North American Energy Standards Board
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Home Page: www.naesb.org

via email and posting

TO: NAESB Members and Interested Industry Participants
FROM: Rae McQuade, Executive Director
RE: Wholesale Gas Quadrant Request For Comments
DATE: March 18, 2002

An industry comment period begins today and ends on April 15 for the recommendations attached. The Executive Committee will meet in Washington D.C. to review these recommendations and consider them for vote as NAESB Wholesale Gas Quadrant (WGQ) standards or revisions to NAESB WGQ standards. The recommendations can be accessed from the NAESB Web site, but are also attached to this request for comment[1]. All comments received by the NAESB office by end of business on April 15 will be posted on the Home Page and forwarded to the EC members for their consideration. If you have difficulty retrieving this document, please call the NAESB office at (713) 356-0060.

Best Regards,

Rae McQuade

cc: Jay Costan

1 All recommendations other than clarifications/interpretations can be found on the "Request For Standards" page (http://www.naesb.org/req.htm), which is accessible from the NAESB main page. Similarly, Clarifications/Interpretations (Cxxxxx) can be found on the "Clarification Requests" page (http://www.naesb.org/clar.htm).

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: NAESB EDM Subcommittee **Request No.: XXXX**

1. Recommended Action:

_X_ Accept as requested
__ Accept as modified below
__ Decline

Effect of EC Vote to Accept Recommended Action:

_X_ Change to Existing Practice
__ Status Quo

2. TYPE OF MAINTENANCE

Per Request:

__ Initiation
__ Modification
___ Interpretation
___ Withdrawal

__ Principle (x.1.z)
___ Definition (x.2.z)
__ Business Practice Standard (x.3.z)
___ Document (x.4.z)
___ Data Element (x.4.z)
___ Code Value (x.4.z)
___ X12 Implementation Guide
__ Business Process Documentation

Per Recommendation:

_X_ Initiation
__ Modification
___ Interpretation
___ Withdrawal

__ Principle (x.1.z)
___ Definition (x.2.z)
__ Business Practice Standard (x.3.z)
___ Document (x.4.z)
___ Data Element (x.4.z)
___ Code Value (x.4.z)
___ X12 Implementation Guide
_X_ Business Process Documentation

3. RECOMMENDATION

SUMMARY: Make various changes to the NAESB EDM Manual to update the "Minimum Technical Characteristics" for NAESB Web Sites.

STANDARDS LANGUAGE:

Please see attached document for redline changes to the EDM Manual.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: NAESB EDM Subcommittee **Request No.: XXXX**

b. Description of Recommendation:

The NAESB Future Technology Task Force (FTTF) (and in it's place, the NAESB Electronic Delivery Mechanism (EDM) Subcommittee) is charged in Std 4.3.59 with an annual review of the specifications contained in the Appendices of the NAESB EDM Manual pertaining NAESB Informational Postings and Customer Activities Web Sites. The specifications cover various aspects of the configuration of both "user" systems and web site servers. This recommendation is the result of a review done by the FTTF in April 2001 and a subsequent review by the EDM Subcommittee in March 2002.

c. Business Purpose:

To provide approximate parity between NAESB's technical standards and developments in web site technology.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

See the minutes of the EDM Subcommittee dated 3/11/02 and 3/13/02 and the work papers and minutes for the 4/24/01 FTTF meeting.

[EDM MANUAL TAB 10 - APPENDICIES]

APPENDIX A - Reference Guide

CGI

An excellent source on CGI is a book entitled “Special Edition Using CGI” by Jeffrey Dwight and Michael Erwin.

Firewall Security

An excellent source which covers this topic in detail is a book entitled "Firewalls and Internet Security: Repelling the Wily Hacker" by William Cheswick and Steven Bellovin.

GISB

GISB Web Site: (http://www.gisb.org) Primary reference for natural gas industry standards

General GISB FTTF Reference Page: (http://www.gisb.org/fttf.htm). This location provides pointers to samples and further documentation.

HTTP

The GISB EDM architecture is based on HTTP 1.1, and all implementations should be compatible with this version.

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W3C WorldWide Web Consortium. All aspects of HTTP, HTML, and other Web-related topics are documented at:
http://www.w3.org/pub/WWW/

General information regarding HTTP with basic terminology included are documented at:
http://www.w3.org/pub/WWW/Protocols/HTTP1.1/spec.html/

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Syntax information for multipart can be found in IETF RFC1341 section 7.2. (www.ietf.org)

HTML

Before April 24, 1998, the recommended standard from the WorldWide Web Consortium was HTML 3.2. The specification for this standard can be found at:
http://www.w3.org/pub/WWW/TR/REC-html32.html

Effective April 24, 1998, the WorldWide Web Consortium has made a recommendation for HTML 4.0. Information on HTML 4.0 may be found at http://www.w3.org/TR/REC-html40/.

http://www.ncsa.uiuc.edu/General/Internet/WWW/HTMLPrimer.html

http://www.interlink-2000.com/guide-to-publishing-html.html

Special Edition Using HTML, Second Edition, Mark Brown, John Jung, and Tom Savola, Que

Corporation, 1996.

PGP Software

PGP is available for a variety of operating systems and platforms. For more information contact Network Associates (http://www.nai.com)

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Time Synchronization

Testing has shown that the clocks on all computer systems drift. It has also been surprising to see just how much they do. Time synchronization is required to assure that all trading partners transaction times are accurate. Time accuracy is dependent on how much a system's clock drifts, how frequently it is resynchronized and the accuracy of the source used for synchronization.

Authoritative time synchronization is now being provided by governmental agencies around the world based on a synchronized network of atomic clocks. In the United States this includes the U. S. Naval Observatory and the National Institute of Standards and Technology.

A easy way to obtain the current time is from the U. S. Naval Observatory's Web site at http://tycho.usno.navy.mil/cgi-bin/timer.pl. The output from this page can easily be edited and reformatted to set a local system's time. Commercial, shareware and public domain packages are also available to synchronize system times. Among them are NTP (which is an internet standard), internet daytime, nisttime / usnotime.

Further information on time synchronization may be found at the following Web sites:

http://www.eecis.udel.edu/~mills/ntp/test.html

http://tycho.usno.navy.mil/ntp.html

http://www.ccd.bnl.gov/xntp

http://www.txdirect.net/users/sfisher/clock.html

http://www.is.co.za/resources/ftpsite/tucows/softsync.html

APPENDIX B - Repudiation and Validation Examples

Repudiation and Validation examples:

When a transaction file is received using the EDM mechanism there are several questions that typically must be answered:

1.) Is the HTTP sender (from) valid to send to the HTTP 'to' party?
2.) Does the HTTP sender match the party who encrypted and signed the file?
3.) Does the HTTP sender match the sender within the file?
4.) Is that sender with the data valid to 'speak' for the parties transacting business?

Is the HTTP sender (from) valid to send to the HTTP 'to' party?

The first validation, determining that a party is a valid sender must be done during CGI execution. This is simply a 'look up' verification that the Common Code Identifier 'from' is recognized as a valid sender.

Does the HTTP sender match the party who encrypted and signed the file?

The next validation, determining that the HTTP sender is the same as the signer, requires that the following information be available:

1. The 'from' common code identifier (9 digit D-U-N-S® Number). This is the second field in the HTTP post message sent to the CGI. This information must be preserved from that earlier process and passed to the 'post-CGI' process.

2. The Pretty Good Privacy (PGP) User ID associated with that same party

To compare these items a 'table' would most likely be established that would allow the post-CGI process to identify that there is a correlation between these identifiers. The origin of the 'from' identifier is the HTTP POST 'from' field. The origin of the PGP user ID is the decryption process. The PGP User ID of the signer is a byproduct of file decryption on a signed file. If PGP is executed from the command line the output would be presented in a format like:

Good signature from user "ENRON CORP".
Signature made 1997/05/13 19:30 GMT
Plaintext filename: test3

If PGP is executed using a program interface the User ID that signed the file will be provided in a buffer. Comparing this buffer to the expected User ID would serve to verify this value.

Does the HTTP sender match the sender within the file?

The data file itself indicates (in the case of X12 data) the sender and the intended recipient within the ISA segment. Although this may be the same (D-U-N-S® Number) as the 'from' data these fields are not standardized. This may require the use of a 'table' to relate these identifiers.

Consider also that, although it is strongly recommended that only a single ISA be contained within a

file, that the process should account for the possibility of several ISA segments. This comparison will ensure that the parties used during translation are in fact the parties that sent, encrypted and signed the data.

Is that sender with the data valid to 'speak' for the parties transacting business?

This last validation is listed here only to complete the chain of identity. The process that would evaluate this relationship would typically be the business application. Since we have checked the identity through each step of this process this is the point at which the identity of the sender would finally be verified as having a business relationship to conduct the business specified.

APPENDIX C - Minimum Technical Characteristics and Guidelines for the Developer and User of the Customer Activities Web Site[1]

Deleted: Minimum (11/15/1999) Technical Characteristics and Guidelines for the

Browser Characteristics (includes defined GISB current versions):

Features as supported by the latest generally available (GA) versions of both Netscape®[2] and Internet Explorer®[3] within 9 months of such GA version becoming available, including -

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- Frames & Nested Frames
- Tables & Nested Tables
- HTML
- Cookies
- JavaScript
- SSL 128-bit RSA Encryption
- Style Sheets

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Plug-ins (Generally Available (GA) versions within 9 months of such GA versions becoming available)

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- JAVA®
- ActiveX®[4] (Plug-in for Netscape®)
- Independent Computer Architecture (ICA®) - Protocol used for remote control access to an application

Operating Systems:

Operating systems on a client workstation should be multithreaded and preemptive.

Hardware:

CPU	>=500 MHz
Memory	>=256 MB Physical
Display Resolution	>=1024 x 768, 256 colors
Connection	>=56 KB (v.90)

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[1] Configuration shown indicates a minimum except where a specific level is established. 'Minimum' implies a level where a reasonable experience for the user may be achieved. These levels also indicate the level that a user may expect that a client has been tested. Results may be less than satisfactory, or may preclude use of a site, if the user chooses to use anything less than those levels shown.

[2] Netscape® is a registered trademark of Netscape Communications Corp.

[3] Internet® Explorer is a registered trademark of Microsoft Corporation.

[4] ActiveX® is a registered trademark of Microsoft Corporation.

Example Configuration[1]

Hardware:	CPU: P500 MHz or higher Memory: 256MB Physical Display Resolution: 1024 x 768, 16k colors Pointing Device with left and right click capability
Operating Systems:	Windows®[2] 98 Windows® NT 4.0 Windows® 2000
Connection:	56KB (v.90) modem ISDN Direct Connect (T1, Fractional T1, etc.) DSL Cable-Modem
Browser:	Netscape® Communicator/Navigator Microsoft® Internet Explorer
Plug-ins:	JAVA® ActiveX® (Plug-in for Netscape®) ICA®

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Memory - Users who want to have multiple applications or EBBs open simultaneously should consider more memory.

