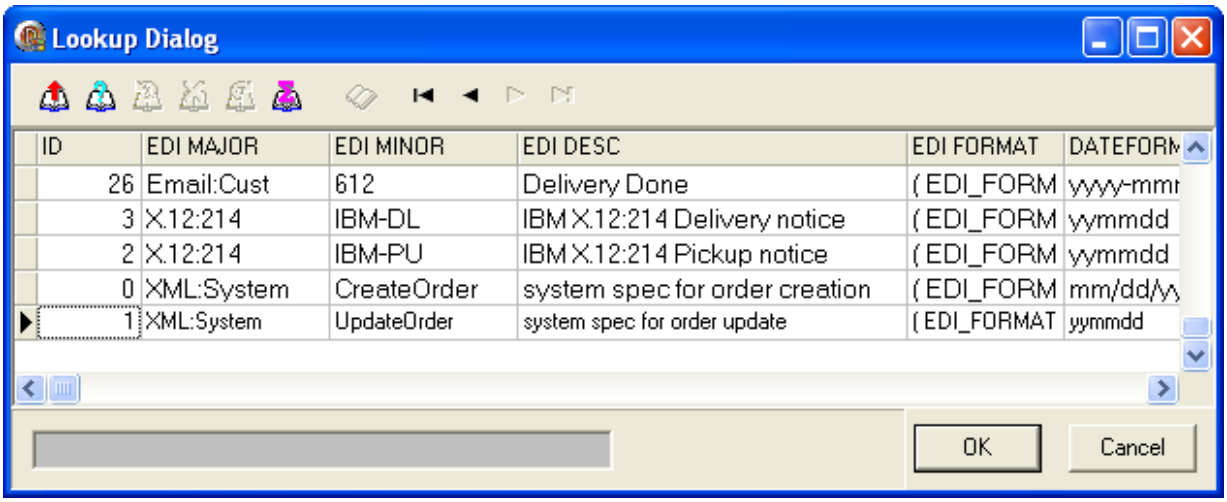
The bottom grid shows the list of events that have been subscribed to for this account.

You can add, update, or delete entries here.

Use the context menu to get a listing of events or to select a message template.





