

EDI Flat File

Training Module

This module describes the procedures necessary to begin testing and implementing electronic transactions via EDI and Flat File formats.



Table of Contents

Important Information – Please Read	3
Introduction	4
EDI Data Transmission Mechanisms Available	4
Data Formats Available	5
Definitions	5
Electronic File Transfer Methods	6
Steps to Implementing EDI	7
TPA and TPA Worksheet Documents	8
Electronic Files Resource Documents for ASC X12 & Flat File Formats	10
Flat File Upload from the Informational Postings Page	10
Upload/Download Files in 1Line	11
Upload a File	11
Download a File	11
Flat File Tips	12
1Line Message Board	12

Important Information – Please Read

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To review the **tariff** language specific to any topic, go to <u>www.1Line.williams.com</u>>click on **Info Postings** under the Transco heading to access the Informational Postings Page, and then select **Tariff** from the left hand navigation menu.

Introduction

Electronic Data Interchange (EDI) is defined in the Trading Partner Agreement (TPA) as the computerto-computer exchange of information. A Trading Partner organizes functional data (Nominations, Scheduled quantity, etc), packages it in a standard file format(s) and then sends the data electronically, to the other Trading Partner to facilitate business transactions.

Customers doing business via Transco's gas management system, 1Line, utilizing EDI, can do so by using both the Accredited Standards Committee X12, ASC X12 (NAESB WGQ EDI/EDM), and the NAESB WGQ Flat File (NAESB WGQ FF/EDM) file formats.

EDI Data Transmission Mechanisms Available

- File Transfer Protocol (FTP) FTP is an internet protocol data standard used to send and receive data between two computers over the public internet. As a customer service, Transco offers FTP. However, NAESB does not endorse the use of FTP as a valid file transfer so there are no official NAESB standards governing its use. Transco has a unique version of the Trading Partner Worksheet (TPW) that covers specific technical specifications in order to setup an FTP exchange for requesting Trading Partners. Transferring files using FTP uses programs called the "client" and another called the "server." The FTP client program initiates a connection to a remote computer running FTP server software. After the connection is established, the client can choose to send and/or receive copies of files, singly or in groups. To connect to an FTP server, a client requires a username and password as set by the administrator of the FTP server. These two software packages are unique although many vendors package these together. Since the FTP protocol does not use a two-way handshake for confirmed delivery of the file (NAESB WGQ FF/EDM), the customer assumes all liability for mis-directed FTP transmissions.
- Internet Electronic Transport (Internet ET)/WGQ Quadrant Electronic Delivery Mechanism (WGQ QEDM) – The NAESB WGQ Internet ET and QEDM standards manuals, numbers 10 and 4 respectively, outline specific protocols to setup a computer to send and receive data over the public internet in an efficient and secure manner. The NAESB WGQ Trading Partner Worksheet (TPW) is a technical worksheet that contains technical details necessary to setting up the specific parameters for Internet ET/QEDM data transport between two Trading Partners. Several industry vendors support NAESB compliant Internet ET/QEDM transport systems. These systems can include integrated solutions that use software encryption for data security, ASC X12 data translation software and custom back-office interfaces to integrate with a Trading Partner's specific business software systems. Transco and many other Transportation Service Providers (TSP) has written custom Internet ET/QEDM solutions using the NAESB Internet ET and QEDM standards.

Trading Partner Agreement (TPA) – The TPA is a legal contract that specifies what functions Trading Partners should perform in the process of exchanging data using EDI.

• Interactive Flat File Transfer - The NAESB WGQ Interactive Flat File transfer is done using a NAESB approved browser while logged into a TSP's Customer Activities website. The Customer Activities website is protected by Secure Socket Layer encryption and allows a user to send and receive files directly from the TSP's website.

Data Formats Available

The two different NAESB compliant formats that may be used to exchange data with Transco's 1Line system are:

- Flat File data format (FF/EDM) FF/EDM is a spreadsheet-compatible, comma separated values (CSV) file format whose content is specified by NAESB standards. The FF format can be read and written directly by many back-office systems, and can be used in an ad-hoc environment with any spread sheet type program. A TPA is required for flat file transmittal via Internet ET/QEDM & FTP. A TPA is not necessary for interactive flat files (using an NAESB approved internet browser to upload and download files from a TSP's Customer Activities website.)
- ASC X12 data format (EDI/EDM) EDI/EDM is a data file that is created using an industry standard ASC X12 translator (software) that organizes data in a specific pattern as defined by the ASC X12 organization and further customized by NAESB by business function (Nominations, Scheduled Quantity, etc.) The detailed mapping of the ASC X12 data structure can be found in the NAESB WGQ Booklet 2 of 2. Each data dictionary that uses the ASC X12 mapping will contain a column titled "EDI / FF Usage". Following these data dictionaries will be a detailed explanation of how each of the data dictionary data elements are "mapped" to complimentary ASC X12 data structures. Using the EDI/EDM data format does require a TPA and the use of the Internet ET/QEDM transport.