CPU Speed - Users should be aware that higher CPU speeds my result in better performance.

[1] Specific products should be reviewed prior to implementation for Year 2000 compliance. Examples provided represent a non-comprehensive set of configurations that a client may use. This example list in no way should be construed as an endorsement by GISB of any specific products. Other products meeting the minimum technical characteristics of the client workstation may be used.

[2] Windows® is a registered trademark of Microsoft Corporation.

APPENDIX D - Minimum and Suggested Technical Characteristics and Guidelines for the Developer and User of the Informational Postings Web Site

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User technical characteristics provide specifications to the developer on the user environment for which the application will be designed and tested. Likewise, they will serve as guidelines to the user when purchasing the appropriate hardware and software to enable him/her to use the application.

Informational Postings Web Site User Technical Characteristics

	Minimum	Suggested
Connection Device:	28.8 KB	Direct Connect
Operating System:	Multi-threaded & Preemptive	
RAM:	128 MB	>128 MB
Browser Capabilities:	Cookies & JavaScript Frames & Nested Frames Tables & Nested Tables HTML 3.2	
Display Resolution:	800x600, 256 colors	1024x768, 16k colors

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Definitions:

Minimum user technical characteristics -

The environment and components for which the Web site application is designed and tested. This should include:
- a client environment comprised only of characteristics listed above, and,
- support for all mandated functions in accessing Informational Postings.

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Suggested user technical characteristics -

Environment or components not required to perform all mandated functions in accessing Informational Postings, but could provide an enhanced user experience.

Examples of User Workstations Meeting Criteria of Informational Postings Web Site User Characteristics[1]

	Minimum	Suggested
Hardware:	Pentium®[2] 200MHz or equivalent	Pentium® 500MHz or greater
RAM:	128 MB	> 128 MB
Communication Device:	28.8	Direct Connect ISDN Satellite 56 KB modem DSL Cable-Modem
Monitor:	12" Laptop 15" Desktop	> 12" Laptop > 15" Desktop
Display Capabilities:	800 x 600 256 colors	1024x768 > 256 colors
Operating System:	Windows® 95 System 7®[3] Solaris®[4] 2.5	Windows® 98 Windows® NT 4.0 Solaris® 2.6 System 8® Windows® 2000 Windows® ME Linux
Browser:	Microsoft Internet Explorer® Netscape® Communicator	Microsoft Internet Explorer® Netscape® Communicator

Deleted: [4]

Deleted: [3]

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[1] Technical implementations above represent a non-comprehensive set of choices which an implementer may use. This list in no way should be construed as an endorsement by GISB of any specific products. Other products supporting technical implementation may be used.

[2] Pentium® is a registered trademark of Intel Corporation.

[3] System 7® and System 8® are registered trademarks of Apple Computers, Inc.

[4] Solaris® is a registered trademark of Sun Microsystems, Inc.

Informational Postings Web Site Developer Technical Characteristics

User's environment supporting the above minimum characteristics should be able to access all GISB standardized features of Informational Postings Web Sites.

Any other Web technologies may be considered for use by the developer as long as they can be used by the client without requiring special actions including firewall rule changes, use of a specific browser, logons and downloads of special helper applications such as plug-ins, viewers or readers.

APPENDIX E - MINIMUM TECHNICAL CHARACTERISTICS FOR AN EDM SERVER

Allowable TCP Ports (not UDP ports)

HTTP HTTPS 80, 443, 5713, 6112, 6304, 6874, 7403

Deleted: SSL 443

ICA® 1494
RMI(Java®) 1099-1100
Java® Telnet 31415
TCP Optional 8001-8020**
SMTP 25

Allowable UDP Ports (not TCP ports)

Secure ICA 1604

There are other technologies available that would require additional ports to be opened, such as FTP and Telnet. If and when GISB approves such technologies, FTTF will modify this list of allowable ports accordingly. The client-side firewall implementation and client browser settings should permit the downloading and installation of GISB approved plug-ins and modules. Please refer to the GISB defined Minimum Technical Characteristics for Accessing Customer Activities Web Sites for the listing of GISB approved plug-ins and modules.

**The reservation of 20 optional ports was to provide room for implementations such as DCE, IIOP, and load balancing implementations. TSPs should endeavour to minimize the usage of these ports.

[EDM MANUAL TAB2 - TABLE OF CONTENTS]

ICA® is a registered trademark of Citrix Systems Inc.

JAVA® is a registered trademark of Sun Microsystems, Inc.

INTRODUCTION

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TAB 9 TECHNICAL IMPLEMENTATION - INTERACTIVE FF/EDM

Provides an overview of the business process for Interactive FF/EDM.

TAB 10 Appendix

Appendix A - Reference Guide
Appendix B - Repudiation and Validation Examples
Appendix C - Minimum Technical Characteristics and Guidelines for the Developer and User of the Customer Activities Web Site
Appendix D - Minimum and Suggested Technical Characteristics and Guidelines for the Developer and User of the Informational Postings Web Site
Appendix E - Minimum Technical Characteristics for an EDM Server

[ADDITIONAL CHANGES TO EDM MANUAL]

These changes revise references to HTTP 1.0 to HTTP 1.1. Page numbers are the pdf page numbers of the EDM Manual, Version 1.5.

Page 103

Security

Authentication

Standard 4.3.84 calls for use of Basic Authentication. This is a standard part of the HTTP specification. Without use of encryption,…

These changes revise references to HTTP 1.0 (to HTTP 1.1) in the first line of the "gray box" examples on the noted pages.

Page 60

POST /cgi-bin/AS2dispatcher HTTP/1.1

And, just below the gray box, the following text should be changed:

The first line: *POST /cgi-bin/AS2dispatcher HTTP/1.1* indicating that the POST method is used and which program to call.

Page 65

POST /cgi-bin/AS2dispatcher HTTP/1.1

Page 68

POST /cgi-bin/AS2dispatcher HTTP/1.1

Page 79
POST /cgi-bin/AS2dispatcher HTTP/1.1

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01016**

1. Recommended Action:

_Accept as requested
_X_ Accept as modified below
__Decline

Effect of EC Vote to Accept Recommended Action:

_X Change to Existing Practice
_Status Quo

2. TYPE OF MAINTENANCE

Per Request:

_Initiation
_Modification
___Interpretation
___Withdrawal

_Principle (x.1.z)
___Definition (x.2.z)
_X Business Practice Standard (x.3.z)
___Document (x.4.z)
___Data Element (x.4.z)
___Code Value (x.4.z)
___X12 Implementation Guide
_X Business Process Documentation

Per Recommendation:

_Initiation
_Modification
___Interpretation
___Withdrawal

_Principle (x.1.z)
___Definition (x.2.z)
__X Business Practice Standard (x.3.z)
___Document (x.4.z)
___Data Element (x.4.z)
___Code Value (x.4.z)
___X12 Implementation Guide
__X Business Process Documentation

3. RECOMMENDATION

SUMMARY: Accept the modified request to supplement the use of PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440,on a mutually agreed basis (http://www.ietf.org/rfc/rfc2440.txt).

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01016**

STANDARDS LANGUAGE:

See attached documentation.

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Original request:

Please consider replacing the requirement to use proprietary PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440 (http://www.ietf.org/rfc/rfc2440.txt).

b. Description of Recommendation:

The EDM Subcommittee evaluated a modified request to supplement the use of PGP 2.6.2 compliant products, with the IETF developed open standard for PGP, called OpenPGP, as defined in RFC 2440,on a mutually agreed basis. After considerable discussion, the Request was approved. The vote was not unanimous, and the attendance at the Subcommittee meeting limited.

c. Business Purpose:

OpenPGP is a non-proprietary protocol for encrypting documents using public key cryptography. It is based on PGP as originally developed by Phil Zimmermann. The OpenPGP specification defines standard formats for encrypted messages, signatures, and certificates for exchanging public keys, using open industry standard, freely available software.

Beginning in 1997, the OpenPGP Working Group was formed in the Internet Engineering Task Force (IETF) to define this standard that had formerly been a proprietary product since 1991. Over the past decade, PGP, and later OpenPGP, has become the de-facto standard for cryptography.

By becoming an IETF standard (RFC 2440), OpenPGP may be implemented by any company without paying any licensing fees to anyone.

The OpenPGP Alliance brings companies together to pursue a common goal of promoting the same standard for document encryption and to apply the PKI that has emerged from the OpenPGP community.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.

CHANGES TO STANDARD 4.3.15

TRADING PARTNERS SHOULD IMPLEMENT ALL SECURITY FEATURES (SECURE AUTHENTICATION, INTEGRITY, PRIVACY, AND NON-REPUDIATION) USING A FILE-BASED APPROACH VIA A COMMERCIALLY AVAILABLE IMPLEMENTATION OF PGP 2.6 OR GREATER (OR COMPATIBLE WITH PGP 2.6) OR, ON A MUTUALLY AGREED BASIS, AN OPENPGP COMPATIBLE PRODUCT. TRADING PARTNERS SHOULD ALSO IMPLEMENT BASIC AUTHENTICATION. THESE TECHNOLOGIES SUPPORT ALL OF THE ABOVE SECURITY FEATURES WHILE PROVIDING INDEPENDENCE OF CHOICE OF WEB SERVERS AND BROWSERS. ENCRYPTION KEYS SHOULD BE SELF-CERTIFIED AND THE MEANS OF EXCHANGE SHOULD BE SPECIFIED IN THE TRADING PARTNER AGREEMENT. ENCRYPTION KEYS SHOULD HAVE A LIMITED LIFETIME WHOSE DURATION IS DETERMINED BY THE KEY'S OWNER. A KEY'S END OF LIFE IS EXPRESSED IN THE EXPIRATION DATE FIELD CONTAINED IN EACH PUBLIC KEY. A LIFETIME OF ONE YEAR OR LESS IS RECOMMENDED.

[CHANGES TO TAB 6 OF THE EDM MANUAL]

TECHNICAL IMPLEMENTATION - INTERNET EDI/EDM & BATCH FF/EDM

…

SECURITY

Security Concepts

The security requirements include the current four primary security aspects: data privacy, data

integrity, authentication, and non-repudiation.

- Data privacy: unauthorized parties cannot decipher the content of the data.
- Data integrity: unauthorized parties cannot modify or corrupt the data.
- Authentication: the receiver is certain of the identity of the sender.
- Non-repudiation: the sender cannot deny ownership of the transaction if it was sent with his/her digital signature.