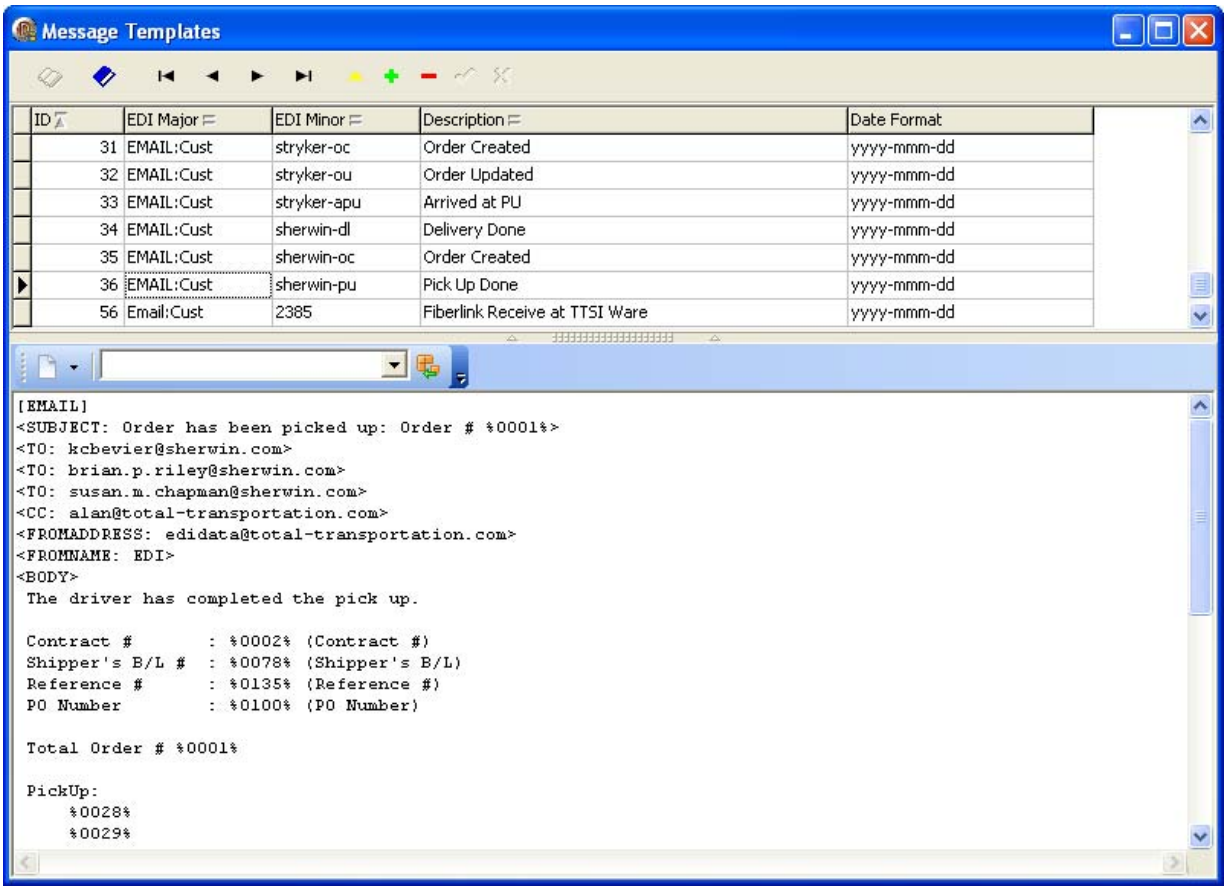


ISA08 and GS03 are identifiers that are required for X.12 messages.

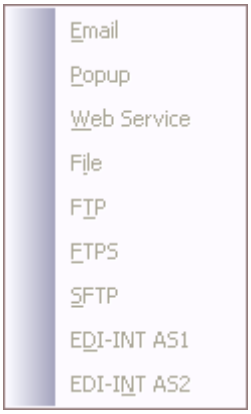
Chapter 6

Message Templates

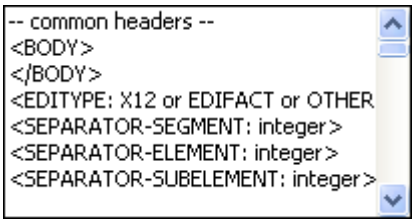
You can edit the message templates here as well as though the main system.



There is additional functionality in this screen when compared to the main system. Here you can choose the message queue/type and insert various headers from a drop down list. Future revisions will include database fields as well.



From the New button on the toolbar you can get access to the various supported queues/message types. These options will create a new message with all the relevant message headers. All you have to do is fill in the blanks then provide the message body.



Also on the toolbar is a drop down field that contains all the known message headers grouped into sections for each message type. Select the desired entry and click the Insert button. You can also select the text and copy & paste it.

Refer to the Queues chapter for a list of the headers that apply to each message type/queue.

Chapter 7

Registry

The system will automatically load the settings from the registry upon start up. Default entries will be supplied the first time. You can save your settings via the File menu's Save Settings option.

The registry key is: HKEY_CURRENT_USER\Software\OPSCON\EDIMessenger

Value	Type	Description
Certificates	REG_SZ	Path to the certificates file.
HTTP_EDIINTAS2HTTP_Port	REG_DWORD	Port to use for receiving EDI-INT AS2 connections via HTTP.
HTTP_EDIINTAS2HTTPS_Port	REG_DWORD	Port to use for receiving EDI-INT AS2 connections via HTTPS.
HTTP_EnableEDIINTAS2HTTP	REG_DWORD	Enable receiving of EDI-INT AS2 messages via HTTP.
HTTP_EnableEDIINTAS2HTTPS	REG_DWORD	Enable receiving of EDI-INT AS2 messages via HTTPS.

Value	Type	Description
IB_Password	REG_SZ	Password to connect to the database.
IB_path	REG_SZ	Path of the database.
IB_server	REG_SZ	Database server.
IB_username	REG_SZ	User ID to connect to the database.
PrivateKeyFile	REG_SZ	Full path and name of the Private Key.

Value	Type	Description
QueueEnabled_InboundEDIINTAS1	REG_DWORD	Enable the inbound EDI-INT AS1 queue
QueueEnabled_InboundEDIINTAS2	REG_DWORD	Enable the inbound EDI-INT AS2 queue.
QueueEnabled_OutboundEDIINTAS1	REG_DWORD	Enable the outbound EDI-INT AS1 queue.
QueueEnabled_OutboundEDIINTAS2	REG_DWORD	Enable the outbound EDI-INT AS2 queue.
QueueEnabled_OutboundEmail	REG_DWORD	Enable the outbound Email queue.
QueueEnabled_OutboundFiler	REG_DWORD	Enable the outbound Filer queue.
QueueEnabled_OutboundFTP	REG_DWORD	Enable the outbound FTP queue.
QueueEnabled_OutboundFTPS	REG_DWORD	Enable the outbound FTPS queue.
QueueEnabled_OutboundPopup	REG_DWORD	Enable the outbound Popup queue.
QueueEnabled_OutboundSFTP	REG_DWORD	Enable the outbound SFTP queue.
QueueEnabled_OutboundWebServices	REG_DWORD	Enable the outbound Web Service queue.
QueueMinutes	REG_DWORD	Number of minutes between the queue processing cycles. Defaults to 5.

Value	Type	Description
SMTP_Email	REG_SZ	Email address to use for "From"
SMTP_Password	REG_SZ	Password to connect to the server.
SMTP_Port	REG_DWORD	Port to connect to.
SMTP_Server	REG_SZ	Server to connect to.
SMTP_UserId	REG_SZ	User ID to use to connect to the server.
TempFiles	REG_SZ	Path of temporary files folder.