Definitions

Pretty Good Privacy (PGP) Encryption – PGP version 2.6.2 or higher, and its open source 'free' equivalent called OpenPGP, is used to create Public and Private Keys for data privacy/encryption and digital signatures. See <u>http://www.uk.pgp.net/pgp-faq/</u>

Trading Partner Agreement (TPA) - The TPA is a legal contract that specifies what functions Trading Partners should perform in the process of exchanging data using EDI.

Trading Partner Worksheet (TPA worksheet) - The TPA worksheet outlines basic technical information (URL addresses, security specs, data sets requested, etc) between Trading Partners. Both the TPA and TPW constitute the entire understanding between trading partners regarding EDI. The specifications in the TPW should be tested before reliance on the production implementation for business transactions.

Electronic File Transfer Methods

The following diagram illustrates Electronic File Transfer methods available for EDI and Flat File exchange with 1Line.



Steps to Implementing EDI

The following are the steps necessary to implement EDI.

- 1. Contact your Commercial Services Representative to set up meetings to begin the process for testing between companies including IT departments.
- 2. Prior to setup and testing, each party must execute a TPA agreement and TPA worksheet for all EDI/EDM data transmissions and those FF/EDM transmissions using Internet ET/QEDM, prior to setup and testing.
- 3. Once the TPA agreement and TPA worksheet have been signed and executed, testing between companies will follow to ensure that information is electronically exchanged in a satisfactory manner.
- 4. Communication testing and data comparison are done between Trading Partners. Below is an example of the confirmation process.
 - Scheduled volumes are sent to a customer.
 - The confirmed volumes received from the customer are applied to the Confirmed Quantity field on the Confirmation page.
 - The Confirmed Quantity field reflects the confirmed volumes that were received via a Confirmation Response or RRFC file with one exception.
 - The exception is if the confirmed volume is below Elapsed-Prorated-Scheduled-Quantity (EPSQ), then the confirmed volume is then raised to EPSQ before being applied.
- 5. Once both Trading Partners agree that testing is successful and an implementation date has been determined, EDI may begin in the production environment.

TPA and TPA Worksheet Documents

All EDI users must have executed a TPA agreement (EDM or FTP) and TPA worksheet prior to setup and testing.

Within the 1Line system, interactive file transfers (uploads/downloads) do not require an executed TPA and TPA worksheet. To download a TPA agreement and TPA worksheet:

Go to Transco's Info Postings page.

Select **Resources > Agreements/Forms > TPA Agreement** (EDM or FTP) depending on file transfer preference and **>TPA Worksheet**



After downloading the TPA and TPA worksheet documents, the following steps are required for an executed agreement between Trading Partners.

- Complete the TPA and TPA worksheet documents and send it to your Transportation Services Rep.
- Negotiation between Trading Partners occurs and the TPA and TPA worksheet documents are updated to reflect the agreed upon terms and conditions and technical details.
- An authorized executive from both companies must sign the TPA document. The TPA worksheet document can be signed by an executive and/or an employee/manager that is responsible for the technical aspects set forth in the TPA worksheet.

Electronic Files Resource Documents for ASC X12 & Flat File Formats

Transco's 1Line supported NAESB WGQ data sets and the associated file formats can be requested from your Transportation Services Representative.

Flat File Upload from the Informational Postings Page

Flat files can be uploaded from Transco's Informational Postings page at:

1Line > Flat File Upload



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Terms of Use			
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Upload/Download Files in 1Line

Data files can be both downloaded and then uploaded in some 1Line areas, including Nominations, Confirmations and PDAs. Downloading allows you to save data for your own records, and to input new data into existing spreadsheet templates for upload to 1Line. It is strongly recommended that you periodically download files from 1Line to ensure that you are working with the latest data and data elements (valid column headings).

Below are some of the areas in Transco's 1Line system that can be used to access Flat File Upload/Download:

Upload a File

From the Retrieve Nominations page:

Navigation > Nominations > Nomination > Retrieve Nominations
Actions > Upload NMST

From the Banner Menu on the 1Line Customer Activities Home page:

Tools > Upload

Download a File

From the **Customer Activities Home** page, several data files can be created from their related pages.