In general, these needs are met by using the Basic Authentication capability of the Web server and the encryption and digital signature capability of the PGP and OpenPGP security application for securing transactions.

Understanding PGP or OpenPGP

Pretty Good Privacy (PGP) is the name of the chosen security application. OpenPGP is the Internet Engineering Task Force standard version of PGP which excludes all patented algorithms, allowing free commercial use of the standard. See the GISB home page for information on software packages to implement the PGP or OpenPGP security application. Both OpenPGP and PGP utilize a public key/private key pair to accomplish secure file transfers. The private key must be known only to the company which generated it. The public key counterpart is shared with trading partners.

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Each company must generate its public key and private key pair. The RSA key generation algorithm should be chosen for versions of PGP which offer alternatives. Implementers of OpenPGP should choose DSA and El Gamal when creating their key pair. The public keys will be distributed using a secure method (eg., courier mail) to the company's trading partners. You must use the utmost care in protecting your private key. If it is compromised, the security is broken. It is recommended that a key size of 1024 be chosen when generating the key pair. This provides a significantly secure transaction.

When a company wishes to send transactions to its trading partner, it will use the partner's public key to encrypt the file. Encryption provides data privacy. Only the private key counterpart can decrypt this file. Hence, the need to guard your private key.

When the sending party encrypts the file, it also uses its own private key to "sign" the transaction. The receiving party can use the sender's public key to verify the signature. The digital signature provides non-repudiation.

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Encryption / Digital Signature

Encryption and signatures are applied to files already translated to a GISB standard data format, and before the data is sent to the batch browser." (Use of internal encryption such as X12.58 encryption is outside the scope of GISB encryption standards but does not conflict with PGP.)

Encryption and signatures can be accomplished manually for each file using the on-line PGP or, on a mutually agreed basis, OpenPGP software, or in an automated (or "batch") fashion using programs to encrypt and sign. Whether encrypting in a manual or automated fashion, it is essential that the correct public key of the trading partner be used to encrypt and just as essential that the correct sender's own private key be used to digitally sign the file.

Digital signatures may also be applied, on a mutually agreeable basis, to the HTTP response by the receiver of the transaction.

Decryption / Signature Verification

After a transaction is received and processed by the CGI program, it is ready to be decrypted and have its signature verified. PGP and OpenPGP software will utilize the appropriate key pair when encrypting, signing, and decrypting if given the correct userID in the key ring identifying the trading partner. Upon request for signature verification, the PGP and OpenPGP software will return a human-readable company name.

It is recommended that all implementors create a process where the name is used to look up the ID of the company in a database table. If the ID is passed along with the decrypted file, a process could be created to verify that the company which sent the transaction corresponds to the company identified within the file, once the data has been translated.

When digital signatures are applied, on a mutually agreeable basis, the HTTP response received by the sender of the transaction may be verified to ensure non-repudiation of receipt of the transaction.

Throughput Considerations

Encryption, digital signing, decryption and signature verification are all very CPU intensive. It is not recommended that decryption or signature verification be performed within the CGI that receives and processes the file. In fact, it would not be a good idea to have these steps performed on the same computer that is attempting to receive transactions at a time close to a deadline. Therefore, it is recommended that the secured or to-be-secured transaction be passed to a separate computer for security processing. This "passing" would likely be accomplished by using the File Transfer Protocol (FTP). The security processing computer should be optimized for CPU and memory.

Implementers of Internet EDM sites should review and evaluate Domain Name Server (DNS) cache refresh intervals so as to ensure trading partner address changes are recognized on a timely basis. A refresh interval of 24 hours or less is common.

Because decryption and signature verification are not handled at the time the file is received, the sender will get an HTTP response of successful transfer but doesn't know if the file can be decrypted by the receiver. Guidelines for communicating the status of the decryption step have been developed. See Section "Sending Error Notification Transactions" and Table A, "Internet EDM Standard Error Codes and Messages".

Security Requirements

Basic Authentication

Basic authentication, also known as realm one security, has been defined as one of the security standards for transmission on the Internet. The userid and password will be assigned by the server party according to site standards. The trading party agreement must identify the userid and password for this security as well as procedures for changing the password, if applicable.

PGP or OpenPGP File Encryption

File encryption of the EDI file is also selected as a security standard for transmission on the Internet. The encryption software employed is required to be compatible with PGP 2.6 or greater (using keys generated with the RSA algorithm) or the OpenPGP standard, specified in IETF RFC 2440, on a mutually agreed basis. There are freely available software implementations the OpenPGP standard available at http://www.gnupg.org/.

General Security Recommendations

Firewall

A firewall is one or more computers running special software which is designed to provide control of communications between two networks. Its purpose is to limit the types of services between these two networks. Often, a company's connection to the Internet is intended to provide several other services to its employees who are connected by an internal network such as a Local Area Network or Wide Area Network (LAN or WAN). Examples of these services include access to the World Wide Web, use of e-mail, use of file transfer capabilities and publishing content intended for viewing by the external world on a Web server. In addition, the internal network will likely have connections to host computers which provide internal services such as file and print sharing, fax and database capabilities. So that availability of these services and confidential internal data are not compromised by unwelcome intruders from the Internet, there should exist a protective mechanism between the internal network and the public Internet, the firewall.

There are two general mechanisms employed by firewalls to provide this control: packet filtering and proxy services. Packet filtering examines important components of the messages such as the address of the sending and target computers and the designator (port number) for a specific application running on the target computer. By doing this, it can prevent access to specific computers or programs on those computers. It can also reject messages from certain computers. Proxy servers have various capabilities. They can act as relay agents that can examine attempted use of certain features within an application thus limiting access to these features. They can also hide (by substituting its own address) the internal addresses of clients communicating with external hosts. This hiding makes it difficult for potential attackers to focus on specific internal hosts.

Because firewalls are designed to deal with a broad set of security issues, which may vary at each organization, and are not specific to the use of HTTP, this guide does not attempt to provide specific implementation information. Deciding on a specific firewall architecture, organizational security policies, and choosing between numerous products may require outside resources to address these issues.

SENDING ERROR NOTIFICATION TRANSACTIONS

Error Notification

When a client sends a file to a server, the server responds to the receipt of the file. Though the file may be received correctly, some further processing must be done, such as decryption and X12 translation. The decryption step which will have a pass/fail status and then the X12 general translation step which will have a pass/fail status. The X12 general translation is merely the check that the file meets the X12 standards and has not been corrupted. Further translation and processing of specific transactions and elements is outside the Internet EDM scope.

When a file passes the decryption step and passes the general translation step, no notifying communication is sent back to the client. However, if either the decryption step or the general translation step fails, an error notification must be sent to the client.

In general, this standard format for error notification applies to the posting of an error message after sender's session has been disconnected. This error notification has the potential of occurring only after the original HTTP Response is returned with an "ok" or a warning (WEDM999 format) for the request-status value, not an error (EEDM999).

Additionally, trading partners are permitted to utilize digitally signed error notifications, if both parties

mutually agree to do so.

Error Notification Data Elements

The data elements for the error notification are the same as those described in Section "Sending Transactions", with the exception of the "input-format" and "input-data" elements. The file containing the data elements for error notification should not be encrypted.

Required Data Elements for Error Notification (listed in the required order)

Data Element Name	Description	
from	Common Code Identifier of sending/client company, the server company which detected the error	
to	Common Code Identifier of receiving/server company, the client company which sent the data set in error	
input-format	"error"	
input-data	A text block containing the following items:	
	orig-from	The "from" value from the original transmission
	orig-to	The "to" value from the original transmission.
	orig-input-format	The "input-format" value from the original transmission.
	resp-time-c	The "time-c" value from the original response.
	resp-server-id	The "server-id" value from the original response.
	resp-trans-id	The "trans-id" value from the original response.
	request-status	The new status of the transaction based on some process beyond CGI such as decryption; see Table A, "Internet EDM Standard Error Codes and Messages".
	comments	Any comments the original receiving server wishes to include.

Mutually Agreed Upon Data Elements for Error Notification

none defined at this time

Error Notification "input-data" Element Specifications:

The file containing the data elements for error notification should not be encrypted.

All data element names will be in lower case in the Error Notification.

Carriage returns and line feeds will be ignored in all files.

A field delimiter of "*" will be used in the Error Notification. Please refrain from displaying a "*" anywhere else in the error notification so as not to confuse programs that need to parse on this basis.

No spaces should surround the equal sign or the field delimiter.

The required data elements must appear first in the response.

Additional information can be included after the required elements at the server's discretion.

The first occurrence of the field name within the response will contain the value.

If an error notification is given, a GISB Error Notification contains two body parts nested within a multipart/report outer envelope. The first body part contains human readable content in HTML. The second body part contains machine readable content in HTML. Additionally, consenting trading partners can mutually agree to digitally sign error notifications. If digital signatures are used, the multipart/report containing the GISB Error Notification is used to create a digital signature body part, identified by a content-type of application/pgp-signature. Both the multipart/report GISB Error Notification and application/pgp-encrypted digital signature body parts are combined in a multipart/signed envelope.

