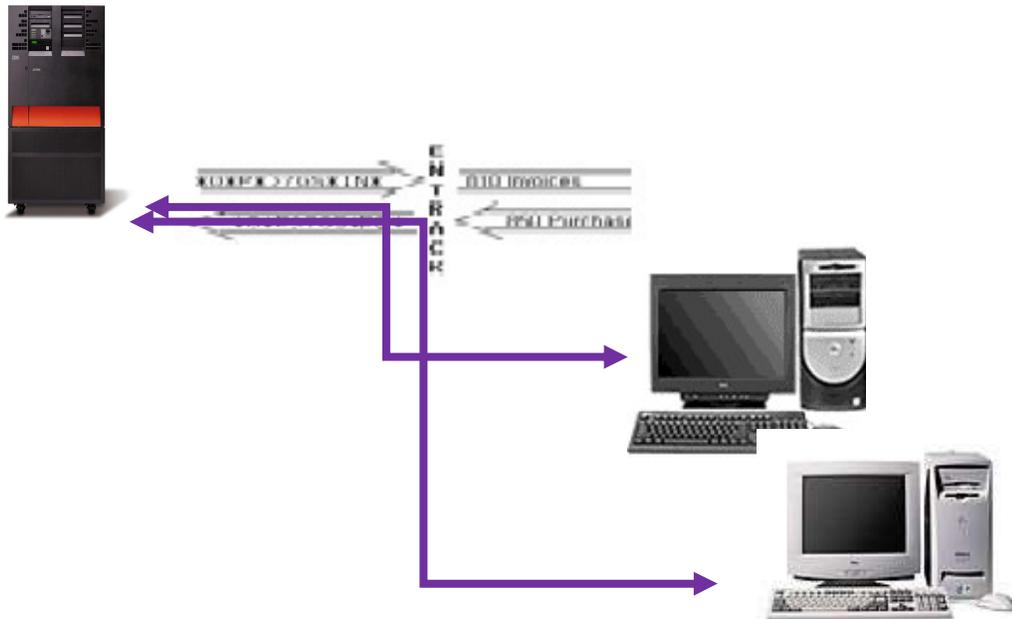




EDI Software

EDI Software for IBM Power Systems™

AS/400 – iSeries – System i



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1 EDI and ENTRACK

1.1 What is EDI

EDI provides an automated system of sending and receiving electronic documents. It reduces costs by eliminating manual entry of data and paper documents. Electronic data can interface from and to user applications. ENTRACK EDI system has been running in companies since 1989. The system can be built to interface with the user's current application. ENTRACK sends and receives X12 and EDIFACT documents electronically.

1.2 How does Entrack work?

ENTRACK EDI software is designed to run on the IBM AS/400 – iSeries400 – i5 platform. ENTRACK uses a true Microsoft Windows GUI interface. ENTRACK GUI/400 supports Windows 2000, XP Professional, NT, WIN 2003, and Vista PRO, Win 7 Pro ,and Win 8 Pro client.. A modem that supports Binary Synchronous Communications (BSC) can be used to send to Value Added Networks (VANS), or private networks. A modem that supports Asynchronous communications can also be used. FTP is also more commonly used to communicate over the Internet, and also with dialup. ENTRACK provides communications software to send and receive EDI data. The translation software converts raw EDI data into user applications for inbound transactions, and converts data from applications into raw EDI data for outbound transactions. A PC is required for the graphical interface to set up trading partners, inquiries, application files and mapping.

1.3 Entrack requirements

iSeries400 Server. OS/400 V4R5 or higher.

V5R3M0 requires PTFs MF41354 and SI27297.

V5R3M5 requires PTFs MF41754 and SI27297.

V5R4M0 requires PTFs MF40520 and SI27765.

V5R4M5 requires PTFs MF42655 and SI27765.

PC Client

Win XP Professional, Win/NT, Win 2000, Win 2003, or Vista Pro, Win 7 Pro and Win 8 Pro.

1.4 How can Entrack help me?

ENTRACK can improve your business by:

- Providing faster response to customer concerns and needs.
- Providing a framework and foundation to develop and implement additional functions that will reduce manual processes.
- Providing for electronic capturing of information by reducing the need for accessing paper.
- Eliminating paper shuffle to find needed information.
- Reducing the time needed for data entry.
- Eliminating clerical/manual processes.
- Provide good vendor/customer relationship by being compliant with standards that are needed.
- Avoid non EDI compliant penalties from customers.

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1.5 Transactions

ENTRACK currently supports the following EDI **X12** transactions and also UCS and WINS:

101 - Name and Address Lists	834 - Benefit Enrollment Maintenance
110 - Air Freight Details and Invoice	835 - Health Care Claim Payment/Advice
204 - Motor Carrier Tender	837 - Health Care Claim
210 - Motor Carrier Freight Details and Invoice	844 - Product Transfer Account Adjustment
211 - Motor Carrier Bill of Lading	846 - Inventory Inquiry/Advice
212 - Motor Carrier Delivery Trailer Manifest	849 - Response to Product Transfer Acct Adj
214 - Transportation Carrier Shipment Status	850 - Purchase Orders
215 - Motor Carrier Pickup Manifest	852 - Routing and Carrier Instructions
300 - Reservation (Booking Request) (Ocean)	853 - Product Sales and Inventory
301 - Confirmation (Ocean)	855 - Order Acknowledgements
303 - Booking Cancellation (Ocean)	856 - Advance Ship Notice
304 - Shipping Instructions	857 - Invoice/Ship Notice
309 - Customs Manifest	858 - Shipping Information
310 - Freight Receipt and Invoice (Ocean)	860 - Purchase Order Change
311 - Canada Customs Information	861 - Receiving Advice/Acceptance Certificate
315 - Status Detail (Ocean)	862 - Shipping Schedule
322 - Terminal Operations & Ramp Activity	864 - Text Messages
323 - Vessel Schedule and Itinerary (Ocean)	865 - P.O. Change Acknowledgement
325 - Consolidation of Goods in Container	867 - Product Transfer and Resale Report
404 - Rail Carrier Shipping Information	869 - Order Status Inquiry
410 - Rail Carrier Freight Details and Invoice	870 - Order Status Report
414 - Rail Carhire Settlements	875 - Grocery Products Purchase Order

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568 - Contract Payment Management Report	878 - Product Authorization/Deauthorize
753 - Request for Routing Instructions	879 - Price Information
754 - Routing Instructions	880 - Grocery Products Invoice
810 - Invoice	888 - Item Maintenance
812 - Debit/Credit Adjustments	889 - Promotion Allowance
813 - Electronic Filing of Tax Return Data	894 - Delivery/Return Base Record
814 - General Request, Response, or Confirm	940 - Warehouse Shipping Order
816 - Organizational Relationships	943 - Whse Stock Transfer Ship Advice
820 - Remittance Advice	944 - Whse Stock Transfer Recv Advice
824 - Application Advice	945 - Whse Stock Transfer Recv Advice
827 - Financial Return Notice	947 - Warehouse Shipping Advice
828 - Debit Authorization	990 - Response to a Load Tender
830 - Planning Schedule	997 - Functional Acknowledgements
832 - Price/Sales Catalog	

Entrack currently supports the following **EDIFACT** transactions:

- APERAK - Application Error and Acknowledgement
- CONTRL - Acknowledgements
- CUSCAR - Customs Cargo Report
- DELFOR - Forecasting
- DELJIT - Delivery Just in Time
- DESADV - Shipping Schedule
- INVOIC - Invoice.
- ORDERS - Purchase Orders
- RECADV - Receiving Advice Message
- WESTIM - Repair Estimate

2 Installing and Setting up ENTRACK

2.1 Installing Entrack

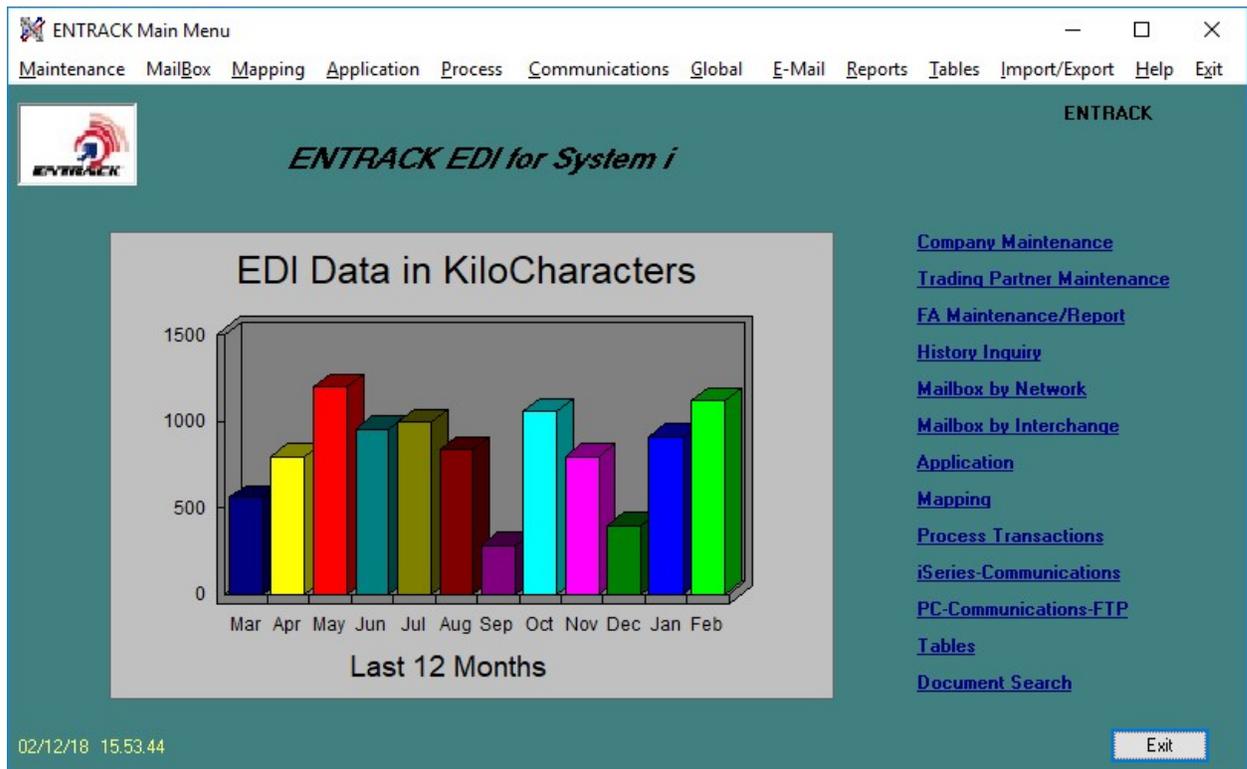
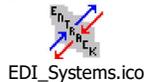
Installation for Entrack on the AS/400.

1. Sign on as QSECOFR.
2. Enter the command 'LODRUN OPT01'. (Replace 'OPT01' with whatever CD device you are using to perform the installation).
3. Install ASNA using the ASNA CD provided.

Installation for ENTRACK on the PC.

4. Load the ASNA CD onto the client PC. Then Load the ENTRACK client Install onto your client PC.

When installation is complete, click on the Entrack icon and the ENTRACK main menu will appear.



2.2 *Entrack main menu*

The ENTRACK main menu shows a graph of a summary of EDI data transmitted within the last 12 months. The data is measured in kilo characters.

Access to the ENTRACK sub menus can be either from the menu bar at the top or clicking on an option underlined in blue to the right of the menu. The menu option changes to red when the mouse rolls over it.

2.3 *Preparing Entrack for Operation*

The following steps are required to prepare the system for operation.

- Establish Communications
- Establish Companies
- Establish Trading Partners
- Creating your Application
- Creating Mapping

2.4 Global setting

- Process Inbound Test Documents. Check if you wish to process inbound transactions into the user application when the EDI data is flagged as “Test”. (‘T’ in ISA15 element.). The default is checked.
- Display first document in Trading Partner queue. Check to show the first document when displaying batches by Trading Partner Queue. This will cause a slight delay in displaying the batches in the queue. The default is unchecked.
- Send All Job completion message to QSYSOPR/E-mail. When this option is checked, a message will be sent to QSYSOPR and e-mail will be sent to all e-mail addresses set up under E-mail when all communication job or Processing of Transactions have completed normally or failed. When unchecked, only jobs that failed will have a message sent to QSYSOPR and E-mail. The default is checked.



3. Communications

3.1 Sessions and networks

ENTRACK provides several ways of communications.

- Bisynchronous communications using 3780 emulation, the standard emulation for the AS/400 operating system.
- FTP from the AS/400. Using Point to Point Protocol, or a dedicated line. Communication over the Internet, Value Added Networks (VANS), and to private networks. ENTRACK also supports FTP using SSL and SSH.
- FTP from the PC. Transmitting AS/400 data via a PC over the Internet, Value Added Networks (VANS), and to private networks.
- EDIINT AS2 from AS/400. Application Statement 2. Secure, Automated eTransfer of EDI over the Internet using HTTP and Digital Certificates
- EDIINT AS2 from PC. Application Statement 2. Secure, Automated eTransfer of EDI over the Internet using HTTP and Digital Certificates

ENTRACK communications sessions provide the flexibility to:

- Send and Receive Data - SR
- Send data only - SO
- Receive data only – RO
- Receive Only 2nd session – RC
- Receive Only 3rd session - RF
- Receive Only 4th session – RQ
- Receive Only 5th session – RD
- Change passwords. – PC

Multiple Receive Only sessions can be used if separate scripts are needed to receive separate documents.

3.2 Networks

Entrack's base package has the ability to communicate with the following Value Added Networks:

- GE – GXS Global Exchange Services
- Sterling Commerce

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- IBM Global Services
- EDS-Elite
- Transnet
- Ansinet
- Kleinschmidt Inc.
- MCI

As well as the Internet using FTP or AS2

- USRFTP01 – USRFTP99

And the following private networks.

- Wal-Mart
- Army Air Force Exchange Service
- Genuine Parts Company
- Chrysler Telecommunication Exchange
- Ford-Solmis
- CSK Automotive
- Wells Fargo
- Owen & Minor
- Neoforma (Asynchronous)

ENTRACK can provide custom modifications to communicate with other networks.

3.3 Scripts for Bisynchronous and FTP

Entrack can provide plug in and go communications upon installation. The scripts can be preloaded upon installation providing the mailbox ID and password is given. Scripts for Bisynchronous and FTP communications are set up within ENTRACK. A template is given, so that only the mailbox and password need to be changed. The scripts are maintained as follows:

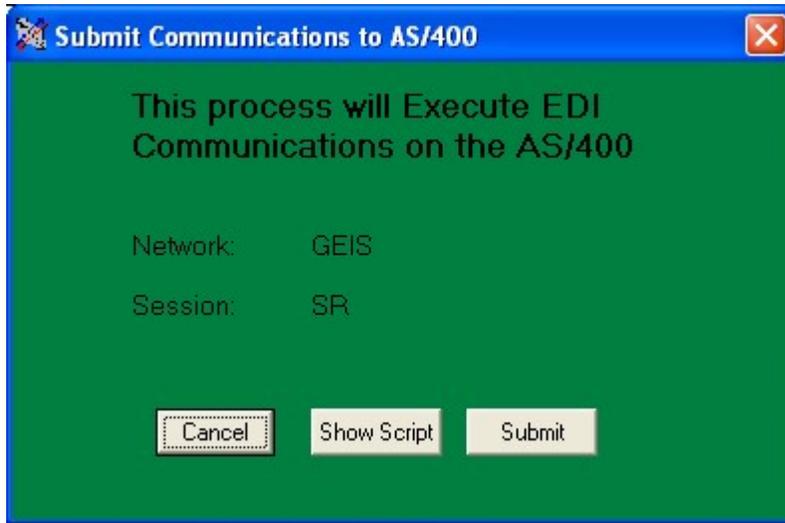
- Select AS/400 Communications from the Main Menu.
- Click on the Network for the script you wish to update.
- Click on the button for the desired session type.

(Illustration of GEIS scripting below).



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A prompt screen to initiate communications will be displayed. Select the 'Show Script' button to display or edit the script.



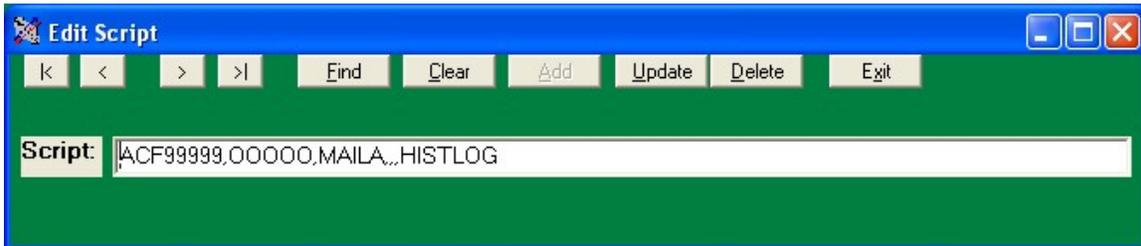
A bisync script is shown below. Click on the change button to edit the script. The first line will appear. Press the arrow buttons '>' to advance to the next record. Press the '>|' button to advance to the last record in the script. To change a line, press the 'Update' button after changes are made. Press the 'Delete' button to delete the line. To add a line, advance to a blank line, enter the data and press the 'Add' button.

(Illustration Below)



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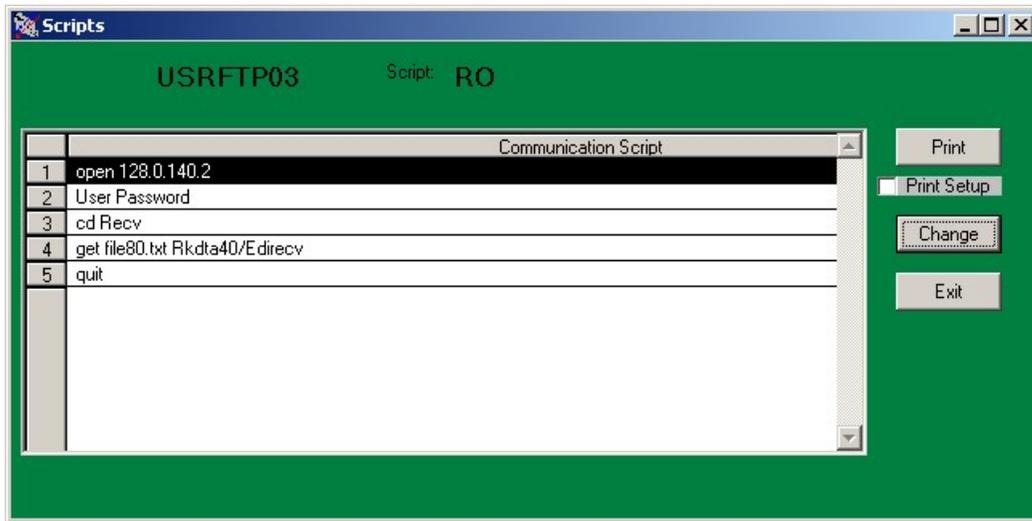
Update the line and press the update button. Press the Exit button when you have completed changing the script.



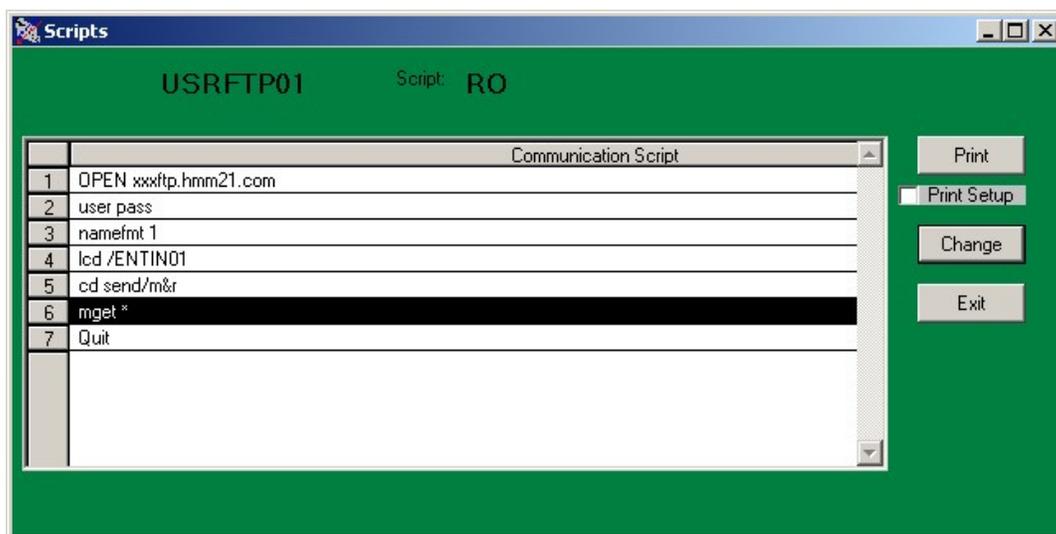
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FTP CHANGES IN V6R1 OR LATER. THE FTP CLIENT ATTEMPTS TO USE EXTENDED PASSIVE MODE FOR DATA CONNECTIONS. THIS IS A CHANGE FROM PREVIOUS RELEASES. NOT ALL FTP SERVERS SUPPORT THIS NEW FUNCTIONALITY AND USERS MIGHT SEE THE MESSAGE "550 SUBCOMMAND EPSV NOT VALID" ERROR BEFORE GETTING THE DATA. YOU CAN RESOLVE THIS BY ISSUING THE **SENDEPSV** COMMAND TO SHUT OFF THIS FUNCTIONALITY FOR THE CURRENT SESSION BEFORE ISSUING ANY DATA COMMAND.

Below is an example of the FTP scripts that are used with the USRFTP profiles.
Note: When receiving data with the Get command, if the file name is known, and the file is an 80 byte wrapped record, the get command can receive data directly into the ENTRACK Receive file RKDTA40/EDIRECV.



Otherwise if the file is a stream file, or not wrapped or the file names are not known, the data needs to be received into the AS/400 IFS (Integrated File System).

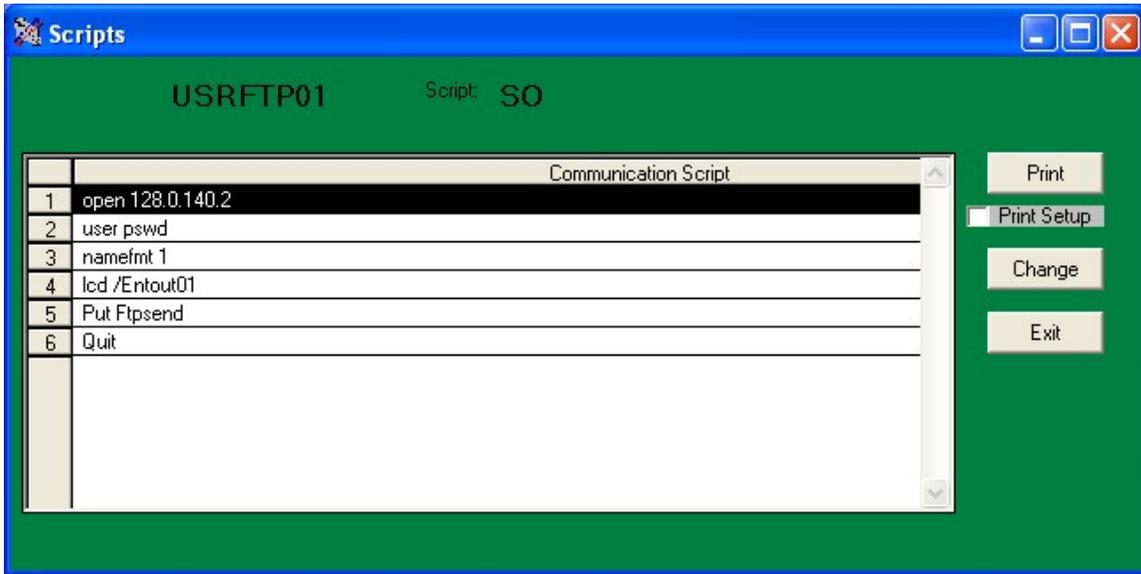


Note: The 'Namefmt 1' command directs the FTP session to the OS/400 IFS.

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The 'lcd /ENTIN01' command directs the files to be received in the IFS ENTIN01 folder. USRFTP01 profile should always use folder Entin01. USRFTP02 should use ENTIN02, etc...

To send a stream file, the OS/400 IFS (Integrated File System) is needed. An example script is listed below:



Note: When using Communication profile USRFTP01, all data will be placed in the file called Ftpsend in the ENTOUT01 folder. USRFTP02 will use ENTOUT02, USRFTP03 will use ENTOUT03, etc...

Requirements: When using stream files, the IFS are needed. License program 5722SS1 OS/4000 QShell Interpreter must be installed. (check product option 30 under Install Licensed Programs).

3.4 User Communication Profiles - Attributes

The User Communication profiles have multiple functions.

- Transmit EDI data over the Internet from the AS/400 using FTP or EDIINT AS2.
- Transmit EDI data over the Internet from a PC using FTP or EDIINT AS2.
- Import and export EDI data files outside of ENTRACK.

This section will refer to EDI using FTP. The next section refers to EDI over the Internet using AS2.

To change the Network Attribute, click on the "Attributes" button from the AS/400 communications display.

- Description. The Network Profile description can be changed. For AS2, this must match the AS2 profile.
- Encryption. Specify if encryption will be used. The options are No-Encryption, AS2, SSL, SSH using Key authentication, or SSH using password authentication.

If AS2-Encrypt is specified, ENTRACK will use the EDIINT AS2 protocol.

Otherwise if No-encryption, Encrypt-SSL (Secure Socket Layer), Encrypt-SSH (Secure Shell) is specified, ENTRACK will use FTP.

Note: OS/400 V5R2 or higher is required to use SSL without any 3rd party encryption software.

If SSH-Encrypt is specified, prior to ENTRACK GUI/400 5.3, user program RKUSR40/QCLLESRC member (EDUSRSSH) was needed to allow the SFTP command to be executed. This user program is not needed with ENTRACK 5.3 or higher. ENTRACK executes the sFTP command. Note: OS/400 V5R3 or higher is required to use SSH (using the 5733-SC1 product on the iSeries) without any 3rd party encryption software. The following licenses also need to be installed.

5733SC1 - IBM Portable Utilities for i5/OS. OpenSSH, OpenSSL, zlib

- Extension. Used if the file needs is to be time stamped with a file name extension or any other characters after the date. A maximum of 10 characters can be used. Ex: '.txt'.
- CCSID. Code Page used for FTP. *DFT uses the system default, otherwise a valid code page other than the default of 00819 can be used.
- Port. Port used for FTP. *DFT uses the system default, otherwise a port number other than the default of 00021 can be used. Note: This option is only available on OS/400 V5R2 or higher.
- Secure Connection. Secure Connection used for FTP. *DFT specifies *IMPLICIT when port parameter is 990 or *SECURE. Otherwise *DFT is *NONE. Other valid values are *NONE, *SSL, or *IMPLICIT.
- Method. By default, the FTP/HTTP protocol is used. If the outbound data needs to be sent in an e-mail attachment, check the E-mail PC check box or E-mail iSeries depending on where the e-mail will be sent from. NOTE: E-mail PC option is only valid for communication profiles USRFTP01- USRFTP10. All e-mail sent from the PC will use MS Outlook and have the subject titled 'ENTRACK EDI Data'. The file will be named

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Enrackout.txt. E-mail sent from the iSeries file name and subject name will be dcmfil if unwrapped and Ftpsend if wrapped. To change the subject name enter the CHGDOCD command as follows:

```
CHGDOCD DOC(DCMFIL) FLR(ENTRACK) DOCD('EDI Transaction from My company')
```

If you want like to change the file name, specify the file name in the Send Only script. Note file names are limited to a maximum length of 12. With 8 maximum before the decimal and 3 maximum after the decimal. Example Invoice1.txt. If Date stamp is specified, it will be overlaid as InYYMMDD.txt. If time Stamp is specified it will be overlaid as InHHMMSS.txt. Note: if file name is changed, the new file name must be used if using the CHGDOCD command with the DOCD parameter.

If the data is to be sent via FTP or HTTP as well as an e-mail attachment, set up the FTP script in the Send Only Script. As long as there is an Open statement, Entrack will try to send the data via FTP as well.

- Time Stamp File. Time stamp file option is used to append a date/time to the file name specified on the 'PUT' to line of the script in the USRFTP comm. sessions. None is the default and will write the file name specified as is.
 - If "Date with dashes" is selected, the date in YYYY-MM-DD format will be appended to the file name such as FTPSEND2017-01-31.
 - If "Date/Time with dashes" is selected, the date and time format YYYY-MM-DD-HH:MM:SS will be appended to the file name such as FTPSEND2017-01-31-12:47:18.
 - If "Date - No dashes" is selected, the date in YYYYMMDD format will be appended to the file name such as FTPSEND20170131
 - If "Date/Time - No dashes" is selected, the date and time format YYYYMMDDHHMMSS will be appended to the file name such as FTPSEND20170131124718.



- Outbound Format. Select if outbound data in this User FTP sessions should be wrapped (80 bytes), unwrapped (each segment on a separate line), or stream file. Also Check the Compress check box if the Stream file should not have trailing blanks in the last record.
- Inbound Format. Select if inbound data in this User FTP sessions should be wrapped (80 bytes), unwrapped CR/LF (each segment on a separate line using Carriage Control/Line Feed), Unwrapped LF Only (Line Feed Only), or stream file.
- Server Use. Check this option ONLY if your iSeries will be used as the Server for the FTP communication.

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- **Non EDI Data.** Check this option if the data transmitted will be non EDI data. No EDI data will be sent or received to the ENTRACK Queues. Files transmitted will be the files specified in the scripts. The time stamp can also be used. Outbound Format Attributes needs to be Unwrapped when sending DB2/400 files.

Sample script to Send Non EDI Data.

```
Open FTPSite
User Password
lcd RKDTA40 (Replace RKDTA40 with library name where file exists).
Put DB2400file testfile.txt
Quit
```

- **Clear Sent file.** Check this option only if you would like the non EDI data to be cleared after a successful FTP transmission.
- **Send Single Interchange.** Check this option if you would only like to send one Interchange per transmission. This will send a separate communication session for each Interchange.

The screenshot shows a window titled "Change Communication Attributes" with a sub-title "Change Network Attributes" for network "USRFTP02".

Fields include:

- Description: User FTP Network 2
- Encryption: No Encryption
- Extension: .txt
- Port: *DFT
- Secure Connection: *DFT
- CCSID: *DFT

Method options (radio buttons):

- FTP/HTTP
- E-Mail - PC
- E-Mail - ISeries
- Both Email PC, FTP

Time Stamp File options (radio buttons):

- None
- Date with Dashes
- Date/Time with Dashes
- Date - No Dashes
- Date/Time - No Dashes

Outbound Format options (radio buttons and checkbox):

- Wrapped
- Unwrapped
- Stream File
- Compress Stream

Inbound Format options (radio buttons):

- Wrapped
- Unwrapped (CR/LF)
- Unwrapped (LF Only)
- Stream File

Non EDI Data options (checkboxes):

- Non EDI Data
- Clear Sent File

Other options (checkboxes):

- Server Use
- Send Single Interchange

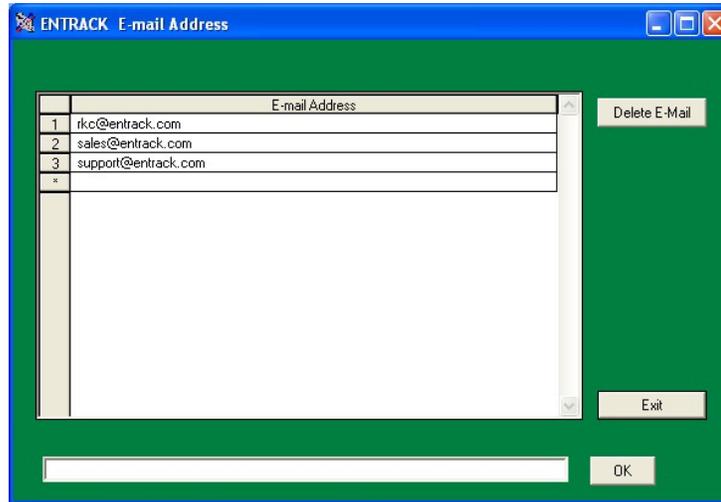
Buttons at the bottom: E-Mail Address, Cancel, Update.

Requirements: When using stream files, the IFS is needed. License program 5722SS1 OS/4000 QShell Interpreter must be installed. (check product option 30 under Install Licensed Programs).

3.4.1 Setting up E-mail Addresses

When “E-mail” or “Both” method is checked from the Network Attribute display, the E-mail Address button will be enabled. Here is where to enter the E-mail address of the recipient’s who will receive the outbound data as an attachment.

Click on the bottom line in order to add E-mail addresses.



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3.4.2 EDI using FTP from AS/400

The following 99 User sessions can be used when transmitting EDI data from the iSeries400:

USRFTP01- USRFTP99

A corresponding "ENTIN" folder needs to be set up within the IFS root directory to be able to receive data. This allows for multiple files to be received and also allows for long file names coming from a UNIX server to be received, avoiding the OS/400 10 byte file name limitation. Example: In order to use the USRFTP01 profile, the folders ENTIN01 needs to be created. The directory can be created in Operation Navigator or with the MKDIR command. "MKDIR ENTIN01". Inbound data is received into the folder and then sent to the ENTRACK Inbound Queue.

The 1st line in the FTP script is the Open statement identifying the IP address or the FTP Domain name to connect to.

The 2nd line is the Logon name and the password.

The 3rd line must say NAMEFMT 1. This is needed to access the IFS through FTP.

The 4th line used LCD /ENTIN01. This will put all the files in the IFS ENTIN01 folder.

The 5th line is MGET *. The "*" will get all of the files.

The last line is "QUIT".

If the files are located in a specific directory on the server, you will need to add a "CD Directory name" before the MGET command.

(Illustration below)



To send files through FTP, as wrapped or Unwrapped, the IFS folders are not required. The IFS folders are required if a stream file needs to be sent. ENTRACK writes all wrapped User FTP profiles to file RKDTA40/FTPSEND. Unwrapped are written to file RKDTA40/DCMFIL.

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Stream files will need the 'NAMEFMT 1' command, followed by the change local directory command 'lcd /Entin01'. The script to send files should be as follows:

The 1st line in the FTP script is the Open statement identifying the IP address or the FTP Domain name to connect to.

The 2nd line is the Logon name and the password.

The 3rd line is the PUT Command. "PUT RKDTA40/FTPSEND". NOTE: This will name the 80 byte wrapped record file FTPSEND on the FTP server. If you wish to give the file a different name, insert a space and then the name of the file you wish it to be named. Example: "PUT FTPSEND Newfile.txt". Also if you specify Unwrap data (Change Network option) you must call the file on the PUT command DCMFIL. Example "PUT DCMFIL".

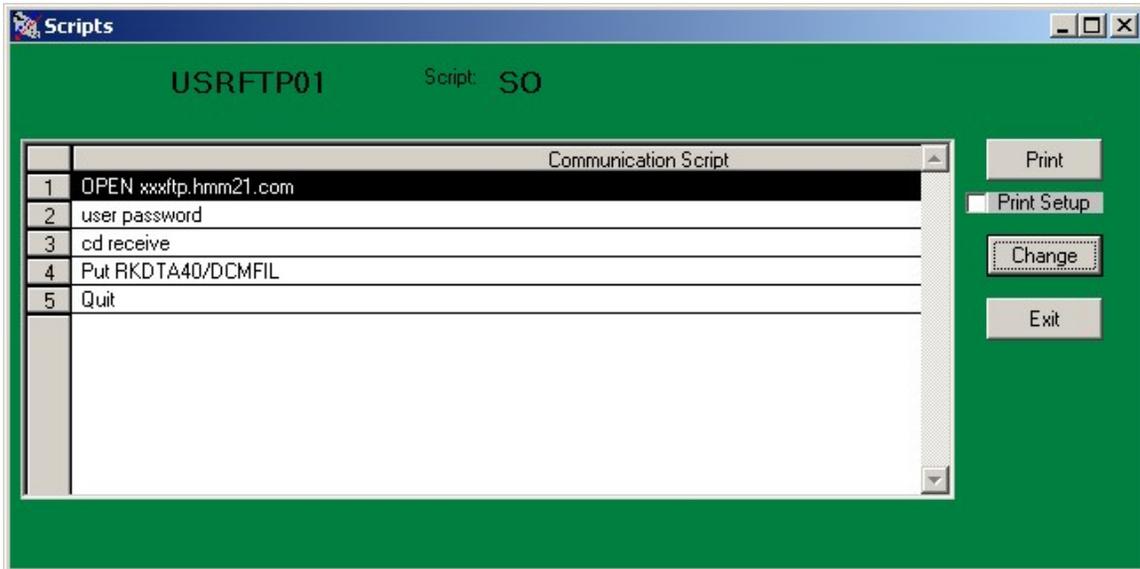
The last line is "QUIT".

Example: Sending a 80 byte wrapped record file. (File name is 'FTPSEND'.)