Select **Navigation > Downloads >** and one of the following:

Nomination (NMST) Scheduled Quantity (SQTS) Scheduled Quantity for Operator (SQOP) Confirmation Response (RRFC) Request for Confirmation (RQCF)

From the **Retrieve Nominations** page:

Navigation > Nominations > Nomination > Retrieve Nominations
Actions > Download NMST

Flat File Tips

- After uploading flat files to 1Line, a "quick response" message is provided on the 1Line Message Board.
 - To find the "quick response" message, specify the applicable file extension (i.e. .PDAL for PDA files, .NMST for nominations, etc.) in the **Description** Filter and select Retrieve.
 - Information will be displayed indicating whether or not your files were uploaded successfully, and if any contained errors.
- Format every field as "text" to protect leading zeros (especially important for DUNS numbers).
- Use all column headings in your file structure, whether or not a value exists for that data element.
- To ensure that your files are processed in a timely manner, it is recommended that you not wait until the last minute to upload large files. If you are waiting on some last minute information for a limited number of transactions, upload all completed information and then upload any last-minute data.

1Line Message Board

Messages generated from within the 1Line system can be found on the 1Line Customer Activities Home page banner menu under the "Tools" tab.

SP/Prep/Hame/ID: Transco - 007	933021						
Home			A-17				Messages
							Refe Calculator
							Contact Cross Reference ICTS Validation Tool
Cycle	104	TIMELY	10.2	EVENING	10.3	POST	Pipeline Conditions Preferences
Indicators	101	1 miles I	1072	LYLANG	105	RUS POLIT	Partice Data Mit (2002 07.46
Gas Dav	11/1	11/2	11/1	11/2	11/1	10/31	Posing Late: Tro Tro 22 of 740 Park, Losn, ISS and Paylack - availability hera
Nomination Cycle	OPEN	OPEN	CLOSED	CLOSED	CLO SED	OPEN	Park/Loan/ISS: For more information regarding availability, any shipper interested in receiving daily park and loar About
Confirmation Cycle	CLOSED	CLOSED	CLOSED	CLOSED	CLOSED	CLO SED	to scheduling, please call:suzle 713.215.4926 , Laurie 713.215.4356, Kristy 713.215.3625 or Chris 713.215.2565
Monthly Status Allocations Data is available Allocations for September as Imbalance data is available til Imbalance data for September Prior Gas Day Changes for A Preliminary November Dema Preliminary October and Nov Monthly Commodly Invoices for Monthly Commodly Invoices for	hrough 10/30/2022 e Final rough 10/30/2022 er is Final CT,2022 available throu IAR,2022 - SEP,2022 nc d Invoices are now ava ember Commodity Invoi October are Final	gh 11/02/2022 t alfoved at this time tailobe ces are now available					Excess WSS Injection - Not Available beginning 11/12/2019 Excess BSS Injection - Not Available beginning 11/12/2019 Excess BSS Withdrawal - Not Available beginning 11/16/2020 WSS/CSS/CSACA For more information, please call vow commercial Services representative Pool tolerance - 1% beginning with the intraday 2 nomination cycle for 07/17/2014 Transco forces balances the pool during the 10 2 cycle appellance et 09.75% Hydrocarbon Content for Pentane and Heavier Components (CS+): not to exceed 0.23 mol% or processed prior to mainline delivery For OFO information - Watch Critical Notices
October trading is Open unti November trading Opens o	11:59 PM on Friday 11 n Thursday 12/01	/25					

The following filters are provided:

- **Post Date Range** defaults to 30 days back to current day. The required date range filter will pull all messages posted within the given range, including the expired messages.
- **Read Indicator** status all, yes or no.
 - The "All" status will display all read and un-read messages.
 - The "Yes" status will display all messages that have been read.
 - The "No" status will display all un-read messages.
- **Description** returns all messages where the entered text is anywhere in the message description; i.e. bid number, BAID number, user ID, etc.
- Type of Message a list of message types including: ALL, BA Credit, Capacity Release, Confirmations, Invoicing, Measurement information, Nominations, PDA Upload, Retro Requests, Storage, Trades, and Intraday Bump Critical Notices will display information indicating whether or not your files were uploaded successfully, and if any contained errors.

To access your messages:

For example: To access your messages for nominations:

1. Login to 1Line

- 2. Select: Tools>Messages
- 3. Enter >Post Date Range (default is 30 days)
- 4. Select >Read Indicator (Defaults to ALL)
- 5. Select >Type of Message: (i.e. Nominations)
- 6. Select> Retrieve
 - A list of messages for nominations will be retrieved based on your filters.
- 7. Highlight Message
 - A message will display a popup window with message detail.
 - Close to exit back to message board page.

Please contact your Commercial Services Representative with any EDI questions.