Error Notification Example:

```
POST /cgi-bin/AS2dispatcher HTTP/1.1
Referer: http://www.get.a.life/upl.htm
Connection: Keep-Alive
User-Agent: brow v0.1 XYZ Corp.
Host: localhost
Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, */*
Content-type: multipart/form-data; boundary=----------------------------87453838942833
Content-Length: 1958
------------------------------87453838942833
Content-Disposition: form-data; name="from"

234567890
------------------------------87453838942833
Content-Disposition: form-data; name="to"

123456789
------------------------------87453838942833
Content-Disposition: form-data; name="version"

1.4
------------------------------87453838942833
Content-Disposition: form-data; name="receipt-disposition-to"

123456789
------------------------------87453838942833
Content-Disposition: form-data; name="receipt-report-type"

gisb-acknowledgement-receipt
------------------------------87453838942833
Content-Disposition: form-data; name="input-format"

error
------------------------------87453838942833
Content-Disposition: form-data; name="input-data"; filename="c:\temp\error.not"
Content-Type: multipart/report; report-type="gisb-error-notification"; boundary="GISB7868"

--GISB7868
Content-type: text/html

<HTML><HEAD><TITLE>Error Notification</TITLE></HEAD> <BODY><P>
orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
```

request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*
</P> </BODY></HTML>

--GISB7868
Content-Type: text/plain

orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*
--GISB7868--
----------87453838942833—

Signed Error Notification

Content-Type:multipart/signed; micalg=pgp-md5; protocol="application/pgp-signature";
boundary=8760

--8760

Content-Type: multipart/report; report-type="gisb-error-notification"; boundary="GISB7868"

--GISB7868
Content-type: text/html

<HTML><HEAD><TITLE>Error Notification</TITLE></HEAD> <BODY><P>
orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*

</P> </BODY></HTML>

--GISB7868
Content-Type: text/plain

orig-from=123456789*
orig-to=234567890*
orig-input-format=X12*
resp-time-c=19960619102855*
resp-server-id=coolhost*
resp-trans-id=234423897*
request-status=EEDM601: Public Key Invalid*
comments=Please contact 1-800-555-1212 for correct public key*

--GISB7868--
--8760

```
Content-Type: application/pgp-signature
-----BEGIN PGP MESSAGE-----

Version: 2.6.2

iQCVAwUBMJrRF2N9oWBghPDJAQE9UQQAtl7LuRVndBjrk4EqYBIb3h5QXIX/L
C//JV5bNvkZIGPIcEmI5iFd9boEgvpirHtlREEqLQRkYNoBActFBZmh9GC3C041
WGquMbrbxc+nIs1TIKlA08rVi9ig/2Yh7LFrK5Ein57U/W72vgSxLhe/zhdfolT9BrnH
OxEa44b+EI=
=ndaj

-----END PGP MESSAGE-----

--8760--.
```

Pre-validation before Decryption

Proper trapping of the range of decryption process errors listed in Table A (Internet EDM Standard Error Messages and Codes) may require program code which is external to the decryption algorithm. Some versions of the PGP software do not explicitly discriminate between EEDM601, EEDM602, EEDM603, and EEDM699 type errors. Under such a circumstance, files inbound to the decryption process should be preprocessed to trap the errors not identified by the PGP version being used. For example, searching the file for the text strings "BEGIN PGP MESSAGE" and "END PGP MESSAGE" can quickly identify "EEDM602 File not encrypted" and "EEDM603 Encrypted file truncated" type errors when the implemented PGP version only identifies decryption success, invalid public key (EEDM601), and decryption failure (EEDM699).

Deleted: i

CHECKLIST OF TESTING STEPS

Purpose

Preliminary steps in testing are helpful before the full batch browser and server applications are completed. This checklist is intended to provide a series of small achievements leading up to the complete solution.

Client/Browser

NOTE: Throughout all transfer tests, compare files stored on the server against the source file to ensure that the file transferred intact. While transferring to another company's server, you may have to contact that company to send the file back to you so that you can perform the compare.

1. Install an interactive browser. Identify an existing Web server from among GISB compliant servers offering interactive upload for test. See the GISB home page for a list of organizations willing to act as testing partners. These organizations should have a URL complete with the CGI program name to which a tester may send test files. File content does not need to be X12 or other GISB standard format to accomplish this step in testing.
2. Develop or acquire a batch browser that uses multipart for the encoding methodology. Transfer the same test file as in step 1 to the URL not requiring Realm One security.
3. Add Realm One security to your file transfer, and change the URL to the secure URL. Continue transfer tests with your batch browser.
4. Acquire and install PGP or OpenPGP compliant software. Generate your public and private key pair. Make sure to choose the RSA key generation algorithm for PGP or DSA and El Gamal

for OpenPGP. Download the test server's test public key. Encrypt your data file using this key. Modify your file transfer to send the encrypted file. Continue transfer tests. Request that the test server contact decrypt your file.

HTTP Server and CGI

1. Install Web server. Establish an Internet connection to your server. Ensure that you have ample storage space for transferred files. Ensure that permissions are granted to the directories.
2. As an optional preliminary step, acquire or develop an HTML page for interactive file upload (sample code is earlier in this document). Test interactive file upload to your own server using an interactive browser.
3. Acquire or develop a CGI program to receive file transfers and process according to GISB standards. Test transfers to your CGI using your batch browser.
4. Transfer a X12 or other GISB standard format dataset to your server and process it through your translator or other appropriate processes.
5. Copy the CGI to a "secure" directory where Realm One security, or basic authentication, is enabled. Using your batch browser, transfer to both URLs, with and without authentication. Thoroughly test using the incorrect userid and password against the secure directory.
6. Generate a second public/private key pair. Use the second key to encrypt a file and transfer the file to your server. Decrypt the file.
7. Once your site security is established, contact a trading partner to test transfers against your server.
8. Test with various file sizes to ensure that your CGI can process small and large files.
9. Request that several other trading partners and/or several clients within your own company transfer concurrently to ensure that your server can withstand the load.
10. Test application with various simulated errors in both file transfers and in PGP or OpenPGP decryption.

FREQUENTLY ASKED QUESTIONS

As an end user, do I need a continuously connected internet Web server to participate in the Internet EDM in the gas industry, or can I just use a dial-up connection to my ISP and my favorite shrink-wrapped browser software?

An interactive browser connection is not enough to actively participate in the system. It is not necessary to have a private Web server, you can use a service, however the system requires that you have access to a permanent internet connection which is capable of both sending and receiving files (with CGI or BGI) without operator intervention.

If we use ANSI X12.58 encryption do we still need to use PGP or OpenPGP encryption?

The use of internal encryption such as X12.58 is outside the scope of the GISB encryption standards.

TABLE A - Internet EDM Standard Error Codes And Messages

These errors and warnings are strictly related to problems found in the recipient CGI or decryption levels of processing before translation. Errors and warnings generated by the client batch browser are assumed to be documented at the client site to distinguish them from problems occurring in the recipient CGI or decryption. Numbering schemes and descriptions should aid in this distinction.

Note: For HTTP error codes see the GISB home page for information sources.

EEDM### standard error format with ### representing a numeric value further processing will not take place

WEDM### standard warning format with ### representing a numeric value further processing will take place

The string for the error or warning should appear in the following format:

Validation Code:Description;supplemental message to be defined by the issuing site up to 80 characters

Internet EDM Standard Error Codes and Messages

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM100	Missing "from" Common Code Identifier code	From	required
EEDM101	Missing "to" Common Code Identifier	To	required
EEDM102	Missing input format	input-format	required
EEDM103	Miss ing data file	input-data	required
EEDM104	Missing transaction set	transaction-set	mutually agreed
EEDM105	Invalid "from" Common Code Identifier	From	required
EEDM106	Invalid "to" Common Code Identifier	To	required
EEDM107	Invalid input format	input-format	required
EEDM108	Invalid transaction set	transaction-set	mutually agreed
EEDM109	No parameters supplied	parameter string	required
EEDM110	Invalid "version"	Version	required
EEDM111	Missing "version"	Version	required
EEDM112	"receipt-security-selection" not mutually agreed	receipt-security-selection	mutually agreed
EEDM113	Invalid "receipt-security-selection"	receipt-security-selection	mutually agreed

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM114	Missing "receipt-disposition-to"	receipt-disposition-to	required
EEDM115	Invalid "receipt-disposition-to"	receipt-disposition-to	required
EEDM116	Missing "receipt-report-type"	receipt-report-type	required
EEDM117	Invalid "receipt-report-type"	receipt-report-type	required
EEDM118	Missing "receipt-security-selection"	receipt-security-selection	mutually agreed
EEDM601	Public key invalid	file itself	required - security
EEDM602	File not encrypted	file itself	required - security
EEDM603	Encrypted file truncated	file itself	required - security
EEDM604	Encrypted file not signed or signature not matched		
EEDM699	Decryption Error		required for general decryption errors not specifically identified by PGP or OpenPGP messages or exit codes
EEDM701	EDM party not associated with EDI party		required
EEDM702	Data Structure Error		required if the translator does not handle this exception
EEDM703	Data set exchange not established for Trading Partner		required if the translator does not handle this exception
EEDM999	System error		required for general system errors to indicate severe errors in processing at the receiving site
WEDM100	Transaction set sent not mutually agreed	transaction-set	mutually agreed
WEDM102	"receipt-security-selection" not mutually agreed	receipt-security-selection	mutually agreed
WEDM103	Missing "receipt-security-selection"	receipt-security-selection	mutually agreed

[CHANGES TO TAB 4 OF THE EDM MANUAL]

Page 7

Security

Though many decisions as to overall security measures are left to each trading partner and their environment, several security measures were established as standards to ensure a minimum level of confidence in conducting business over the Internet and to provide some uniformity in the implementation of security. Four primary security aspects were considered as vital in providing the level of protection of transactions needed for gas industry commerce: data privacy, data integrity, authentication, and non-repudiation. The FTTF found that these concerns are addressed by the use of encryption and digital signature capability of the Pretty Good Privacy (PGP) security application. Any process used for encryption and decryption compatible with PGP 2.6 (using keys generated with the RSA algorithm) meets the minimum standard to be applied to files transmitted over the Internet. Additionally, the OpenPGP standard, defined by IETF RFC 2440, is a mutually agreed upon, supported alternative to PGP 2.6. Implementers of the PGP product should consider upgrading to PGP version 6.5 for compatibility with the OpenPGP standard and all previous versions of PGP. To prevent unwanted intruders from connecting to the Web sites, basic authentication is the required standard. Additional issues such as firewall security are discussed in the standards, but are considered implementation issues to be addressed by each organization.

Page 16 - Conforming change to Standard 4.3.15

Trading partners should implement all security features (secure authentication, integrity, privacy, and non-repudiation) using a file-based approach via a commercially available implementation of PGP 2.6 or greater (or compatible with PGP 2.6) or, on a mutually agreed basis, an OpenPGP compatible product. Trading partners should also implement basic authentication. These technologies support all of the above security features while providing independence of choice of Web servers and browsers. Encryption keys should be self-certified and the means of exchange should be specified in the trading partner agreement. Encryption keys should have a limited lifetime whose duration is determined by the key's owner. A key's end of life is expressed in the expiration date field contained in each public key. A lifetime of one year or less is recommended.

[CHANGES TO TAB 10 OF THE EDM MANUAL]

Page 2 (Appendix A)

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PGP Software

PGP is available for a variety of operating systems and platforms. For more information contact Network Associates (http://www.nai.com)

OpenPGP Software

The IETF OpenPGP standard is available at http://www.ietf.org/rfc/rfc2440.txt

Software implementations of the OpenPGP standard are freely available for commercial use from the Free Software Foundation at http://www.gnupg.org.

Time Synchronization

Testing has shown that the clocks on all computer systems drift. It has also been surprising to see

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Page 3 (Appendix B)

• • •

Does the HTTP sender match the party who encrypted and signed the file?

The next validation, determining that the HTTP sender is the same as the signer, requires that the following information be available:

The 'from' common code identifier (9 digit D-U-N-S® Number). This is the second field in the HTTP post message sent to the CGI. This information must be preserved from that earlier process and passed to the 'post-CGI' process.