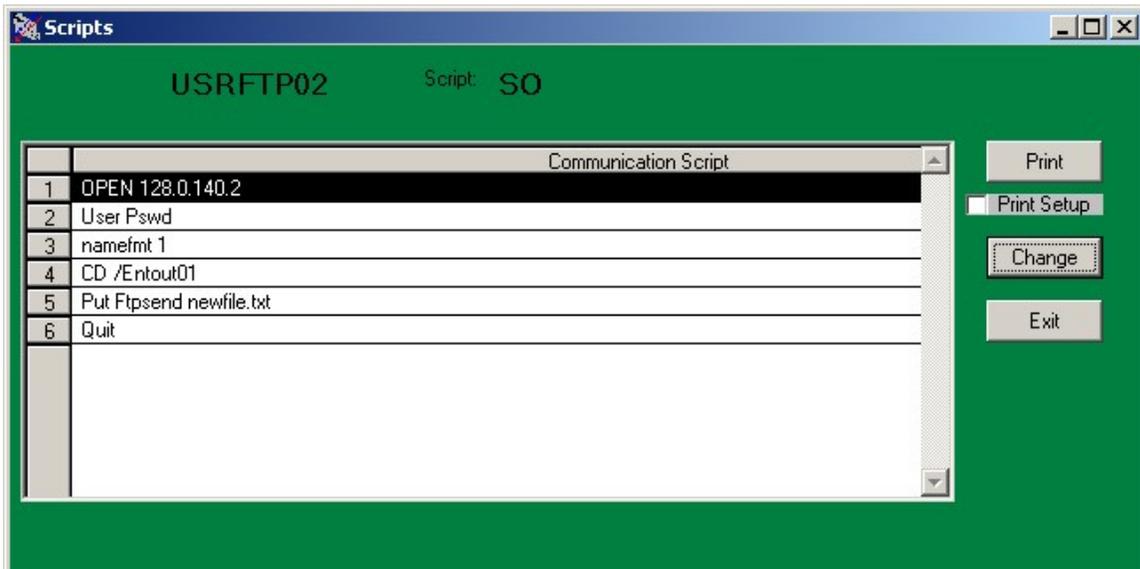
Example: Sending an unwrapped record file. (File name is 'DCMFIL'.)

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If the files need to be put in a specific directory on the server, you will need to add a “CD Directory name” before the PUT command.

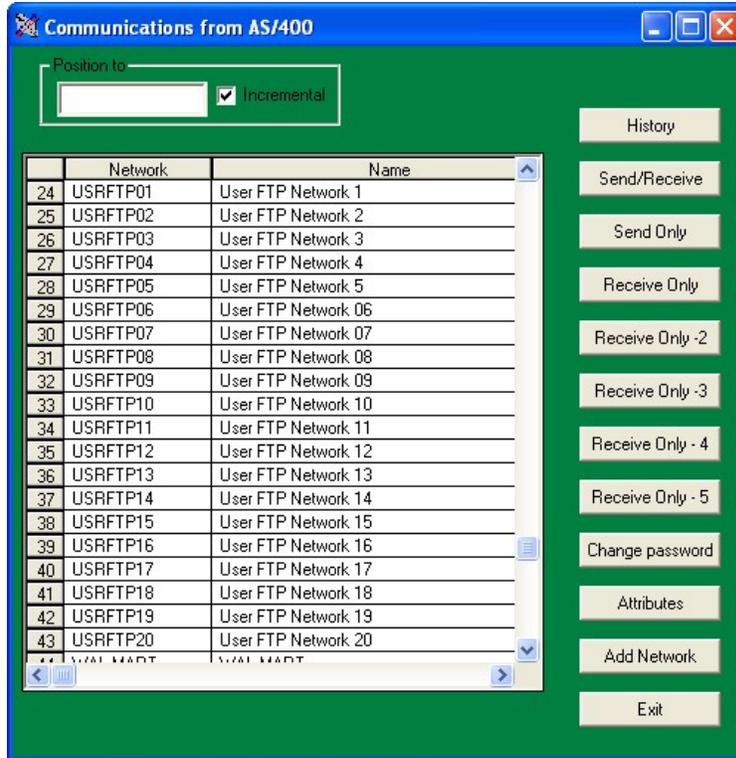
Example: Sending a stream file.



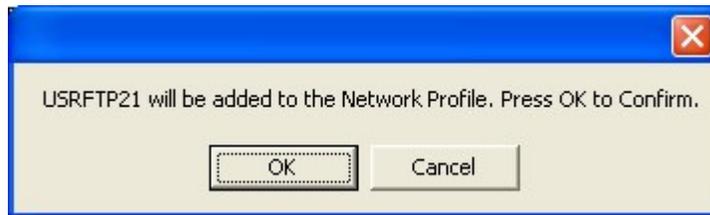
In this example ENTRACK will name the file newfile.txt before sending it from the IFS.

3.4.3 Adding New User Profiles.

ENTRACK is installed with 20 User profiles. USRFTP01 – USRFTP20. Eighty more additional profiles can be added if needed by clicking on the 'Add Network' button.



The following message will appear:



Press OK. The following message will appear



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3.4.4 EDI using FTP from the PC

Transmitting EDI over the Internet from the PC can be used instead of performing the EDI communications from the iSeries400. Instead, the EDI data is sent to a text file on the PC. The following User sessions can be used when transmitting EDI data from the PC:

```
USRFTP01  USRFTP01  USRFTP03  USRFTP04  USRFTP05  USRFTP06  
USRFTP07  USRFTP08  USRFTP09  USRFTP10
```

The scripts for EDI over the Internet from a PC are similar to the AS/400 version. When receiving data, the files are sent to a folder within the ENTRACKDTA400 folder such as C:\Entrackdta400\Usr1. The MGET command in conjunction with the USR1 sub directory allows for multiple files to be received. The USR1 sub directory corresponds to the USRFTP01 network profile. Example: USRFTP02 would use directory Entrackdta400\USR2.

The 1st line in the FTP script is the Open statement identifying the IP address or the FTP Domain name to connect to.

The 2nd line is the Logon name.

The 3rd line is the password.

The 4th line is optional and uses CD to change directory if needed.

The 5th line is MGET command. MGET *.* C:\Entrackda400\USR1 will put all of the files into the Entrackdta\Usr1 folder. Entrack will process all files in the folder and load it in the Inbound Queue.

The last line is "QUIT".



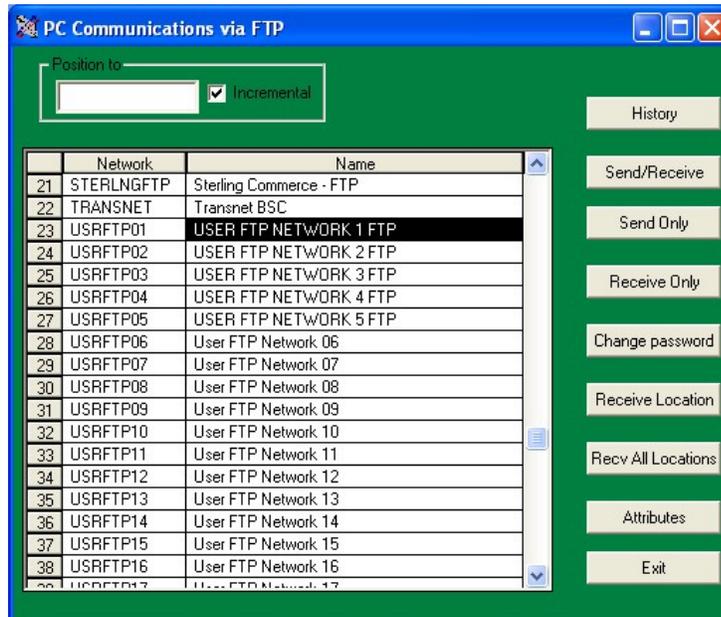
Entrack EDI System Documentation

If only one file is to be received instead of multiple files, you can specify to use the GET command with a single file name by changing the script as follows:



The GET command specifies the name of the file on the remote host and also where the file name is to be received. The sub directory USR1 is not used. The file name USRIN1.DAT will be put in the Entrackdta400 folder. If we were using communication profile USRFTP02, the get command would say GET Remotefile C:\Entrackdta400\USRIN2.DAT.

The Network attributes specifies the type of encryption, and method used to transmit the data. From the PC Communications via FTP screen, click the "Attributes" button.



Entrack EDI System Documentation

The Network Attributes screen is used to specify if encryption will be used. The options are No Encryption, PGP Encryption, or AS2 Encryption.

Also specify if the data will be transmitted via FTP/HTTP or E-mail, or both.

Change Communication Description

Network Attributes

USRFTP01

Description: USER FTP NETWORK 1 FTP

Encryption: No Encryption
Encrypt - PGP
Encrypt - AS2

Password:

Receive Single File:

Method

FTP/HTTP
 E-Mail
 Both

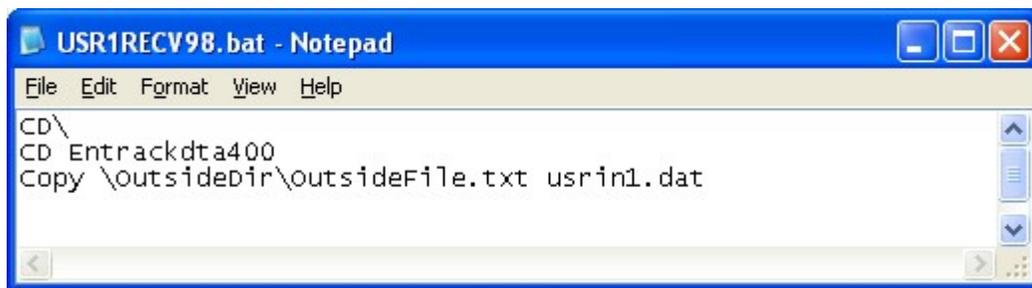
E-Mail Address Cancel Update

If PGP Encryption is to be used, a password needs to be specified.

3.4.5 Automating Import and export EDI data outside of ENTRACK

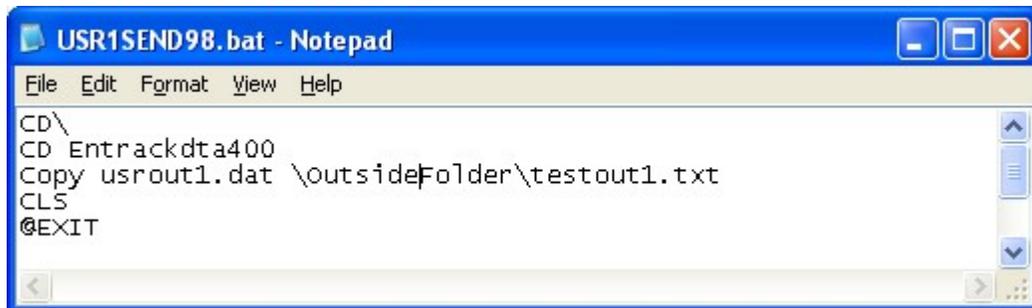
Entrack is capable of importing and exporting data to and from outside sources. This can be accomplished by modifying the BAT files within the Entrackdta400 folder on the PC when the outside data resides on the PC.

To import data from an outside source, the data needs to be copied to specific files. This can also be accomplished by using the FTP PC User Communication profiles. When using the USRFTP01 Network, the BAT file Entrackdta400\Usr1rcv98.Bat file needs to be modified to copy to the file \Entrackdta400\Usrin1.dat. For USRFTP02 network, the BAT file Entrackdta400\Usr2rcv98.Bat file needs to be modified to copy to the file \Entrackdta400\Usrin2.dat and so forth.



```
USR1RCV98.bat - Notepad
File Edit Format View Help
CD \
CD Entrackdta400
Copy \outsideDir\outsideFile.txt usrin1.dat
```

When sending Entrack data for the USRFTP01 Network to an outside source, the BAT file \Entrackdta400\Usr1Send98.Bat needs to be modified to copy Entrackdta400\Usrout1.dat to the outside destination. The USRFTP02 Network would need to have \Entrackdta400\Usr2Send98.Bat modified to copy Entrackdta400\Usrout1.dat to the outside destination and so forth.



```
USR1SEND98.bat - Notepad
File Edit Format View Help
CD \
CD Entrackdta400
Copy usrout1.dat \outsideFolder\testout1.txt
CLS
@EXIT
```

3.4.6 Manually Import and export EDI data outside of ENTRACK

Entrack data can manually be imported and exported from and to the ENTRACK communication queues when using another communication methods other than ENTRACK communications...

- To send Oubound data to another source, execute the following command:
CALL RKPGM40/EDI660C Parm('NETWORK')

(Replace Network with the communication queue). This will take all Outbound batches of Queued data from the designated Network queue, and put it in the file RKDTA40/EDISEND.
- Receiving Inbound data into the ENTRACK Inbound communication queue.
 - If file is 80 byte wrapped record format, the file needs to go into file RKDTA40/EDIRECV.
CALL RKPGM40/EDI690C parm('NETWORK' 'S')
(Replace Network with the proper Network queue).
 - If the file is not in 80 byte wrapped record format with each segment is on a separate record, the file needs to go into file RKDTA40/PF512.
CALL RKPGM40/EDINBR30
CALL RKPGM40/EDI690C parm ('NETWORK' 'S')
(Replace Network with the proper Network queue).
 - If the file is a stream file or you need to process multiple files, then the files need to go into the IFS as follows: Ex: USRFTP01
Files need to go into /Entin01.
CALL USRAPPIFS Parm('USRFTP01' '/ENTIN01/' '*DFT')

3.5 SSH Encryption

SSH encryption uses the sFTP tool to send and receive data. The sftp interface is designed to look just like the ftp interface. The sftp tool encrypts the connection and can use key pairs or passwords for authentication. When using key authentication, the public/private-key pair needs to be generated with the ssh-keygen command.

NOTE: If all possible key authentication is preferred over password authentication. Password authentication requires several more steps to set up. With Password authentication, the expect tool needs to be downloaded to the IFS. <https://core.tcl-lang.org/expect> . The expect commands are needed in the Shell script. Also Putty needs to be downloaded to a Windows PC that is connect to the IBM Power i. <https://www.putty.org/> The Putty.exe is all that is needed. This is used to emulate as a Unix terminal for a first time connection.

Requirements:

- OS/400 V5R3M0 or higher.
- TCP/IP installed and working.
- Portable Application Solution Environment (PASE – 5722-SS1, option 33) installed.
- IBM Portable Utilities for i5/OS (5733-SC1)
- Qshell (5722-SS1, option 30)

Sftp always uses port 22. The script needs to be an ASCII file and put in the IFS. To create a script file type the following example command.

```
EDTF STMF('/tmp/myscript.sftp')
```

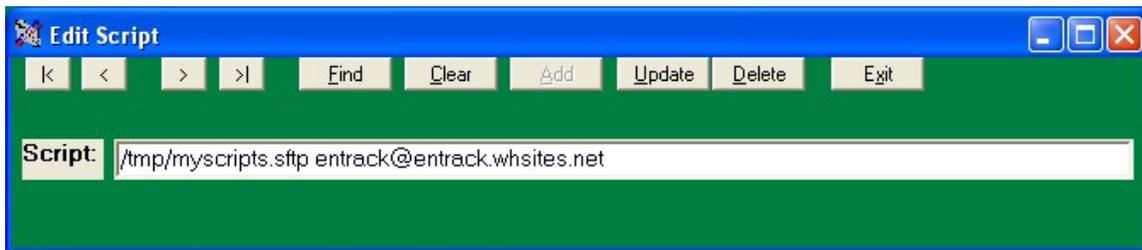
Here is where you type your FTP commands. Note: Before entering the FTP commands, press F15 to edit the stream file EOF option. Change EOF to *LF. This is most compatible with the way things are done in Unix. Then enter your FTP command. Example below.

```
CD send
```

```
Put /entout03/ftpsend newfile
```

Now that the script file is created, we need to specify this script name in the FTP script communications. Normally with FTP, we would enter the script here. Instead we specify the file name of the script in the IFS that has the FTP commands along with the SSH login.

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With iSeries Communications attributes, select Encryption-SSH.

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Change Network Attributes
USRFTP01

Description: CCSID:

Encryption: Extension: Port:

Secure Connection:

Method

- FTP/HTTP
- E-Mail - PC
- E-Mail - iSeries
- Both Email PC, FTP

File

- None
- Date with Dashes
- Date/Time with Dashes
- Date - No Dashes
- Date/Time - No Dashes

Outbound Format

- Wrapped
- Unwrapped
- Stream File
- Compress Stream

Inbound Format

- Wrapped
- Unwrapped (CR/LF)
- Unwrapped (LF Only)
- Stream File

Non EDI Data

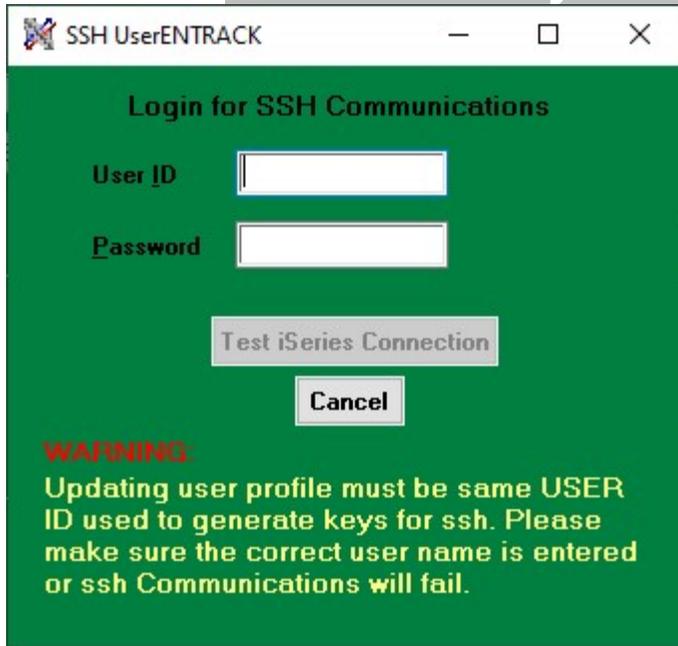
- Non EDI Data
- Clear Sent File

Server Use

Send Single Interchange

When Encrypt-SSH key or Encrypt SSH-password is selected, you will be prompted with a user ID and password.

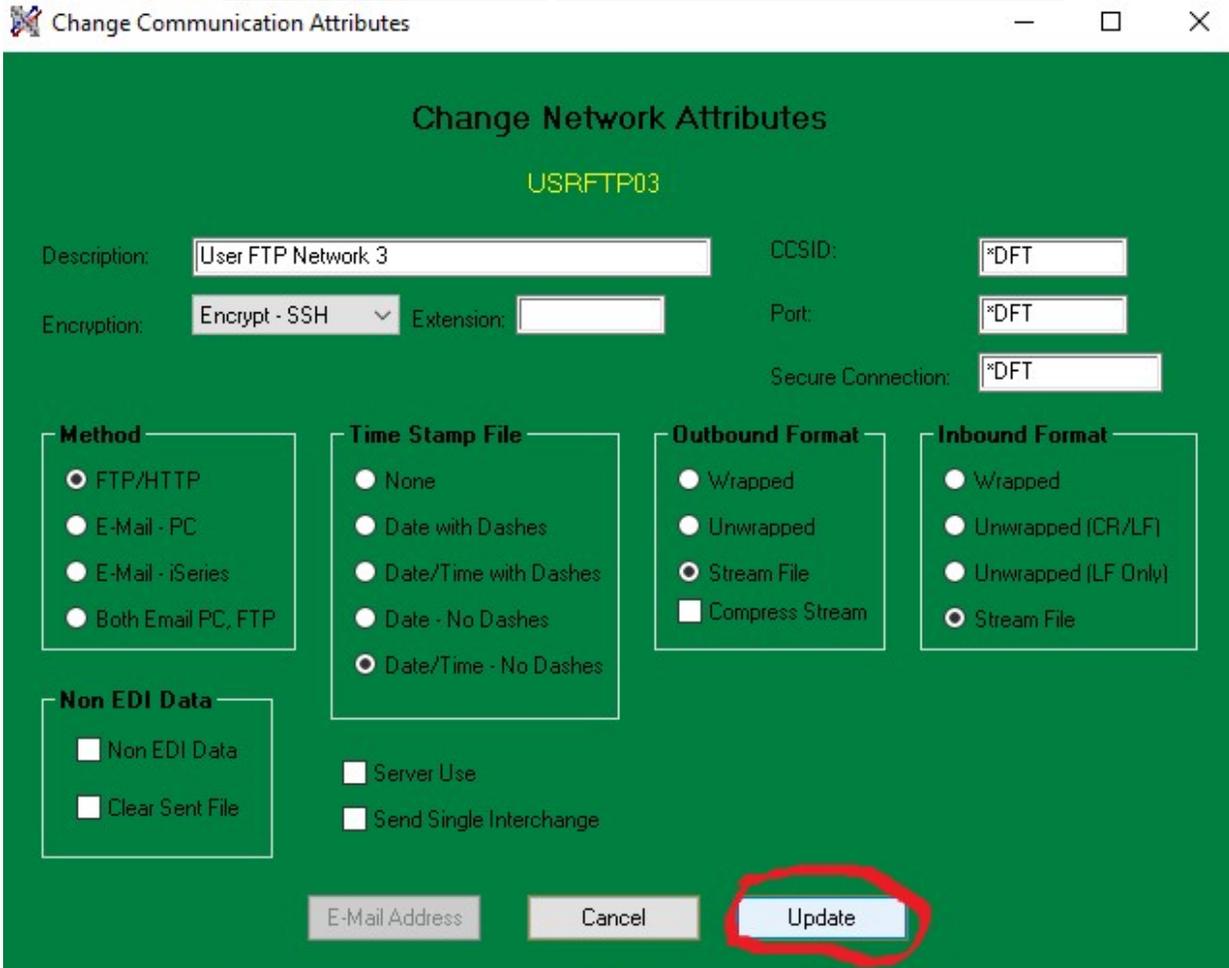
This is only needed if you will be running your communication job other than from the User ID that downloaded the sftp Servers ssh keys when logging in for the first time.



Run the 'Test iSeries Connection' to verify a valid user ID and password is entered. If valid you will receive message that the UserID and password entered is valid.



After Clicking OK, next click update to update the user and password.



Change Network Attributes

USRFTP03

Description: CCSID:

Encryption: Extension: Port:

Secure Connection:

Method

- FTP/HTTP
- E-Mail - PC
- E-Mail - iSeries
- Both Email PC, FTP

Time Stamp File

- None
- Date with Dashes
- Date/Time with Dashes
- Date - No Dashes
- Date/Time - No Dashes

Outbound Format

- Wrapped
- Unwrapped
- Stream File
- Compress Stream

Inbound Format

- Wrapped
- Unwrapped (CR/LF)
- Unwrapped (LF Only)
- Stream File

Non EDI Data

- Non EDI Data
- Clear Sent File

Server Use

Send Single Interchange

If communications are run from a different user ID than generated the ssh keys, a separate program must be called.

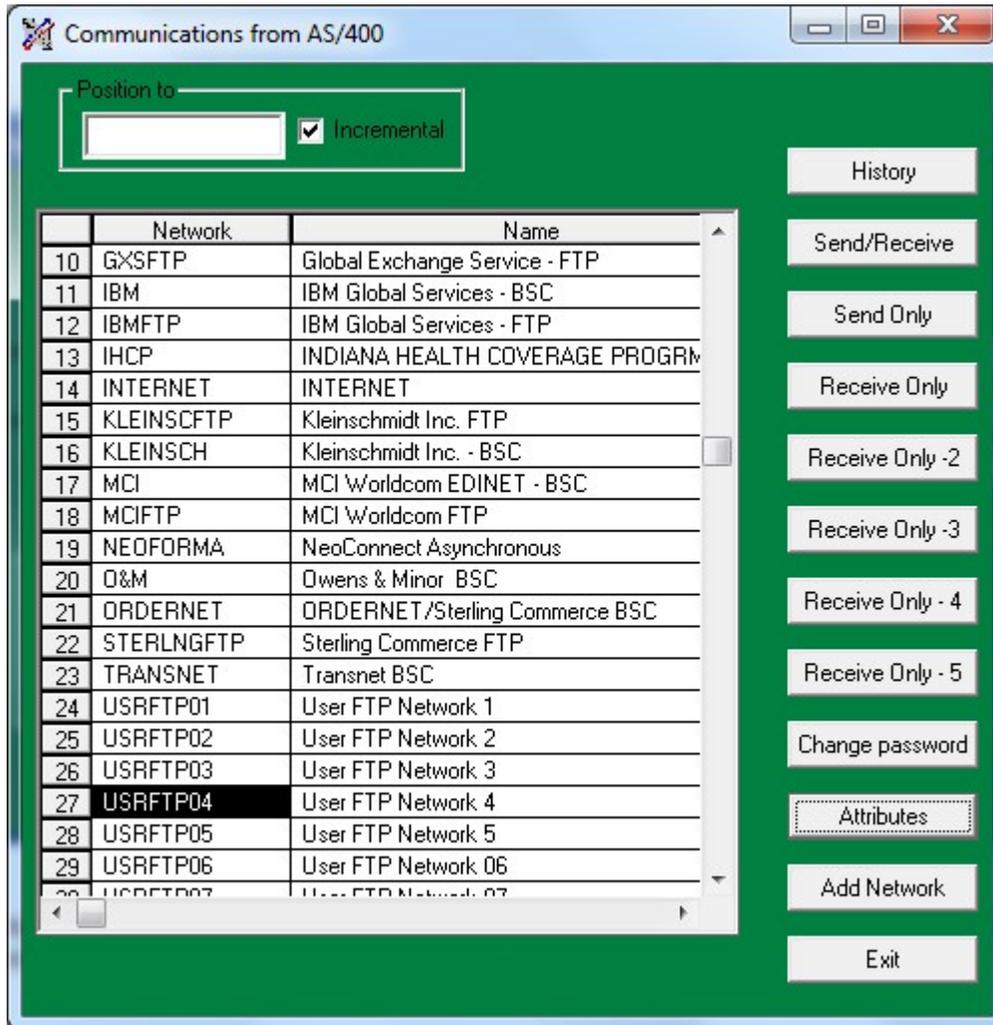
CALL RKPGM40/EDCHGUSER PARM('USRFTPxx' 'SO')

(Replace the first parameter with the network profile. The second parameter will be either 'SO' or 'RO' for send or receive.

Note: Only the EDCHGUSER program will change the User of the communication job to the User ID entered in the Network attributes for Encrypt-SSH.

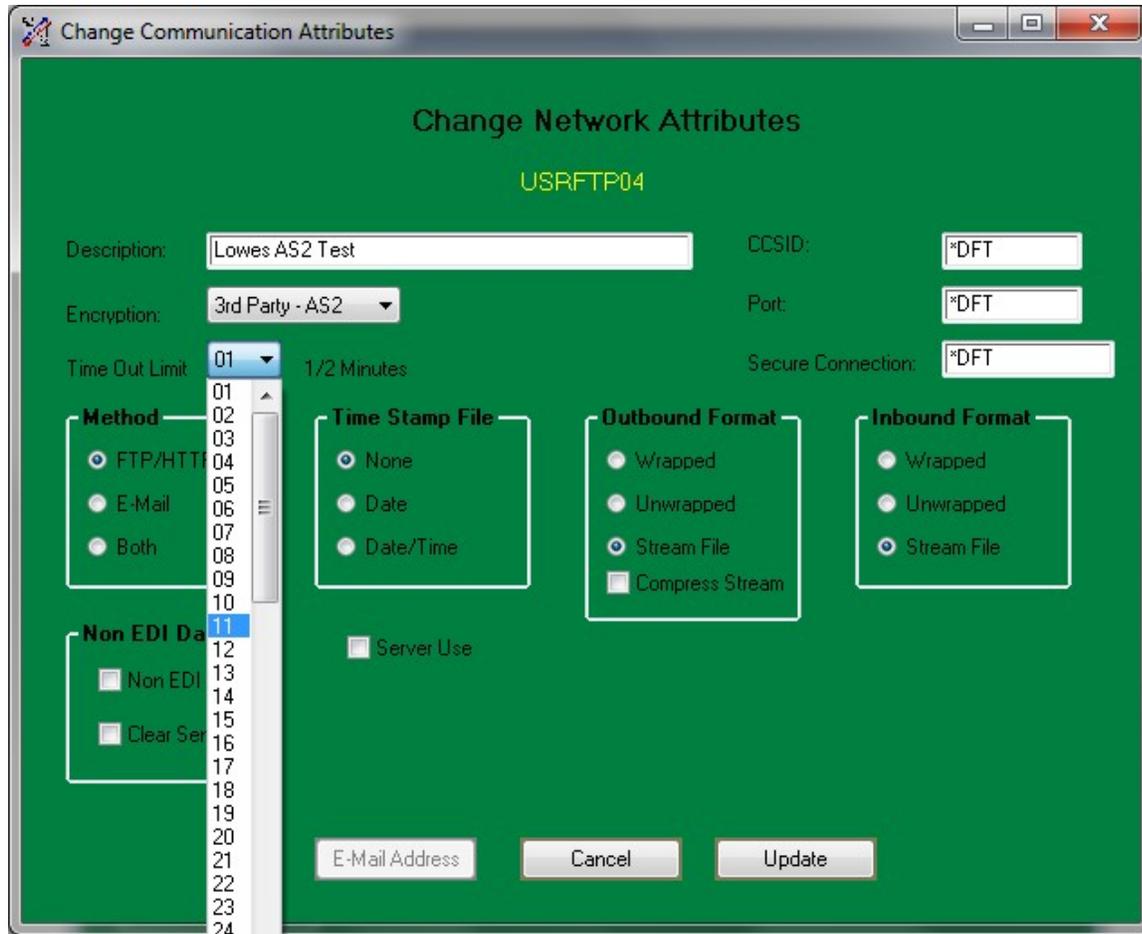
3.6 AS2 and 3rd party Communications

AS2 communications are set up within the AS2 software. ENTRACK works seamlessly with AS2 and other 3rd party software. ENTRACK links the Network name to the host name in the AS2 software. Example: If the host name is Dark-Star, select a User or pre-configured Network name such as USRFTP01, then click the "Attributes" button.



Change the description to LowesAS2Test, and then Encryption to 3rd Party-AS2.

A Time out limit Listbox will appear. This tells ENTRACK how long to wait for the 3rd party software to complete sending. The default is 5 minutes (10 ½ minute Intervals). If the data is not sent successfully within that time period, the job will complete with a failed status.



The host name defined with the AS2 software needs to have the same name as the Network Description within ENTRACK.

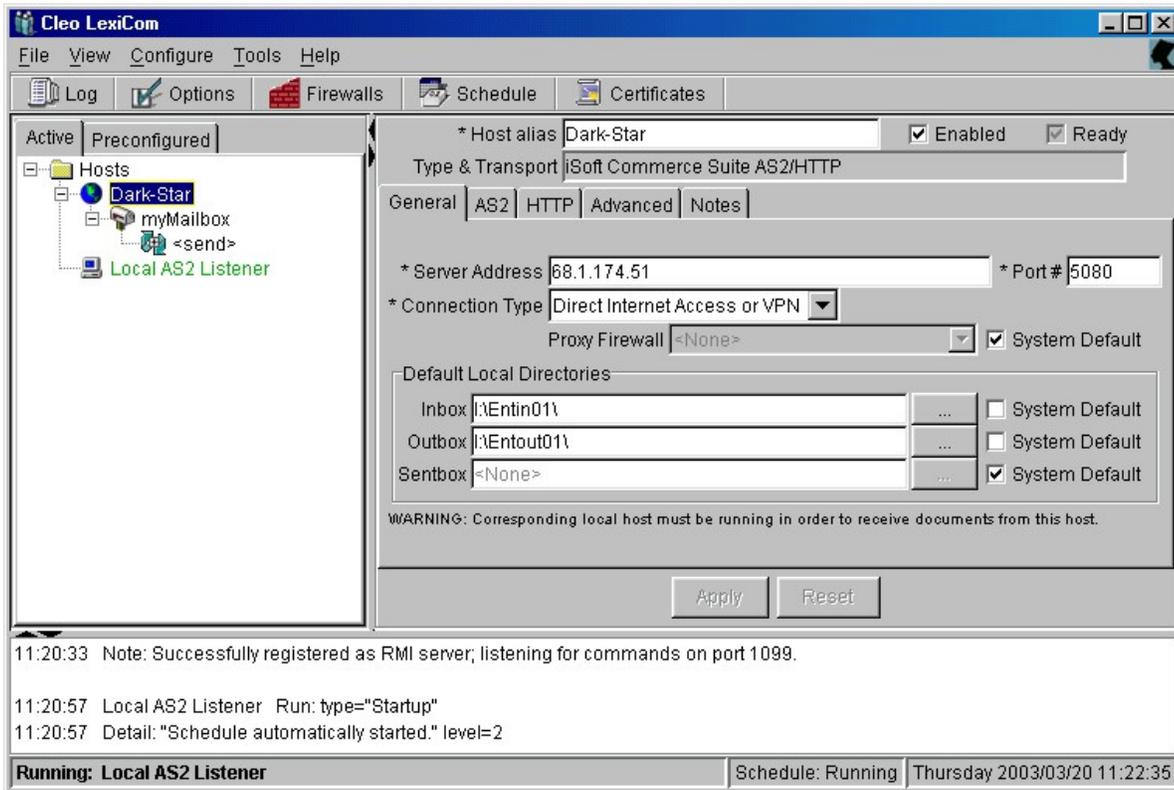
Requirements using CLEO Lexicom AS2:

OS/400 Release V4R5 or higher.

OS/400 V4R5: Install PTF SF61859 and SF61937

TCP/IP must be properly configured on the AS/400 and connectivity between a client PC and the iSeries server must be established and working correctly.

3.7 Process Communications



Communications can be submitted from a menu option, scheduled, or programmed to start a communication session during an event such as when a shipment is made.

When the communication session is complete, a break message is sent to the System Console, indicating if the session ended normally or if there was a line failure.

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Scheduling Communication jobs.

The following lists the CL program that needs to be called and the parameters to schedule a communication job.

To run in Batch:

CALL RKPGM40/EDSBMCOMB PARM('NETWORK' 'SESSION')

To run Interactive:

CALL RKPGM40/EDSBMCOM PARM('NETWORK' 'SESSION')

Ex: CALL RKPGM40/EDSBMCOM PARM('GEIS' 'SR')

Listed below are the valid network and sessions names.

Networks:

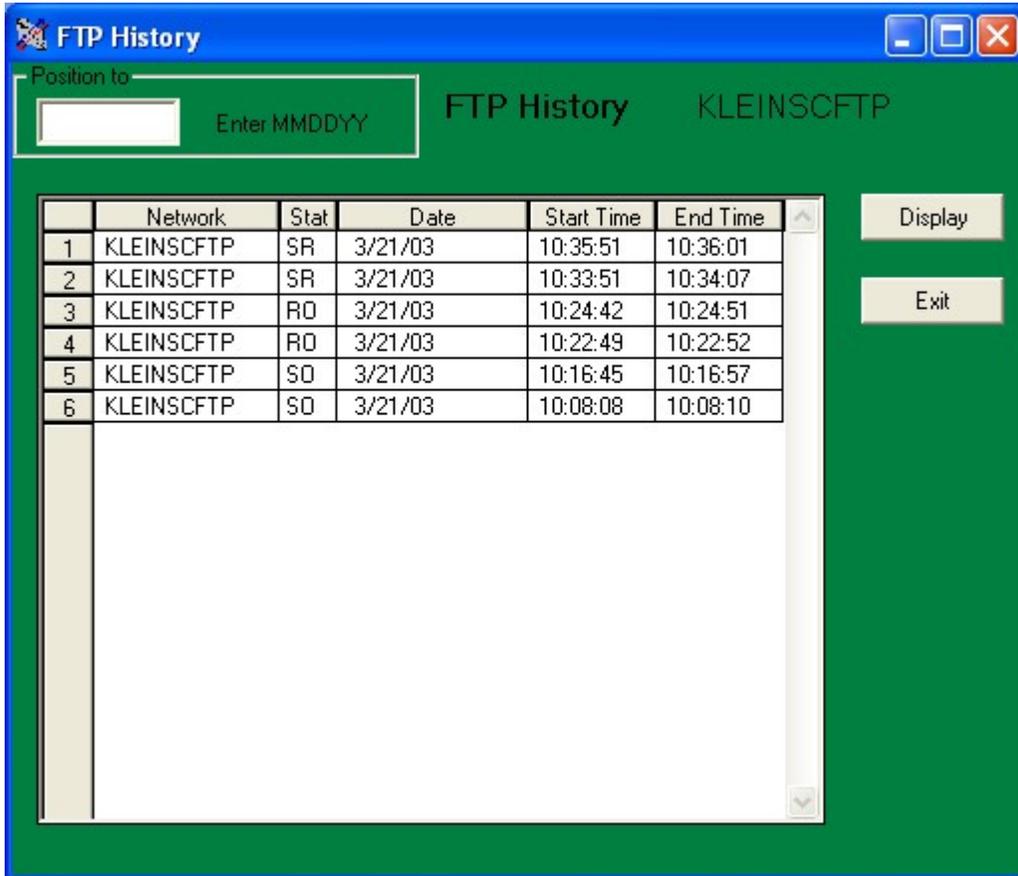
AAFES	ANSINET	CHRYSLER	CSK
EDS	FORD	GXS	GPCNET
KLEINSCHMIDT	<u>STERLING</u>	TRANSNET	WALMART
ANSINETFTP	GXSFTP	STERLNGFTP	KLEINSCFTP
USRFTP01 - 99			

Sessions:

SO Send-Only
RO Receive Only
SR Send/Receive
RC Receive only - 2nd session
RF Receive only - 3rd Session
RQ Receive Only - 4th Session
RD Receive Only – 5th Session

3.8 Communication History Logs

ENTRACK provides log history for each FTP session. Each session shows type of session, RO (Receive only), SO (Send Only), SR(Send/Receive), Date, start and end time of the FTP session.



Click the session and the display button to show the details of the session.