The Pretty Good Privacy (PGP) or OpenPGP User ID associated with that same party

To compare these items a 'table' would most likely be established that would allow the post-CGI process to identify that there is a correlation between these identifiers. The origin of the 'from' identifier is the HTTP POST 'from' field. The origin of the PGP or OpenPGP user ID is the decryption process. The PGP or OpenPGP User ID of the signer is a byproduct of file decryption on a signed file. If PGP or OpenPGP software is executed from the command line the output would be presented in a format like:

Good signature from user "ENRON CORP".
Signature made 1997/05/13 19:30 GMT
Plaintext filename: test3

If PGP or OpenPGP software is executed using a program interface the User ID that signed the file will be provided in a buffer. Comparing this buffer to the expected User ID would serve to verify this value.

...

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01019**

1. Recommended Action:

_Accept as requested
_X_ Accept as modified below
__Decline

Effect of EC Vote to Accept Recommended Action:

_X Change to Existing Practice
_Status Quo

2. TYPE OF MAINTENANCE

Per Request:	**Per Recommendation:**
_Initiation	_Initiation
_Modification	_Modification
___Interpretation	___Interpretation
___Withdrawal	___Withdrawal
_Principle (x.1.z)	_Principle (x.1.z)
___Definition (x.2.z)	___Definition (x.2.z)
_Business Practice Standard (x.3.z)	_Business Practice Standard (x.3.z)
___Document (x.4.z)	___Document (x.4.z)
___Data Element (x.4.z)	___Data Element (x.4.z)
___Code Value (x.4.z)	___Code Value (x.4.z)
___X12 Implementation Guide	___X12 Implementation Guide
_X_ Business Process Documentation	__X Business Process Documentation

3. RECOMMENDATION

SUMMARY: Accept the request to add a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01019**

STANDARDS LANGUAGE:

Modify the EDM Manual (pdf page 50, Version 1.5) as follows:

Business Name	Definition	Format	Usage*	Condition
Refnum	Used by the party to assign a unique message identifier for tracing purposes	Maximum 40 character integer value	in Request; MA	May be used by sender to send tracking information to a recipient. Use of this data element is by mutually agreed. This data element is conceptually similar to a Message-ID filed within RFC 822.

Also included are a related error code and a related warning code. Corresponding changes to the EDM Manual (pdf page 83 Version 1.5) are:

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM119	Mutually agreed element, refnum, not present	Refnum	mutually agreed
WEDM104	Element refnum received, not mutually agreed; ignored	Refnum	mutually agreed

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Addition of a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01019**

b. Description of Recommendation:

The EDM Subcommittee evaluated the addition of a new header element, REFNUM, to the EDI/EDM specification. This header element provides trading partners the ability to uniquely identify outbound messages, enabling greater tracking and auditing ability. After considerable discussion, the Request was approved unanimously.

c. Business Purpose:

The REFNUM header element is defined by the IETF EDIINT AS2 specification as a header data element used to uniquely identify messages. Trading Partners associate a unique reference number with each outbound data exchange in order to track message status. The REFNUM element would be included as an HTTP request data element, along with "To", "From", etc.

The Energy Reliability Council of Texas (ERCOT) is currently processing10 million transactions per month. With this heavy workload it is imperative for ERCOT to maintain automated systems to track the status of a message from application through transport. The REFNUM element provides ERCOT the information necessary to aid logging and tracking of messages.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01020**

1. Recommended Action:

_Accept as requested
__Accept as modified below
_X_ Decline

Effect of EC Vote to Accept Recommended Action:

_Change to Existing Practice
_X Status Quo

2. TYPE OF MAINTENANCE

Per Request:	**Per Recommendation:**
_Initiation	_Initiation
_Modification	_Modification
___Interpretation	___Interpretation
___Withdrawal	___Withdrawal
_Principle (x.1.z)	_Principle (x.1.z)
___Definition (x.2.z)	___Definition (x.2.z)
_Business Practice Standard (x.3.z)	_Business Practice Standard (x.3.z)
___Document (x.4.z)	___Document (x.4.z)
___Data Element (x.4.z)	___Data Element (x.4.z)
___Code Value (x.4.z)	___Code Value (x.4.z)
___X12 Implementation Guide	___X12 Implementation Guide
_X_ Business Process Documentation	__Business Process Documentation

3. RECOMMENDATION

SUMMARY: Decline the request to add an identifier for "XML" to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01020**

STANDARDS LANGUAGE:

Modify the EDM Manual (pdf page 50, Version 1.5) as follows:

Business Name	Definition	Format	Usage*	Condition
input-data	Descriptor of the data format used for the file transmitted	X12; FF; XML; error	in Request; M	"X12", "FF", or other GISB standard format indicator used in file transmittal; "error" used in posting back any decryption - related errors. Note: "XML" is not a GISB standard format. Trading Partners that exchange XML documents on a mutually agreeable basis should use "XML".

Also included is a related error code. Corresponding changes to the EDM Manual (pdf page 83 Version 1.5) are:

Validation Code	Description	Data Element	Required vs. Mutually Agreed
EEDM119	Invalid input-format value 'XML' not mutually agreed	input-format	mutually agreed

4. SUPPORTING DOCUMENTATION

a. Description of Request:

Addition of an identifier for "XML" to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

Requester: Systrends **Request No.: R01020**

b. Description of Recommendation:

THE EDM Subcommittee evaluated the addition of an identifier for "XML" to the list of possible identifiers within the input-format HTTP request data element of the EDI/EDM specification. After considerable discussion, the Request was denied. The vote was not unanimous.

c. Business Purpose:

The Energy Reliability Council of Texas (ERCOT) desires to replace an existing FTP process with GISB EDM. However, the current version of GISB EDM does not include formal support for XML within the input format HTTP request data element. The addition of "XML" as recognized, standard identifier within the input-format request data element will permit ERCOT to replace FTP with GISB EDM.

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

See minutes of the EDM Subcommittee for 2/28/02, 3/06/02, 3/11/02, and 3/13/02.

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

FERC Order 637 – Action Items VIII, IX & XIII

1. Recommended Action:

___Accept as requested
_X_Accept as modified below
___Decline

Effect of EC Vote to Accept Recommended Action:

_X_Change to Existing Practice
___Status Quo

2. TYPE OF MAINTENANCE

Per Request:	**Per Recommendation:**
___Initiation	___Initiation
___Modification	___Modification
___Interpretation	___Interpretation
___Withdrawal	___Withdrawal
___Principle (x.1.z)	___Principle (x.1.z)
___Definition (x.2.z)	___Definition (x.2.z)
___Business Practice Standard (x.3.z)	___Business Practice Standard (x.3.z)
___Document (x.4.z)	_X_Document (x.4.z)
___Data Element (x.4.z)	_X_Data Element (x.4.z)
___Code Value (x.4.z)	_X_Code Value (x.4.z)
___X12 Implementation Guide	_X_X12 Implementation Guide
___Business Process Documentation	_X_Business Process Documentation

3. RECOMMENDATION

SUMMARY:

- Modify name of data element 'Location/Quantity Type Description' in various Capacity Release Data Sets.
- Modify the definition of data element 'Location/Quantity Type Indicator Data' in various Capacity Release Data Sets.
- Modify the definition of data element 'Rate Schedule' in various Capacity Release Data Sets.
- Modify the definition of data elements 'Seasonal End Date' and 'Seasonal Start Date' in various Capacity Release Data Sets.
- Replace data element 'Bidder Affiliate Indicator' and its corresponding code values with 'Affiliate Indicator' and its corresponding code values in various Capacity Release Data Sets.
- Modify code value description for 'Surcharge Indicator' in various Capacity Release Data Sets.
- Revise code value description for 'Validation Code' in Offer Upload Upload Quick Response and Bid Upload Quick Response.
- Add code values for data element 'Data Sets Requested' in the Upload of Request for Download of Posted Datasets and the Response to Upload of Request for Download of Posted Datasets.
- Modify Technical Implementation of Business Process for the Upload of Request for Download of Posted Datasets.
- Modify Executive Summary section of the Capacity Release book
- Modify Business Process and Practices section of the Capacity Release book

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

FERC Order 637 – Action Items VIII, IX & XIII

DATA DICTIONARY (for new documents and addition, modification or deletion of data elements)

Document Name and No.: Transactional Reporting – Capacity Relelease (5.4.z)
see attached Transactional Reporting - Capacity Release

Document Name and No.: Transactional Reporting – Firm Transportation (5.4.z)
see attached Transactional Reporting – Firm Transportation

Document Name and No.: Transactional Reporting – Interruptible Transportation (5.4.z)
see attached Transactional Reporting – Interruptible Transportation

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)
Replacement Capacity (5.4.4)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)
Operationally Available and Unsubscribed Capacity (5.4.13)
Bid Upload (5.4.18)

Business Name (Abbreviation)	**Definition**	**EBB Usage**	**EDI/FF Usage**	**Condition**
Location/Quantity Type Indicator Data	*Indicates the location type for the referenced capacity/quantity.* A code indicating the offer location type for the referenced capacity.			
Location/Quantity Type *Indicator* Description (Loc/QTI Desc)		C	nu	For EBB, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.

Document Name and No.: Offer Download (5.4.1)
Award Download (5.4.3)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)

Business Name (Abbreviation)	Definition	Usage	Condition
Rate Schedule	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service ~~for the offer~~ is being provided.	M	

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)
Bid Upload (5.4.18)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Seasonal End Date (Seasnl End)	End date of the effective period of *the* sub-term or seasonal ~~releases~~ *period* within the ~~releases~~ *contract* term.	C	C	Mandatory when Seasonal Start Date is provided.
Seasonal Start Date (Seasnl St)	Start date of the effective period of *the* sub-term or seasonal ~~releases~~ *period* within the ~~releases~~ *contract* term.	SO	SO	

RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

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Document Name and No.: Offer Upload (5.4.7)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Bidder Affiliate Indicator ~~(Bidder Affil)~~	An indicator which tells whether the bidder is an affiliate of other parties to the offer.	BC	BC	Used only when the Prearranged Deal Indicator indicates prearranged and the transportation service provider requires the releasing shipper to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Affiliate Indicator (Affil)	*An indicator that specifies which parties to the transaction are affiliated.*	*BC*	*BC*	*Used only when the Prearranged Deal Indicator indicates prearranged and the transportation service provider requires the releasing shipper to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.*

Document Name and No.: Bid Upload (5.4.18)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
~~Bidder Affiliate Indicator (Bidder Affil)~~	~~An indicator which tells whether the bidder is an affiliate of other parties to the offer.~~	~~BC~~	~~BC~~	~~Used when the transportation service provider requires the bidder to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.~~

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Affiliate Indicator (Affil)	*An indicator that specifies which parties to the transaction are affiliated.*	*BC*	*BC*	*Used when the transportation service provider requires the bidder to indicate whether the bidder is an affiliate of the releasing shipper or the transportation service provider.*

Document Name and No.: Offer Upload Notification (5.4.9)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
~~Bidder Affiliate Indicator (Bidder Affil)~~	~~An indicator which tells whether the bidder is an affiliate of other parties to the offer.~~	~~C~~	~~C~~	~~Mandatory when present and processed in the original Offer Upload~~

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Affiliate Indicator (Affil)	*An indicator that specifies which parties to the transaction are affiliated.*	*C*	*C*	*Mandatory when present and processed in the original Offer Upload.*

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
~~Bidder Affiliate Indicator (Bidder Affil)~~	~~An indicator which tells whether the bidder is an affiliate of other parties to the offer.~~	~~SO~~	~~SO~~	

Business Name (Abbreviation)	Definition	EBB Usage	EDI/FF Usage	Condition
Affiliate Indicator (Affil)	*An indicator that specifies which parties to the transaction are affiliated.*	*SO*	*SO*	

CODE VALUES DICTIONARIES (for addition, modification or deletion of code values)

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)
Bid Upload (5.4.18)

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated include only rates; no surcharges applicable ~~to this release~~.	[no definition necessary]	5

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)
Offer Upload (5.4.7)
Offer Upload Notification (5.4.9)
Bid Upload (5.4.18)

Bidder Affiliate Indicator

~~Code Value Description~~	~~Code Value Definition~~	~~Code Value~~
~~Bidder is affiliated with the TSP~~	~~[no definition necessary]~~	~~TSP~~
~~Bidder is affiliated with the Releasing Shipper~~	~~[no definition necessary]~~	~~RS~~
Bidder is affiliated with the TSP and the Releasing Shipper	[no definition necessary]	Both
~~Bidder is affiliated with neither the TSP nor the Releasing Shipper~~	~~[no definition necessary]~~	~~None~~

~~Note: This code value table is to be used only in the EBB implementation.~~

Affiliate Indicator

Code Value Description	***Code Value Definition***	***Code Value***
Both	*Bidder is affiliated with the Transportation Service Provider and the releasing shipper.*	*BOTH*
None	*For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.*	*NONE*
RS	*Bidder is affiliated only with the releasing shipper.*	*RS*
TSP	*For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.*	*TSP*

Note: This code value table is to be used only in the EBB implementation.

Document Name and No.: Offer Upload Quick Response (5.4.8)

Validation Code (Heading)

Code Value	Code Value Description	Code Value Definition
E193	Missing ~~Bidder~~ Affiliate Indicator	[no definition necessary]
E194	Invalid ~~Bidder~~ Affiliate Indicator	[no definition necessary]
W629	Bidder Affiliate Indicator not processed	[no definition necessary]

Document Name and No.: Bid Upload Quick Response (5.4.19)

Validation Code (Heading)

Code Value	Code Value Description	Code Value Definition
EBDQR124	Missing ~~Bidder~~ Affiliate Indicator	[no definition necessary]
EBDQR125	Invalid ~~Bidder~~ Affiliate Indicator	[no definition necessary]
WBDQR103	Bidder Affiliate Indicator not processed	[no definition necessary]

Document Name and No.: Upload of Request for Download of Posted Datasets (Standard 5.4.14)
Response to Uploadof Request for Download of Posted Datasets (5.4.15)

Data Sets Requested

Code Value Description	Code Value Definition	Code Value
Transactional Reporting – Capacity Release	*[no definition necessary]*	*13*
Transactional Reporting – Firm Transportation	*[no definition necessary]*	*14*
Transactional Reporting – Interruptible Transportation	*[no definition necessary]*	*15*

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BUSINESS PROCESS DOCUMENTATION (for addition, modification or deletion of business process documentation language)

Document Name and No.: Upload of Request for Download of Posted Datasets (5.4.14)

TECHNICAL IMPLEMENTATION OF BUSINESS PROCESS

Modify the second paragraph of the Technical Implementation of Business Process for the Upload of Request for Download of Posted Datasets (Standard 5.4.14) as follows:

> In the Request, the data requester indicates what type(s) of report(s) are being requested by specifying the **data sets requested** field. This may include any or all of offers, bids, awards, operationally available, unsubscribed capacity, replacement capacity (where applicable), system wide notices, or withdrawals *, or transactional reports*.

Standards Book: Capacity Release

Executive Summary

Modify the Capacity Release Process / Datasets / EDI Transactions section of the Executive Summary as follows:

The Capacity Release Process / Datasets / EDI Transactions

Following are the capacity release datasets and EDI transactions:

Mandatory Download Datasets

1. Offer Download
2. Bid Download
3. Award Download
4. Withdrawal Download
5. Operationally Available and Unsubscribed Capacity
6. System-Wide Notices
7. Response to Upload of Request for Download of Posted Datasets
8. Replacement Capacity
9. *Transactional Reporting – Capacity Release*
10. *Transactional Reporting – Firm Transportation*
11. *Transactional Reporting – Interruptible Transportation*

Mandatory Additional Datasets

~~9.~~*12.* Upload of Request for Download of Posted Datasets
~~10.~~*13.* Offer Upload
~~11.~~*14.* Offer Upload Quick Response
~~12.~~*15.* Offer Upload Final Disposition

~~13.~~*16.* Bid Upload
~~14.~~*17.* Bid Upload Quick Response
~~15.~~*18.* Withdrawal Upload
~~16.~~*19.* Note/Special Instruction

Not Mandatory Additional Datasets

~~17.~~*20.* Offer Upload Notification

Business Conditional Additional Datasets

~~18.~~*21.* Offer Upload Bidder Confirmation
~~19.~~*22.* Offer Upload Bidder Confirmation Quick Response

Add descriptive paragraph for transactional reporting before the section titled "Business Use of Capacity Release Related Transactions" as follows"

Transactional Reporting
Transactional Reporting consists of reports from a transportation service provider detailing information for new or amended transportation service or capacity release transactions. These reports are requested through the use of the Upload of Request for Download of Posted Datasets and Response to Upload of Request for Download of Posted Datasets.

Standards Book: Capacity Release

Business Process and Practices

Modify the first paragraph as follows:

The capacity release datasets include reports from the transportation service provider to a data requester which describe capacity release activity on the transportation service provider's system*as well as transactional information for transportation service*. Capacity release reports consist of the *following datasets:*

- Offer Download
- Bid Download
- Award Download
- Operationally Available and Unsubscribed Capacity,
- replacement Capacity dataset, the Withdrawal Download dataset
- System-Wide Notices dataset
- *Transactional Reporting – Capacity Release dataset,*
- *Transactional Reporting – Firm Transportation dataset, and*
- *Transactional Reporting – Interruptible Transportation dataset.*

The data requester specifies what report type(s) as well as the date and time period for the reports by sending an Upload of Request for Download of Posted Datasets request to the transportation service provider. Data requesters may specify one or more types of reports in a request for the specified date period.

Deleted: dataset
Formatted: Bulletsand Numbering
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RECOMMENDATION TO GISB EXECUTIVE COMMITTEE

FERC Order 637 – Action Items VIII, IX & XIII

TECHNICAL CHANGE LOG (all instructions to accomplish the recommendation)

Document Name and No.: Offer Download (5.4.1)
Bid Download (5.4.2)
Award Download (5.4.3)
Offer Upload (5.4.7)
Offer Upload Quick Response (5.4.8)
Offer Upload Notification (5.4.9)
Upload of Request for Download of Posted Datasets (5.4.14)
Reponse to Upload of Request for Download of Posted Datasets (5.4.15)
Bid Upload (5.4.18)
Bid Upload Quick Respon se (5.4.19)

Description of Change:
Offer Download (5.4.1)
Data Element Xref to X12
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "SO Affiliate Indicator"
Header N1 Segment: Delete line "SO Bidder Affiliate Indicator" for N1 Transportation Service Provider
Header N1 Segment: Delete line "PER SO Bidder Affiliate Indicator" for N1 Releaser Company Code Add "PER" in the Segment column for the "SO Releaser Contact Name" row.
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark N105 data element as not used
Transaction Set Tables "REF Segments (Heading)" table: Insert new row at the bottom of the table as follows: Element Name column: "Affiliate Indicator"; Usage column: "SO"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."; REF03 column: "not used", [and on next invisible row] "not used", [and on next invisible row] "not used", [and on next invisible row] "not used"
"N1 Segments (Heading)" table: Delete the "N105 Usage" column, the "N105" column, and the "N105 Description" column.
"REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Bid Download (5.4.2)
Data Element Xref to X12

Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "SO Affiliate Indicator"
Header N1 Segment: Delete line "SO Bidder Affiliate Indicator" for N1 Transportation Service Provider
Header N1 Segment: Delete line "PER SO Bidder Affiliate Indicator" for N1 Releaser Company Code
Add "PER" in the Segment column for the "SO Releaser Contact Name" row.
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark N105 data element as not used
Transaction Set Tables
"REF Segments (Heading)" table: Insert new row at the bottom of the table as follows: Element Name column: "Affiliate Indicator"; Usage column: "SO"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."
"N1 Segments (Heading)" table: Delete the "N105 Usage" column, the "N105" column, and the "Description" column. "REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Award Download (5.4.3)
Data Element Xref to X12
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "SO Affiliate Indicator"
Header N1 Segment: Delete line "SO Bidder Affiliate Indicator" for N1 Transportation Service Provider Header N1 Segment: Delete line "SO Bidder Affiliate Indicator" for N1 Releaser Company Code
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark N105 data element as not used
Transaction Set Tables

"REF Segments (Heading)" table: Insert new row at the bottom of the table as follows: Element Name column: "Affiliate Indicator"; Usage column: "SO"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."; REF03 column: "not used", [and on next invisible row] "not used", [and on next invisible row] "not used", [and on next invisible row] "not used"
"N1 Segments (Heading)" table: Delete the "N105 Usage" column, the "N105" column, and the "Description" column.
"REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Offer Upload (5.4.7) **Data Element Xref to X12**
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "BC Affiliate Indicator"
Header N1 Segment: Delete line "C Bidder Affiliate Indicator" for N1 Transportation Service Provider
Header N1 Segment: Delete line "BC Bidder Affiliate Indicator" for N1 Releaser Company Code
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark code value "23 Affiliate" as not used. Mark N105 data element as not used
Transaction Set Tables
"REF Segments (Heading)" table: Insert new row between Recall/Reput Indicator row and Releasing Shipper Lesser Quantity Indicator row as follows: Element Name column: "Affiliate Indicator"; Usage column: "BC"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."; REF03 column: "not used", [and on next invisible row] "not used", [and on next invisible row] "not used", [and on next invisible row] "not used"
"REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Offer Upload Quick Response (5.4.8) **Transaction Set Tables**
"Errors and Warnings (Heading)" table: E193: Change "Missing Bidder Affiliate Indicator" to "Missing Affiliate Indicator"