(Illustration below)

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The screenshot shows a window titled "Display FTP Session" with a green background. At the top left, it says "KLEINSCFTP" and "Session: SR". Below this, there are three input fields: "Date: 03/21/03", "Start Time: 10:35:51", and "End Time: 10:36:01". The main area is a table titled "FTP Log" with 18 rows. The first row is highlighted in black. The last row is partially cut off. At the bottom right, there is an "Exit" button.

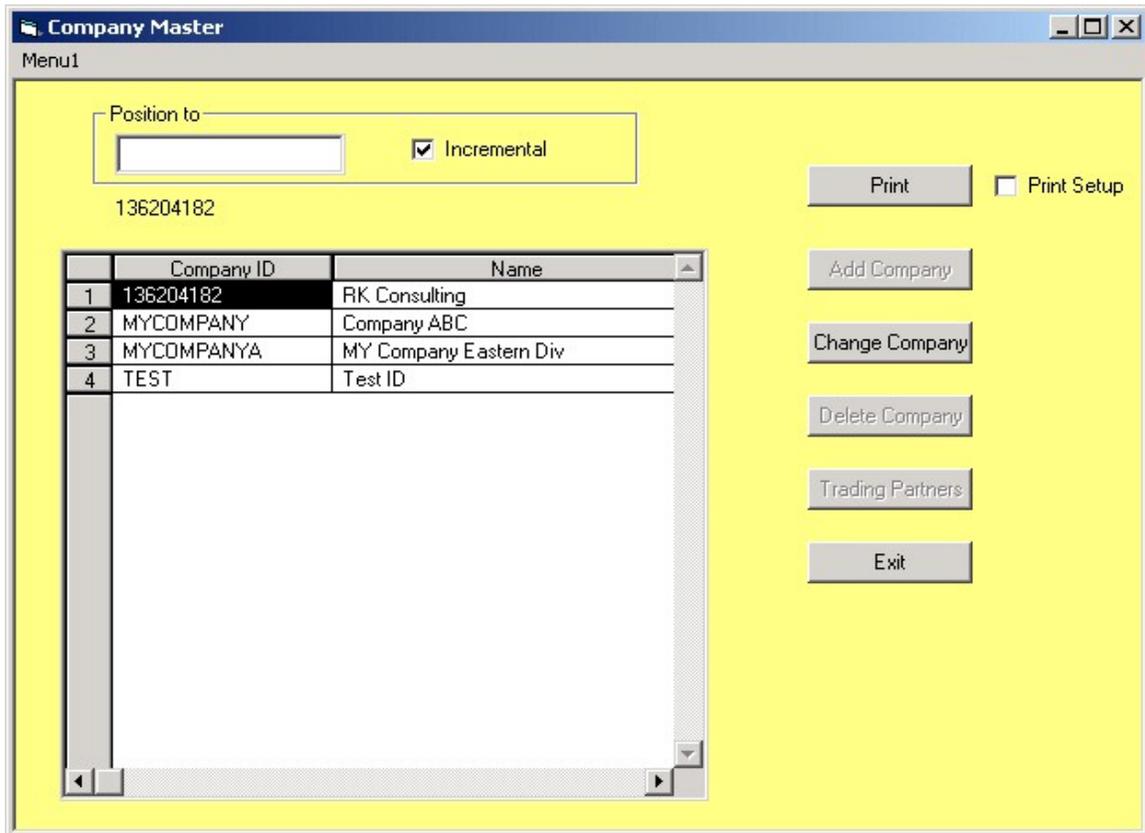
FTP Log	
1	Output redirected to a file.
2	Input read from specified override file.
3	Connecting to host ec4.ecedivan.com at address 63.173.209.40 using port 21.
4	220 Kleinschmidt EDI FTP server ready.
5	Enter login ID (ron):
6	331 Password required.
7	230 User logged in, proceed.
8	UNIX Type: L8
9	Enter an FTP subcommand.
10	> PUT RKDTA40/FTPSEND
11	227 Entering Passive Mode (63,173,209,40,14,79)
12	150 Opening Data connection (68.9.7.252,20d)
13	226 Transfer Complete.
14	0 bytes transferred in 0.087 seconds. Transfer rate 0.000 KB/sec.
15	Enter an FTP subcommand.
16	> GET EDIDATA RKDTA40/DCMFIL (REPLACE
17	227 Entering Passive Mode (63,173,209,40,14,81)
18	150 Opening Data connection (68.9.7.252,20d)

4 Establishing Companies

Setting up of companies should be established first. A company is your entity. A separate company can be set up for each division that your company is using for EDI. For every communication ID that your company will be using, a separate company should be set up.

From the ENTRACK main menu, select Company Maintenance. Selections can be made from the menu on the top of the ENTRACK main menu or by dragging to the text. Each option is highlighted in red when you drag over. Select the button to Add, Change, or Delete a company. The print button will print a list of all companies.

(Illustration below).



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When adding a company, the following data needs to be entered:

ISA qualifier and Identifier.

GS Identifier

Company name

Application Purge days - the number of days to keep application data such as the data created at invoice time. Purging the data can be run on the Process Transaction Menu.

History Purge days - the number of days to keep the raw EDI data that was sent and received. Purging the data can be run from the Process Transactions menu.

(Illustration below).

The screenshot shows a dialog box titled "Company Master Maintenance" with a "Change" tab. The dialog has a yellow background and a blue title bar. It contains the following fields and values:

Field	Value
Company ID	MYCOMPANY
Name	Company ABC
Qualifier	01
GS Company ID	MYCOMPANY
Purge Days - App	60
Purge Days - Comm	60

At the bottom of the dialog, there are four buttons: "Cancel", "Delete", "Update", and "Add".

5 Establishing Trading Partners

A trading partner is the customer or vendor that you will be trading EDI documents with. ENTRACK supports both the X12 and EDIFACT standards. The X12 standard consists of the ISA level for the trading partner as a whole, and the GS level for the group level of each document. The EDIFACT standard consists of the UNB level for the trading partner as a whole, and the UNG level for the group level of each document.

5.1 X12 Entering Interchange level criteria:

When entering trading partners, you must first establish the Interchange level criteria. Select X12 Trading Partner Maintenance from the menu.

- ISA qualifier and Identifier.
- Trading Partner Name.
- Company qualifier and Identifier. The qualifier and ID used when setting up the company is the default. These fields can be changed when the trading partner is requiring your ID to be changed.
- Interchange Standards (required for ISA segment – element 12)
- Responsible Agency Code. 'X' for X12 and 'S' for UCS and WINS.
- Last inbound control number. Automatically incremented by one when an inbound document is received from the trading partner. This field can be maintained if an adjustment is needed. To bypass this usage, enter 999999999. This may be needed for trading partners who do not send control numbers in sequence.
- Last outbound control number. Automatically incremented by one when an outbound document is sent to the trading partner. This field can be maintained if an adjustment is needed.
- Acknowledgment Requested (0 or 1). 0-No interchange Acknowledgment requested. 1-Interchange Acknowledgment Requested (TA1).
- Multiple Groups per Interchange. Check to put multiple group levels (GS...GE) for the same transaction type within the same interchange (ISA...IEA).
- Block Duplicate Interchanges. Checking this option will prevent interchanges with the same ISA control number from the same trading partner from

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processing. A message will be sent to QSYSOPR as well as a report will print.

- Sub element separator. (Required for ISA segment – element 16). The hex value needs to be entered. Default is a hex 6E, which is the '>' character.
- Element separator. The delimiter between elements. The hex value needs to be entered. Default is a hex 5C, which is the '*' character.
- Segment separator. The delimiter between segments. The hex value needs to be entered. Default is a hex 15. This is a non-displayable value.
- ISA-11. Standard Identifier/Repetition separator. Contains the value used in ISA-11 element. Repetition Separator is only used for versions 004020 and higher. Prior to version 004020, the ISA-11 element was only used for the Interchange Control Standards ID which should always have a value of 'U'. Since version 004020, ISA-11 can also be used as the repetition separator. This is used if an element is allowed to repeat in the standards. The value cannot be used in the data.
- Functional Acknowledgement Level. Determines how the 997 or 855 acknowledgement should be sent and Received. Valid codes are 'S', 'D', 'N', 'A', 'B' or 'P'. (Summary, Detail, None, Both 997 and 855 and 855 only.
 - (S) Summary Level, acknowledges the total for each group level when generating the 997.
 - (D) Detail acknowledges each transaction within the group level when generating the 997.
 - (N) None does not create a 997 Functional Acknowledgement for an Inbound Transaction.
 - (P) Creates the 855 Acknowledgement (Inbound Only) for the inbound 850 transaction and does not create a 997.
 - (A) Creates both the 855 Acknowledgement (Inbound Only) and the summary level 997. A combination of 'S' and 'P'.
 - (B) Creates both the 855 Acknowledgement (Inbound Only) and the detail level 997. A combination of 'D' and 'P'.The default is 'S'.
- Network. The Communication network used for the trading partner.
- Authorization Security.
 - Authorization Info Qualifier. Value is placed in ISA-01
 - Authorization Information. Value is placed in ISA-02
 - Security Info Qualifier. Value is placed in ISA-03
 - Security Information. Value is placed in ISA-04

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(Illustration below).

The screenshot shows a software window titled "Trading Partner Maintenance" with a "Change" tab selected. The window has a yellow background and contains the following fields and controls:

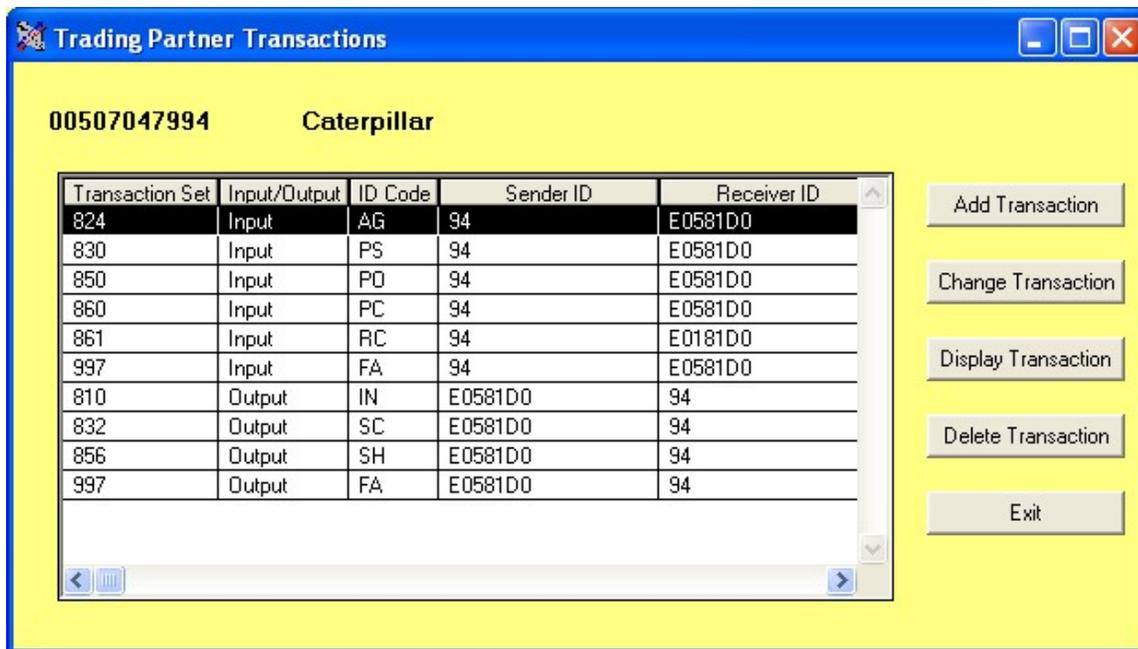
- Trading Partner Section:**
 - Partner Qualifier: ID:
 - Partner Name:
- Company Section:**
 - Company Qualifier: ID:
- Interchange Control Section:**
 - Interchange Control Version Number:
 - Responsible Agency Code: (X or S)
 - Acknowledgement Requested: (0 or 1)
 - Last Inbound Control No: Multiple Groups per Interchange
 - Last Outbound Control No: Block Duplicate Interchanges
- Delimiters Section:**
 - Sub Element Separator:
 - Element Separator:
 - Segment Separator: - ISA11 Usage:
 - Standard Identifier
 - Repetition Separator
- Authorization Security Section:**
 - Authorization Info Qualifier:
 - Authorization Information:
 - Security Info Qualifier:
 - Security Information:
- Other Fields:**
 - Acknowledgement Level:
 - Network:

At the bottom of the window are four buttons: "Cancel", "Delete", "Update", and "Add".

5.2 X12 Entering Group level – Group criteria

Once the ISA level criteria for a trading partner is established, the group (GS level) criteria must be entered. The GS level criteria is accessed by selecting the Button from the Trading partner maintenance screen. The group levels already set up will be displayed.

(Illustration below).



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GS level criteria includes:

- Transaction Set (Ex.810 for Invoices)
- I/O -- Is transaction inbound or outbound?
- Group ID code ('IN' for Invoice). This is what the ENTRACK translator will put in the GS segment. Element – 01.
- Sender ID -- The ID of the sender.
- Receiver ID -- The ID of the receiver.
- Last control number -- Incremented control number as the GS level for the transaction.
- Last Transaction Number – Incremented Transaction set control number for ST level. The default is 999999999. The default will start at one for each interchange.
- Version release ID -- Needed to determine what version of X12 standards. Used in GS segment – element 08.
- Map Name – The Map name created when mapping the transaction. NOTE: *NONE can be used for Inbound Transactions if the transaction is not to be mapped and a 997 needs to be generated.
- Implementation Conversion Reference. Used for versions requiring the ST-03 element.
- Process Inbound. For Inbound transactions. The default is to Process the inbound transaction automatically for the Trading Partner. Select 'Hold' if the batch should not be processed to the mapped user files.
- Queue Outbound. For Outbound Transactions. The default is for Outbound transactions to go into the Queued status and will get sent in the next communication run. Select 'Hold' if the batch should not get sent. It can then be changed to Queued manually when ready to be sent.
- Group Time Format. For Outbound Transactions. Specify the Time format for the GS-05 Element. The default is HHMM.

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Trading Partner Group Maintenance

JEWELS **STERLING JEWELERS**

Change

Transaction Set: 850 I/O: Inbound

Group ID Code: PO

Sender ID: JEWELS

Receiver ID: 136204182

Last Group Control No.: 000000000

Last Transaction No.: 999999999

Version Release ID:

Production: 004010VICS

Test: 004010VICS

Map Name: JEWELS850

Implementation Convention Reference: _____

Process Inbound: Process

Queue Outbound: Process

Group Time Format: HHMM

Cancel Delete Update Add

Trading Partner Group Maintenance

JEWELS **STERLING JEWELERS**

Change

Transaction Set: 856 I/O: Outbound

Group ID Code: SH

Sender ID: 136204182

Receiver ID: JEWELS

Last Group Control No.: 000000005

Last Transaction No.: 999999999

Version Release ID:

Production: 004010

Test: 004010

Map Name: JEWELS856

Implementation Convention Reference: _____

Process Inbound: Process

Queue Outbound: Queued

Group Time Format: Hold

Cancel Delete Update Add

Trading Partner Group Maintenance

JEWELS **STERLING JEWELERS**

Change

Transaction Set: 856 I/O: Outbound

Group ID Code: SH

Sender ID: 136204182

Receiver ID: JEWELS

Last Group Control No.: 000000005

Last Transaction No.: 999999999

Version Release ID:

Production: 004010

Test: 004010

Map Name: JEWELS856

Implementation Convention Reference: _____

Process Inbound: Process

Queue Outbound: Queued

Group Time Format: Hold

Cancel Delete Update Add

5.3 Copy Trading Partner:

ENTRACK allows the ability to copy an existing Trading Partner to another ID instead of adding a new Trading Partner from Scratch. The Copy button is located on the Trading Partner Maintenance Screen. Click on the Trading partner to copy from, then click on the Copy button. The following screen will appear. Enter the new Trading partner ID and the name. This function will also copy any Group level transactions that are set up for the existing Trading partner.

Copy Trading Partner

Copy From:

ID: JEWELS
Name: JEWELS JEWELERS

Copy To:

ID: 123456789
Name: NEW Trading Partner

Cancel Copy

5.4 EDIFACT Entering Interchange level criteria:

When entering trading partners using EDIFACT standards, you must first establish the Interchange level criteria. Select EDIFACT Partners.

- UNB qualifier, routing address, and Identifier.
- Trading Partner Name.
- Company qualifier, routing address, and Identifier. The qualifier and ID used when setting up the company is the default. These fields can be changed when the trading partner is requiring your ID to be changed.
- Standards ID and version number. (Required for UNB segment – element 01).
- Controlling Agency. Used in UNH segment. Element-02.
- Last inbound control number. Automatically incremented by one when an inbound document is received from the trading partner. This field can be maintained if an adjustment is needed. To bypass this usage, enter 999999999. This may be needed for trading partners who do not send control numbers in sequence.
- Last outbound control number. Automatically incremented by one when an outbound document is sent to the trading partner. This field can be maintained if an adjustment is needed.
- Sub element separator. (Required for ISA segment – element 16). The hex value needs to be entered. Default is a hex 6E, which is the '>' character.
- Element separator. The delimiter between elements. The hex value needs to be entered. Default is a hex 5C, which is the '*' character.
- Segment separator. The delimiter between segments. The hex value needs to be entered. Default is a hex 15; this is a non-displayable value.
- Release Character. Used to proceed segment terminator when the same terminator is used in the data.
- Decimal Notation. Represents the decimal value.
- Acknowledgement Request. Used in UNB-09 to signify if the CONTRL message is required.
- Processing Priority Code. Used in UNB-08.
- Network. The Communication network used for the trading partner.
- Recipient reference qualifier and password. Optional element if agreed by the communication partners.
-

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- Communication agreement ID. By name or code of the type of agreement under which the interchange takes place.
- Send UNA segment. Check if you want to send the UNA segment.

(Illustration below).

The screenshot shows the 'EDIFACT Trading Partner Maintenance' window. It contains several sections for data entry:

- Trading Partner:** ID Code Qualifier: ZZ, Address for Reverse Routing: [empty], Partner ID: BDE, Partner Name: General Motors.
- Company:** ID Qualifier: ZZ, Address for Reverse Routing: [empty], Company ID: BFT.
- Standards:** Standards ID: UNDA, Version: 2, Controlling Agency: XX.
- Delimiters:** Sub Element Separator: 6E, Element Separator: 5C, Segment Separator: 15, Release Indicator: ?, Decimal Notation: ., Last Outbound Control No: 00000000000011, Last Inbound Control No: 00000000000000, Network: EDS, Acknowledgement Request: [checkbox] (1,2), Processing Priority Code: [checkbox], Send UNA Segment: [checkbox].
- Recipients Reference Password:** Reference/Password: [empty], Qualifier: [empty].
- Communication Agreement ID:** [empty].

Buttons at the bottom: Cancel, Delete, Update, Add.

5.5 EDIFACT Entering UNG level – Group criteria

Once you have established Interchange level criteria for a trading partner, the Group level criteria must be entered.. The Group level criteria is accessed by clicking on the Group Level button from the Trading partner maintenance screen. The group levels already set up will be displayed.

UNG level criteria includes:

- Interchange Message. Identifies the application. Used in UNB-07.
- Header Message. Appears at the group level. Select the transaction from the list box.
- Version number, Release, and code. Required for UNH segment- 01.
- Map Name. Map used to process transaction. NOTE: *NONE can be used for Inbound Transactions if the transaction is not to be mapped and a 997 needs to be generated.
- I/O -- Is transaction inbound or outbound?
- Sender ID -- The ID and qualifier of the sender. Optional. Used only if UNG segment is needed.
- Receiver ID -- The ID and qualifier of the receiver. Optional. Used only if UNG segment is needed.
- Last control number -- Incremented control number as the GS level for the transaction.
- Application Password. Used in UNG- 08 if required.
- Process Inbound. For Inbound transactions. The default is to Process the inbound transaction automatically for the Trading Partner. Select 'Hold' if the batch should not be processed to the mapped user files.

The screenshot shows a window titled "EDIFACT Trading Partner Group Maintenance" with a yellow background. The window is divided into two sections: "DPH" and "DELPI". Below the section headers, there is a "Change" button. The form contains several fields and controls:

- Interchange Message: Header Message:
- Version Number: Release Number: Code:
- Map Name: Inbound/Outbound:
- Sender ID: Qualifier:
- Receiver ID: Qualifier:
- Application Password: Send UNG Segment
- Process Inbound:

At the bottom of the window, there are four buttons: "Cancel", "Delete", "Update", and "Add".

6 Setting up the Application

The application is needed to group a set of files that can be used for mapping transactions. The application is used for mapping both Inbound and Outbound transactions. ENTRACK can provide files that can be used if you do not wish to create your own. The three levels of setting up the application are as follows:

- Define the application.
- Define the files.
- Define the fields.

6.1 Define the Application

Select Application from the main menu. To add an application, click on a blank line on the screen. To change an application, click on the application you want to change. Enter an application name, the transaction type it will be used for, and a description of the application in the input/output fields at the bottom of the screen.

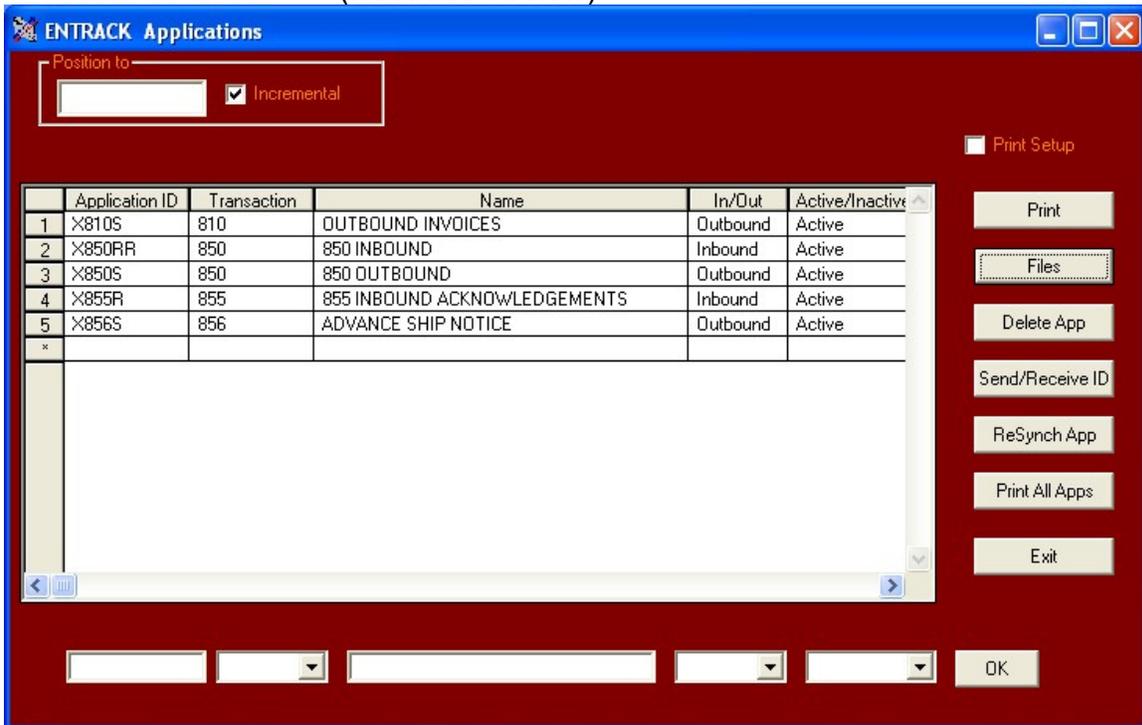
- Application ID. This is the name you choose for the application. The name can have a maximum of 10 characters.
- Transaction. Specify the EDI transaction the application will use.
- Name. Choose a descriptive name for the application.
- Input/Output. Select if the application is for inbound or outbound.
- Active/Inactive. Only Active applications will be processed when processing Inbound and Outbound transactions. Applications that are not actively used should be marked as inactive. This will increase performance when transaction processing is running.
- Print Button. Click on the print button to print a list of all applications. The listing also prints all files used in each application, and all fields used in each file. A prompt screen will appear asking if you would like a report or an Excel spread sheet.
- OK Button. Used to move the application data that is added or modified from the I/O fields into the application display.
- Files Button. To view or update the files used in an application, click and highlight the application, and then click the 'Files' button.
- Delete Button. Select an application to delete and then click the 'Delete App' button.
- Send/Receive button. The 'Send/Receive' button is mandatory for outbound applications only. The fields to be entered identify the sender and receiver ID at both the interchange level and group level. These fields need to exist in the driver header file.

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If the header application file does contain the Sender ID field (your company's ID), ENTRACK will use the company ID specified from Trading Partner maintenance. The Receiver ID is required. If the receiver ID at the group level is the same as at the interchange level, then the same field can be used.

- **Exit Button.** The 'Exit' button is used to return to the main menu. When modifying the application, if the Exit button is clicked before clicking the update button, any modifications will not be saved.
- **ReSynch Button.** The 'Resynch App' button is used to resynchronize all database fields defined within the ENTRACK mapping. This feature is very useful if the fields in the application file changes (Section 6.3) after the mapping of database elements (Section 7.6 and 7.7) have already been defined. This eliminates the need to update each element within each segment that uses the changed file. Either one of these methods are required when a field's length, start position, length, or type changes within an application file. If the elements are not resynchronizing, the mapping process will not function correctly.
- **Print All Apps Button.** The 'Print All Apps Button' will print all applications into an Excel Spread Sheet.

(Illustration below)

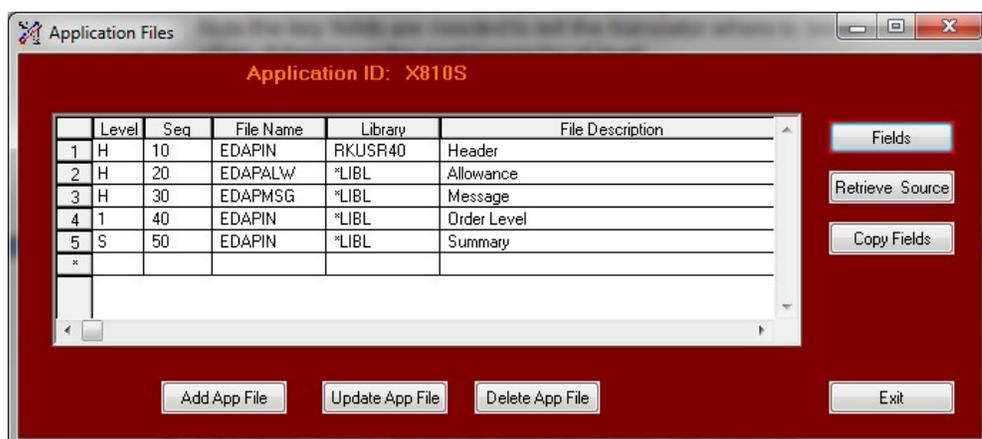


6.2 Setting up application files.

From the application display, highlight the application for the files to be added. Click on the files button to maintain the files for the application. ENTRACK allows as many as 30 files to be used and 10 hierarchical levels for each application. All files can have a maximum record length of up to 10,000 bytes. The application must have at least one header level file.

- Add App Files Button. Click on the Add Application Files button to save the changes made to the application files.
- Update App Files Button. Click on the Update Application Files button to save the changes made to the application files.
- Delete Button. Click to highlight the file you wish to delete, and then click the 'Delete' button.
- Fields Button. In order to display or modify the fields in a file, click to highlight the application file, and then click the 'fields' button.
- Retrieve Source Button. Used to retrieve the file field description from the AS/400 – iseries400. This will load the field names, start position, length, and type of the fields in the file. NOTE: The file must first exist on the AS400 and the library must exist in the Users library list. The utility will first look for the file in library RKUSR40. If it does not exist in RKUSR40, it will use the library list. The file for Outbound applications should be created with maximum members set to (*NOMAX). ENTRACK will automatically copy all outbound mapped files to a saved member. Section 13 explains Reprocessing Outbound Transactions.
- Copy fields Button. Used to copy the fields from one file to another. The new file needs to be created first. The file needs to not have any fields added to it, in order to execute the copy function. The copy function is used when the same file needs to be copied to a different level or a file with similar fields already exists.

(Illustration Below)



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- To add, change, or delete a file, click on the 'Add App File', 'Change App File', or 'Delete App File', button. This will bring you to the application File Maintenance screen. Here is where you will enter the file name, hierarchical level, sequence, description, and key fields. Note the key fields are needed to tell the translator where to break when determining the next hierarchical level.
- File name. (When adding an application file). For inbound transactions, the database file that the EDI data will be mapping to. For outbound transactions, this is the database file to map from, into the EDI data. NOTE: The same file name can appear multiple times in an application, as long as it is in a different hierarchical level. The purpose is so constants do not need to be used in mapping fields from files at a different level.
- Library Name. If no library is specified, the default library list will be used. *LIBL.
- Level. The file level can be 'H' for header, and '1-9' for several levels of detail. More than one detail level may be needed for outbound transactions when multiple hierarchical levels are used. This is common with the 856 Advance Ship Notice. The valid level types are H, 1, 2, 3, 4, 5, 6, 7, 8, 9, S and R. Note: When using 'S' Summary level for inbound transactions, the file can be a separate file or it can be the same as the header file if summary fields are included in the header file. If it is the same file as the header than the header file is updated at summary time. 'R' is for Random Retrieval Files.
- Sequence Number. Enter the sequence in which the file should appear within the application.
- Description. This is the File Description.
- Key field. The key field is needed for outbound transactions only. It tells the translator when to break to the next level. Example: If Invoice number is the key at the header level, ENTRACK will write out header level information when the invoice number changes in the file. This will also indicate to the translator when to stop writing detail data for that invoice. In order to select the key at the 1st detail level, the 1st key should use the same field as the key specified for the header. The 2nd key would be the field used to tell the translator there is a level break for detail. Each subsequent level requires the keys in the previous level plus one additional field to signify what causes the level break. To select the key, highlight the field in the listbox, and then click the 'Add Key' button. Note: ENTRACK will sort the file in the key order specified, regardless of how the keys are actually defined in the file.

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- Cancel Button. Click on the Cancel button to return back to the Application display. If modifications are made to the application file, and the cancel button is clicked before clicking the update button, the modifications will not be saved.
- Delete Button. Click the 'Delete' button to confirm deleting the file.
- Update Button. Click the 'Update' button to confirm updating the file.
- Add Button. Click the 'Add' button to confirm adding the file.

(Illustration below)

The screenshot shows a window titled "Application File Maintenance" with a dark red background. At the top, it says "CHANGE" and "Application ID: X810S". Below this, there are several input fields and dropdown menus:

- File Name:
- Library Name:
- Level:
- Sequence:
- Description:

Below these are ten key selection dropdowns arranged in two columns:

- 1st Key:
- 2nd Key:
- 3rd Key:
- 4th Key:
- 5th Key:
- 6th Key:
- 7th Key:
- 8th Key:
- 9th Key:
- 10th Key:

At the bottom of the dialog are four buttons: "Cancel", "Delete", "Update", and "Add".

6.2.1 Random Retrieval Files

Random Retrieval files can be used in outbound transactions. If a field is needed in a database file that does not currently exist in the outbound application files, the field can be randomly retrieved without having to add the field to your current DB files used in the application. **WARNING: This is NOT meant for extremely large files.** The file will be copied into a temporary file using the CPYF command, every time the Process Outbound Application job is run. The Random Retrieval File needs to be linked from one of existing files in the application using one to up to five fields to link the file to retrieve the record with the field to be mapped. The file does not need to already be keyed in that order. ENTRACK will create the key based on the fields selected. Example below: By selection fields, EDRECV and EDITEM, those fields will be the key to the Random Retrieval File.

CHANGE Application ID: X810S

File Name: Library Name:

Level:

Sequence:

Description:

1st Key: 6th Key:

2nd Key: 7th Key:

3rd Key: 8th Key:

4th Key: 9th Key:

5th Key: 10th Key:

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Then Select the Random Retrieval Button to select which file and fields in the current application file will link to the Random Retrieval File.

Change **Application ID: X810S**
Retrieved File: EDITMREF

File Name: Library:

1st Key:

2nd Key:

3rd Key:

4th Key:

5th Key:

6.3 Defining fields in application files.

From the application files display, highlight the file of the fields to be updated. The fields can be added to the file in two ways. One way is to click on the field's button and manually add the fields. A second way is to let ENTRACK retrieve the fields for you from the field file description on the AS/400. (This is providing the file is externally described).

To enter the fields manually click on the 'fields' button.

To retrieve the file field description for the externally described file, click on the 'Retrieve Source' button. Warning this should only be done when first creating the fields for the file in the application. Otherwise, it will overlay any fields that already exist.

Make sure and click to highlight the correct file you wish to update. Click on the 'fields' button to maintain the fields. Enter the field name, start position, length, decimal positions, field type, date format, and text in the input/output fields at the bottom of the screen.

- Field name. The field name is the name used in the externally described file. For files not externally described, choose any name to identify what the field represents. The name can have up to 10 characters.
- Start position. The start position represents the starting position in the file of this field. It is critical this is entered correctly for the ENTRACK translator to map properly. Note: A maximum length of 10,000 is allowed for the size of the file. The sum of start position plus field length cannot exceed 10,000.
- Field Length. The field length represents the actual length of the field. Packed fields will only take up half of the length defined plus one. Example: a 7 position field needs to be defined as 7 positions even though it is actually only using 4 positions of the record. Therefore, 7 should be entered and not 4. It is critical this is entered correctly for the ENTRACK translator to map properly. Note: A maximum length of 10,000 is allowed for the size of the file. The sum of start position plus field length cannot exceed 10,000.
- Field Type. Valid field types are 'Alpha Numeric', 'Signed Numeric', 'Packed Numeric', 'Date' Double Byte Character Set-Open,Only,Either, or Graphic. 'Alpha Numeric' signifies alphanumeric fields, 'Signed Numeric' signifies signed numeric fields, and 'Packed Numeric' signifies packed fields. Date is the 'L' date data type. Note: For Inbound applications, if the element that the field is being mapped from is defined as alphanumeric in the standards, then the field also needs to be defined as alphanumeric. Example: Zip code in the N4-03 is alphanumeric, so the field needs to be defined this way as well.

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- Date format. For date and time fields, ENTRACK allows 18 date formats to be used and 4 time formats. For inbound transactions, choose the format of the field from the Combobox that the EDI data needs to convert into. For outbound transactions, specify the format the field is converting from. The length and type of the field must match the date format. ENTRACK will automatically map to and from the desired format date. Note: for inbound data, a date and time format must be used if the database field is numeric or it will not populate. If the DB field is alpha numeric, and no date format is used, the field will be populated exactly how it appears from the incoming EDI data. The following are valid date formats using July 31 1999:

	<u>Format</u>	<u>Length</u>	<u>Alpha/Numeric</u>	<u>Example</u>
○	YYMMDD	6	Num	990731
○	CCYYMMDD	8	Num	19990731
○	MMDDYY	6	Num	073199
○	MMDDCCYY	8	Num	07311999
○	MM/DD/YY	8	Alpha	07/31/99
○	MM/DD/CCYY	10	Alpha	07/31/1999
○	CYY/MM/DD	9	Alpha	099/07/31
○	CYYMMDD	7	Num	0990731
○	CMM/DD/YY	9	Alpha	007/31/99
○	CMMDDYY	7	Num	0073199
○	YY/DDD	6	Alpha	99/216
○	YYDDD	5	Num	99216
○	CCYY/DDD	8	Alpha	1999/216
○	CCYYDDD	7	Num	1999216
○	DDMMYY	6	Num	310799
○	DD/MM/YY	8	Alpha	31/07/99
○	CDD/MM/YY	9	Alpha	031/07/99
○	CDDMMYY	7	Num	0310799
○	CCYY-MM-DD		Date/Alpha	1999-07-31
Time Formats				
○	HHMM	4	Num	1215
○	HHMMSS	6	Num	121522
○	HHMMSSD	7	Num	1215221
○	HHMMSSDD	8	Num	12152213

- Text. Enter a description of the field here.
- To delete a field, click on the field and then click the delete button.
- Once the fields have been updated, click on the Update Button to actually update the application fields.
- Click on the cancel button to return to application file screen. Note: By clicking the cancel button, any changes made to the application fields will not be saved.

(Illustration below)

Field Name	Start position	Length	Decimals	Type	Date Format	Text
10 INUPS#	161	20	0	Alpha Numeric		UPS NUMBER
11 INFOB	181	20	0	Alpha Numeric		FOB
12 ININDT	201	8	0	Signed Numeric	CCYYMMDD	INVOICE DATE
13 INSHDT	209	8	0	Signed Numeric	CCYYMMDD	SHIP DATE
14 INARDT	217	8	0	Signed Numeric	CCYYMMDD	ARRIVAL DATE
15 INORD	225	9	0	Alpha Numeric		SUPPLIER ORDER#
16 INORDT	234	8	0	Signed Numeric	CCYYMMDD	P.O. DATE
17 INOP#	242	22	0	Alpha Numeric		PURCHASE ORDER#
18 INVTOT	264	9	2	Packed Numeric		INVOICE TOTAL\$
19 INDISC	269	7	2	Packed Numeric		DISCOUNT AMT
20 INFRGT	273	7	2	Packed Numeric		FREIGHT AMOUNT
21 INTOTV	277	7	0	Packed Numeric		INVOICE TOTV

6.4 Retrieve Source.

Retrieve Source. This function is used to retrieve the file field description from the AS/400 – iseries400. This will load the field names, start position, length, and type of the fields in the file. When the Retrieve Source button is selected, the following message will appear. Select OK to continue. When the fields have been retrieved, the message 'Retrieve of field Definition has been submitted' will appear.