"Errors and Warnings (Heading)" table: E194: Change "Invalid Bidder Affiliate Indicator" to "Invalid Affiliate Indicator"
"Errors and Warnings (Heading)" table: W629: Change "Bidder Affiliate Indicator not processed" to "Affiliate Indicator not processed"
Offer Upload Notification (5.4.9)
Data Element Xref to X12 Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "C Affiliate Indicator"
Header N1 Segment: Delete line "C Bidder Affiliate Indicator" for N1 Transportation Service Provider
Header N1 Segment: Delete line "C Bidder Affiliate Indicator" for N1 Releaser Company Code
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark code value "23 Affiliate" as not used. Mark N105 data element as not used
Transaction Set Tables
"REF Segments (Heading)" table: Insert new row at the bottom of the table as follows: Element Name column: "Affiliate Indicator"; Usage column: "C2"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."; REF03 column: "not used", [and on next invisible row] "not used", [and on next invisible row] "not used", [and on next invisible row] "not used"
"REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Upload of Request for Download of Posted Datasets (5.4.14)
Transaction Set Tables "LIN 235/234 Pairs (Detail)" table: For data element Data Sets Requested, add the following code values (Elem 234 column) and code value descriptions (Description column) in numerical order by code value: "13 Transactional Reporting – Capacity Release", "14 Transactional Reporting – Firm Transportation", "15 Transactional Reporting – Interruptible Transportation"
Reponse to Upload of Request for Download of Posted Datasets (5.4.15)
X12 Mapping
Detail REF Segment (position 140): REF01: Mark code value T1 as used. Add code value note "Transactional Reporting – Capacity Release" [next line] "Mandatory when LIN 234 element = '13'"
Detail REF Segment (position 140): REF01: Mark code value T2 as used. Add code value note "Transactional Reporting – Firm Transportation" [next line] "Mandatory when LIN 234 element = '14'" Detail REF Segment (position 140): REF01: Mark code value T3 as used. Add code value note "Transactional Reporting – Interruptible Transportation" [next line] "Mandatory when LIN 234 element = '15'"
Transaction Set Tables

"LIN 235/234 Pairs (Detail)" table: For data element Data Sets Requested, add the following code values (Elem 234 column) and code value descriptions (Description column) in numerical order by code value: "13 Transactional Reporting – Capacity Release", "14 Transactional Reporting – Firm Transportation", "15 Transactional Reporting – Interruptible Transportation"
Bid Upload (5.4.18)
Data Element Xref to X12
Header REF Segment: Add a new entry at the end of the REF list of data elements (before Header DTM starts) as follows: "BC Affiliate Indicator"
Header N1 Segment: Delete line "BC Bidder Affiliate Indicator" for N1 Transportation Service Provider
Header N1 Segment: Delete line "BC Bidder Affiliate Indicator" for N1 Releaser Company Code
X12 Mapping
Header REF Segment (position 050): REF02: Add data element "Affiliate Indicator" to the end of the list of data elements
Header N1 Segment (position 310): N105: Delete data element "Bidder Affiliate Indicator" and all element note text. Mark N105 data element as not used.
Transaction Set Tables
"REF Segments (Heading)" table: Insert new row between Offer Number row and Special Terms and Miscellaneous Notes row as follows: Element Name column: "Affiliate Indicator"; Usage column: "BC"; REF01 column: "ZZ"; REF02 column: "BOTH", [and on next invisible row] "NONE", [and on next invisible row] "RS", [and on next invisible row] "TSP"; Description column: "Bidder is affiliated with the Transportation Service Provider and the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.", [and on next invisible row] "Bidder is affiliated only with the releasing shipper.", [and on next invisible row] "For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider."
"REF Segments (Detail)" table: For data element Surcharge Indicator, where REF02 = 5, modify Description from "Rate(s) stated include only rates; no surcharges applicable to this release" to "Rate(s) stated include only rates; no surcharges applicable"
Bid Upload Quick Response (5.4.19)
Transaction Set Tables
"Errors and Warnings (Heading)" table: EDBQR124: Change "Missing Bidder Affiliate Indicator" to "Missing Affiliate Indicator"
"Errors and Warnings (Heading)" table: EBDQR125: Change "Invalid Bidder Affiliate Indicator" to "Invalid Affiliate Indicator"
"Errors and Warnings (Heading)" table: WBDQR103: Change "Bidder Affiliate Indicator not processed" to "Affiliate Indicator not processed"

4. SUPPORTING DOCUMENTATION

a. Description of Request:

b. Description of Recommendation:

Information Requirements Subcommittee

See minutes for the following Information Requirements Subcommittee meetings:

- November 14 – 15, 2001
- December 12 – 13, 2001
- January 09 – 10, 2001
- February 20 – 21, 2001
- March 13 – 14, 2001
- April 17 – 18, 2001
- May 15 – 16, 2001
- June 12 – 13, 2001
- July 17 – 18, 2001
- August 21 – 22, 2001
- September 18 – 19, 2001
- October 09 – 10, 2001
- November 13 – 14, 2001
- December 11 – 12, 2001
- January 22 – 23, 2002

Technical Subcommittee

See minutes for the following Technical Subcommittee meetings:

- February 25, 2002
- March 18, 2002

Sense of the Room: March 18, 2002 8 In Favor 0 Opposed
Segment Check (if applicable):
In Favor : ___End-Users ___LDCs ___Pipelines ___Producers ___Services
Opposed : ___End-Users ___LDCs ___Pipelines ___Producers ___Services

c. Business Purpose:

d. Commentary/Rationale of Subcommittee(s)/Task Force(s):

TECHNICAL IMPLEMEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Capacity Release is a report from a **transportation service provider** detailing contract information for new or amended capacity release transactions. The report identifies two entities with a contractual relationship with the transportation service provider: the **contract holder** and the releasing entity (**releaser company code**). The agreement between the contract holder and the transportation service provider is known as the **service requester contract**; it is the result of the capacity being released. The agreement between the releasing entity and the transportation service provider is known as the **releaser contract number**; it is the contract that the releasing entity had with the transportation service provider prior to the capacity being released.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

Contract begin date and **contract end date** pertain to the dates on which the service requester contract is effective. Contract end date is reported without respect to rollover or evergreen provisions, which are contained in the Index of Customers, should they exist. **Contract entitlement begin date** and **contract entitlement begin time** refer to the date and time when service can first be provided under a service requester contract. The default for contract entitlement begin date is the contract begin date. The default for contract entitlement begin time is the beginning of the gas day on the contract entitlement begin date. **Contract entitlement end date** and **contract entitlement end time** refer to the date and time when service can last be provided under a service requester contract without respect to rollover or evergreen provision(s). The default for contract entitlement end date is the contract end date. The default for contract entitlement end time is the end of the gas day on the contract entitlement end date.

The data set accommodates the reporting of multiple occurrences of entitlement date/time periods for a service requester contract. This can be accomplished by pairing the contract entitlement begin time and contract entitlement end time to describe discrete period(s) of entitlement during the gas day. Furthermore, the contract entitlement begin date and contract entitlement end date can be used together to describe discrete period(s) of entitlement within the contract duration.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, **rate identification code**, and **reservation rate basis.** When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There may be multiple values for the **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider:	Enormous Pipeline (246810121)
Amendment Reporting:	All Data
Contract Holder:	My Gas Shipper (987654321)
Service Requester Contract:	K1234
Contract Begin Date:	April 1, 2002
Contract End Date:	April 6, 2006
Releaser Company:	Was My Gas Shipper (123456789)
Releaser Contract Number:	K4321
Affiliate Indicator:	None
Rate Reporting Level:	Contract
Rate Form/Type:	Reservation Only
Reservation Rate Basis:	Per Day
Bidder Designation of Bidding Basis:	Dollar
Posting Date:	March 15, 2002
Posting Time:	9:00 a.m.
Contract Status:	New
Contract Entitlement Begin Date:	April 1, 2002
Contract Entitlement Begin Time:	9:00 a.m.
Contract Entitlement End Date:	April 1, 2006
Contract Entitlement End Time:	9:00 a.m.
Location/Quantity Type:	Receipt to Delivery
Maximum Tariff Rate:	$2.75
Rate ID:	Reservation
Surcharge Indicator:	Rate(s) stated include(s) only rates; no surcharges applicable
Rate Charged:	$2.75

Receipt Location	**Contractual Quantity – Location**	**Delivery Location**	**Contractual Quantity – Location**
0000DRN01	1000	0000DRN02	1000
0000DRN03	1500	0000DRN04	1500
0000DRN05	2000	0000DRN06	2000

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Desc)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.

[1] The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Bidder Designation of Bidding Basis Data	Indicates bidding basis used by the bidder.	RDG			
Bidder Designation of Bidding Basis (Bidder Bid Basis)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, at least one of Bidder Designation of Bidding Basis or Bidder Designation of Bidding Basis Description is required.
Bidder Designation of Bidding Basis Description (Bidder Bid Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, at least one of Bidder Designation of Bidding Basis or Bidder Designation of Bidding Basis Description is required.
Contract Begin Date (K Beg Date)	The date on which the Service Requester Contract becomes effective.	CDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract End Date (K End Date)	The last date on which the Service Requester Contract is effective without regard to evergreen or rollover provision(s).	CDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Contract Entitlement Begin Date (K Ent Beg Date)	The gas day on which service can first be provided under the Service Requester Contract.	CEDG	M		Default is Contract Begin Date.
Contract Entitlement Begin Time (K Ent Beg Time)	The time at which service can first be provided under the Service Requester Contract on the Contract Entitlement Begin Date.	CEDG	M		Default is beginning of the gas day on the Contract Entitlement Begin Date.
Contract Entitlement End Date (K Ent End Date)	The gas day on which service can last be provided under the Service Requester Contract without regard to evergreen or rollover provision(s).	CEDG	M		Default is Contract End Date.
Contract Entitlement End Time (K Ent End Time)	The time at which service can last be provided under the Service Requester Contract on the Contract Entitlement End Date.	CEDG	M		Default is end of the gas day on the Contract Entitlement End Date.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contractual Quantity – Contract (K Qty - K)	Reflects either: the maximum daily contract quantity under the specified firm transportation service contract or the maximum storage quantity under the specified firm storage service contract.	CDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity - Location is mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contractual Quantity – Location (K Qty - Loc)	Reflects either: the maximum daily contract quantity for firm transportation service at the specified location or the maximum storage quantity for firm storage service at the specified location.	LDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity - Location is mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. When this field uniquely identifies the segment, a proprietary segment identifier may be used.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Offer Number (Offer No)	A unique identifier within each transportation service provider identifying the capacity being offered. The offer can also be described as package, parcel, or release of capacity.	CDG	SO		
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Rate Form/Type Code Data	A code indicating the form or type of rate.	RDG			
Rate Form/Type Code (Rate Form/Type)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Form/Type Code Description (Rate Form/Type Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		Mandatory when Rate Charged is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Identification Code Description (Rate ID Desc)		RCDG	C		Mandatory when Rate Charged is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			
Rate Reporting Level (Rpt Lvl)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Releaser Company Data	The legal entity which signed the contract with the transportation service provider.	BEDG			
Releaser Company Code * (Releaser)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Releaser Company Name *** (Releaser Name)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Releaser Contract Number (Rel K)	A unique identifier assigned by each transportation service provider identifying the contract (applicable to the offer) between the transportation service provider and the releasing shipper.	CDG	M		
Reservation Rate Basis Data	A code field indicating the basis on which the reservation rate is expressed.	RDG			
Reservation Rate Basis (Res Rate Basis)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.
Reservation Rate Basis Description (Res Rate Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Seasonal End Date (Seasnl End)	End date of the effective period of the sub-term or seasonal period within the contract term.	RDG	C		Mandatory when Seasonal Start Date is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Seasonal Start Date (Seasnl St)	Start date of the effective period of the sub-term or seasonal period within the contract term.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	M		
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			
Surcharge Identification Code (Surchg ID)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