Press OK to update field definition with DDS source from AS/400

OK Cancel

Retrieve of Field Definition has been Submitted

OK

7 Establishing Mapping

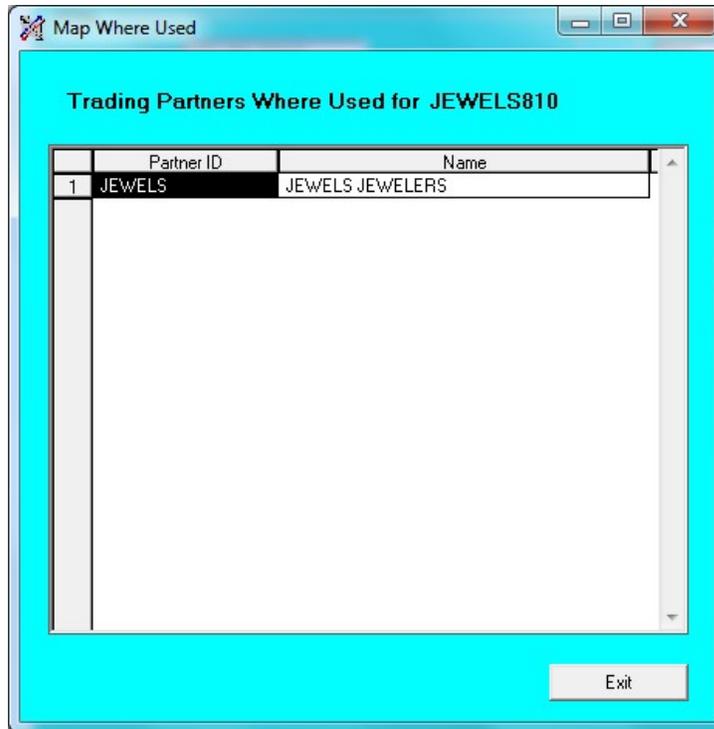
Setting up mapping is needed to map the specifications of each trading partners requirements. A separate map is needed for each requirement. If more than one trading partner has the exact same mapping requirements, then the same map could be used. To establish mapping, the application files (section 6) needs to be set up first. When mapping inbound transactions, the EDI data will get mapped to these files. When mapping outbound transactions, the EDI data will get mapped from these files. Entrack's mapping system is designed to set up trading partners very expediently yet is extremely flexible with many capabilities. Mapping consists of:

- Defining the Map header.
- Defining and sequencing the segments.
- Defining and mapping the elements. The elements can be conditioned, accumulated, saved in constants, calculated, substringed, concatenated, and substituted.

7.1 Define Maps

From the Main Menu, select mapping. A tree view will appear displaying all current maps. Click on Maps to show header information. Click on the '+' sign to expand the segments and elements of the map. To add a new map, click on "Maps" on the first line in the tree view. The header information consists of map Name, Transaction, Application Name, description, and Inbound/Outbound.

- Map Name. The map name can be up to 15 characters. The name must not have imbedded spaces.
- Transaction. The EDI transaction to be mapped Application. The application that contains the files to be mapped.
- Description. Description of the Map Name.
- Input/Output. Specify if the mapping is used for Inbound or Outbound.
- Test/Prod. Indicator to specify 'T' for test or 'P' for production in the interchange envelope for outbound transactions.
- Where Used Button. Displays Trading partners using the current map.



- Last Update Button. Displays the last User that modified the map and segment and element modified.

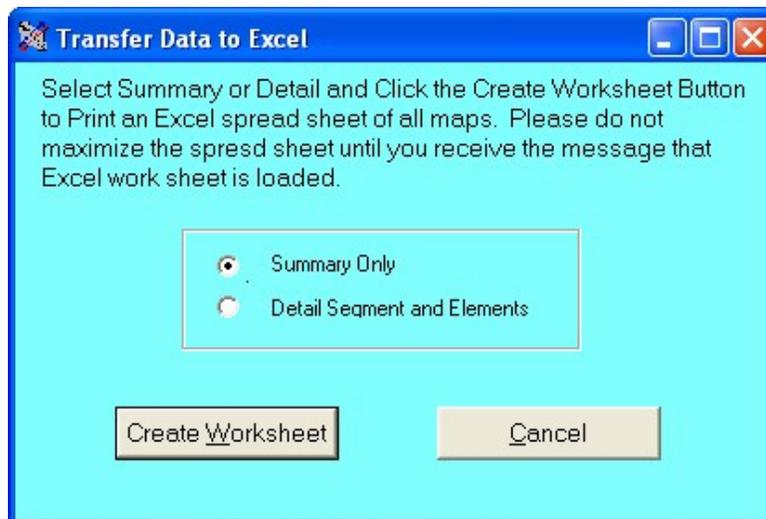
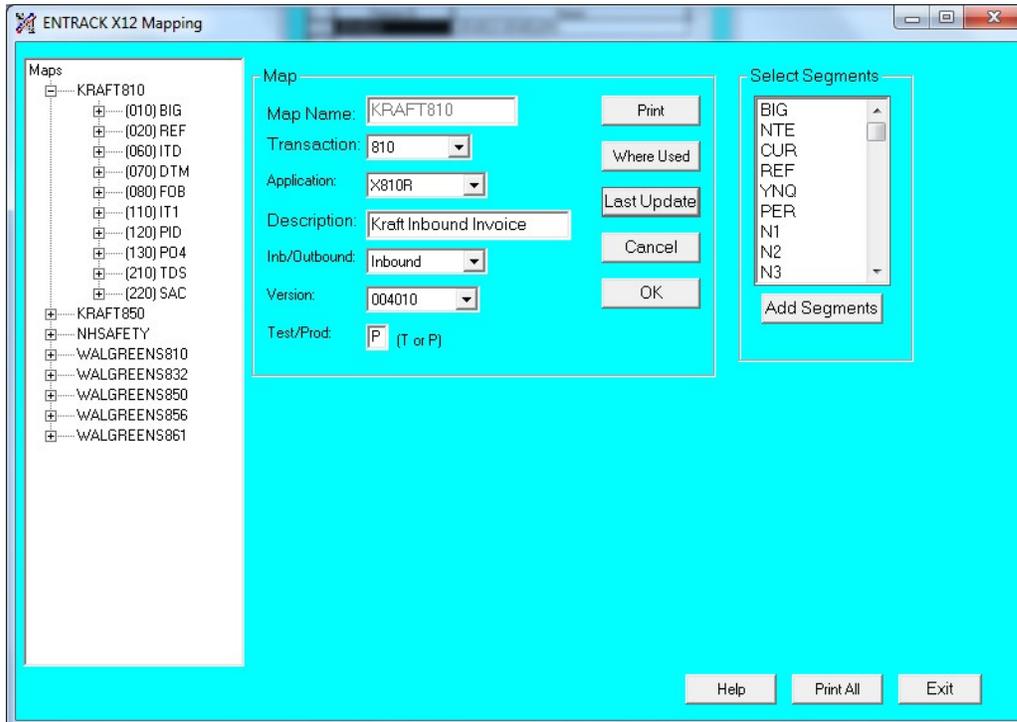


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- **Print Button.** The Print button will export the map into an Excel Spread sheet.

(Illustration below)

Print All Button. Exports all maps into an Excel Spread Sheet. A prompt screen will appear to choose Summary or Detail of segments and elements.

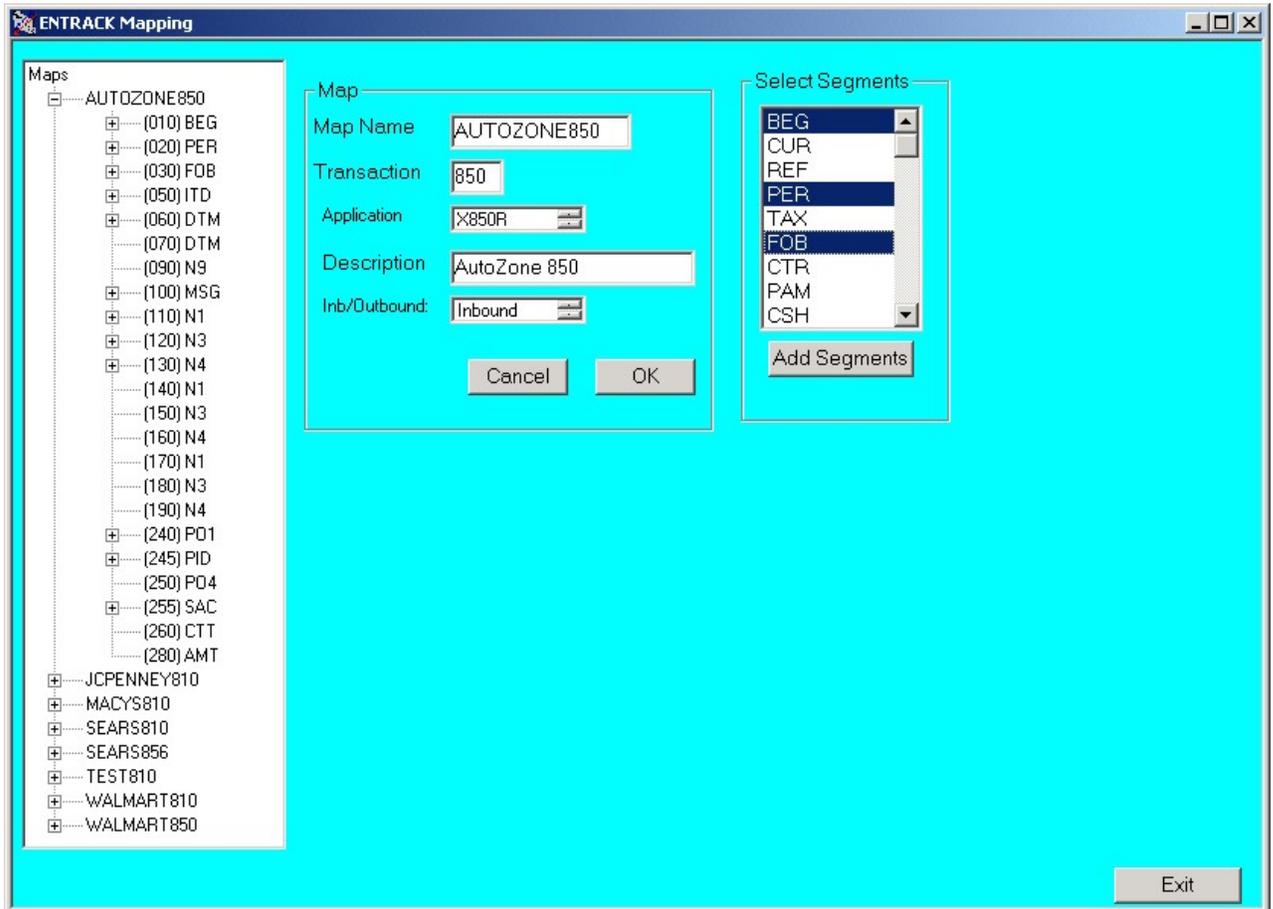


7.2 Select Segments

Map each segment that the trading partner is requiring for the document. Note: the beginning and ending transaction segments (ST, SE) do not need to be mapped. The translator maps this automatically. (NOTE: The first transaction set will automatically start with one in each interchange unless you change the 'Last Transaction Number' to a number other than 999999999 in Group Trading partner maintenance. This will be the starting number for the transaction set.)

Select the segments needed from the multi selected list box. Select the 'Add Segments' button when all segments are selected.

(Illustration below)

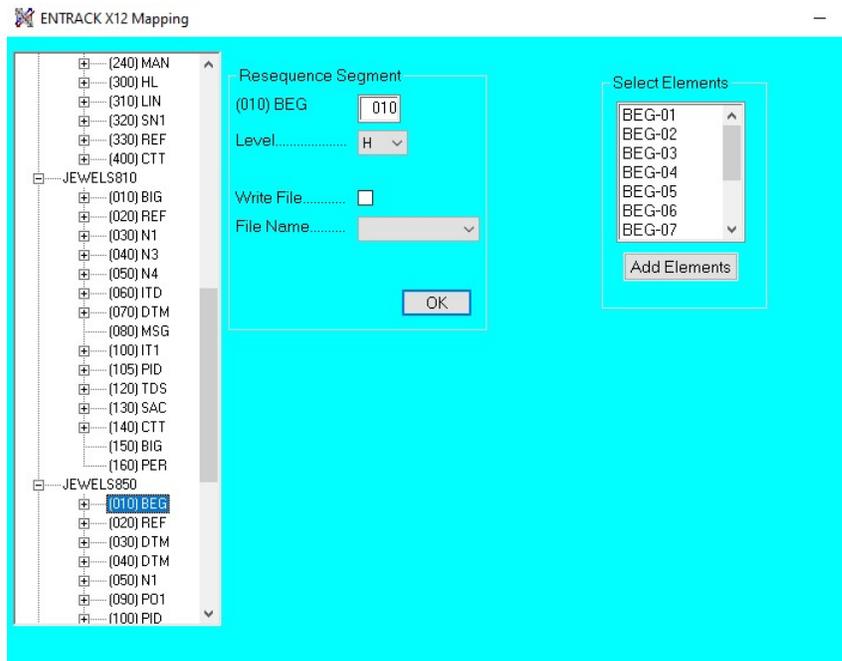


7.3 Define Segments

The segments are placed in the order selected from the list box. The segments can be renumbered into the desired sequence. For Inbound Transactions, the resequence box allows to change the sequence, select level, write the file, and file name.

- Resequence the segment. This allows the ability to position the segment anywhere within the map.
- Level. Select 'H' for header, '1-9' for Detail, 'S' for Summary. The detail level can be broken down into 9 hierarchical levels. The first would be level '1', and so forth up to level '9'.
- Write File check box. This check box is to be selected to write to a file within the same level and is not the driver file. An example would be if you had a message file that needed to be populated every time a MSG segment was read. Note: The driver file for each level should not be used to Write file.
- File Name. The name of the file to write to, when the Write File Check box is selected.
- Ghost Mode. The check box is selected if this segment is not to be written in the transaction. Used for saving to constants or Accumulators, or calculations only.

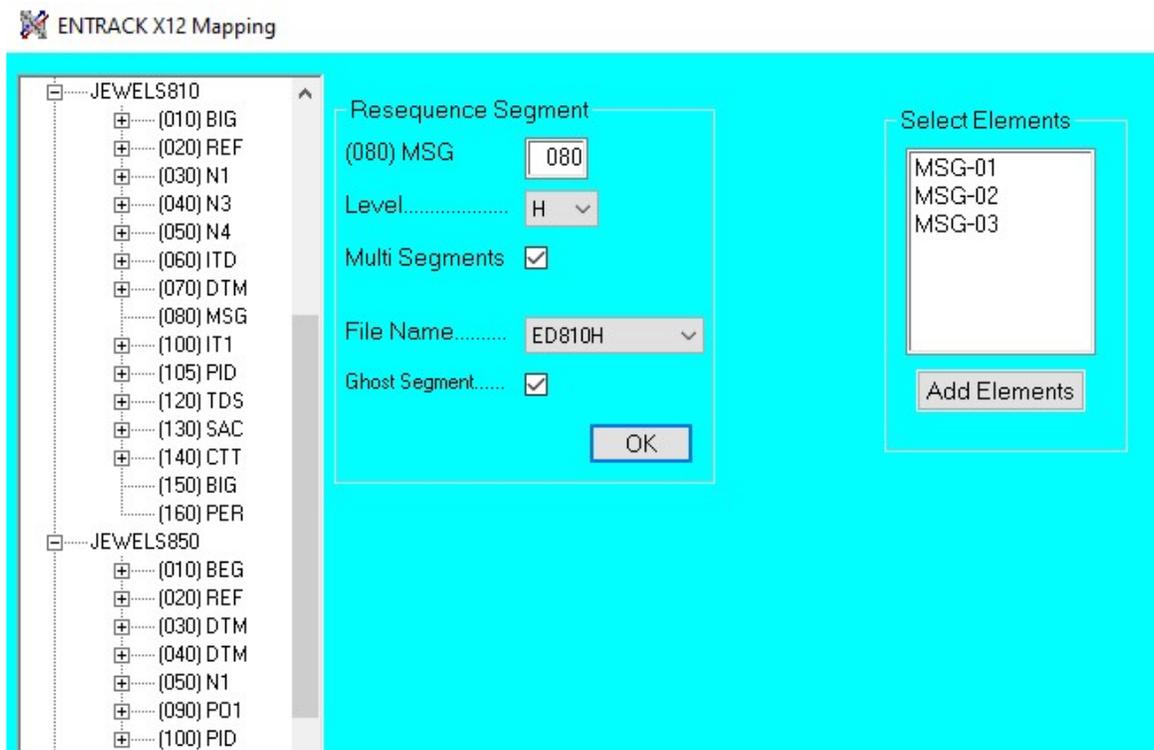
(Use the example below as a guide).



For Outbound Transactions, the resequence box allows the function to change the sequence, select the level, and check if multiple segments are to be written. The file name is not needed since this is an outbound transaction.

- Resequence the segment. This allows the ability to position the segment anywhere within the map.
- Level. Select 'H' for header, '1-9' for Detail, 'S' for Summary. The detail level can be broken down into 9 hierarchical levels. The first would be level '1', and so forth up to level '9'.
- Multi Segments. Used when selecting file name and the file is not the driver file. Check the Multi Segments checkbox to write the segment multiple times for each record that has the key equal to the key in the driver file. Example: If mapping to a Notes file, a MSG record would be written for each record in the file equal to the key in the driver header file. (Invoice number in this case). The translator would not write more segments that are allowed in the standards.
- File name. Enter the file name of the file that contains the data to write the segments.

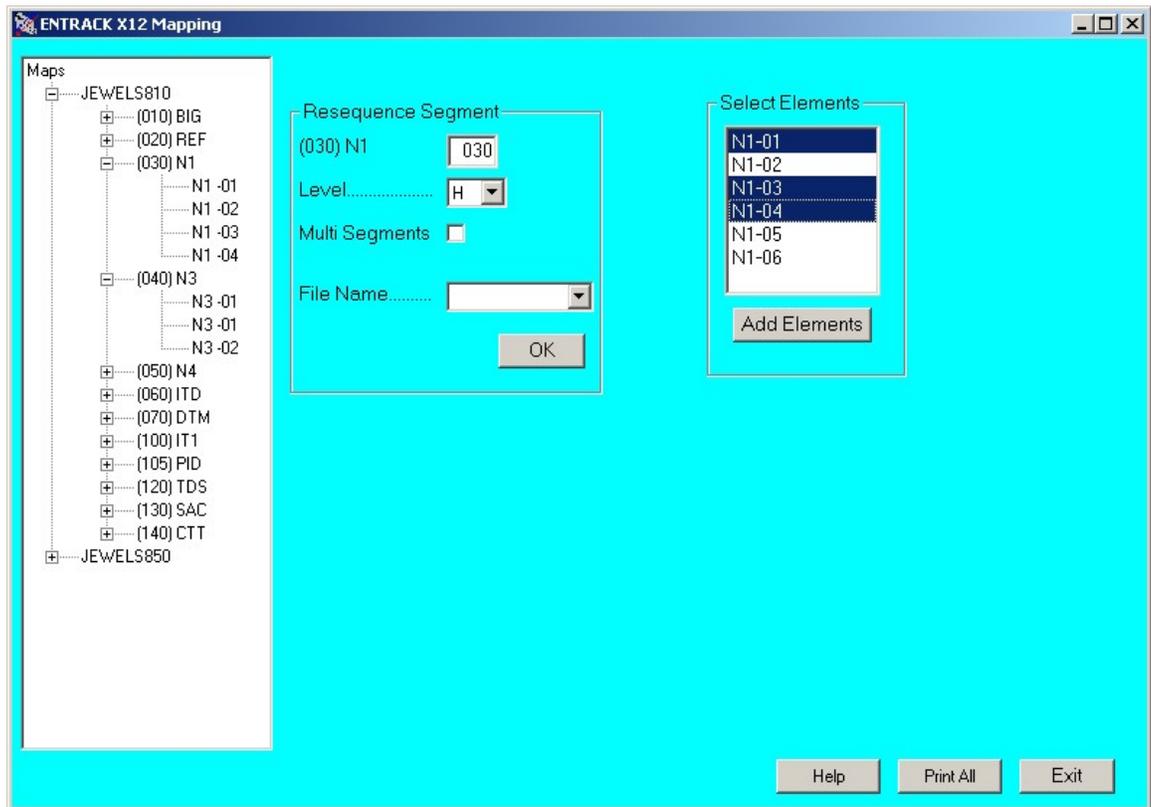
(Illustration below).



7.4 Select Elements for Segments

Select the elements to be mapped within each segment from the Select Elements Multi listbox. Inbound transactions will map the elements or constants to a database field. Outbound transactions will map database fields or constants to the elements. Click the Add Elements button when all the elements needed are selected.

(Illustration below).



7.5 Mapping Elements for Inbound Data

Once the elements for a segment are selected, the element needs to be mapped to a field in a file. The fields will be populated when the segment is read from the EDI data. Inbound transactions will map the elements or constants to a database field. The ENTRACK Mapper allows the ability to map any segment within a transaction at any time with any condition. The mapper gives the flexibility to concatenate, substring, add the EDI data to constants and accumulate totals. The following Input/Output fields are used to map inbound transactions:

- **DB Field**. Mandatory. Select from the file-field Combobox, what field the element from the inbound data will populate.
- **Constant**. Optional. Used to hard code a value into the database field instead of moving the element from the inbound data. Do not use quotes around the value. The constant will map to the DB field exactly as it is entered.
- **Constant Keyword**. Optional Keywords *DATE, *TIME, *TIME6, and *BLANKS.
 - *DATE - moves the current date into the element. ENTRACK determines the date format specified in the application field.
 - *TIME - moves the 4 digit time (HHMM) to the element.
 - *TIME6 - moves the 6 digit time (HHMMSS) to the element.
- **Start DB Field Position**. Optional. Specify the position within the DB field where the data to be mapped will start in. If this is not populated the default position of 1 is assumed. Example: The element is the department number and you need this in the 13th position of the DB field you are mapping to. Specify 13 in the Start DB Field Position.
- **Substring Segment Start Position**. Optional. Specify the starting position of the element in the inbound EDI data if it is not position 1. Example: The data in the element contains "AA1234567". If only the data starting in the 3rd position is to be mapped, specify 3 and only the value "1234567" will be mapped to the DB field.
- **Substring Segment length**. Optional. Specify the length of the element in the inbound EDI data if it is not the entire field. Example: The data in the element contains "AA1234567". You already specified data starting in the 3rd position to be mapped. Specify a length of "4" and the value "1234" will be mapped to the DB field.

- Concatenate. Optional. Enter a value to be concatenated to the data element into the DB field to be mapped. The blank spaces option is used to specify how many spaces in between the element and the concatenated value. If 'blank spaces' is not specified, no spaces will appear between the element and the concatenated value.
- Conditions. Optional. ENTRACK allows the ability to specify one or two conditions to take place in order to determine if the element should be mapped. These conditions can occur for any segment within the transaction set. Specify the segment and element that the value needs to contain to make the condition true, or specify a constant (CONSTANT01 – CONSTANT40) to compare the value. The operations equal, less than, less than or equal, greater than, greater than or equal can be used. Also click on an option button to specify if the segment is the current segment, a segment within the loop, or a segment within the transaction. If you are specifying two conditions, the segments do not have to be at the same level.
- Value. The Value field needs to contain the characters or amount that is being compared with. Note: When comparing against a character value, do not use quotes. The value field is case sensitive. To compare against blanks, specify *BLANKS. To compare against current date, specify *DATE.
- AND/OR. If a 2nd condition is used, the AND/OR field needs to be entered. If both conditions need to be met, enter 'AND'. If only one condition needs to be met, enter 'OR'.
- Level of Segment. When conditioning an element, the level indicates where the segment exists that we want to condition. The level of Segment is defaulted to the current segment. Current segment signifies the element that is being conditioned is in the current segment that is being read. Loop segment signifies the segment/element that is being conditioned is in the current loop (Header, 1, 2, etc...) ENTRACK will search if any segments in the loop meet the condition. Transaction segment signifies the segment/element that is being conditioned is in the current transaction. ENTRACK will search if any segments in the entire transaction meet the condition.
- Substitute Segment. Enter the segment and element if you wish to map EDI data from a different segment/element within the EDI transaction. Example: The translator is reading the PO1 segment at detail time but needs to write out the date that is in the DTM-02 segment that was read at header time. We would specify DTM segment, element 02, and select the Transaction option in the

'Level of Segment' box. Also to retrieve the Sender ID of the interchange, segment/element ISA-06 would be specified.

- **Calculate – Operation.** Specify the arithmetic operation to be performed. Add (+), Subtract (-), Multiply (*), or Divide (/).

NOTE: Only Add, and Subtract operations can be used when calculating date fields.

- **Calculate – Numeric Value.** A hard coded numeric value to calculate with the DB field that is getting mapped to.
- **Calculate – DB field.** Another DB field to calculate with the DB field that is getting mapped too.
- **Map Result.** Check the Map Result checkbox to map the calculated result into the DB field.
- **Add to Constant/Accu.** 'ACCUMU-01' through 'ACCUMU-40' are used to accumulate or save the EDI element value that will be mapped into a numeric DB field. In order to accumulate either the calculated field or the value of the EDI element into an accumulator, first choose an accumulator from the listbox at the bottom. Accumulators from the listbox are 'ACCUMU-01' through 'ACCUMU-40'. ACCUMU-01 through ACCUMU-20 are reserved for the header level, while ACCUMU-21 through ACCUMU-40 are reserved for the detail level. Detail level accumulators can be used when saving accumulators at detail level. The 'Add to Constant/Accu' check box must be checked.
- **Add to Constant/Accu.** 'CONSTANT01' through 'CONSTANT40' are used to save the EDI element value that will be mapped into a non numeric DB field. In order to move either the calculated field or the value of the EDI element into a constant, first choose a constant from the listbox at the bottom. Constants from the listbox are 'CONSTANT01' through 'CONSTANT40'. CONSTANT-01 through CONSTANT20 are reserved for the header level, while CONSTANT21 through CONSTANT40 are reserved for the detail level. Detail level constants can be used when saving constants at detail level. Then 'Add to Constant/Accu' check box must be checked.
- **Map Constant/ACCU.** In order to map an existing constant value or Accumulator, first choose a constant from the listbox at the bottom. Then check the Map Constant check box. This value is moved to the DB field instead of the value from the EDI data element.
- **Table.** Select table if cross reference is needed.
- Click OK to update the information entered for the element.

- Click Cancel to return without updating the element.
(Illustration below)

Basic mapping – No Conditioning

The screenshot shows the 'ENTRACK X12 Mapping' window. On the left is a tree view of EDI segments, with 'BEG-03' selected. The main area is titled 'Populate Element' and is configured for 'BEG-03 JEWELS850'. The 'DB Field' is 'JPSECH_HCPO', 'Start DB Field Position' is '001', 'Start Position' is '000', and 'Length' is '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF' set to 'Segment' and 'Element' '00'. The 'AND/OR' section has 'Segment' and 'Element' '00'. The 'Calculate' section has 'Level of Segment' set to 'Current Segment', 'Loop', and 'Transaction'. The 'Map Result' section has 'Add to Constant/Accu' checked and 'CONSTANT04' selected. The 'Cancel' button is highlighted in red.

Mapping Current date and adding days.

Adding 5 days to Current Date.

The screenshot shows the 'ENTRACK X12 Mapping' window. On the left is a tree view of EDI segments, with 'DTM-02' selected. The main area is titled 'Populate Element' and is configured for 'DTM-02 JEWELS850'. The 'DB Field' is 'JPSECH_HSDTE', 'Start DB Field Position' is '001', 'Start Position' is '000', and 'Length' is '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF' set to 'DTM' and 'Element' '01'. The 'AND/OR' section has 'Segment' 'DTM' and 'Element' '01'. The 'Calculate' section has 'Level of Segment' set to 'Current Segment', 'Loop', and 'Transaction'. The 'Map Result' section has 'Add to Constant/Accu' checked and '5.00000' entered. The 'Cancel' button is highlighted in red.

Mapping with 1st condition compared with value from EDI element and 2nd condition compared to value of a constant. Concatenate a constant, Add to another constant.

Add to Constant

The screenshot shows the 'ENTRACK X12 Mapping' window. The left pane displays a tree view of EDI segments, with 'N1-04' selected. The main area is titled 'Populate Element' and shows the configuration for 'N1-04 JEWELS850'. The 'DB Field' is set to 'IPSECH_CUSTA', with 'Start DB Field Position' at '001' and 'Substring Element' checked. The 'Start Position' is '000' and 'Length' is '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF Segment' set to 'N1' and 'Element' set to '01'. The 'Level of Segment' is set to 'Current Segment'. The 'AND/OR' section has 'Segment' and 'Element' both set to '00'. The 'Table' section is empty. The 'Calculate Level of Segment' section has 'Current Segment', 'Loop', and 'Transaction' all set to 'I'. The 'Operation' is set to '+ - * /'. The 'Segment' is empty and 'Element' is '00'. The 'OR Numeric Value' section is empty. The 'Map Result' section has 'Add to Constant/Accu' checked and 'Map Constant/Accu' unchecked. The 'Map Constant/Accu' list contains 'CONSTANT03'. The 'Map Constant/Accu' list also contains 'CONSTANT01', 'CONSTANT02', and 'CONSTANT04'. The 'Cancel', 'OK', 'Help', 'Print All', and 'Exit' buttons are visible at the bottom.

Map Constant

The screenshot shows the 'ENTRACK X12 Mapping' window. The left pane displays a tree view of EDI segments, with 'PO1-01' selected. The main area is titled 'Populate Element' and shows the configuration for 'PO1-01 JEWELS850'. The 'DB Field' is set to 'IPSECH_CUSTA', with 'Start DB Field Position' at '001' and 'Substring Element' checked. The 'Start Position' is '000' and 'Length' is '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF Segment' and 'Element' both empty. The 'Level of Segment' is set to 'Current Segment'. The 'AND/OR' section has 'Segment' and 'Element' both empty. The 'Table' section is empty. The 'Calculate Level of Segment' section has 'Current Segment', 'Loop', and 'Transaction' all set to 'I'. The 'Operation' is set to '+ - * /'. The 'Segment' is empty and 'Element' is '00'. The 'OR Numeric Value' section is empty. The 'Map Result' section has 'Add to Constant/Accu' unchecked and 'Map Constant/Accu' checked. The 'Map Constant/Accu' list contains 'CONSTANT03'. The 'Map Constant/Accu' list also contains 'CONSTANT01', 'CONSTANT02', and 'CONSTANT04'. The 'Cancel', 'OK', 'Help', 'Print All', and 'Exit' buttons are visible at the bottom.

7.6 Mapping Elements for Outbound Data

Once the elements for a segment are selected, the element needs to be mapped from fields in a file or from constants. The elements will be populated when the records are read from the application file. The ENTRACK mapper gives the flexibility to concatenate, substring, add the application data to constants and accumulate totals. This gives us the flexibility to map an element where the data exists in one level of the application, but needs to be mapped to another. This is an alternative method to setting up the same file at the level it needs to be mapped to. The following Input/Output fields are used to map outbound transactions:

- DB Field. Select from the file_field Combobox, the field that will populate the outbound element. A DB field is not required if a constant is entered.
- Constant. Optional. Used to hard code a value into the element. Do not use quotes around the value. The constant will map to the DB field exactly as it is entered. A Constant or Accumulator CONSTANT01 –CONSTANT40, or ACCUMU-01 – ACCUMU-40 may also be used.
- Constant Keyword. Optional Keywords *DATE, *TIME, *TIME6, and *BLANKS.
 - *DATE moves the current date into the element. ENTRACK determines if a 6 or 8 digit date should be used based on the version.
 - *TIME moves the 4 digit time (HHMM) to the element.
 - *TIME6 moves the 6 digit time (HHMMSS) to the element.
 - *BLANKS can be used in conditioning to determine if a field is blank.
- Substring Segment Start Position. Optional. Specify the position within the DB field where the data to be mapped will start in. If this is not populated the default position of 1 is assumed. Example: The element is the department number and it needs to be in the 3rd position of the DB field that is being mapping to. Specify 3 in the Start DB Field Position.
- Substring Segment length. Optional. Specify the length of the DB field in the outbound EDI data if it is not the entire field. Example: The data in the field contains “AA1234567”. We have already

specified data starting in the 3rd position to be mapped. Specify a length of “4” and the value “1234” will be mapped to the element.

- Concatenate. Optional. Enter a value to be concatenated to the data element. The blank spaces option is used to specify how many spaces in between the element and the concatenated value. If ‘blank spaces’ is not specified, no spaces will appear between the element and the concatenated value. A DB field Can be used.
- Conditions. Optional. ENTRACK allows the ability to specify one or two conditions to take place in order to determine if the element should be mapped. These conditions can occur based on any value within the transaction set. When specifying a DB field to use as a condition, the field needs to exist at the same level that we are using when mapping the field. If the field that is being compared in the condition exists in a prior level, the field needs to be saved in a constant or accumulator, and the constant or accumulator needs to be conditioned. The operations equal, less than, less than or equal, greater than, greater than or equal can be used.
- Value. The Value field needs to contain the characters or amount that is being compared with. Note: When comparing against a character value, do not use quotes. The value field is case sensitive. To compare against blanks, specify *BLANKS. Note: Leaving the condition as blank tells the translator that there is no condition.
- AND/OR. If a 2nd condition is used, the AND/OR field needs to be entered. If both conditions need to be met, enter ‘AND’. If only one condition needs to be met, enter ‘OR’.
- Calculate – Operation. Specify the arithmetic operation to be performed. Add (+), Subtract (-), Multiply (*), or Divide (/).
- NOTE: Only Add, and Subtract operations can be used when calculating date fields.
- Calculate – Select the DB field that the calculation will perform with the original DB field. This field is not required if a numeric value is entered.
- Calculate – Numeric Value. A hard coded number to calculate with the DB field. This field is not required if another DB field is used to calculate with the original DB field.
- Calculate fields that are not being mapped. If a calculation needs to be performed on a field that is not being mapped, but needs to add it to an accumulator, specify the DB field name in the calculation frame along with the value to be calculated with. This

option is allowed as long as the 'Add to Constant/Accu' box is checked.

- Accumulate occurrence. If the number of times a segment is written needs to be accumulated, the numeric value field can be entered without performing a calculation with another field. Note: The operation code must be the '+' sign. Example: To enter the number of IT1 segments written, at the summary level, enter a '1' in the numeric value field in one of the IT1 elements. This will add 1 to the accumulator every time an IT1 segment is written. At summary level, an example would be to map the CTT-01 segment. We would map the accumulator to the element
- Map Result. Check the Map Result checkbox to map the calculated result into the element.
- Add to Constant/Accu. In order to accumulate the calculated field or the DB field into an accumulator, first choose an accumulator from the listbox at the bottom. Accumulators from the listbox are 'ACCUMU-01' through 'ACCUMU-40'. ACCUMU-01 through ACCUMU-20 are reserved for the header level, while ACCUMU-21 through ACCUMU-40 are reserved for the detail level. The 'Add to Constant/Accu' check box must be checked.
- Add to Constant/Accu. In order to move either the calculated field or the value of the DB field into a constant, first choose a constant from the listbox at the bottom. Constants from the listbox are 'CONSTANT01' through 'CONSTANT40'. CONSTANT-01 through CONSTANT20 are reserved for the header level, while CONSTANT21 through CONSTANT40 are reserved for the detail level. Then 'Add to Constant/Accu' check box must be checked.
- Map Constant/Accu. In order to map an existing constant value, first choose a constant from the listbox at the bottom. Then check the Map Constant check box.
- Click OK to update the information entered for the element.
- Click Cancel to return without updating the element.

(Illustration Below)

Map Database Field to Element

The screenshot shows the 'ENTRACK X12 Mapping' window. On the left is a tree view of EDI elements, with 'BIG-02' selected under 'JEWELS810'. The main area is titled 'Populate Element' and shows configuration for 'BIG-02 JEWELS810'. The 'DB Field' is set to 'EDAPIN_ININV#'. The 'Substring Element' section has 'Start Position' and 'Length' both set to '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF DB Field' set to a dropdown, 'OR Const/Accu' set to a dropdown, and 'Value' set to a text box. The 'AND/OR' section has 'DB Field' set to a dropdown, 'OR Const/Accu' set to a dropdown, and 'Value' set to a text box. The 'Table' section has a dropdown menu. The 'Calculate' section on the right has 'DB Field' set to a dropdown, 'Operation' set to '(+ - * /)', 'Add Accumulator' checked, 'Add to Constant/Accu' checked, and 'Map Constant/Accu' checked. A list of constants (CONSTANT01 to CONSTANT04) is visible in the 'Calculate' section. At the bottom are 'Help', 'Print All', and 'Exit' buttons.

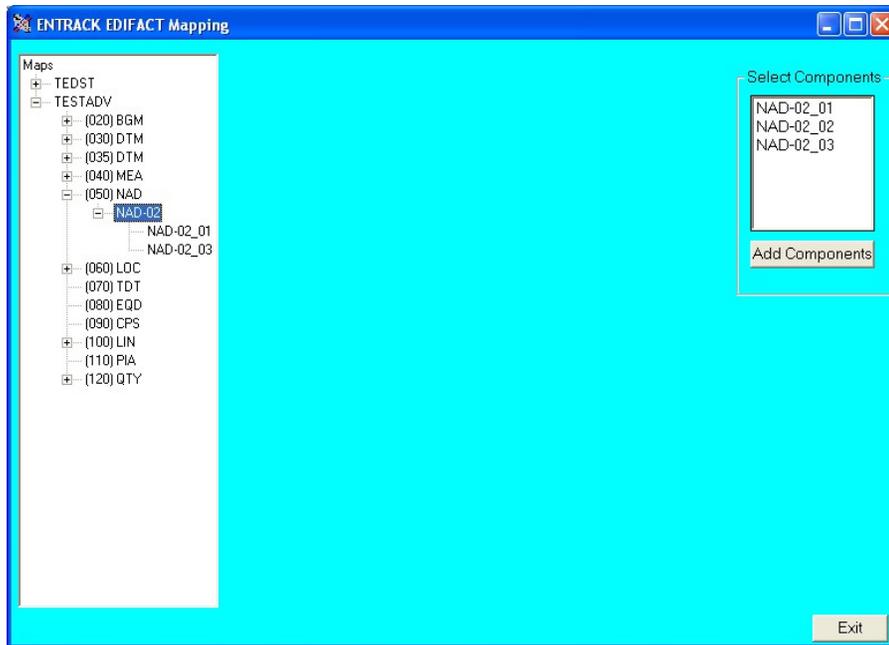
Map Constant to Element using IF Condition

The screenshot shows the 'ENTRACK X12 Mapping' window. On the left is a tree view of EDI elements, with 'REF-02' selected under 'JEWELS810'. The main area is titled 'Populate Element' and shows configuration for 'REF-02 JEWELS810'. The 'DB Field' is empty. The 'Constant' is set to '730230000'. The 'Substring Element' section has 'Start Position' and 'Length' both set to '000'. The 'Concatenate' section has 'Blank Spaces' set to '00'. The 'Conditions' section has 'IF DB Field' set to 'ED81QH_N104BT', 'OR Const/Accu' set to a dropdown, and 'Value' set to '123'. A dropdown menu is open over the 'EQ' condition, showing options: EQ, LT, LE, GT, GE, NE. The 'AND/OR' section has 'DB Field' set to a dropdown, 'OR Const/Accu' set to a dropdown, and 'Value' set to a text box. The 'Table' section has a dropdown menu. The 'Calculate' section on the right has 'DB Field' set to a dropdown, 'Operation' set to '(+ - * /)', 'Add Accumulator' checked, 'Add to Constant/Accu' checked, and 'Map Constant/Accu' checked. A list of constants (CONSTANT01 to CONSTANT04) is visible in the 'Calculate' section. At the bottom are 'Help', 'Print All', and 'Exit' buttons.

7.7 Mapping Components

Components are one level below elements. Components are used most frequently within the EDIFACT standards. However, there are some Components used within the X12 standard.

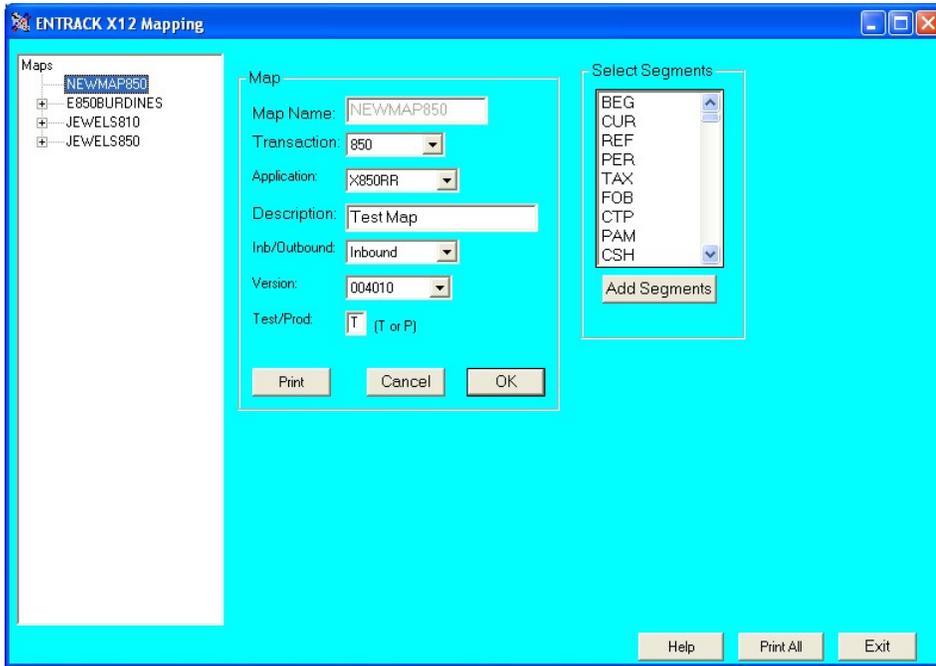
The Components are mapped the same way elements are mapped for both inbound and outbound transactions.



7.8 Copy an existing Map

Copying an existing map can easily be done as long as the map being copied from is the same transaction type and uses the same application.

In order to copy a map you need to just create an empty map with no segments as follows:

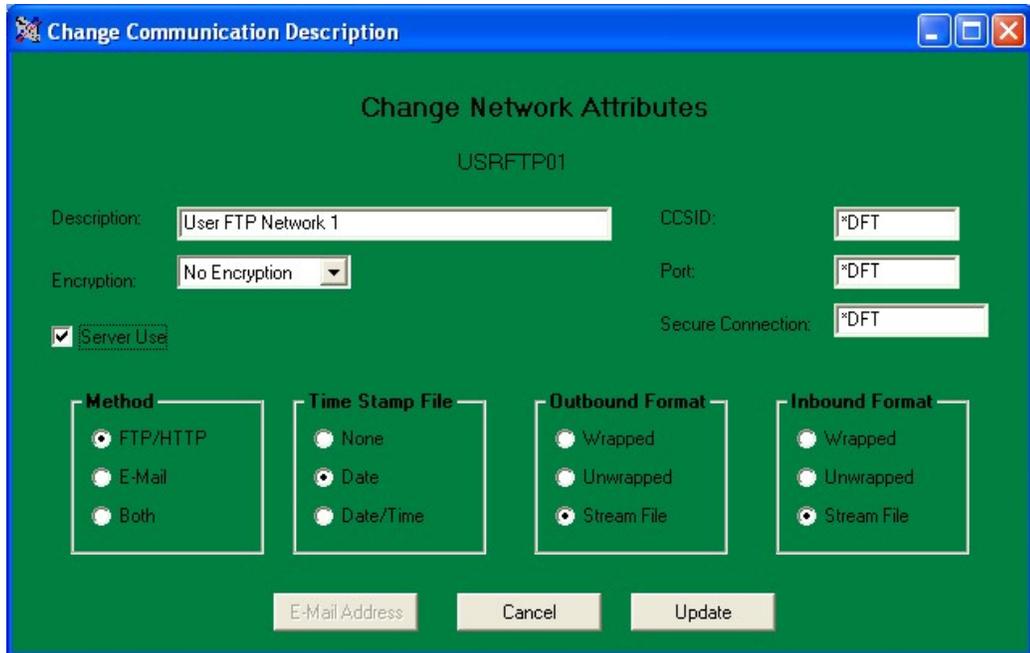


Once you have the empty map, click on the name of the map that you will be copying from, and drag and drop it to the new map name. All of the segments and elements will be copied. The following message will appear when complete.

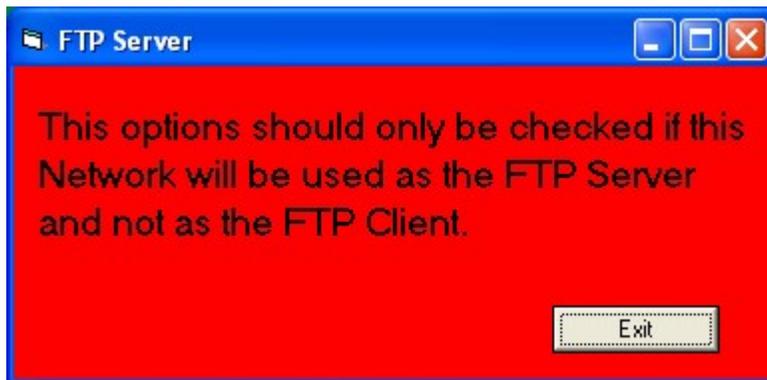


8 Using ENTRACK as the FTP Server:

ENTRACK can be used as an FTP Server on your iSeries as well as an FTP client. To specify the Network profile will be used as an FTP server, the 'Server Use' check box needs to be checked in the Network attributes as follows:



When the check box is checked, the following warning message appears.



Client Receive data from your Host

In order for your client to receive data from your FTP Server, you will need to run the 'Send Only' communication session which will put the data in your IFS for your trading partner to retrieve. Since your trading partner is initiating the FTP session, you do not need the FTP script for this communication session. Your trading partners FTP script will need to look something like this.

```
User Password  
Cd /Entout01  
Mget *.*  
Quit
```

Client sends data to Host

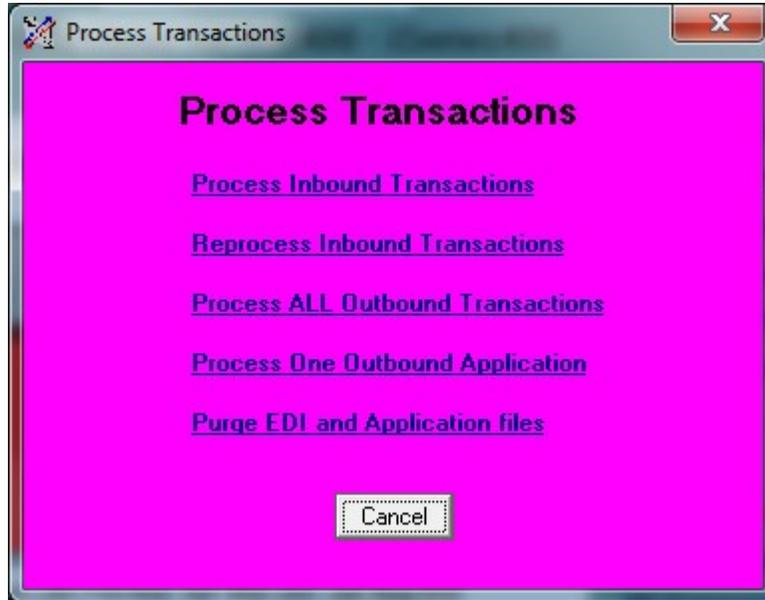
In order for your client to send data from your FTP Server, your trading partners FTP script will need to look something like this.

```
User Password  
Cd /Entint01  
Put filename  
Quit
```

The data will be retrieved into the ENTRACK inbound queue when you run the 'Receive Only' command for that session. As with the Send only session, you do not need an FTP script since your trading partner will be initiating the FTP session.

9 Process EDI Transactions

This section explains ongoing processing e partnerships are setup.



9.1 Process Inbound transactions

EDI Inbound Transactions will process all data received from communications into the appropriate application. The process occurs on the AS/400-iSeries400. Data received and not yet processed has the status code of 'R' in the Inbound Communication queue. Once processed, the status is changed to 'P'. The inbound process also produces the following reports:

- A printout out of the data for each transaction in a readable format.
- An Unacknowledged Transaction report. The report prints any outbound transactions that have not been acknowledged. The report is run at this time since all inbound acknowledgements are up to date.
- An Inbound Control Number Audit report. The purpose of the report is to show any control numbers that are not in sequence for each interchange or group. The report prints any ISA or GS control numbers that do not contain the next expected control number. The ability to bypass this message on the report can be done by entering 999999999 on the inbound control number in the trading partner maintenance screen. This option can make the report less cumbersome for trading partners who do not send the control numbers in sequence.

- All inbound mapping are processed at this time. The inbound process will interface the inbound EDI data into the user mapped files. Any user reports and interfaces can be produced at this time by inserting the programs into the ENTRACK User CL program, 'EDINTIC'. The source resides in library RKUSR40, file QCLLESRC and needs to be compiled into library RKUSR40. The CL is called at the end of the job stream when all inbound mapping is complete.

The Inbound process can be scheduled with the following statement:

To run in batch: CALL RKPGM40/EDSBMTRAN Parm('I')

To run Interactive: CALL RKPGM40/ED916C.

A message is sent to the system console when the job has completed.

9.2 Reprocess Inbound transactions

Reprocess Inbound transactions is used to reprocess any data that was rejected into the user application. Example: An inbound Purchase Order may have an item or ship-to number not in the user files. Once this data is set up in the user application, the rejected data can be reprocessed into the application. The CL user program EDINTIC is called when Reprocessing Inbound Transactions. The CL should include any programs that are needed to interface the mapped files into the application. The source for EDINTIC is in library – RKUSR40 file – QCLLESRC. The program is also called within the 'Process Inbound Transaction' job so that the user's application files can be populated within the job stream.

9.3 Process All Outbound transactions

Outbound transactions will create all outbound EDI Transactions from the application files and load them to the Outbound Communication queue with a status of 'Queued'. All batches with the 'Queued' status are transmitted during communications. The CL User program 'EDINTOC2' is called at the beginning of the job stream. Any programs that need to be called to populate the Outbound mapped files can be inserted here. CL User program 'EDINTOC' is called after the outbound transaction is created. Any processing such as clearing user files can be inserted here. Both user programs are in library RKUSR40. ENTRACK also copies all user outbound application files into multi members using the same file name, as long as the files are created to allow the maximum number of records needed. *NOMAX should be used.

The Outbound process can be scheduled with the following statement:

To run in Batch: CALL RKPGM40/EDSBMTRAN PARM('O')

To run Interactive: CALL RKPGM40/EDCROUTBC.

A message is sent to the system console when the job has completed.

9.4 Process One Outbound Transaction

This process is used when it is desired to only create outbound transactions for one specific transaction to load to the Outbound Communication queue with a status of 'Queued'. . All batches with the 'Queued' status are transmitted during communications. The CL User program 'EDINTOC2' is called at the beginning of the job stream. Any programs that need to be called to populate the Outbound mapped files can be inserted here. CL User program 'EDINTOC' is called after the outbound transaction is created. Any processing such as clearing user files can be inserted here. Both user programs are in library RKUSR40. ENTRACK also copies all user outbound application files into multi members using the same file name, as long as the files are created to allow the maximum number of records needed. *NOMAX should be used.

The Outbound process can be scheduled with the following statement:

```
CALL RKPGM40/EDCROAPPC PARM ('APPID')
```

Replace APPID with the name of the application used to process the transaction.

A message is sent to the system console when the job has completed.

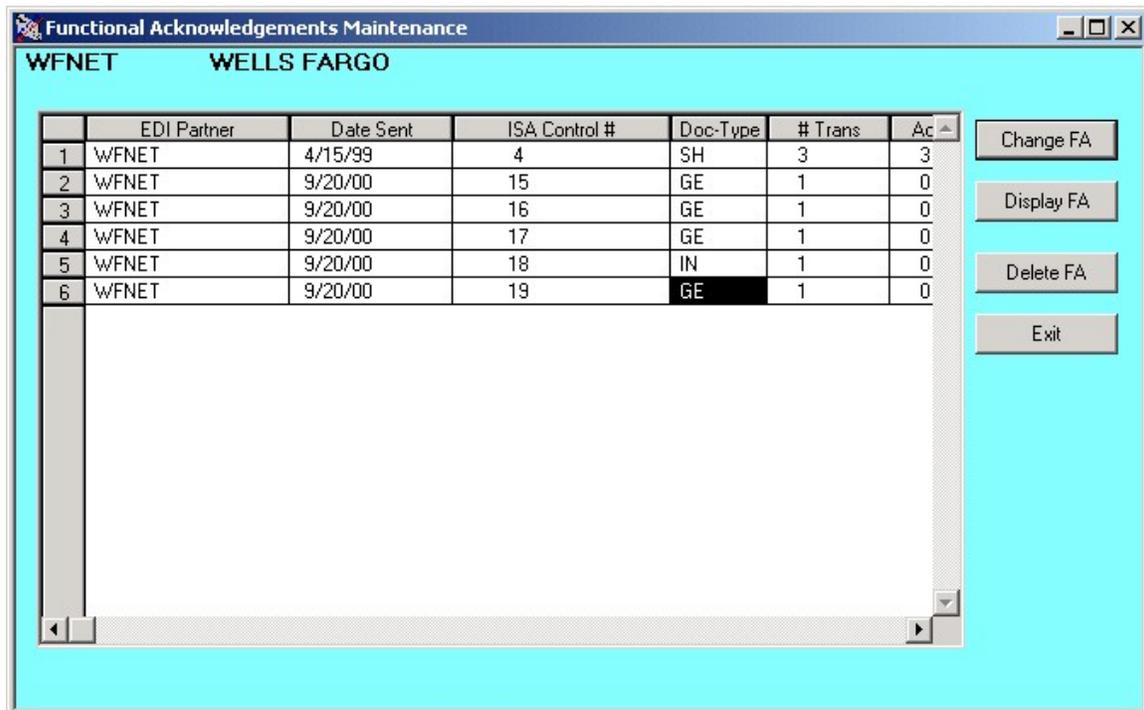
9.5 Purge EDI and Application Files

This process is used to purge EDI data and application user files. The EDI data that gets purged is the Communication data from the Inbound and Outbound queues, as well as the FTP sessions, and history of Functional Acknowledgements. The Application data that gets purged is the user files that are mapped to and from the ENTRACK maps, if the files are multi members. The retention days of the purge are set in company master maintenance. Example: If purge days are set to 60 days, then when the purge is run, all data will be deleted except for the past 60 days. NOTE: No ENTRACK jobs can be running when the Purge Process is run.

10 Functional Acknowledgement Maintenance (997)

The Functional Acknowledgement Maintenance feature allows you to inquire on the acknowledged status on all outbound documents that have been sent. This maintenance screen can also be used to manually acknowledge a transaction when a functional acknowledgement has not been received. The situation can occur when a trading partner verbally agreed the transaction was received but was unable to send the functional acknowledgement. This may have been caused by a communication problem. Manually acknowledging a transaction that is not going to receive an acknowledgement will prevent the transaction from reappearing on the Unacknowledged Transaction Report.

The Functional Acknowledgement Maintenance screen displays the trading partner the transaction was sent to, date sent, ISA control number, type of transaction, number of transactions within the interchange, number accepted, and the status (accepted, rejected, accepted with errors).



The screenshot shows a window titled "Functional Acknowledgements Maintenance" with a cyan background. At the top, it displays "WFNET" and "WELLS FARGO". Below this is a table with the following data:

	EDI Partner	Date Sent	ISA Control #	Doc-Type	# Trans	Ac
1	WFNET	4/15/99	4	SH	3	3
2	WFNET	9/20/00	15	GE	1	0
3	WFNET	9/20/00	16	GE	1	0
4	WFNET	9/20/00	17	GE	1	0
5	WFNET	9/20/00	18	IN	1	0
6	WFNET	9/20/00	19	GE	1	0

To the right of the table are four buttons: "Change FA", "Display FA", "Delete FA", and "Exit".

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The screenshot shows a window titled "Functional Acknowledgement Maintenance" with a light blue background. The window is divided into two columns: "FA Maintenance" and "Change". The "FA Maintenance" column contains the following fields: EDI Partner (WFNET), ISA Control No. (000000004), Trans Type (SH), Acknowledge Date (04/13/99), and Status (A). The "Change" column contains the following fields: Date Sent (04/15/99), GS Control No. (000000004), Trans Sets (0003), and No. Accepted (0003). At the bottom of the window, there are three buttons: Update, Delete, and Cancel.

Field	Value
EDI Partner	WFNET
Date Sent	04/15/99
ISA Control No.	000000004
GS Control No.	000000004
Trans Type	SH
Trans Sets	0003
Acknowledge Date	04/13/99
No. Accepted	0003
Status	A

11 Transaction History Inquiry

The Transaction History Inquiry screen displays all inbound and outbound transactions that have been sent and received. The inquiry displays the Partner ID, Date sent, ISA control number, GS control number, document type, and number of transactions within the interchange.

(Illustration below).

The screenshot shows a window titled "History Inquiry" with a light blue background. At the top left, there is a "Position to" label and a text input field with the placeholder "Enter MMDDYY". The window title bar includes standard minimize, maximize, and close buttons. The main content area features a table with the following data:

	EDI Partner	Date Sent	ISA Control #	GS Control #	
1	WFNET	7/13/00	52	2	
2	WFNET	7/31/00	59	9	
3	WFNET	7/31/00	60	10	
4	WFNET	9/20/00	15	12	
5	WFNET	9/20/00	16	13	
6	WFNET	9/20/00	18	26	

Below the table is a large empty rectangular area. To the right of the table, there are two buttons: "Display" and "Exit". The text "MYCOMPANY" is visible in the top right corner of the window.

The screenshot shows a window titled "History Detail" with a sub-header "EDI Transaction History Inquiry" and a "Display" button. The window contains several input fields for transaction details:

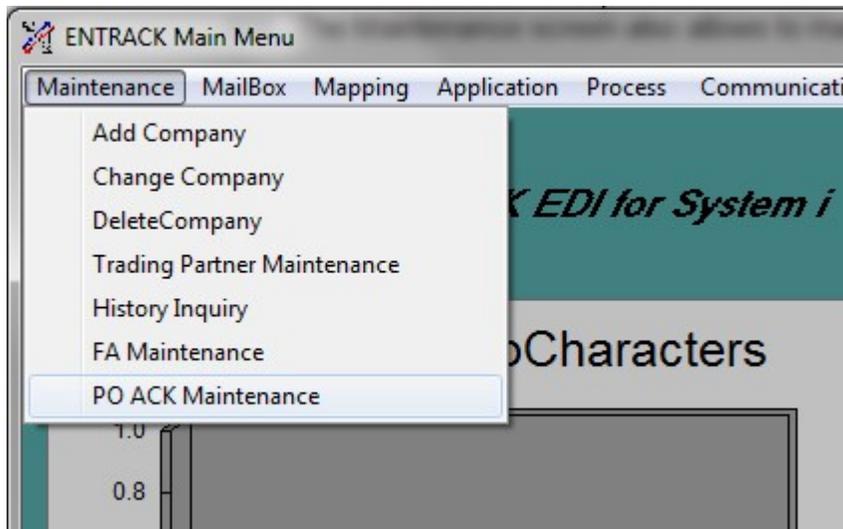
Field	Value
EDI Partner:	WFNET
Date Sent:	07/13/00
Time:	11:42:00
ISA Control No.:	000000052.
GS Control No.:	000000002.
Trans Type:	IN
Trans Sets:	0045.
Receive Date:	
Time:	00:00:00
Acknowledge Date:	
Time:	00:00:00

An "Exit" button is located at the bottom right of the window.

12 PO Acknowledgement Maintenance (855)

The PO Acknowledgement Maintenance screen displays Inbound 855 Order Acknowledgements from the Outbound 850 Purchase Order. This is mainly used when no mapping is required for the Inbound 855 and the purpose is to verify the 855 was received. When 855s are matched with the 850, the status will be 'A' and number of Transactions accepted should match Number of Transaction sets from the 850. The Maintenance screen also allows to manually acknowledge the 850.

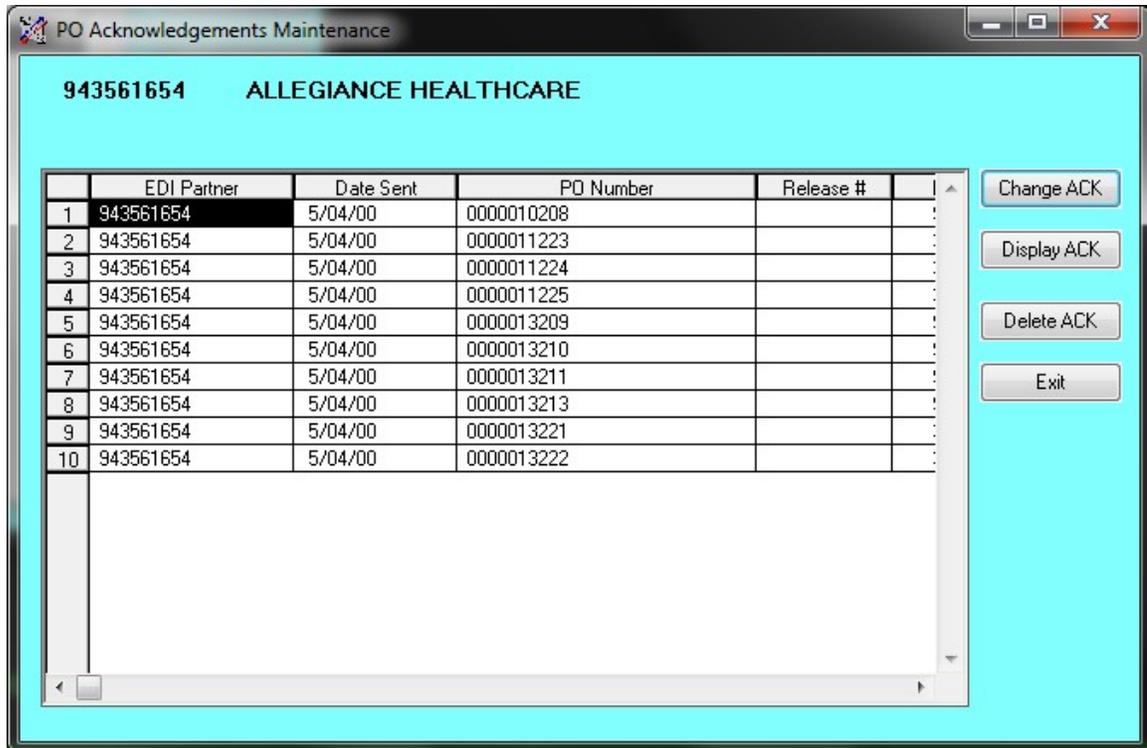
To Access the Screen, from the ENTRACK main Menu tool Bar, Click Maintenance, then PO ACK Maintenance.



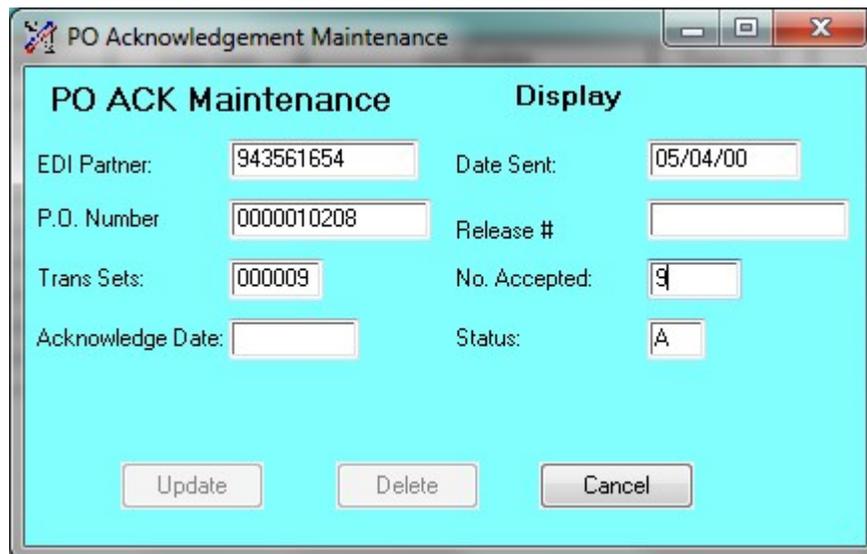
Then select, Company and then Trading Partner, then ACK Inquiry.



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Select option to Change ACK, Display ACK, or Delete ACK.



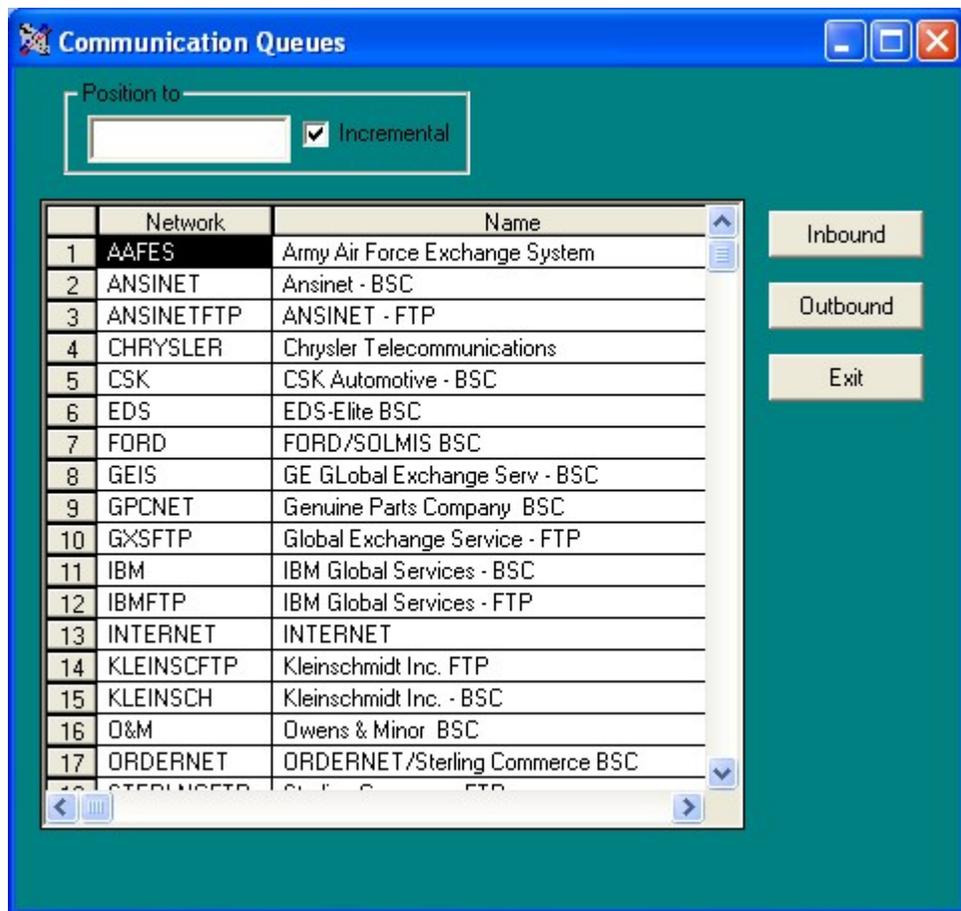
13 Inbound/Outbound Communication queues

This section explains how communication data can be viewed, flagged to reprocess, and printed. The communication queues can be processed by network at the batch level or by Interchange at the interchange level.

13.1 Queue by Network

From the main menu, click on 'Mailbox by Network'. Next, click on the Network to be displayed. Next, click on either the Inbound or Outbound button to review the respective queue.

(Illustration below)



The communication header information is displayed for each batch that was received for the network. The comm ID, status, date, time, number of interchanges in the batch, total number of records, and batch number are displayed.

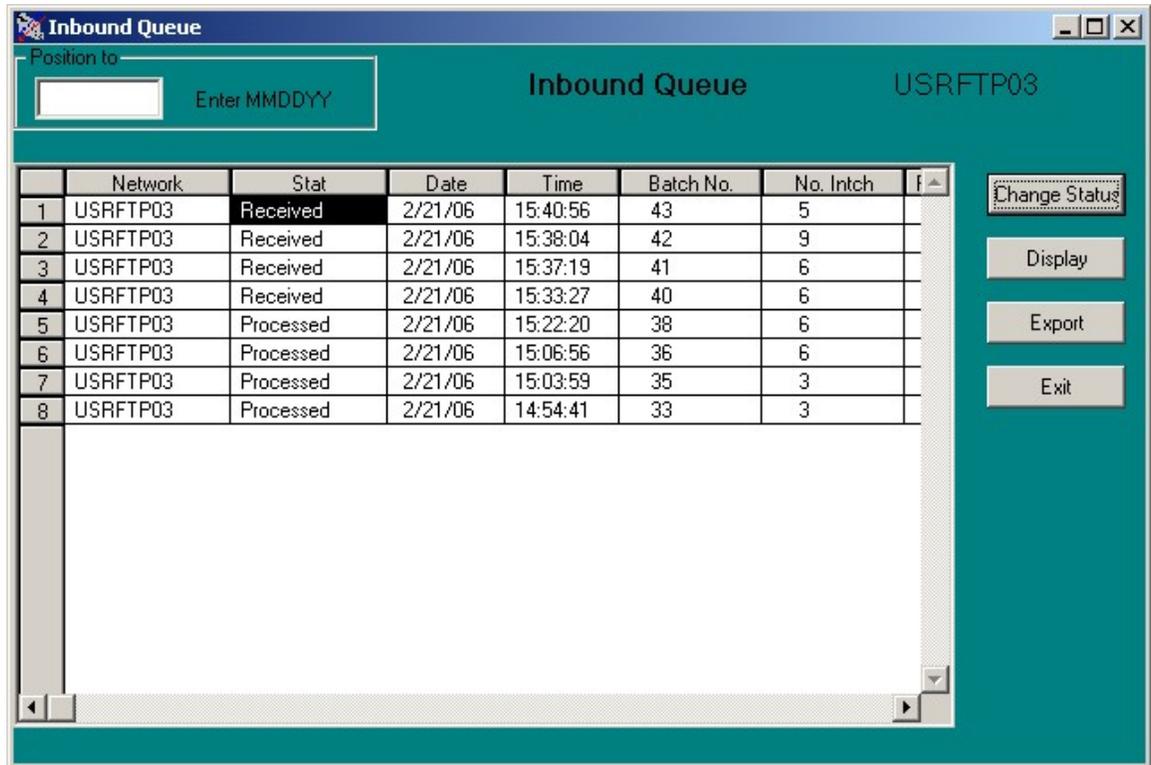
The possible status types for inbound are as follows:

- Received. When communications have been received normally. Only data with the 'Received' status will be retrieved when processing inbound transactions.
- Abnormal. The queue will have the 'Abnormal' status if there was a line drop, or FTP problem during communications. The data needs to be viewed to verify all data has been received. If the data is in tact then the status should be changed to 'Received', otherwise communications should be submitted again.
- Hold. The status can be changed to 'Hold', when you do not want a certain batch to process.
- Translating. The status will show a 'Translating' when the batch is in process of translating inbound transactions.
- Processed. The status will show a 'Processed' when the batch has of translating inbound transactions is complete.

The possible status types for Outbound are as follows:

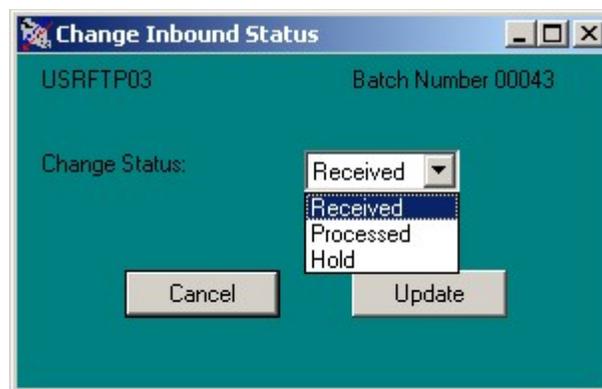
- Queued. When data is queued and ready to be sent.
- Hold. The status can be changed to 'Hold', when you do not want a certain batch to get transmitted.
- Processed. When communications were completed normally.
- Abnormal. When communications were sent abnormally. Batches with an 'Abnormal' status will also get retransmitted as well as batches with a 'Queued' status.

(Illustration below)



13.1.1 Change Status

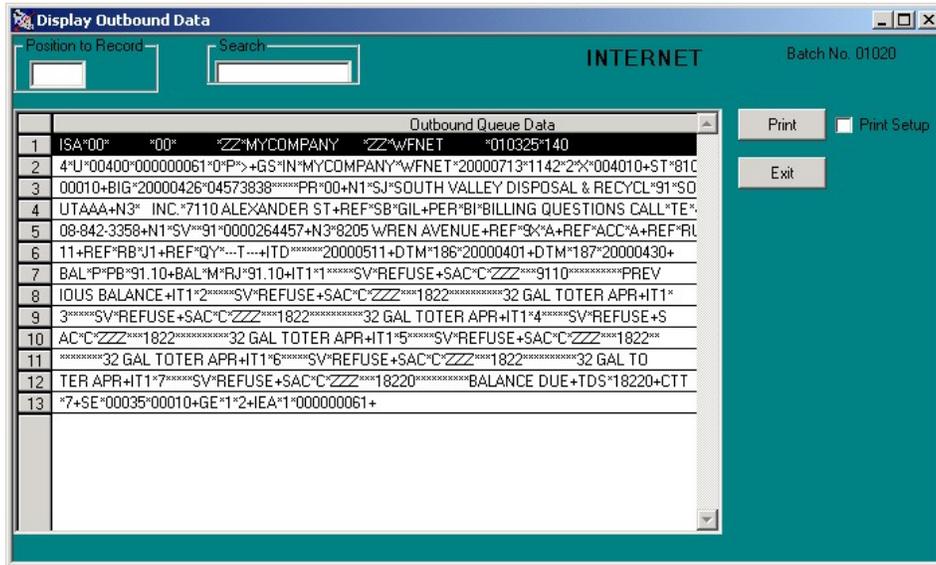
The status can be changed by clicking on the 'Change Status' button.



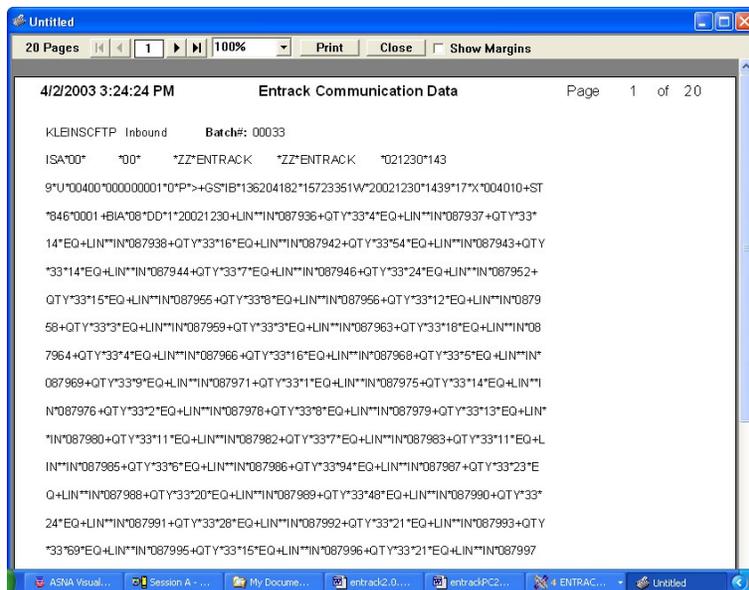
13.1.2 Display Data

The data can be displayed by clicking the Display button. All of the data in the batch is displayed. The data can be positioned at a certain record number, by entering the record number in the 'Position to Record' box and clicking. The data can also be positioned to a record beginning with a certain set of characters by entering it in the 'Search' box and clicking.

(Illustration below)



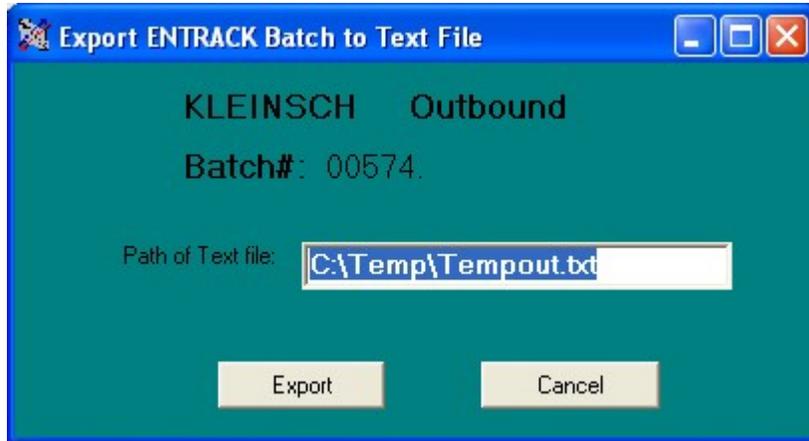
Clicking the Print button can print the data in the batch.



13.1.3 Export Data

The data in the batch can be exported to a text file by clicking the Export button.

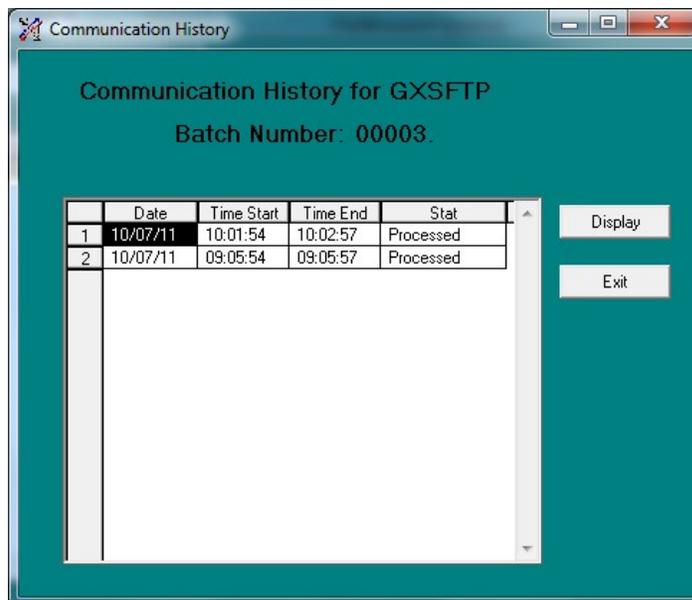
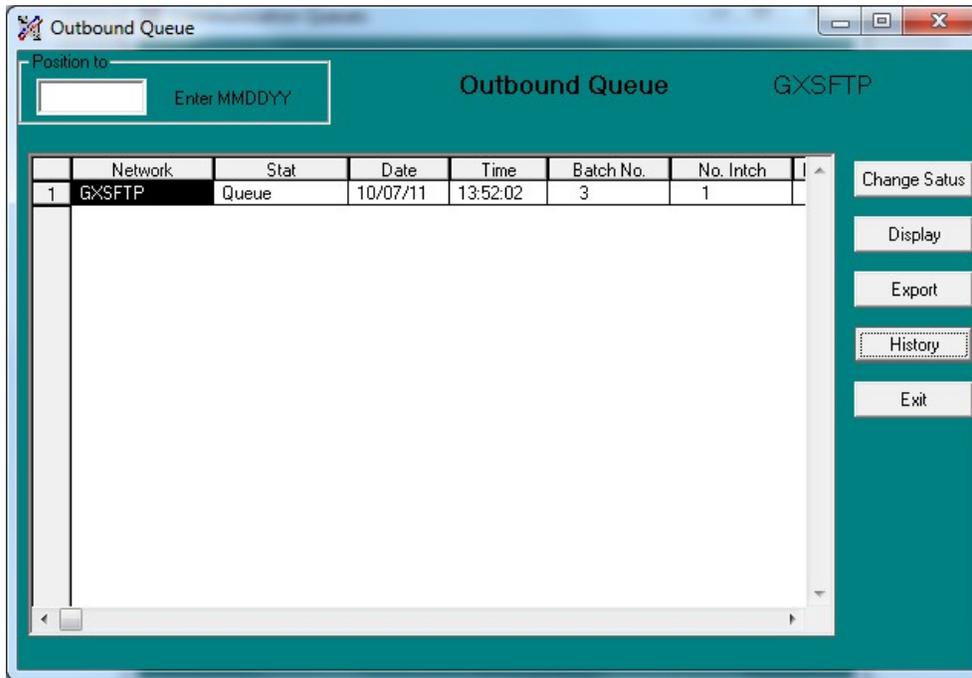
The following prompt screen is displayed.



Enter the path and file name of where the file is to be exported. The default will create a file called Tempout.TXT in a folder called Temp on the "C" drive. NOTE: THE DRIVE AND FILE NAME MUST ALREADY EXIST. You can overlay the default path to any drive\folder\file name.

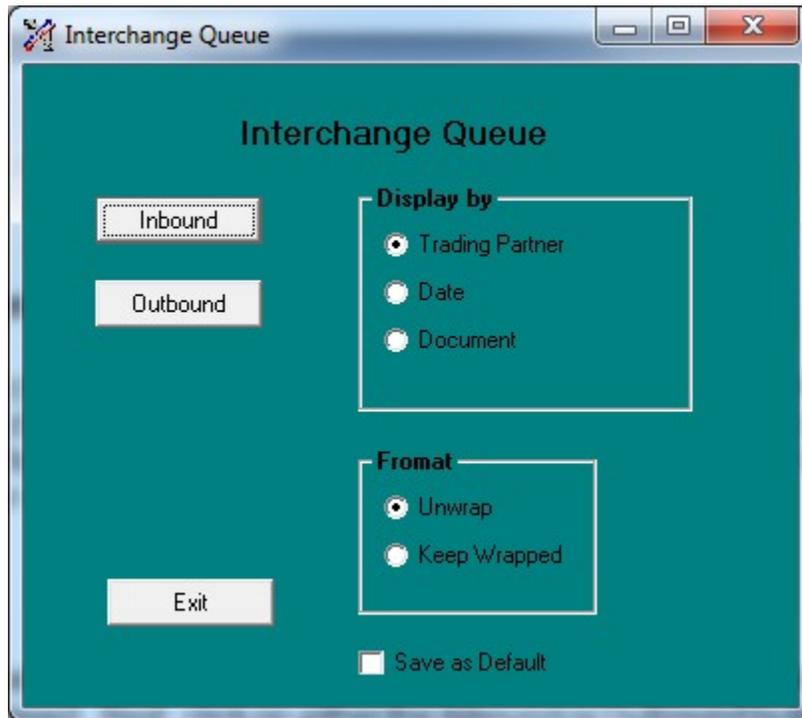
13.2 Queue by Network for Outbound

The Outbound Queue has the same option as Inbound with the addition of the Communication History log, which can be displayed by clicking the history button. This shows all of the communication sessions that took place for a specific communication batch.



13.3 Queue by Interchange

From the main menu, click on 'Mailbox by Interchange. From here each interchange can be sorted by Trading Partner, by Date, or by Document. The format can also be selected as wrapped or unwrapped. Unwrapped is the default.



13.3-A Sort by Trading Partner

Next, click on the Company, and then the Trading Partner to be displayed. Next, click on either the Inbound or Outbound button to review either the inbound or outbound queue.

A header is displayed for each interchange. The Trading Partner ID, status, date, time, batch number, interchange number within the batch, ISA number, Transaction type, document type, and the value of the first document in the interchange are displayed. The interchange can be displayed, data changed and requeued, printed, or status of the individual interchange changed the same way it is queued by network in section 12.1. Also the Transaction button can be clicked on to display or edit the data for each individual transaction.

(Illustration below)

Trading Partner Que - Inbound

Position to: Batch No.

Inbound Trading Partner Queue

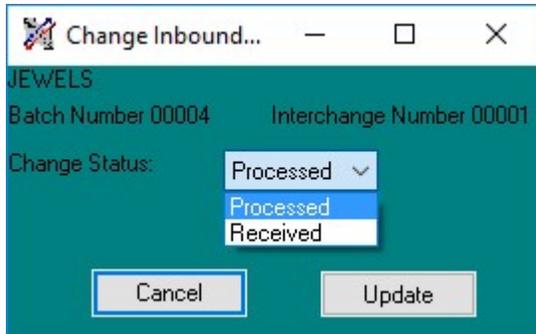
	Partner	Stat	Date	Time	Batch	Intch No.	ISA Number	Trans	ID C
1	925485US00	Received	2/21/06	10:55:38	00031	00019	864000009	864	T
2	925485US00	Received	2/21/06	10:55:38	00031	00018	850000018	850	Pi
3	925485US00	Received	2/21/06	10:55:38	00031	00017	864000009	864	T
4	925485US00	Received	2/21/06	10:55:38	00031	00016	850000018	850	Pi
5	925485US00	Received	2/21/06	10:55:38	00031	00015	864000009	864	T
6	925485US00	Received	2/21/06	10:55:38	00031	00014	850000018	850	Pi
7	925485US00	Received	2/21/06	10:55:38	00031	00013	864000009	864	T
8	925485US00	Received	2/21/06	10:55:38	00031	00012	850000018	850	Pi
9	925485US00	Received	2/21/06	10:55:38	00031	00011	864000009	864	T
10	925485US00	Received	2/21/06	10:55:38	00031	00010	850000018	850	Pi
11	925485US00	Received	2/21/06	10:55:38	00031	00009	864000009	864	T
12	925485US00	Received	2/21/06	10:55:38	00031	00008	850000018	850	Pi
13	925485US00	Received	2/21/06	10:55:38	00031	00007	864000009	864	T
14	925485US00	Received	2/21/06	10:55:38	00031	00006	850000018	850	Pi
15	925485US00	Received	2/21/06	10:55:38	00031	00005	864000009	864	T
16	925485US00	Received	2/21/06	10:55:38	00031	00004	850000018	850	Pi
17	925485US00	Received	2/21/06	10:55:38	00031	00003	864000009	864	T

Buttons: Change Status, Display Data, Change Data, Transaction Level, Exit

Change Status at Interchange Level

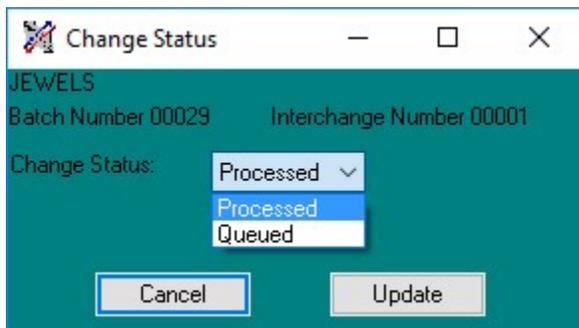
Inbound

Inbound data at interchange level can be changed from Processed to Received. This is useful if you need to only reprocess a specific interchange without reprocessing the entire batch.



Outbound

Outbound data at interchange level can be changed from Processed to Queued. This is useful if you need to only resend a specific interchange without resending the entire batch.



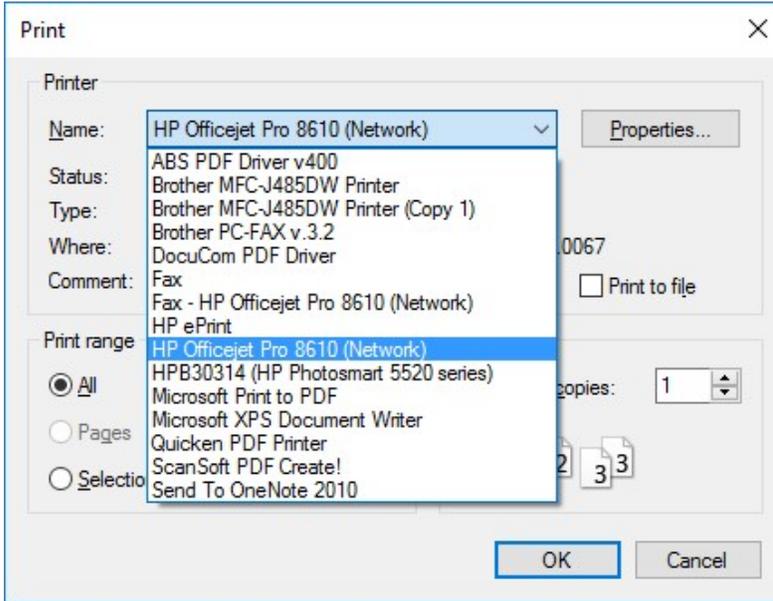
Display Data

The screenshot shows a window titled "Display Outbound Data" with a teal background. At the top, there are input fields for "Position to Record" and "Search", followed by the text "JEWELS" and "JEWELS JEWELERS". Below this, it displays "Batch Number 00009" and "Interchange Number 00001". On the right side, there is a "Print Setup" checkbox and three buttons: "Print", "E-mail", and "Exit". The main area contains a table of EDI data segments, with the first row highlighted in black.

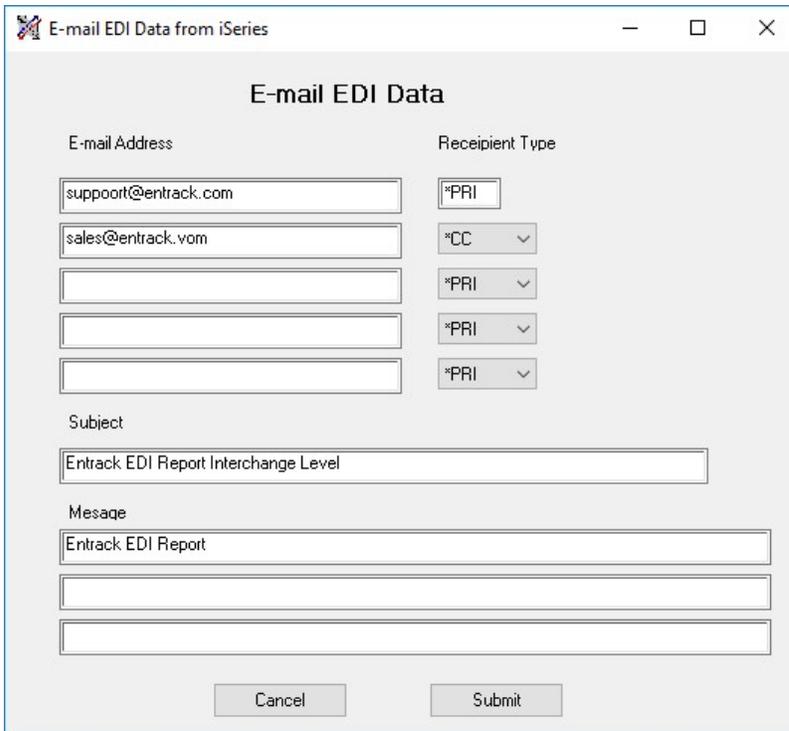
Outbound Queue Data	
1	ISA*00* *00* *01*136204182 *ZZ*JEWELS *150526*135
2	8*U*00401*000000069*0*P*>?
3	GS*IN*136204182*JEWELS*20150526*1358*11*S*004010?
4	ST*810*0001?
5	BIG*20011212*070957*20011201*SQ27676402*****00?
6	REF*IA*730230000?
7	N1*ST*XXX Jewellers*92*1167?
8	N3*Towson Town Center*999 Dulaney Valley Rd., Spc. #?
9	N4*Frenon*RI*02804?
10	ITD*14*3*00*20011212**20020312?
11	DTM*011*20011212?
12	IT1*1*1*EA*55**IN*4500601*VA*965257?
13	PID*F*08?
14	SLN*JEWELS*****EA>55>55>55>0344489747?
15	TDS*5945?
16	SAC*C*D240***445*****PREPAID FREIGHT?
17	CTT*1?
18	SE*15*0001?
19	ST*810*0002?
20	BIG*20011212*070958*20011209*SQ27850814*****00?
21	REF*IA*730230000?
22	N1*ST*ENTRLING INC #10*92*0010?
23	N3*375 RHENT RD?
24	N4*LINCOLN*RI*02333?
25	ITD*14*3*00*20011212**20020312?

The Display data at Interchange level shows, the EDI data unwrapped with each segment on a separate line.
The data can be printed, or e-mailed providing SMTP is configured on the iSeries

Print. Print Data to desired Printer

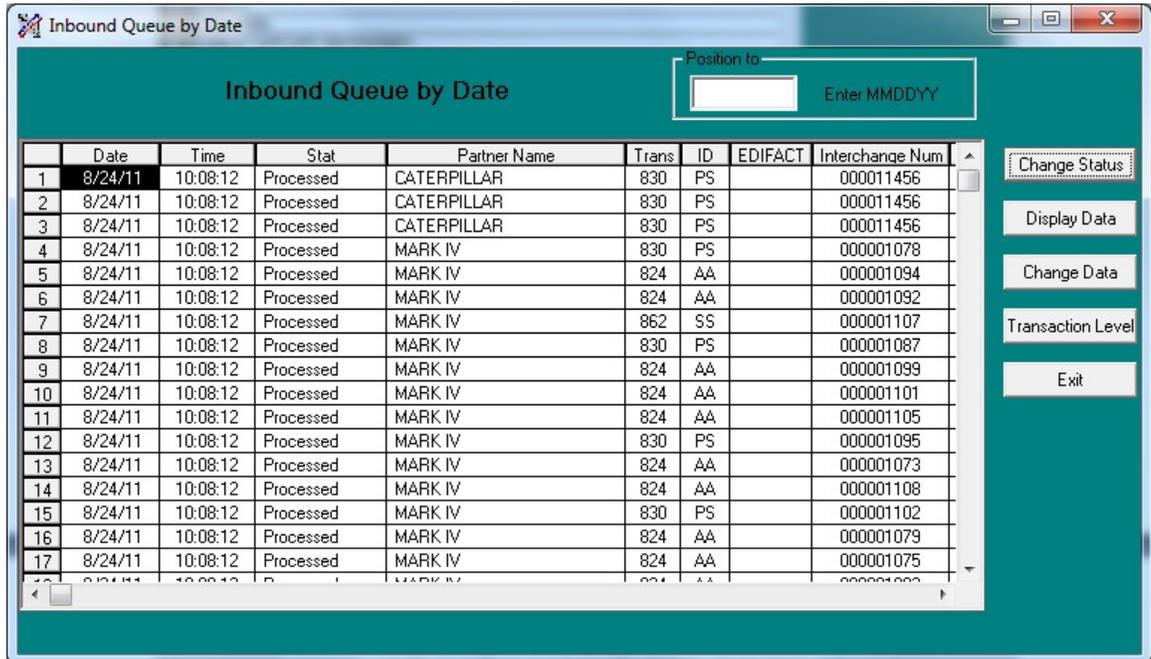


E-mail. E-mail Data from iSeries. The data is sent in a text file up to five e-mail addresses. The Subject line and Message can be overridden. Note Maximum characters for Subject is 44.. Maximum characters for message is 256.



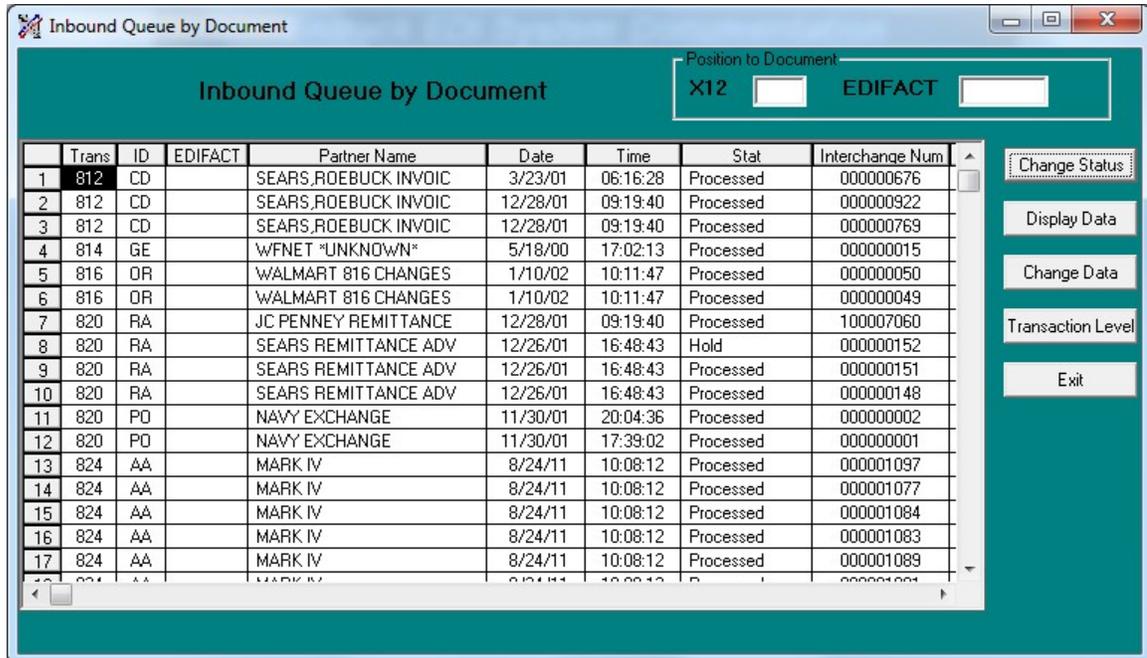
13.3-B Sort by Date

Displays all interchanges sorted by date starting with most recent. The Position-to box is used to start at a specific date. The date needs to be entered in MMDDYY format without dashes.



13.3-C Sort by Document

Displays all interchanges sorted by date starting with most recent. The Position-to Document box is used to start at a specific transaction. Enter X12 documents in the X12 box or EDIFACT document in the EDIFACT box.



13.4 Change and Requeue EDI data

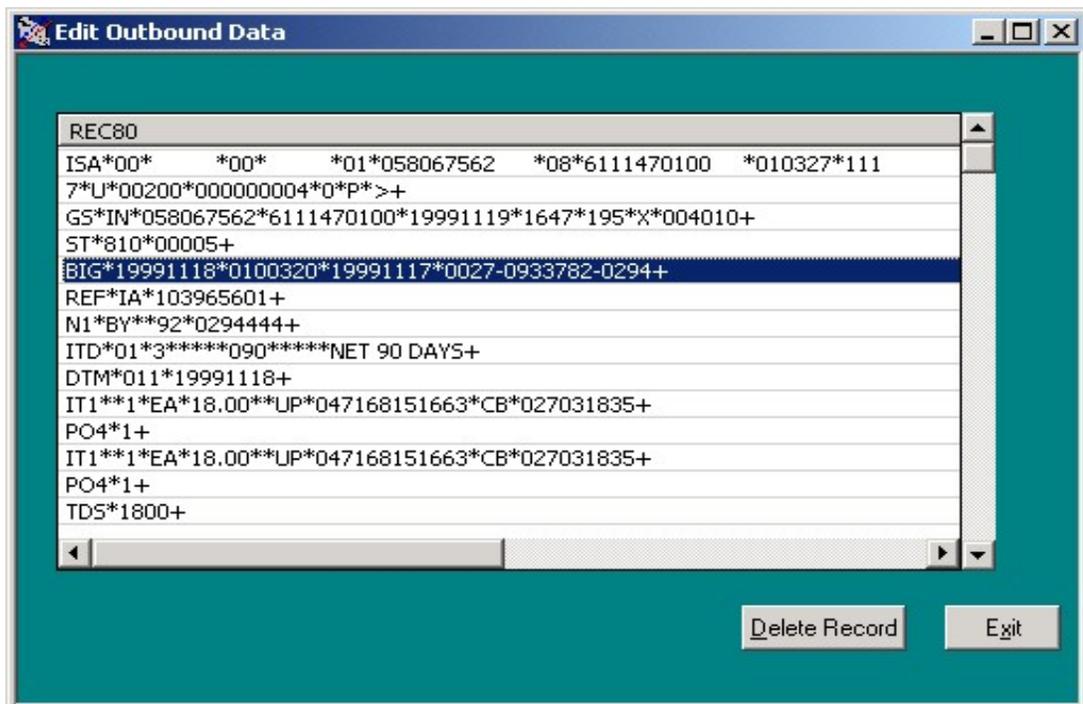
This section explains how to change the raw EDI X12 data. The data can be updated and requeued for the entire interchange or at the transaction level. Select the 'Change Data' button from the inbound/outbound queue menu.

13.4.1 Requeue at Interchange level

Click the Outbound button for outbound data or inbound button for inbound data.

In order to edit the entire interchange, click on the 'change data' button. Each segment record will be displayed on a separate line to allow update. When editing is complete click on the exit button. A prompt screen will then appear, to add the modified batch to the queue. Click the 'Yes' button to requeue the batch. If you do not want the batch requeued click 'No'.

(Illustration below)



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Edit [X]

Use the Tab and Arrow keys to edit this record

Field	Value
REC80	BIG*19991118*0100320*19991117*0027-0933782...
RECCNT	00089

OK Cancel

OutQue [-] [] [X]

ReEnvelope Interchange? Yes

Do you wish to send the edited batch to the Outbound queue?

Yes No

13.4.2 Requeue and display at Transaction level

From the Trading Partner Inbound or Outbound screen, click on the 'Transaction Level' button to edit and requeue individual transactions. Select the transaction you wish to change. Outbound transactions will be enveloped with the next sequential control number. Inbound transactions will use the same ISA and GS enveloping. Click the 'Display' button for display the transaction or click the 'Change Data' button to edit and requeue the transaction. Each segment record will be displayed on a separate line to allow update. When editing is complete click on the exit button. A prompt screen will then appear, to add the modified batch to the queue. Click the 'Yes' button to requeue the batch. If you do not want the batch requeued click 'No'.

(Illustration below)

Outbound Transaction Level

Position to: Transaction No.

Outbound Transaction Queue

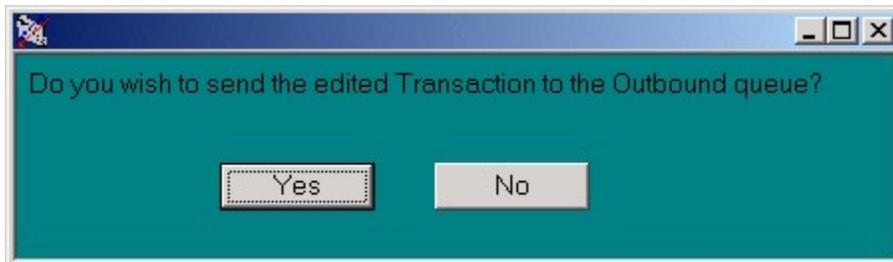
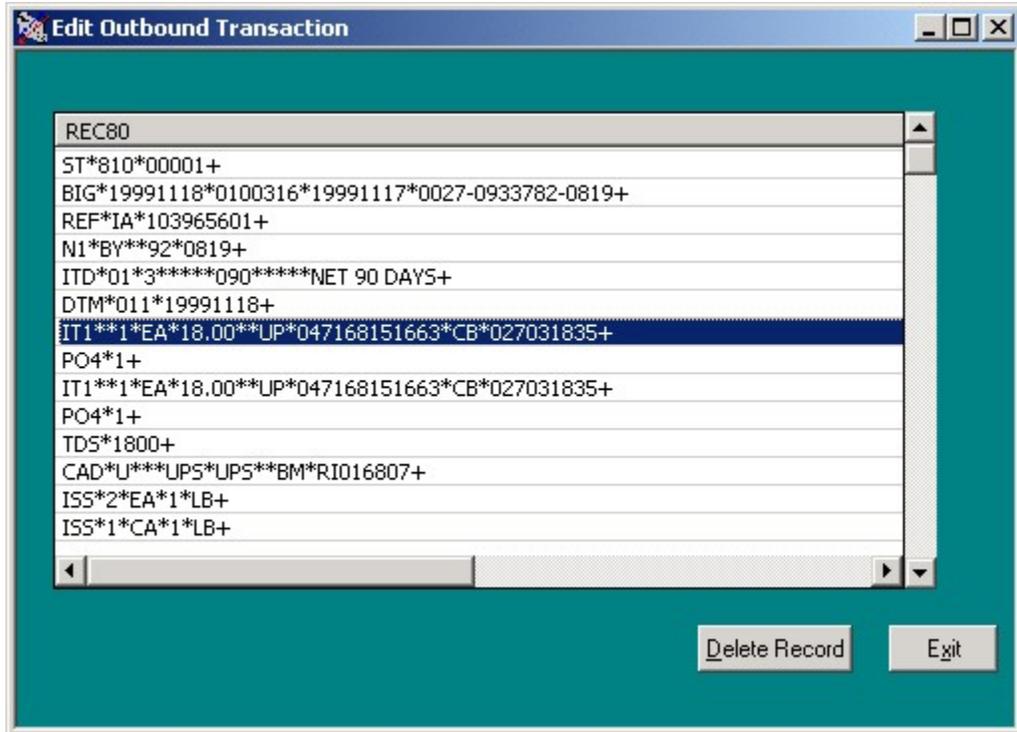
	Trans No	Trans	Document No	Count	Date
1	000000001	810	0100316	16	11/19/99
2	000000002	810	0100317	16	11/19/99
3	000000003	810	0100318	16	11/19/99
4	000000004	810	0100319	16	11/19/99
5	000000005	810	0100320	16	11/19/99
6	000000006	810	0100321	16	11/19/99
7	000000007	810	0100322	16	11/19/99
8	000000008	810	0100323	16	11/19/99
9	000000009	810	0100324	16	11/19/99
10	000000010	810	0100325	16	11/19/99
11	000000011	810	0100326	16	11/19/99
12	000000012	810	0100327	16	11/19/99
13	000000013	810	0100328	16	11/19/99
14	000000014	810	0100329	16	11/19/99
15	000000015	810	0100330	16	11/19/99

Display Data

Change Data

Exit

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13.5 Communication History for Outbound

The communication by Interchange for Outbound has the same options as Inbound except for the addition of the history of any communication sessions that occurred for a specific Interchange.

Trading Partner Outbound Queue

Position to: Batch No. **Outbound Trading Partner Queue** Position to: Enter MMDDYY

	Partner	Stat	Date	Time	Batch	Intch No.	ISA Number	Trans	ID
1	001339035	Hold	10/19/11	15:01:09	18140	00001	000000003		
2	001339035	Queue	10/07/11	13:52:02	00003	00001	000000003	850	P
3	001339035	Abnormal	9/29/11	15:01:16	00002	00001	000000002	850	P
4	001339035	Abnormal	9/29/11	14:58:57	00001	00001	000000001	997	F

Change Status
Display Data
Change Data
Transaction Level
Comm History
Exit

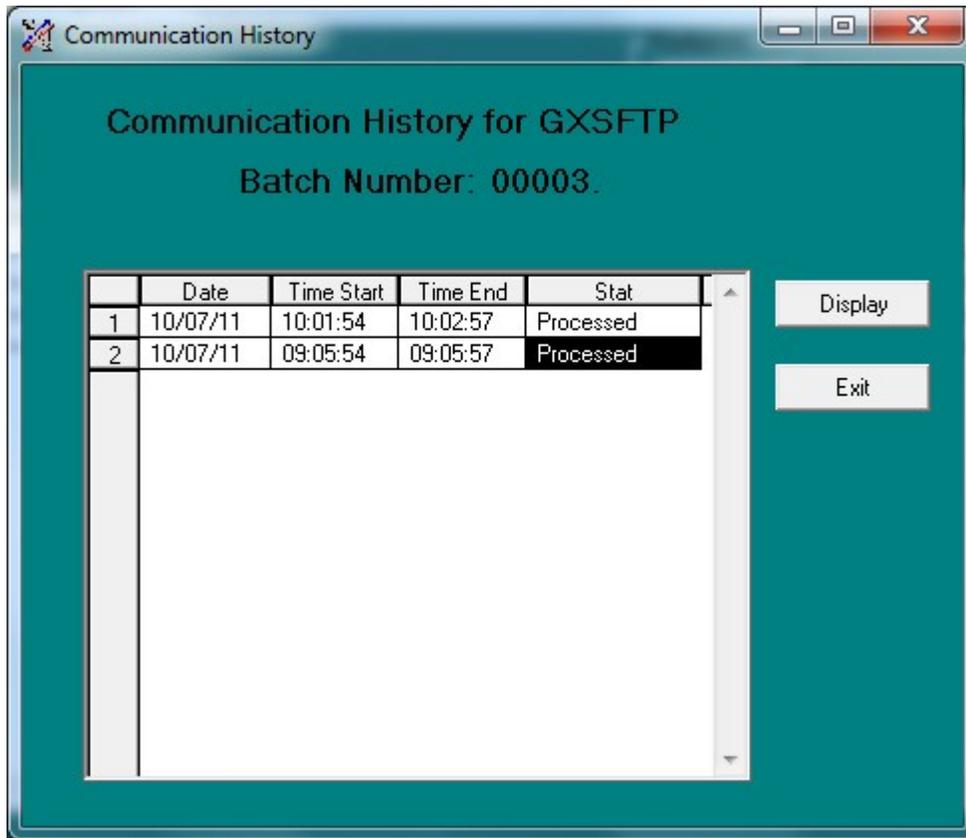
Outbound Queue by Document

Position to Document: X12 EDIFACT

	Trans	ID	EDIFACT	Partner Name	Date	Time	Stat	Interchange Num
1	850	PD		KRAFT	10/07/11	13:52:02	Queue	000000003
2	850	PD		KRAFT	9/29/11	15:01:16	Abnormal	000000002
3	997	FA		KRAFT	9/29/11	14:58:57	Abnormal	000000001

Change Status
Display Data
Change Data
Transaction Level
Comm History
Exit

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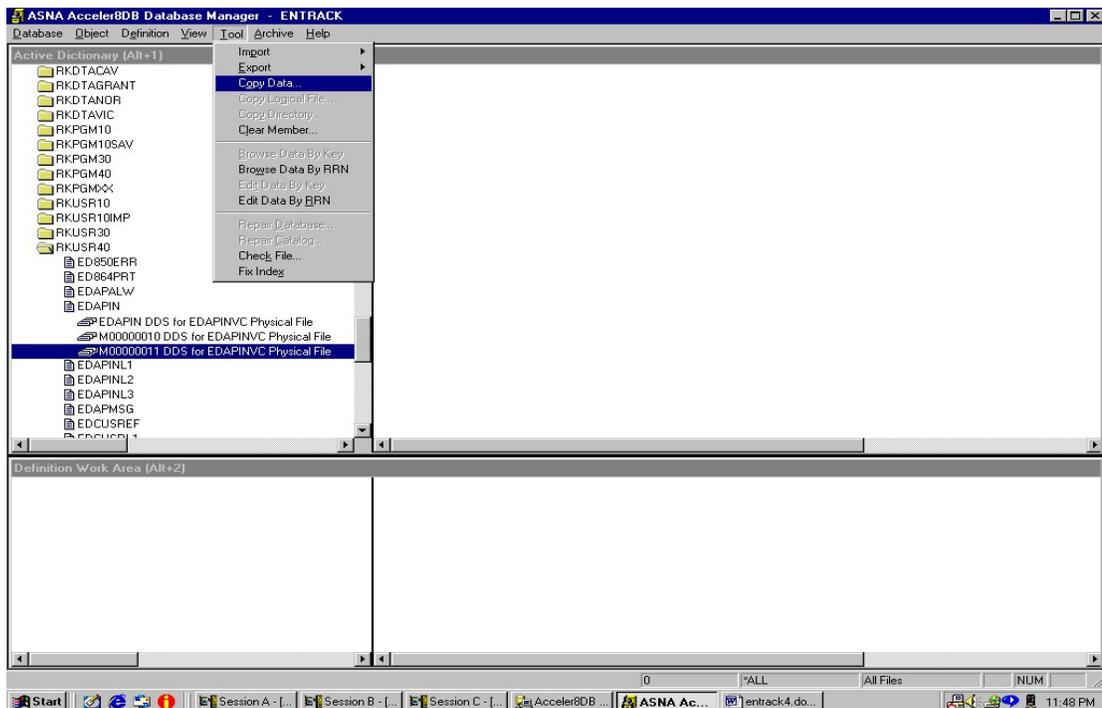
14 Reprocess Outbound EDI Transactions

This section explains how to resend outbound documents that had data that needs to be changed. This process is used when it is more applicable to change application files and rerun the mapping process, than to edit and requeue the raw EDI data. ENTRACK's Outbound process automatically saves all outbound application files into multi members. Section 6.2 refers to creating the files as multi members. The member that is needed needs to be copied back into the first member before the Process Outbound Transaction is called. This can be accomplished using the ASNA Acceler8 DB tool that is provided with ENTRACK, or working with members in PFM on the AS/400 green screen.

14.1 Copy multi member using GUI Acceler8 DB

The Acceler8DB tool can be accessed from the PC by clicking Start, Programs, ASNA Product Suite, Acceler8 DB, and Acceler8 DB Manager. Select the ENTRACK Database and then the library, file, and member. Then click tools and copy data.

(Illustration below)



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Change the 'To file member' to the first member in the file. Then click OK.

(Illustration below)

14.2 Copy multi member using STRPDM with green screen

A list of all members can be viewed through PDM by entering the following:

- STRPDM
- Option 3 (work with members).
- File- EDAPIN. Library-RKUSR40. Member name - *all.

The PDM screen is illustrated below:

```
Work with Members Using PDM                S11111111
File ..... EDAPIN
Library .... RKUSR40      Position to .....
Type options, press Enter.
3=Copy  4=Delete  5=Display  7=Rename  8=Display description
9=Save  13=Change text  18=Change using DFU  25=Find string

Opt Member  Date  Opt Member  Date  Opt Member  Date
M0001134  11/03/98  M0001142  11/10/98  M0001150  11/19/98
M0001135  11/04/98  M0001143  11/10/98  M0001151  11/20/98
M0001139  11/06/98  M0001147  11/14/98  M0001155  11/26/98
M0001140  11/07/98  M0001148  11/17/98  M0001156  11/26/98
M0001141  11/10/98  M0001149  11/18/98  M0001157  11/28/98

More...

Parameters or command
===>
F3=Exit  F4=Prompt  F5=Refresh  F6=Create
F9=Retrieve  F10=Command entry  F23=More options  F24=More keys
```

When the member containing the data that needs to be resent is found, the member needs to be copied to EDAPIN member (EDAPIN) in order to retransmit.

(Illustration below).

```
CPYF FROMFILE(RKUSR40/EDAPIN) TOFILE(RKUSR40/EDAPIN) +
FROMMBR(M0000001) TOMBR(EDAPIN) MBROPT(*ADD) FROMRCD(50)
TORCD(60)
```

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If the problem was caused by a mapping error, the mapping needs to be corrected first and then the “Process Outbound Transactions” (Process Outbound Transactions from the Process Transaction menu) can be selected. The document will then be ready to be retransmitted.

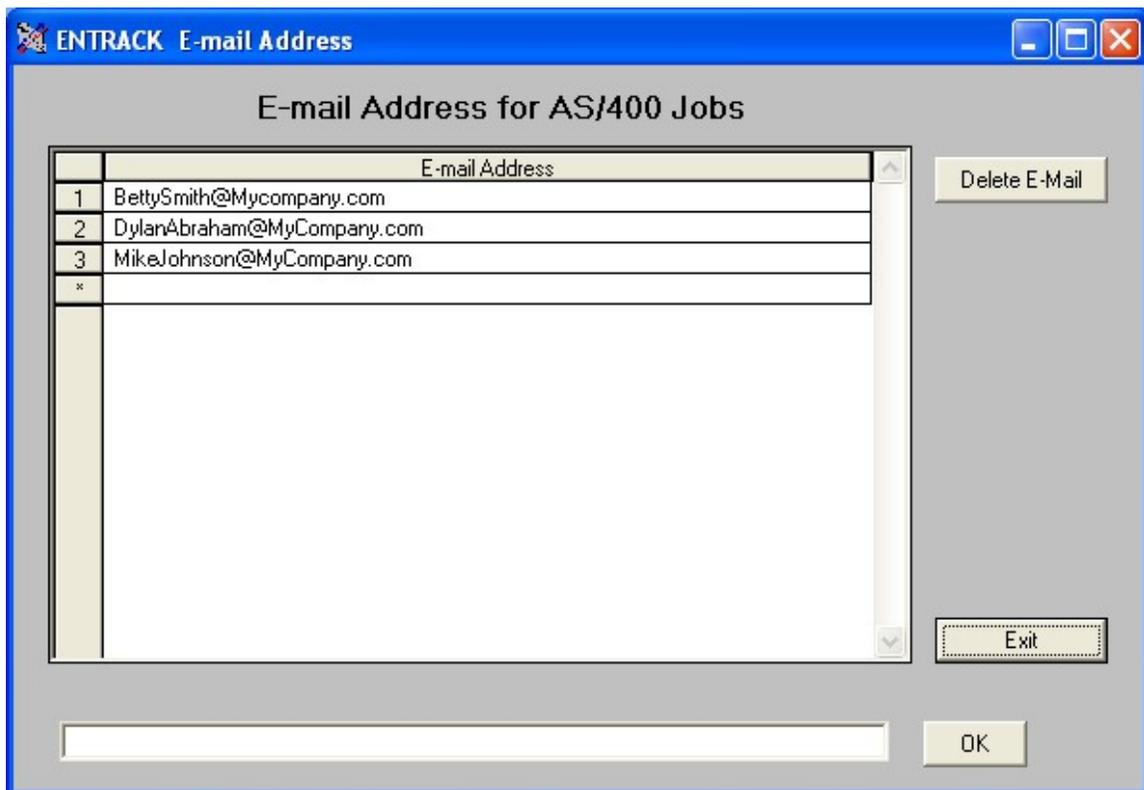
If the problem was due to invalid data from the application, the data needs to be corrected first, (this can be accomplished with the OS/400 UPDDTA command, SQL, or any other 3rd party utility such as DBU to edit the data. Then the “Process Outbound Transactions” can be selected. The document will then be ready to be retransmitted.

15 Sending E-Mail Messages

ENTRACK has the ability to send email messages when jobs are completed from the AS/400. Note: The AS/400-iSeries400 needs to be connected to the internet,

ENTRACK will send an email message when all communication jobs, Processing Inbound Transactions, and Processing Outbound Transactions are complete if checked in ENTRACK Global Settings. If not checked only failed jobs will have messages sent to the E-mail addresses.

Set up all of the recipient email addresses where the messages should be sent by clicking on e-mail from the Entrack Main Menu.

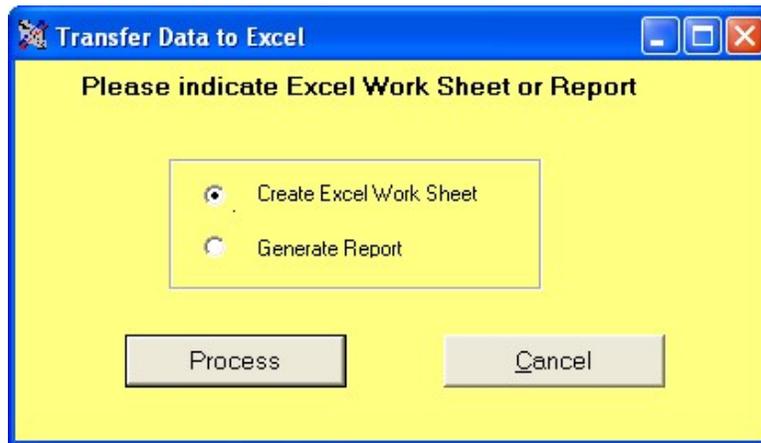


16 Excel Spread Sheet - Reports

ENTRACK creates Excel Spread sheets to list Trading partners, Application data, and mapping data.

16.1 Trading Partner Spread Sheet

From The Trading Partner maintenance screen, select the print button. A prompt screen will appear to Create an Excel spread sheet or a report.



(Report illustration below)

The image shows an Excel spreadsheet window titled "Untitled". The spreadsheet content is as follows:

Company ID	Partner ID	Partner Name	Qualifier
136204182	JEWELS	JEWELS JEWELERS	ZZ
136204182	WFNET	ABCPARTNER	ZZ
136204182	007941230	MY TRADING PARTNER	01
136204182	925485US00	WALMART-SAMS CLUB	08

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The worksheet shows each transaction used per trading partner including Company and Trading Partner ID, Group level ID, transaction and map name.

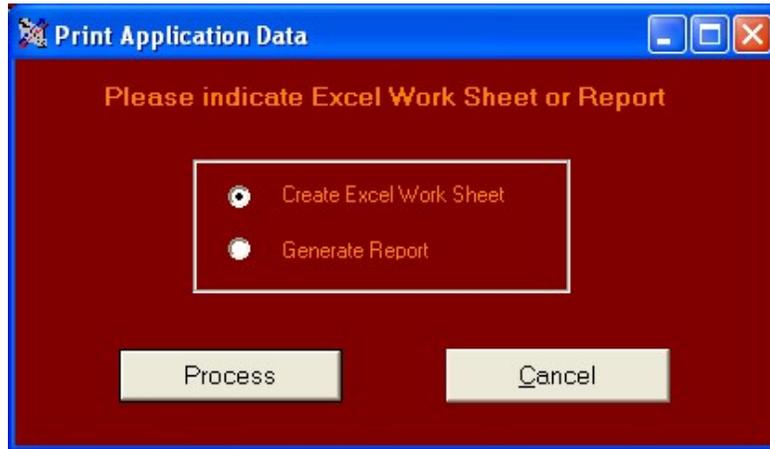
(Excel Spread Sheet Illustration below)

The screenshot displays an Excel spreadsheet with the following data:

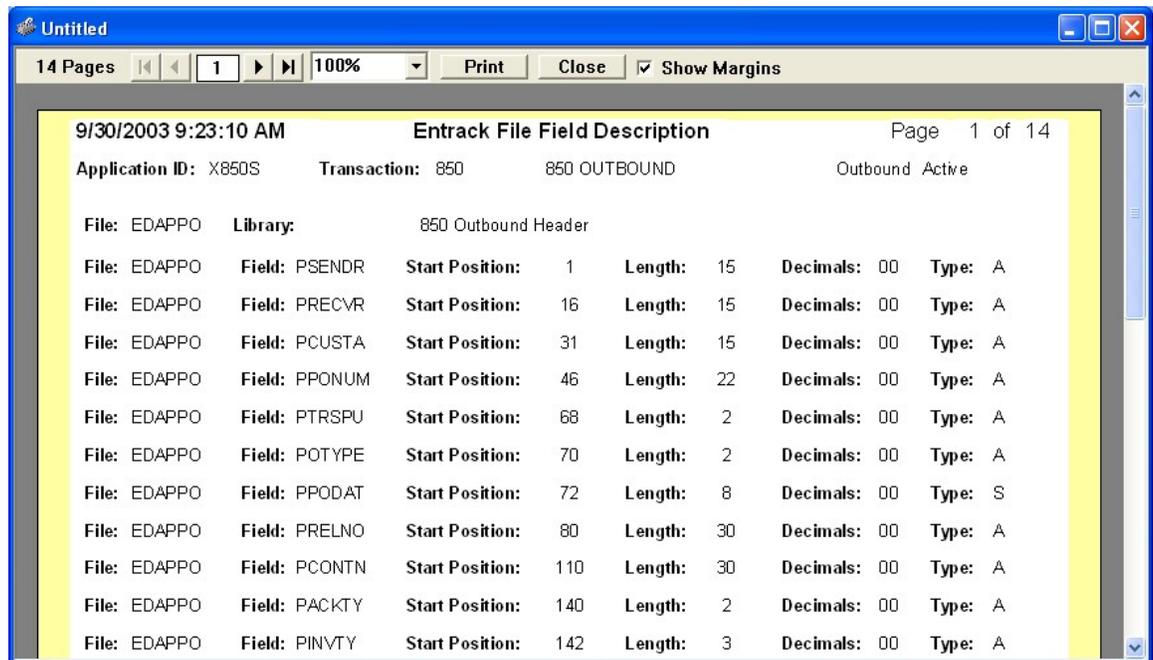
ENTRACK Trading Partner Transactions								
Company ID	Trading Partner	Group Sender	Group Receiver	Transaction	In/Out	Version	Map Name	Partner Name
'136204182	JEWELS	JEWELS	'136204182	850	Inbound	'004010VIC5	JEWELS850	JEWELS JEWELERS
		JEWELS	'136204182	997	Inbound	'004010		JEWELS JEWELERS
		'136204182	'JEWELS	810	Outbound	'004010	JEWELS810	JEWELS JEWELERS
		'136204182	'JEWELS	856	Outbound	'004010	JEWELS856	JEWELS JEWELERS
		'136204182	'JEWELS	997	Outbound	'004010VIC5		JEWELS JEWELERS
'136204182	'WFNET	'WFNET	'136204182	997	Inbound	'004010		ABCPARTNER
		'136204182	'WFNET	810	Outbound	'004010	WELLSFARGO810	ABCPARTNER
'136204182	'007941230	'007941230	'136204182	855	Inbound	'003020	OWENS855	MY TRADING PARTNER
		'136204182	'007941230	850	Outbound	'003020	OWENS850	MY TRADING PARTNER
'383174DI	'925485US00	'925485US00	'13620418	850	Inbound	'004030	WALMART850	WALMART-SAMS CLUB
'383174DI	'925485US00	'925485US00	'13620418	997	Inbound	'004030		WALMART-SAMS CLUB
'383174DI	'925485US00	'13620418	'925485US00	810	Outbound	'004030	WALMART810	WALMART-SAMS CLUB
'383174DI	'925485US00	'13620418	'925485US00	997	Outbound	'004030		WALMART-SAMS CLUB

16.2 Application Spread Sheet

From The Applications screen, highlight an application and click the print button. A prompt screen will appear to Create an Excel spread sheet or a report.



(Report illustration below)



File	Field	Library	Start Position	Length	Decimals	Type
9/30/2003 9:23:10 AM Entrack File Field Description Page 1 of 14						
Application ID: X850S Transaction: 850 850 OUTBOUND			Outbound Active			
File: EDAPPO	Field:	Library: 850 Outbound Header				
File: EDAPPO	Field: PSENR		Start Position: 1	Length: 15	Decimals: 00	Type: A
File: EDAPPO	Field: PRECVR		Start Position: 16	Length: 15	Decimals: 00	Type: A
File: EDAPPO	Field: PCUSTA		Start Position: 31	Length: 15	Decimals: 00	Type: A
File: EDAPPO	Field: PPONUM		Start Position: 46	Length: 22	Decimals: 00	Type: A
File: EDAPPO	Field: PTRSPU		Start Position: 68	Length: 2	Decimals: 00	Type: A
File: EDAPPO	Field: POTYPE		Start Position: 70	Length: 2	Decimals: 00	Type: A
File: EDAPPO	Field: PPODAT		Start Position: 72	Length: 8	Decimals: 00	Type: S
File: EDAPPO	Field: PRELNO		Start Position: 80	Length: 30	Decimals: 00	Type: A
File: EDAPPO	Field: PCONTN		Start Position: 110	Length: 30	Decimals: 00	Type: A
File: EDAPPO	Field: PACKTY		Start Position: 140	Length: 2	Decimals: 00	Type: A
File: EDAPPO	Field: PINVTY		Start Position: 142	Length: 3	Decimals: 00	Type: A

Entrack EDI System Documentation

The worksheet shows the application files used, Level, fields, and field attributes.

(Excel Spread Sheet Illustration below)

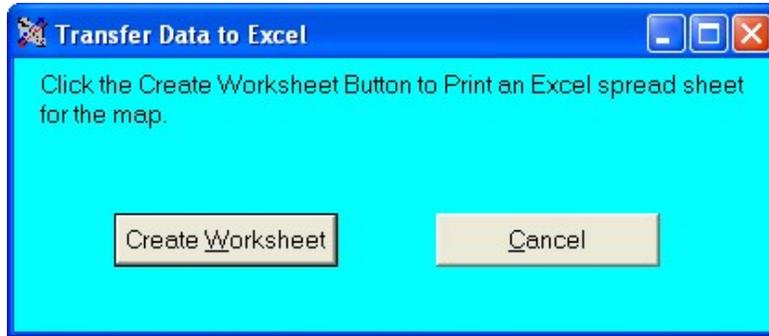
ENTRACK EDI Applications									
Application ID	Level	File Name	Field Name	Start Position	Length	Decimals	Type	Date Format	Text
X850S	H	EDAPPO	PSENDR	1	15		A		SENDER ID
	H	EDAPPO	PRECVR	16	15		A		RECEIVER ID
	H	EDAPPO	PCUSTA	31	15		A		ACCOUNT NO.
	H	EDAPPO	PPONUM	46	22		A		PURCHASE ORDER#
	H	EDAPPO	PTRSPU	68	2		A		TRANS SET PURPOSE
	H	EDAPPO	POTYPE	70	2		A		ORDER TYPE
	H	EDAPPO	PPODAT	72	8		S		P.O. DATE
	H	EDAPPO	PRELNO	80	30		A		RELEASE NO.
	H	EDAPPO	PCONTN	110	30		A		CONTRACT NO.
	H	EDAPPO	PACKTY	140	2		A		ACK TYPE
	H	EDAPPO	PINVTY	142	3		A		INV TYPE
	H	EDAPPO	PCONTY	145	2		A		CONTRACT TYPE
	H	EDAPPO	PPURCA	147	2		A		PURCHASE CAT
	H	EDAPPO	PSECLV	149	2		A		SECURITY LEVEL
	H	EDAPPO	PTRTYP	151	2		A		TRANSACTION TYPE
	H	EDAPPO	PCURID	153	3		A		CUR ENTITY ID
	H	EDAPPO	PCURCC	156	3		A		CUR CODE
	H	EDAPPO	PCURRC	159	3		A		CUR ENTITY ID
	H	EDAPPO	PCURER	162	10		P		CUR EX RATE
	H	EDAPPO	PARVDT	168	8		S		ARRIVAL DATE
	H	EDAPPO	PARVTM	176	4		S		ARRIVAL TIME
	H	EDAPPO	PSHPDT	180	8		S		SHIP DATE
	H	EDAPPO	PSHPTM	188	4		S		ARRIVAL TIME
	H	EDAPPO	PCANDT	192	8		S		CANCEL DATE
	H	EDAPPO	PCANTM	200	4		S		ARRIVAL TIME
	H	EDAPPO	PCREDT	204	8		S		CREATE DATE
	H	EDAPPO	PCRETM	212	4		S		ARRIVAL TIME

Select the 'Print All Apps' button to export all of the applications into the EXCEL work sheet.

16.3 Mapping Spread Sheet

From the Mapping screen, Click on the map to export into an Excel spread sheet and click the print button. A prompt screen will appear to Create the Worksheet.

(Excel Spread Sheet Illustration below)



The worksheet shows the Map name, Segments used, Elements used and all attributes of the elements including conditioning and calculations.

(Excel Spread Sheet Illustration below)

Map Name	Trans	Level	Segment	Sequence	Ele Seq	File/Field	Constant
JEWELS810	810	H	BIG	10	1	EDAPIN_ININDT	
		H	BIG	10	2	EDAPIN_ININV#	
		H	BIG	10	3	EDAPIN_INORDT	
		H	BIG	10	4	EDAPIN_INPO#	
		H	BIG	10	8		0
		H	REF	20	1	IA	
		H	REF	20	2	730230000	
		H	N1	30	1	ST	
		H	N1	30	2	EDAPIN_INSNAM	
		H	N1	30	3		92
		H	N1	30	4	EDAPIN_INCUSA	
		H	N3	40	1	EDAPIN_INSAD1	
		H	N3	40	1	EDAPIN_INSAD2	
		H	N3	40	2	EDAPIN_INSAD2	
		H	N4	50	1	EDAPIN_INSCIT	
		H	N4	50	2	EDAPIN_INNST	
		H	N4	50	3	EDAPIN_INSZIP	
		H	ITD	60	1		14
		H	ITD	60	2		3
		H	ITD	60	3	EDAPIN_INDIS	
		H	ITD	60	4	EDAPIN_INDDOT	
		H	ITD	60	6	EDAPIN_INNDDOT	
		H	DTM	70	1		11
		H	DTM	70	2	EDAPIN_ININDT	
		1	IT1	100	1	EDAPIN_INPO11	
		1	IT1	100	2	EDAPIN_INIQTY	

Entrack EDI System Documentation

Microsoft Excel

File Edit View Insert Format Tools Data Window Help

Type a question for help

Arial 10 B I U

A46

Book1

1	K	L	M	N	O	P	Q	R
2	1st Condition							
3	DB Field	Seg-Element	Constant	Condition	Condition Value	And/Or	DB Field	Seg-Element
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15	EDAPIN_INSAD1			NE	*BLANKS			
16	EDAPIN_INSAD1			EQ	*BLANKS			
17	EDAPIN_INSAD1			NE	*BLANKS			
18								
19								
20								
21								
22								
23								
24	EDAPIN_INDDDT			GT	0			
25								
26								
27								
28	EDAPALW_IAINV#			NE	AAaaa	OR		
29								

Trading Partner Mapping / Sheet2 / Sheet3 /

Ready NUM

Microsoft Excel

File Edit View Insert Format Tools Data Window Help

Type a question for help

Arial 10 B I U

A46

Book1

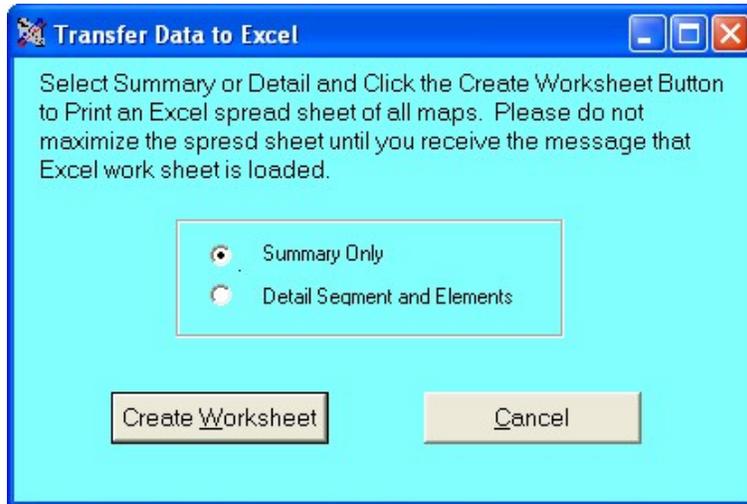
2	T	U	V	W	X	Y	Z	AA
2	2nd Condition		Calculations					
3	Condition	Condition Value	Calc Oper	Seg-Ele	DB Field	Value	Map Result	Add to Constant
4								
5								
6								
7								
8								
9								
10								
11								
12								
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22								
23								
24								
25								
26								
27								
28	NE	ssssssss	+		EDAPALW_IAAAMT	1.234		ACCUMU-02
29								ACCUMU-01
30								

Trading Partner Mapping / Sheet2 / Sheet3 /

Ready NUM

Entrack EDI System Documentation

Print All Maps. From the Mapping screen, click the 'Print All Maps' button to print detail or summary information of all maps. The detail information is the same layout as the individual map as shown above. A prompt screen will appear as follows.



The Summary only spread sheet will appear as follows.

Microsoft Excel

File Edit View Insert Format Tools Data Window Help

Type a question for help

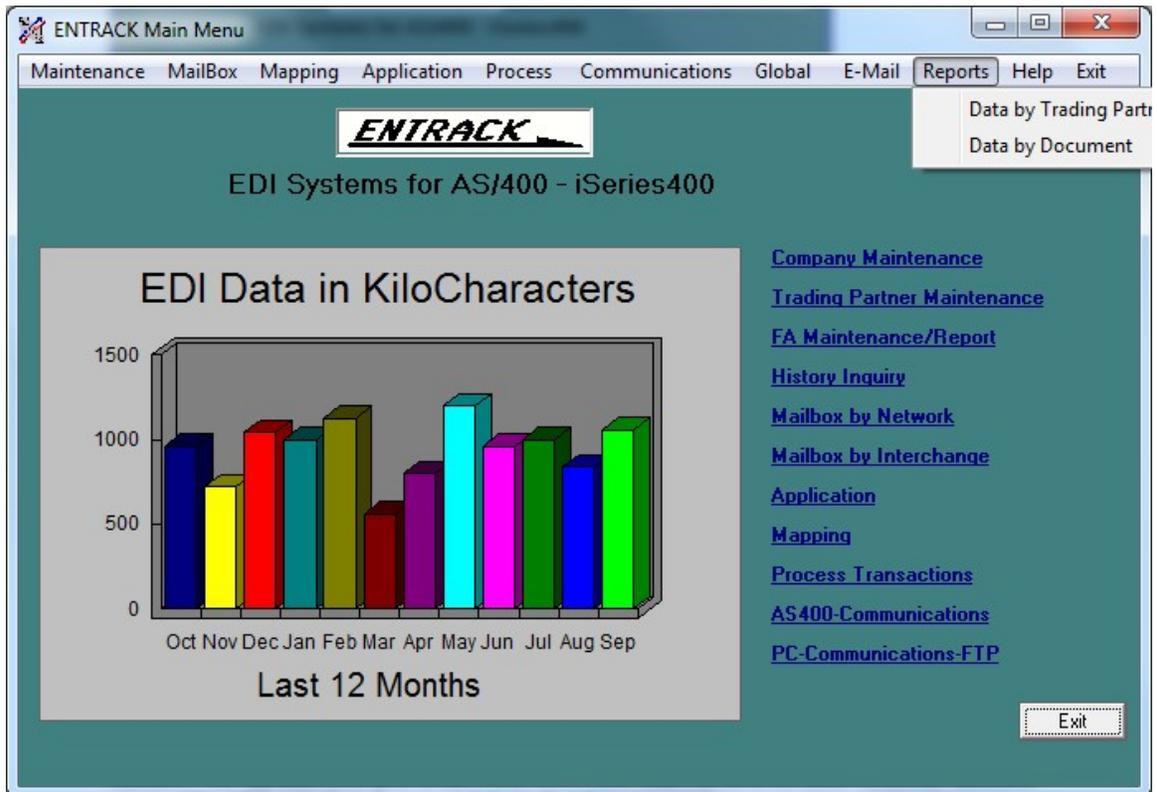
Book1

ENTRACK Trading Partner Mapping Summary					
Map			Where Used		
Map Name	Transaction	Input/Output	Trading Partner ID	Trading Partner Name	Company ID
JEWELS810	810	Outbound	JEWELS	JEWELS JEWELERS	*136204182
JEWELS850	850	Inbound	JEWELS	JEWELS JEWELERS	*136204182
JEWELS856	856	Outbound	JEWELS	JEWELS JEWELERS	*136204182
OWENS850	850	Outbound	*007941230	MY TRADING PARTNER	*136204182
OWENS855	855	Inbound	*007941230	MY TRADING PARTNER	*136204182
WALMART810	810	Outbound	*925485US00	WALMART-SAMS CLUB	*136204182
WALMART850	850	Inbound	*925485US00	WALMART-SAMS CLUB	*136204182
WELLSFARGO810	810	Outbound	*WFNET	ABCPARTNER	*136204182

Ready NUM

17 Reports -Graphs

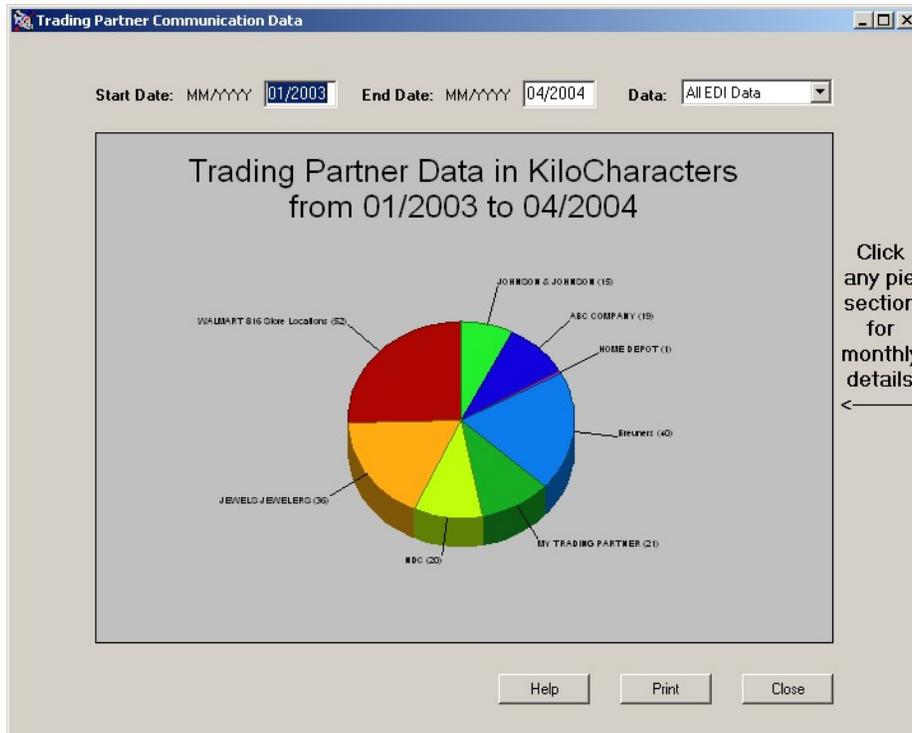
From the Tool Bar menu, reports of data by trading partner or data by document can be selected.



17.1 Report by Trading Partner

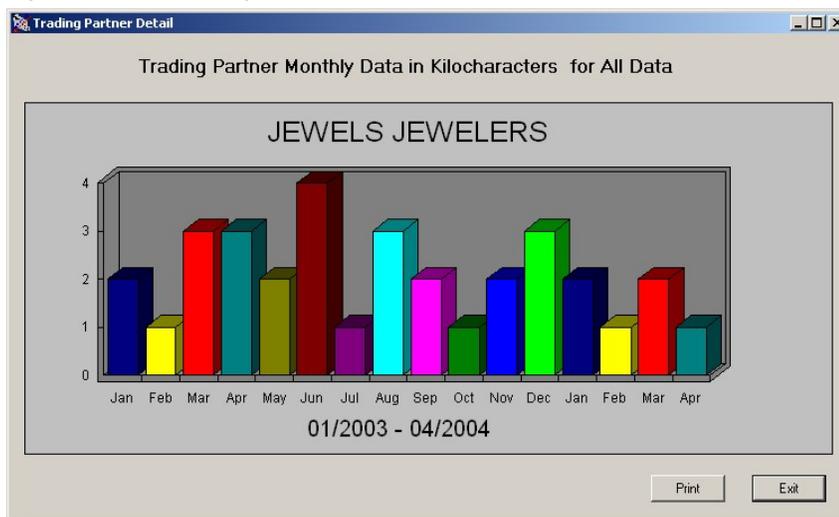
A Pie chart will display all of the available EDI Communication data based on kilo-characters for the current month. The pie chart is divided by trading partner. The Start Date and End Date fields are used to specify a selected date range of month and year. The data field is used to select inbound data only, outbound data only, or all EDI data. The graph can also be printed by clicking the Print button. To update the pie chart with the new start and end date criteria, double click either the start date or end date field.

Entrack EDI System Documentation



The date range can be changed. To update the pie chart with the new date range, double click the start or end date field.

In order to select a monthly detail graph for a specific trading partner, double click the desired trading partner in the section of the pie chart. The date range must be at least 2 months, and not more than 24 months. Also select the data type for inbound data only, outbound data only, or all EDI data. The monthly data graph can also be printed.

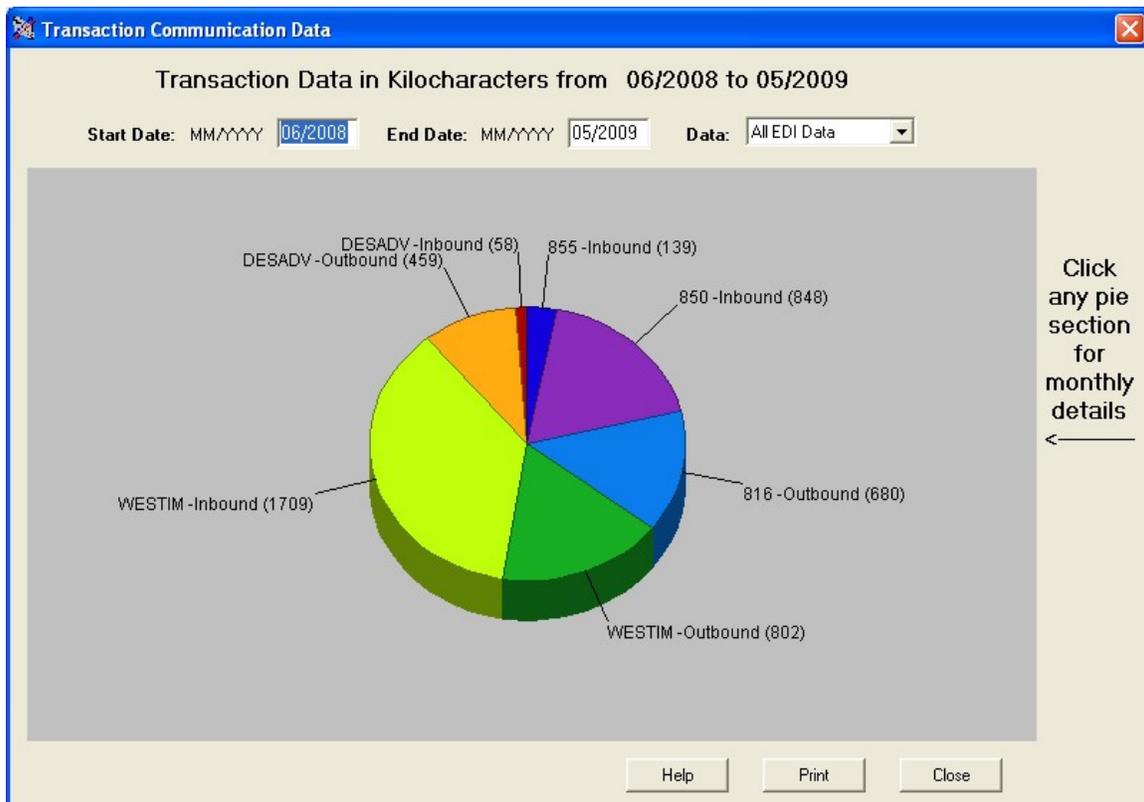


17.2 Report by Document Type

A Pie chart will display all of the available EDI Communication data based on kilo-characters for the current month. The pie chart is divided by document type. The Start Date and End Date fields are used to specify a selected date range of month and year. The data field is used to select inbound data only, outbound data only, or all EDI data. The graph can also be printed by clicking the Print button. To update the pie chart with the new start and end date criteria, double click either the start date or end date field.

The date range can be changed. To update the pie chart with the new date range, double click the start or end date field.

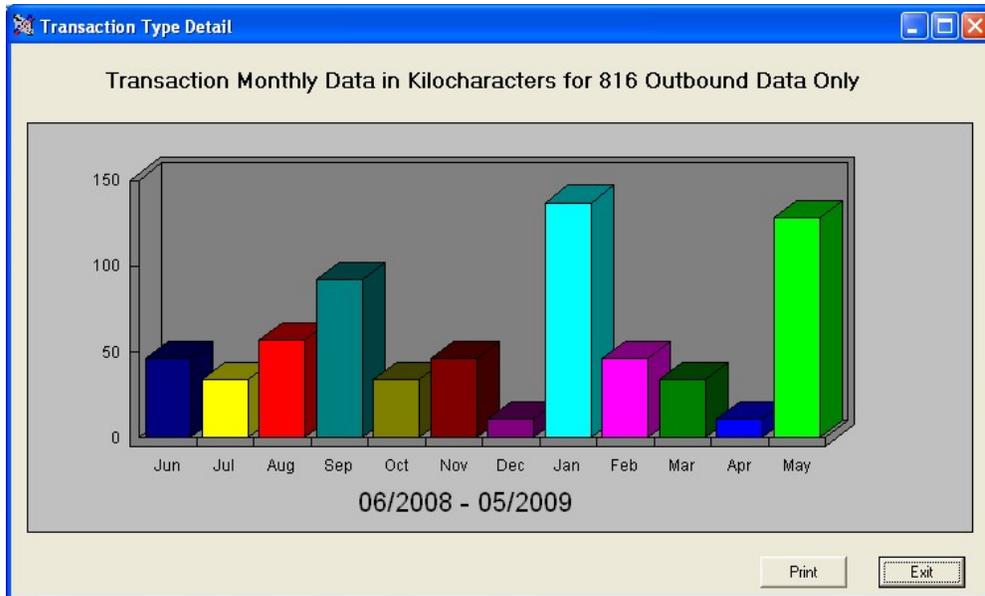
In order to select a monthly detail graph for a specific trading partner, double click the desired trading partner in the section of the pie chart. The date range must be at least 2 months, and not more than 24 months. Also select the data type for inbound data only, outbound data only, or all EDI data. The monthly data graph can also be printed.



Entrack EDI System Documentation

The date range can be changed. To update the pie chart with the new date range, double click the start or end date field.

In order to select a monthly detail graph for a specific trading partner, double click the desired trading partner in the section of the pie chart. The date range must be at least 2 months, and not more than 24 months. Also select the data type for inbound data only, outbound data only, or all EDI data. The monthly data graph can also be printed.



18 Tables

Tables can be used in ENTRACK to convert values to and from the EDI data to application data. The tables can be used in both Inbound and Outbound maps. This is used to cross reference fields.

To set up a table first identify the DB2/400 file you will be using that will contain the fields to cross reference the EDI and application field.

Ex: File name CUSTLOCATN

CUST ACCOUNT	SHIP TO	STATE	ZIP CODE	LOCATION
1167	1111111	RI	02907	1167TEST
0010	1111111	RI	02907	0010TEST

Click in Tables from the main GUI/400 menu.

Click on a blank line to add a table using the Input/Output fields at the bottom of the screen.

Specify a name for the table.

Specify the library and file name of the DB2/400 file.

Click OK. Then highlight the table name and click Retrieve source.

You will then be able to specify what fields to be used for the EDI field and application field.

The screenshot shows the 'ENTRACK Tables' window. At the top, there is a 'Position to' field and an 'Incremental' checkbox which is checked. Below this is a table with 8 rows and 6 columns: Table, Library, File, EDI Field, and Application Field. The second row, 'CUSTTAB', is highlighted. To the right of the table are three buttons: 'Retrieve Source', 'Delete Table', and 'Exit'. At the bottom of the window, there are input fields for 'Table' (containing 'CUSTTAB'), 'Library' (containing 'TEST'), 'File' (containing 'CUSTLOCATN'), 'EDI Field' (a dropdown menu with 'INN104' selected), and 'Application Field' (a dropdown menu with 'INCUSA' selected). An 'OK' button is located to the right of these fields.

	Table	Library	File	EDI Field	Application Field
1	AAAAAAAAA	TEST	ITEMXREF	UPCNUM	ITEMNO
2	CUSTTAB	TEST	CUSTLOCAT	INN104	INCUSA
3	ITEMTAB	TEST	ITEMXREF	CUSITM	ITEMNO
4	QAZXSERTT	TEST	CUSTLOCAT	INCUSA	INSCUS
5	SHIPXREF	TEST	CUSTLOCAT	INN104	INCUSA
6	TESTTAB	TEST	ITEMXREF	ITEMNO	CUSITM
7	XXXTAB	TEST	ITEMXREF	ITEMNO	UPCNUM
8	ZZZTAB	TEST	ITEMXREF	ITDESC	ITEMNO
*					

Entrack EDI System Documentation

Once the table is created, you table can be entered in the mapping of the elements to be converted.

Input Data

*N1*ST*KJ GREEN SAGINAW*92*0024~*

Map using the CUSTTAB Table

Data in Table

CUST ACCOUNT	SHIP TO	STATE	ZIP CODE	LOCATION
0024	1111111	RI	02907	24TEST
1205	1111111	RI	02907	12050TEST

Result of application file.

SHIP TO LOCATION	CUSTOMER P.O
24TEST	SO27938000
1205TEST	SO27962329

19 Document Search

The Document Search function allows the capability to search EDI Inbound and Outbound data by document. The search can be filtered by Transaction Set, Trading partner, X12 or EDIFACT Standard, Interchange Number and Date Range. Also, the “Contains” checkbox can be checked to retrieve documents, when the partial name is used to search for the document name. Otherwise the search will only retrieve an exact match.

The screenshot shows a 'Document Search' dialog box with the following fields and options:

- Standard:** Radio buttons for 'X12' (selected) and 'EDIFACT'.
- Transaction Set:** Dropdown menu with '*ALL' selected.
- Input/Output:** Dropdown menu with 'Outbound' selected.
- Trading Partner:** Dropdown menu with '*ALL' selected.
- Document:** Text input field with '*ALL' and a 'Contains' checkbox (unchecked).
- Interchange No.:** Text input field with '0'.
- Start Date:** Text input field with '20000101' and a 'YYYYMMDD' label.
- End Date:** Text input field with '20301231' and a 'YYYYMMDD' label.
- Buttons:** 'Cancel' and 'Search' buttons at the bottom.

Search for an Exact Match.

The screenshot shows a 'Document Search' dialog box with a blue background. It features a 'Standard' section with radio buttons for 'X12' (selected) and 'EDIFACT'. Below this are several input fields: 'Transaction Set' (dropdown menu with '*ALL'), 'Input/Output' (dropdown menu with 'Outbound'), 'Trading Partner' (dropdown menu with '*ALL'), 'Document' (text input with '209253200' and a 'Contains' checkbox), 'Interchange No.' (text input with '0'), 'Start Date' (text input with '20000101' and 'YYYYMMDD' label), and 'End Date' (text input with '20301231' and 'YYYYMMDD' label). At the bottom are 'Cancel' and 'Search' buttons.

The screenshot shows a 'Display Documents' dialog box with a blue background. It displays search criteria at the top: Search Criteria: 209253200, Start Date: 01/01/2000, Trading Partner: *ALL, Type: Outbound, End Date: 12/31/2030, Transaction: *ALL. Below the criteria is a table with the following data:

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	TRAX TECHNOLOGIES	TRAXHP	210	10/16/15	209253200	53

On the right side of the dialog, there are three buttons: 'Transaction', 'Interchange', and 'Cancel'.

Entrack EDI System Documentation

Search using the Contains Check box.

Document Search

Standard

X12
 EDIFACT

Transaction Set: *ALL

Input/Output: Outbound

Trading Partner: *ALL

Document: 20965 Contains

Interchange No.: 0

Start Date: 20000101 YYYYMMDD

End Date: 20301231 YYYYMMDD

Cancel Search

ENTRACK Document Search

Search Criteria: 20965 Start Date: 01/01/2000 Trading Partner: *ALL
Type: Outbound End Date: 12/31/2030 Transaction: *ALL

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	TRAX TECHNOLOGIES	TRAX:HP	210	10/16/15	209651500	53
2	TRAX TECHNOLOGIES	TRAX:HP	210	10/16/15	209651700	53
3	TRAX TECHNOLOGIES	TRAX:HP	210	10/16/15	209651900	53

Transaction
Interchange
Cancel

Entrack EDI System Documentation

Search All Documents for a specific Trading Partner.

Document Search

Standard

X12
 EDIFACT

Transaction Set: *ALL

Input/Output: Inbound

Trading Partner: Motor Express Toronto (MET)

Document: *ALL Contains

Interchange No.: 0.

Start Date: 20000101 YYYYMMDD

End Date: 20301231 YYYYMMDD

Cancel Search

Display Documents

ENTRACK Document Search

Search Criteria: *ALL Start Date: 01/01/2000 Trading Partner: MET
 Type: Inbound End Date: 12/31/2030 Transaction: *ALL

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	Motor Express Toronto	MET	211	2/02/16	508359747	9897
2	Motor Express Toronto	MET	211	2/02/16	603070463	9897
3	Motor Express Toronto	MET	211	2/02/16	604184784	9897
4	Motor Express Toronto	MET	211	2/02/16	604184818	9897
5	Motor Express Toronto	MET	211	2/02/16	658587651	9897
6	Motor Express Toronto	MET	211	2/02/16	508359747	9897
7	Motor Express Toronto	MET	211	2/02/16	603070463	9897
8	Motor Express Toronto	MET	211	2/02/16	604184784	9897
9	Motor Express Toronto	MET	211	2/02/16	604184818	9897
10	Motor Express Toronto	MET	211	2/02/16	658587651	9897
11	Motor Express Toronto	MET	211	2/02/16	508359747	9897
12	Motor Express Toronto	MET	211	2/02/16	603070463	9897
13	Motor Express Toronto	MET	211	2/02/16	604184784	9897
14	Motor Express Toronto	MET	211	2/02/16	604184818	9897
15	Motor Express Toronto	MET	211	2/02/16	658587651	9897
16	Motor Express Toronto	MET	214	2/02/16	508359747	9897
17	Motor Express Toronto	MET	214	2/02/16	603070463	9897
18	Motor Express Toronto	MET	214	2/02/16	604184784	9897
19	Motor Express Toronto	MET	214	2/02/16	604184818	9897
20	Motor Express Toronto	MET	214	2/02/16	658587651	9897

Transaction Interchange Cancel

Entrack EDI System Documentation

Search only a specific transaction for specific Trading Partner.

The screenshot shows a 'Document Search' dialog box with a blue background. It contains several input fields and buttons. A 'Standard' section has two radio buttons: 'X12' (selected) and 'EDIFACT'. Below this are dropdown menus for 'Transaction Set' (214), 'Input/Output' (Inbound), and 'Trading Partner' (Motor Express Toronto (MET)). There is a text field for 'Document' containing '*ALL' and a 'Contains' checkbox. Other fields include 'Interchange No.' (0), 'Start Date' (20000101), and 'End Date' (20301231). At the bottom are 'Cancel' and 'Search' buttons.

The screenshot shows a 'Display Documents' dialog box with a blue background. It displays search criteria at the top: Search Criteria: *ALL, Start Date: 01/01/2000, Trading Partner: MET, Type: Inbound, End Date: 12/31/2030, Transaction: 214. Below this is a table with 5 rows of results. To the right of the table are buttons for 'Transaction', 'Interchange', and 'Cancel'.

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	Motor Express Toronto	MET	214	2/02/16	508359747	9897
2	Motor Express Toronto	MET	214	2/02/16	603070463	9897
3	Motor Express Toronto	MET	214	2/02/16	604184784	9897
4	Motor Express Toronto	MET	214	2/02/16	604184818	9897
5	Motor Express Toronto	MET	214	2/02/16	658587651	9897

Entrack EDI System Documentation

Search by Interchange Number. The Interchange number is the ISA-13 in the X12 standards or the UNB-05 in the EDIFACT Standards.

Example: All documents with interchange 2.

The screenshot shows a 'Document Search' dialog box with a blue background. It contains several search criteria fields: 'Standard' with radio buttons for 'X12' (selected) and 'EDIFACT'; 'Transaction Set' with a dropdown menu set to '*ALL'; 'Input/Output' with a dropdown menu set to 'Inbound'; 'Trading Partner' with a dropdown menu set to '*ALL'; 'Document' with an empty text box and a 'Contains' checkbox; 'Interchange No.' with a text box containing the number '2'; 'Start Date' with a text box containing '20000101' and a 'YYYYMMDD' label; and 'End Date' with a text box containing '20301231' and a 'YYYYMMDD' label. At the bottom are 'Cancel' and 'Search' buttons.

The screenshot shows a 'Display Documents' dialog box with a blue background. It displays search criteria at the top: Search Criteria (yellow box), Start Date: 01/01/2000, Trading Partner: *ALL, Type: Inbound, End Date: 12/31/2030, and Transaction: *ALL. Below the criteria is a table with 6 rows of search results. To the right of the table are buttons for 'Transaction', 'Interchange', and 'Cancel'.

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	KRAFT	001339035	810	4/20/16	1923964184	17569
2	Giovanni	075693242	997	11/13/15		2
3	Giovanni	075693242	997	11/13/15		2
4	Giovanni	075693242	997	11/13/15		2
5	Giovanni	075693242	997	11/13/15		2
6	Giovanni	075693242	997	11/13/15		2

Entrack EDI System Documentation

Example Filter by 810 transactions for Interchange 2.

The screenshot shows a 'Document Search' dialog box with a blue background. It contains several input fields and buttons. The 'Standard' section has two radio buttons: 'X12' (selected) and 'EDIFACT'. Below this are dropdown menus for 'Transaction Set' (810), 'Input/Output' (Inbound), and 'Trading Partner' (*ALL). There is a text input field for 'Document' with a 'Contains' checkbox. The 'Interchange No.' field contains the value '2'. Date fields for 'Start Date' (20000101) and 'End Date' (20301231) are present, with 'YYYYMMDD' labels. 'Cancel' and 'Search' buttons are at the bottom.

The screenshot shows a 'Display Documents' dialog box with a blue background. It displays search criteria at the top: Search Criteria (yellowed), Start Date (01/01/2000), Trading Partner (*ALL), Type (Inbound), End Date (12/31/2030), and Transaction (810). Below the criteria is a table with the following data:

	Trading Partner	Trading Partner ID	Transaction	Date	Document	Batch #
1	KRAFT	001339035	810	4/20/16	1923864184	17569

On the right side of the table, there are three buttons: 'Transaction', 'Interchange', and 'Cancel'.

Entrack EDI System Documentation

To Display the specific Transaction, click the Transaction button.

Outbound Transaction Data

TRAX JEWELS JEWELERS
Batch Number 00053 Interchange Number 00001

Outbound Queue Data

1	ST*210*0001?
2	B3**2088127*208812700*TP*L*040603*29595*BD*040527**TANR*040506?
3	C3*USD?
4	G62*86*040506****20?
5	H3*DFR?
6	N1*SH*SOUTHWEST GAS CORP?
7	N3*400 EAGLE STATION LANE?
8	N4*CARSON CITY*NV*89701**US*US?
9	N9*BT*5784?
10	N1*CN*HP FINANCIAL SERVICES?
11	N3**165 DASCUMB ROAD?
12	N4*ANDOVER*MA*01810**US*US?
13	N1*BT*HP C/O TRAX TECHNOLOGIES?
14	N3*PO BOX 14590?
15	N4*SCOTTSDALE*AZ*85267**US*US?
16	LX*1?
17	L5*1*COMPUTER/ASSET TRANSPORT?
18	L0*1*2942*DM*1*G***1234567*PCS**L?
19	L7*****CPCT*****2942?
20	L1*1*00*PI*29595?
21	LX*2?
22	L5*2*FUEL SURCHARGE?
23	L0*2*2942*DM*1*G***1234567*PCS**L?
24	L7*****FUEL*****2942?
25	L1*2*5*PC*1480?
26	LX*3?

Print Setup
Print
E-mail
Exit

To display the entire Interchange, click the Interchange button.

Display Outbound Data

Position to Record: Search: TRAX TECHNOLOGI JEWELS JEWELERS
Batch Number 00053 Interchange Number 00001

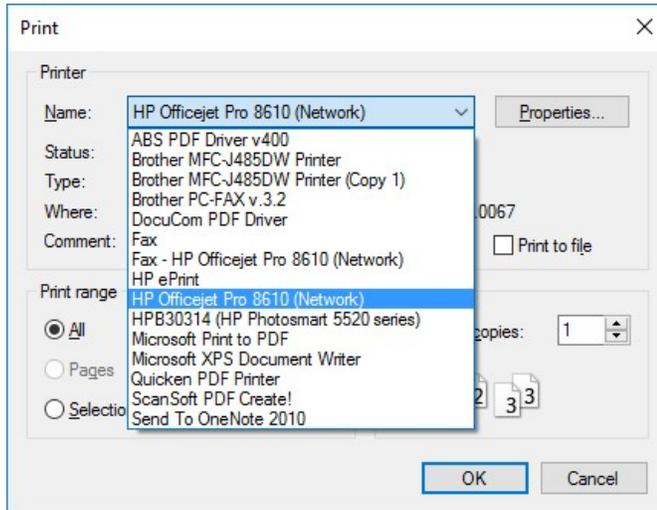
Outbound Queue Data

1	ISA*00* *00* *ZZ*TANR *ZZ*TRAX,HP *151016*110
2	3*U*00200*000000019*0*T*?>
3	G5*M*TANR*TRAX,HP*151016*1103*19*%*003040?
4	ST*210*0001?
5	B3**2088127*208812700*TP*L*040603*29595*BD*040527**TANR*040506?
6	C3*USD?
7	G62*86*040506****20?
8	H3*DFR?
9	N1*SH*SOUTHWEST GAS CORP?
10	N3*400 EAGLE STATION LANE?
11	N4*CARSON CITY*NV*89701**US*US?
12	N9*BT*5784?
13	N1*CN*HP FINANCIAL SERVICES?
14	N3**165 DASCUMB ROAD?
15	N4*ANDOVER*MA*01810**US*US?
16	N1*BT*HP C/O TRAX TECHNOLOGIES?
17	N3*PO BOX 14590?
18	N4*SCOTTSDALE*AZ*85267**US*US?
19	LX*1?
20	L5*1*COMPUTER/ASSET TRANSPORT?
21	L0*1*2942*DM*1*G***1234567*PCS**L?
22	L7*****CPCT*****2942?
23	L1*1*00*PI*29595?
24	LX*2?
25	L5*2*FUEL SURCHARGE?

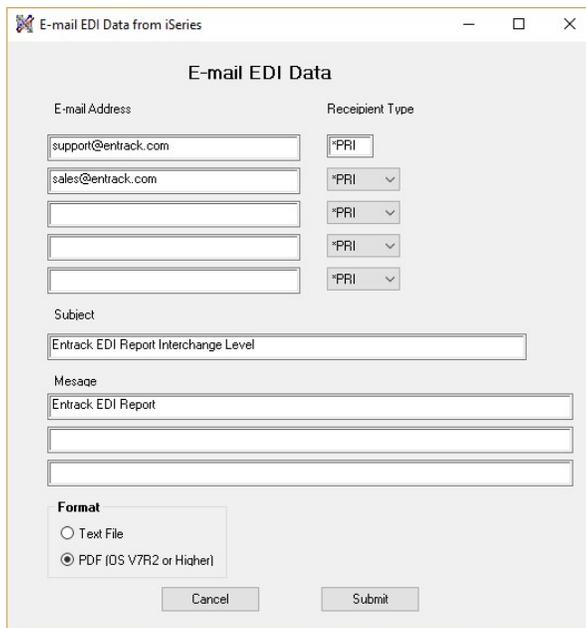
Print Setup
Print
E-mail
Exit

The EDI data is displayed unwrapped with each segment on a separate line. The data can be printed, or e-mailed providing SMTP is configured on the iSeries

Print. Print Data to desired Printer



E-mail. E-mail Data from iSeries. The data is sent in a text file up to five e-mail addresses. The Subject line and Message can be overridden. Note Maximum characters for Subject is 44.. Maximum characters for message is 256. The file can be e-mailed in a text file or PDF file. PDF files require V7R2 or higher of OS/400.



20 Troubleshooting EDI Transactions

20.1 Requirements for Inbound transactions.

- The Sender and Receiver ID's are set up in Trading Partner Maintenance.
- The Group Level for the transaction is set up in Trading Partner Maintenance with the correct ID's at group level.
- Correct Map Name must be specified in Trading Partner's Group Level.
- The Application must have a status of Active.
- Each File within the application is using the correct level.
- The length of each application file is not greater than 10,000.
- The Level of the segments defined in the mapping corresponds with the level in the application file.

20.2 Requirements for Outbound transactions.

- The Sender and Receiver ID's are set up in Trading Partner Maintenance.
- The Group Level for the transaction is set up in Trading Partner Maintenance with the correct ID's at group level.
- Map Name must be specified in Trading Partner's Group Level.
- The Application must have a status of Active.
- Each File within the application is using the correct level.
- The Sender/Receiver ID's are set up in the Application for both Interchange and Group level.
- The Key fields are defined in the files within the application. A Key field is needed to determine when to break on each level.
- The length of each application file is not greater than 10,000.
- The Level of the segments defined in the mapping corresponds with the level in the application file.

21 Sending Maps to Support

If a map is needed to be viewed or tested to ENTRACK support, the process can be automated and emailed. A save file is created on the iSeries400 with all of the necessary files. The save file can then be emailed directly from the iSeries or can be sent from Microsoft Outlook. In order to send directly, from the iSeries, SMTP needs to be already configured on the AS/400.

From the mail GUI menu, click help from the top tool bar, and then click E-mail Map to Support. The following screen will appear.

The screenshot shows a window titled "Select Map to send to Support" with the subtitle "Email ENTRACK Mapping Save File". The window contains the following fields and controls:

- Map Name:** A dropdown menu currently showing "JEWELS810". A list of options is visible below it, including "JEWELS810" and "JEWELS850".
- Batch#:** An empty text input field.
- E-mail Transfer:** A group box containing two radio buttons: "MS Outlook" and "iSeries400".
- FTP Settings:** A group box containing three text input fields labeled "AS/400 IP Address:", "User ID:", and "Password:".
- Buttons:** "Submit" and "Exit" buttons are located at the bottom of the dialog.

Select the map name of the map to be sent. For an inbound map, select the inbound batch # of the inbound data.

Select mail server by selecting either MS Outlook, or iSeries400.

If emailing via MS Outlook, enter the iSeries IP address and a valid User ID and password so the save file can be FTPd to the PC and sent through outlook.

ENTRACK will send the mapping files, the application files that the map uses, the user application file data, and the trading partner files.

22 User Programs

ENTRACK calls user programs that can help automate custom requirements. The following are the programs and function. All of these CL programs can be found in library RKUSR40.

- **EDVOFFC.** This program is called at the beginning of all communication jobs. It is used to vary off other line descriptions that use the same resource as the line that is being used for your communication job. Here, you would enter the vary off command "VOFF" for each line and controller description that uses this resource. This ensures all lines are varied off in case any were left on. This eliminates any conflict when trying to vary on your line or controller for your communication job.
- **EDVONC.** This program is called at the end of all communication jobs. The program is used if there are any line and controller descriptions that you want to be automatically varied on when your communication session is complete.
- **EDPPPONC.** This program is used at the beginning of your Internet communication session. Here is where you can start your Internet connection. Example: The STRTCPPTP can be used if you are connecting to the Internet using point-to-point protocol.
- **EDPPP OFC.** This program is used to end your Internet connection if you desire to be disconnected after your Internet communication session is complete. Example: ENDTCPPTP.
- **EDINTOC.** This program is used in the Process outbound transactions job stream. Programs can be inserted here to clear or update any of ENTRACK's outbound map files after Outbound processing is complete. The Source CL is located in library RKUSR40.
- **EDINTOC2.** This program is used in the Process outbound transactions job stream. Programs can be inserted here to write or update to any of ENTRACK's outbound map files before Outbound processing begins. The Source CL is located in library RKUSR40.

- **EDINTIC.** This program is used in the Process Inbound transactions job stream. Programs can be inserted here to write to application files from the user mapped files created during inbound processing. The EDINTIC program is also used to process any rejected transactions that need to be reprocessed. The Source CL is located in library RKUSR40.
- **EDUSRFTPC.** This program is used to update the Outbound FTP script when the script needs to be updated real time. This may be needed when file naming requirements require special names other than date/time stamp. The Source CL is located in library RKUSR40.
- **EDUSRFTPC.** This program is used to update the Inbound FTP script when the script needs to be updated real time. This may be needed when file naming requirements require special names other than date/time stamp. The Source CL is located in library RKUSR40.
- **EDOVRCOM.** This program is used to redirect outbound data to another USRFTP network queue. The program is called within the Process Outbound Transactions job stream. The Source CL is located in library RKUSR40.
- **EDUSRSSH.** This program is used for sFTP sessions for SSH encryption. THE Q2PSHELL program is called here. To log the sFTP session overrides of files STDOUT and STDERR should override to SFTPOUT and SFTPERR respectively. The Source CL is located in library RKUSR40.
- **EDUSRCOMAC.** This program is called after the 'Send Only' communication job is run. It can be used to update communication batch status in the network Outbound queue. The Source CL is located in library RKUSR40.

23 ENTRACK Files

<u>File Name</u>	<u>Description</u>
EDICOMP	Company Master
EDIPARI	Trading partner Master X12
EDPARIEX	Trading partner Master X12 Extension
EDIPARG	Trading Partner Group Level X12
EDPARGEX	Trading Partner Group Level Extension
EDPRFB	Trading partner Master EDIFACT
EDPRFG	Trading Partner Group Level EDIFACT
EDIINTPF	Trading Partner Internet Client level
INTRNLOG	Log file of FTP scripts
SFTPOUT	Log file of sFTP scripts
SFTPERR	Log file of sFTP scripts
EDAPHDR	Application header defining each user application
EDAPDET	Application files within an application.
EDAPFLD	Application fields within application files.
EDMAPFILE	Mapping Header file
EDMAPSEG	Segments within a map
EDMAPELE	Elements within an X12 map
EDMAPELEEX	Elements within an X12 map Extension
EDMAPELI	Elements within an EDIFACT map
EDMAPELIEX	Elements within an EDIFACT map Extension
EDMAPCOE	Components within an EDIFACT map
EDMAPCOM	Components within an X12 map
EDMAPCOEEX	Components within an EDIFACT map Extension
EDMAPCOMEX	Components within an X12 map Extension
EDMAPUSR	Last User update of map
EDCMIN	Inbound Communications by Network header
EDCMII	Inbound Communications by Interchange header
EDCMIIEX	Inbound Communications by Interchange header Ext
EDCMID	Inbound Communications Detail data
EDCMON	Outbound Communications by Network header
EDCMOI	Outbound Communications by Interchange header
EDCMOIEX	Outbound Communications by Interchange header Ext
EDCMONTM	Timestamp of when Outbound batch was sent by Network
EDCMOITM	Timestamp of when Outbound batch was sent by Interchg
EDCMOD	Outbound Communications Detail data
EDIRECV	Inbound communication file of raw data.
EDIHLDS	Saved raw data of outbound transactions
EDIHLDR	Saved raw data of Inbound transactions
EDIACKTW	Inbound Acknowledgement Transactions
EDPOACKH	Unacknowledged P.O.Header for 855

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EDPOACKD	Unacknowledged P.O. Detail for 855
EDIHSTTR	History Transactions
EDDTACOMI	Counter for batch number for inbound communications
EDDTACOMO	Counter for batch number for Outbound communications
EDGRPC	Monthly accumulation of EDI data used for graphs.
EDGRPP	Monthly EDI data used for graphs by Trading Partner.
EDGRPS	Monthly EDI data graphs by Trading Partner Summary.
EDGRPT	Monthly EDI data graphs by Transaction Type.
EDSCRIPT	Scripts and sessions for all communications
EDTABLE	Tables used for mapping.
EDTTRAN	Listing all X12 transactions.
EDTTRANE	Listing all EDIFACT transactions.
EDTELE	Listing all X12 elements within segments.
EDTELEE	Listing all EDIFACT elements within segments.
EDTSEG	Listing all X12 segments within transaction.
EDTSEGE	Listing all EDIFACT segments within transaction.
EDTCOME	Listing all EDIFACT components within transaction.
EDSCRFTP	Script and sessions for FTP Communications
EDSCRPRM	Script and sessions for FTP Communications
EDFTPHLG	FTP History Log Header
EDFTPLOG	FTP History Log Detail
EDIMAIL	List Email addresses of recipients for messages.
EDENCAS2	Communication Attribute details for ISeries.
EDENCRYP	Communication Attribute details for PC.
EDGLOB	Global parameters.
EDCMIT	Inbound Transaction Document.
EDCMOT	Outbound Transaction Document.

24 Limit ENTRACK Functions

ENTRACK is shipped so that all users with valid AS/400 USER IDs have full access to all the functions within the ENTRACK_400Systems GUI screens. In order to limit specific users who sign on to ENTRACK GUI, with certain functionalities, the AS/400 GRTOBJAUT command can be used. Listed below are the file names in library RKDTA40 that the authority should be used to **limit** the functions.

<u>Function</u>	<u>File</u>	<u>Authority.</u>
Company Maintenance	EDICOMP	*USE
Trading Partner Maintenance X12	EDPARIL1	*EXCLUDE
Trading Partner Maintenance EDIFACT	EDPRFBL1	*EXCLUDE
ENTRACK Application	EDAPHDR	*EXCLUDE
Mapping X12	EDMAPFILE	*EXCLUDE
Mapping EDIFACT	EDMAPFIED	*EXCLUDE
AS/400 and PC Communications	EDSCRIPT	*EXCLUDE
Process Transactions	CMPFILE	*EXCLUDE

25 Backing up ENTRACK

ENTRACK files and programs exist in 3 libraries on the AS/400. RKPGM40, RKDTA40, and RKUSR40. These libraries should be backed up on a regular basis.

RKPGM40 – Consists of all programs used for communications and the ENTRACK translator.

RKDTA40 – Consists of all EDI data from inbound and outbound transactions, Trading partner set ups, Application definitions, and Mapping.

RKUSR40 – Consists of all user programs and files.

On the PC side, the ENTRACK_400Systems.exe and the Entrackdta400 folder that was loaded during installation, and the ASNA installation CD are all that is needed.

26 ENTRACK GUI/400 Requirements.

ENTRACK GUI/400 requires OS/400 version V4R5 or higher with TCP/IP installed and configured. At least 80 meg of disk is required.

The following PTFs are required for OS/400 V5R3 and V5R4.

V5R3M0	MF41354	SI27297
V5R3M5	MF41734	SI27297
V5R4M0	MF40520	SI27765
V5R4M5	MF42655	SI27765

The client PC's require Windows 98 (2nd Edition), WIN/2000, WIN/2003, WIN/XP Professional, Vista Business operating systems, Win 7 Pro, or Win 8 Pro.

27 Datagate

27.1 Starting Datagate

Datagate is started using the STRDG8SVR command. The DG8_xx library needs to be in the library list.

27.2 Ending Datagate

Datagate is started using the ENDDG8SVR command. The DG8_xx library needs to be in the library list.

27.3 Removing Datagate

To remove Datagate from the iSeries400, remove as follows.

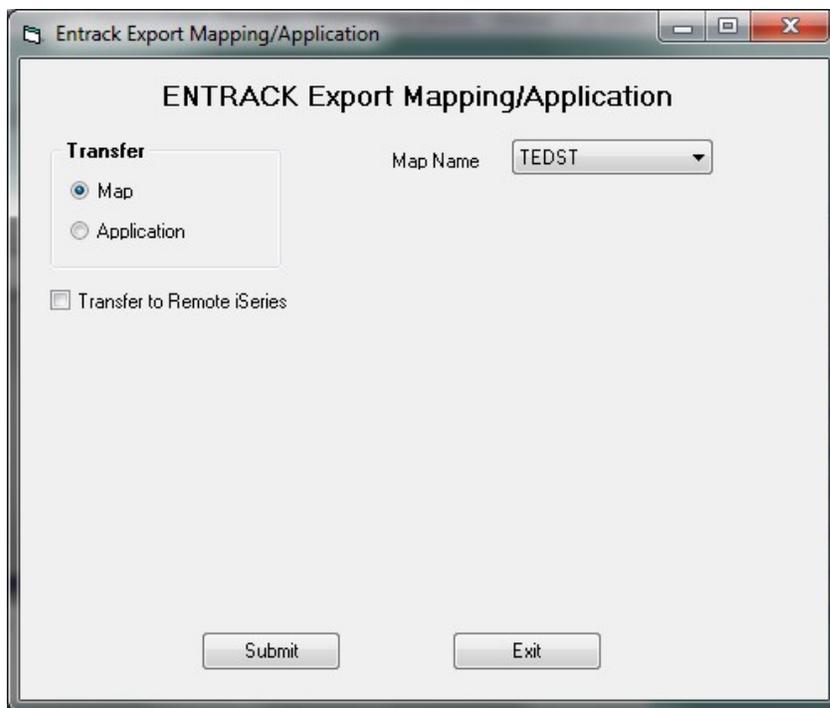
- Enter WRKJOBQ to see the name of the Job queues and subsystem that are using Datagate and any queue that starts with DG8.
- Remove the job queues entries using the RMVJOBQE command.
- Delete all the libraries that start with DG8_ . You can find the libraries by using the command
Wrkobj *all/dg8* *lb

28 Import/Export Maps and Applications

Entrack provides the ability to transfer Maps and Application from one iSeries400 to another. This can be used when moving a map or application from a test to production machine. This process is used for new Maps or applications. If the same Map name or Application name already exists on the target system, the Map or Application must be deleted first on the target system.

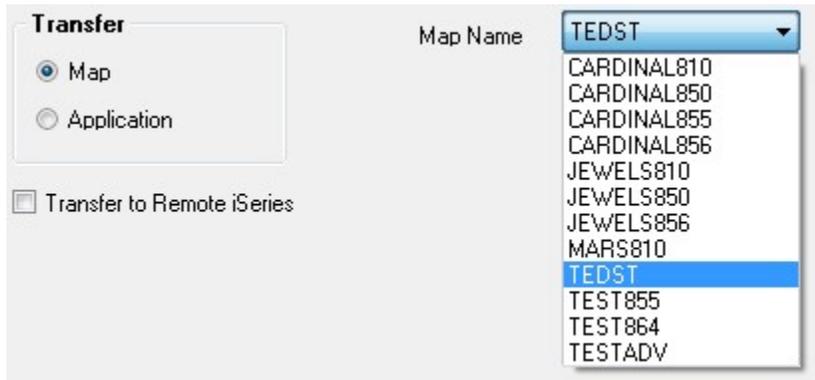
28.1 Export Maps/Application.

From the Tool bar on the Main ENTRACK GUI Screen, click Import/Export, then select Export.



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- Select the Transfer option to export a Map or Application. If Map is selected, a list of all the available maps will be listed to select.



The screenshot shows a 'Transfer' dialog box. On the left, there are two radio buttons: 'Map' (selected) and 'Application'. Below them is a checkbox labeled 'Transfer to Remote iSeries'. On the right, there is a label 'Map Name' followed by a dropdown menu. The dropdown menu is open, showing a list of map names: CARDINAL810, CARDINAL850, CARDINAL855, CARDINAL856, JEWELS810, JEWELS850, JEWELS856, MARS810, TEDST (highlighted), TEST855, TEST864, and TESTADV.

- If Application is selected, a list of all available applications will be listed to select.



The screenshot shows a 'Transfer' dialog box. On the left, there are two radio buttons: 'Map' and 'Application' (selected). Below them is a checkbox labeled 'Transfer to Remote iSeries'. On the right, there is a label 'App Name' followed by a dropdown menu. The dropdown menu is open, showing a list of application names: X856S (highlighted), X810R, X810S, X850R, X850RR, X855S, and X856S.

- If the destination iSeries is connected to the same network as the source iSeries, then select the 'Transfer to Remote iSeries' checkbox. (NOTE: If the checkbox is not checked, this process will populate save file RKUSR40/ESFILESM and the file will manually be uploaded to the destination iSeries.) When the check box is checked, a frame will appear to enter the IP address and login of the destination iSeries. Also select the target release of the destination iSeries OS/400. NOTE: Do not select more than two releases prior to the release of your current system or the job will fail. Make sure you know what release of OS/400 both systems are running. *PRV is the default. If the destination iSeries is at a higher release, select *CURRENT. (See Below). Select the Submit button to run the process.

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Transfer to Remote iSeries

Remote iSeries

iSeries IP Address:

User ID:

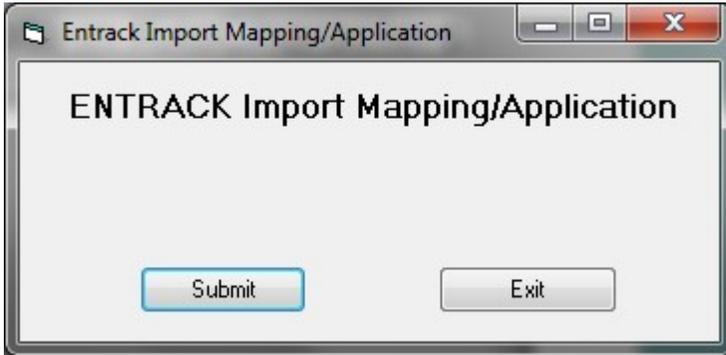
Password:

Target Release:

- *CURRENT
- *PRV
- V5R2M0
- V5R3M0
- V5R4M0
- V6R1M0
- V7R1M0

28.2 Import Maps/Application.

From the destination iSeries where the map or application is transferred to, from the Tool bar on the Main ENTRACK GUI Screen, click Import/Export, then select Import. The following screen will be displayed.



At this point, the Export function should have populated save file RKUSR40/ESFILES to this destination iSeries. You can verify by entering the following command.

```
DSPSAVF RKUSR40/ESFILES
```

If the file shows (No records in save file) then the Export from the original system was not successful. If successful it will display the files.

```
Display Saved Objects

Library saved . . . . . : QTEMP

Type Options, press Enter.
 5=Display

Opt  Object      Type      Attribute  Owner      Size (K)  Data
=    EDMAFILE  *FILE    PF         RON        60        YES
-    EDMAFILE  *FILE    PF         RON        60        YES
-    EDMAFILE  *FILE    PF         RON        96        YES
-    EDMAFILE  *FILE    PF         RON        64        YES
-    EDMAFILE  *FILE    PF         RON        60        YES
-    EDMAFILE  *FILE    PF         RON        60        YES
-    EDMAFILE  *FILE    PF         RON        64        YES
-    EDMAFILE  *FILE    PF         RON        64        YES
```

Click Submit to process. When the import completes successfully, the save file will be cleared and the map or application will now be on the destination system.

29 Glossary

29.1 Definitions

Application	Defines a file or group of files that are used to map a transaction.
Async	Asynchronous Communications. Protocol used for communications.
BSC	Binary Synchronous Communications . Protocol used for communications.
Comm	Network Communications.
Control Number	A sequence number used for identifying the documents transmitted. Purpose is to ensure there are no missing documents.
Delimiter	Used to separate elements and segments. Can be a non-displayable hex value.
Document	Pertaining to a type of transaction. Example: Purchase Order, Invoice.
EDI	Electronic Data Interchange.
Element	A component of a segment. Relational to a field within a record type.
Enveloping	The outer segments of an EDI document that identify the transaction, sender ID, Receiver ID, date, time, version, and control numbers.
GUI	Graphical User Interface.
GS Level	Group level used in X12 standards. The transaction within the ISA envelope. Identifies the type of transaction.
Inbound Transaction	EDI transactions that are received from the trading partner.
ISA Level	Interchange level used in X12 standards. The outside envelope of an EDI document. Identifies the sender and receiver.
Keywords	Keywords used in mapping. *DATE – Current Date *TIME – Time in HHMM format *TIME6 – Time in HHMMSS format.

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Mapping	A means of converting EDI data from and to a data base application.
Outbound Transaction	EDI transactions that are sent to the trading partner.
Scripting	Network communication login data.
Segment	A type of record used in a transaction. Relational to a record type within a file.
sftp	Uses the SSH protocol providing command line interface using FTP scripts.
SSH	Secure shell encryption using private-public key authentication.
SSL	Secure Socket Layer encryption using private-public certificates authentication.
Stream file	A stream of data that has one infinite record with no carriage return or line feed. This file needs to reside in the IFS.
Trading Partner	The company doing business. Usually the vendor/customer relation.
Transaction	Identified as a type of document. Every document is considered it's own transaction. Ex. If 10 Invoices are sent, then 10 transactions exist within the group.
UNB Level	Interchange level used in EDIFACT standards. The outside envelope of an EDI document. Identifies the sender and receiver.
UNG Level	Group level used in EDIFACT standards. The transaction within the UNB envelope. Identifies the type of transaction.
Wrapped Records	Wrapped records refers to wrapping the segments onto the next data record as opposed to having each segment on a separate record.