BEDG	Business Entity Data Group
CDG	Contract Data Group
CEDG	Contract Entitlement Data Group
CSDG	Contract Status Data Group
DDG	Date Data Group
LDG	Location Data Group
RCDG	Rate Charged Data Group
RDG	Rate Data Group
TSPDG	Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
Both	Bidder is affiliated with the Transportation Service Provider and the releasing shipper.	BOTH
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
RS	Bidder is affiliated only with the releasing shipper.	RS
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Bidder Designation of Bidding Basis

Code Value Description	Code Value Definition	Code Value
Absolute dollars and cents per unit basis	[no definition necessary]	A
Percentage of maximum tariff rate	[no definition necessary]	P

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5

Code Value Description	Code Value Definition	Code Value
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Rate Form/Type Code

Code Value Description	Code Value Definition	Code Value
Blended rate (combination of reservation and volumetric charges)		3
Reservation charge only		1
Volumetric charge only		2

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Capacity		CAP
Capacity - Field	A monthly reservation charge assessed on the capacity reserved under a storage contract in a field zone.	100
Capacity - Market	A monthly reservation charge assessed on the capacity reserved under a storage contract in a market zone.	101
Commodity	A charge based on utilization of service.	COM
Deliverability - Field	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a field zone.	102
Deliverability - Market	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a market zone.	103
Reservation		RES
Reservation - Field Transportation	A rate to reserve firm transportation capacity between primary locations in a field zone.	104
Reservation - Gathering	A rate to reserve firm transportation capacity at a receipt location designated as gathering.	105

Code Value Description	Code Value Definition	Code Value
Reservation - Market Access	A rate to reserve firm transportation capacity between primary locations in a market zone.	106
Reservation - Market Transportation (100 mi)	A rate to reserve firm transportation capacity between primary locations in a market zone relative to the distance of haul.	107
Reservation - Transportation Field - Z1A	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 1A.	115
Reservation - Transportation Field - Z1B	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone1B.	116
Reservation - Transportation Field - Z2	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 2.	117
Reservation - Transportation Z1A - Z1A	A rate to reserve firm transportation capacity between primary points in Zone 1A.	118
Reservation - Transportation Z1A - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 1B.	119
Reservation - Transportation Z1A - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 2.	120
Reservation - Transportation Z1B - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1B.	121
Reservation - Transportation Z1B - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1B and Zone 2.	122
Reservation - Transportation Z2 - Z2	A rate to reserve firm transportation capacity between primary points in Zone 2.	123
Storage - Space Charge	A charge applicable to firm storage services only. Assessed against the adjusted maximum storage quantity.	109
Storage Reservation - Incremental Charge	A charge applicable to firm storage services only. Assessed against the incremental maximum daily withdrawal quantity.	110
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112
Storage Volumetric - Space Charge	A charge applicable to firm storage services only. Assessed against the maximum storage quantity.	113
Volumetric		VOL

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Reservation Rate Basis

Code Value Description	Code Value Definition	Code Value
Per day		DA
Per month		MO
Per year		YR
Seasonal		SN
Service unit (for storage)		SV

Segment Indicator

Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Demand		DEM
GRI Demand		GRI
GRI Demand - High Load		GRIH
GRI Demand - Low Load		GRIL
GSD Demand		GSD
Reservation - Canadian Resolution	Recovery of gas supply costs related to contract termination between parties.	500
Reservation - GSR	Recovery of gas supply realignment costs.	501
Reservation - Settlement	Resolution of take-or-pay costs related to a settlement.	502
Reservation Balancing		RSBL
Reservation Charge Adjustment		RCA
Reservation volumetric		RSVL
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5

TECHNICAL IMPLEMEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Firm Transportation is a report from a **transportation service provider** detailing contract information for new or amended firm transportation service. The report identifies the **contract holder** as the entity with the contractual relationship with the transportation service provider. The agreement between the contract holder and the transportation service provider is known as the **service requester contract**.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

Contract begin date and **contract end date** pertain to the dates on which the service requester contract is effective. Contract end date is reported without respect to rollover or evergreen provisions, which are contained in the Index of Customers should they exist. **Contract entitlement begin date** and **contract entitlement begin time** refer to the date and time when service can first be provided under a service requester contract. The default for contract entitlement begin date is the contract begin date. The default for contract entitlement begin time is the beginning of the gas day on the contract entitlement begin date. **Contract entitlement end date** and **contract entitlement end time** refer to the date and time when service can last be provided under a service requester contract without respect to rollover or evergreen provision(s). The default for contract entitlement end date is the contract end date. The default for contract entitlement end time is the end of the gas day on the contract entitlement end date.

The data set accommodates the reporting of multiple occurrences of entitlement date/time periods for a service requester contract. This can be accomplished by pairing the contract entitlement begin time and contract entitlement end time to describe discrete period(s) of entitlement during the gas day. Furthermore, the contract entitlement begin date and contract entitlement end date can be used together to describe discrete period(s) of entitlement within the contract duration.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, **rate identification code**, and **reservation rate basis.** When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There may be multiple values for the **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider: Enormous Pipeline (246810121)
Amendment Reporting: All Data

Contract Holder: My Gas Shipper (987654321)
Service Requester Contract: K1234
Contract Begin Date: April 1, 2002
Contract End Date: April 6, 2006
Affiliate Indicator: None
Rate Reporting Level: Contract
Rate Form/Type: Reservation Only
Reservation Rate Basis: Per Day

Posting Date: March 15, 2002
Posting Time: 9:00 a.m.
Contract Status: New
Contract Entitlement Begin Date: April 1, 2002
Contract Entitlement Begin Time: 9:00 a.m.
Contract Entitlement End Date: April 1, 2006
Contract Entitlement End Time: 9:00 a.m.
Location/Quantity Type: Receipt to Delivery
Surcharge Indicator: Rate(s) stated include(s) only rates; no surcharges applicable

Reservation Rate Information
Maximum Tariff Rate: $2.75
Rate ID: Reservation
Rate Charged: $2.75
Negotiated Rate Indicator: Yes

Commodity Rate Information
Maximum Tariff Rate: $0.34
Rate ID: Commodity
Rate Charged: $0.33
Negotiated Rate Indicator: Yes

Receipt Location	**Contractual Quantity – Location**	**Delivery Location**	**Contractual Quantity – Location**
0000DRN01	1000	0000DRN02	1000
0000DRN03	1500	0000DRN04	1500
0000DRN05	2000	0000DRN06	2000

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Desc)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			

[1] The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Contract Begin Date (K Beg Date)	The date on which the Service Requester Contract becomes effective.	CDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract End Date (K End Date)	The last date on which the Service Requester Contract is effective without regard to evergreen or rollover provision(s).	CDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Entitlement Begin Date (K Ent Beg Date)	The gas day on which service can first be provided under the Service Requester Contract.	CEDG	M		Default is Contract Begin Date.
Contract Entitlement Begin Time (K Ent Beg Time)	The time at which service can first be provided under the Service Requester Contract on the Contract Entitlement Begin Date.	CEDG	M		Default is beginning of the gas day on the Contract Entitlement Begin Date.
Contract Entitlement End Date (K Ent End Date)	The gas day on which service can last be provided under the Service Requester Contract without regard to evergreen or rollover provision(s).	CEDG	M		Default is Contract End Date.
Contract Entitlement End Time (K Ent End Date)	The time at which service can last be provided under the Service Requester Contract on the Contract Entitlement End Date.	CEDG	M		Default is end of the gas day on the Contract Entitlement End Date.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required
Contractual Quantity – Contract (K Qty - K)	Reflects either: • the maximum daily contract quantity under the specified firm transportation service contract or • the maximum storage quantity under the specified firm storage service contract.	CDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity – Location is mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contractual Quantity – Location (K Qty - Loc)	Reflects either: • the maximum daily contract quantity for firm transportation service at the specified location or • the maximum storage quantity for firm storage service at the specified location.	LDG	C		At least one of Contractual Quantity – Contract or Contractual Quantity – Location is mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. When this field uniquely identifies the segment, a proprietary segment identifier may be used.
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity', and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity', and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity', and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Negotiated Rate Indicator Data	Indicates whether the contract is a negotiated rate contract.	RCDG			
Negotiated Rate Indicator (Ngtd Rate Ind)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Negotiated Rate Indicator or Negotiated Rate Indicator Description is required.
Negotiated Rate Indicator Description (Ngtd Rate Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Negotiated Rate Indicator or Negotiated Rate Indicator Description is required.
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Data	A reference to rate charged data.	RCDG			
Rate Charged Reference (Rate Chgd Ref)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Description (Rate Chgd Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Form/Type Code Data	A code indicating the form or type of rate.	RDG			
Rate Form/Type Code (Rate Form/Type)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Form/Type Code Description (Rate Form/Type Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Form/Type Code or Rate Form/Type Code Description is required.
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Identification Code Description (Rate ID Desc)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Reporting Level (Rpt Lvl)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Reservation Rate Basis Data	A code field indicating the basis on which the reservation rate is expressed.	RDG			
Reservation Rate Basis (Res Rate Basis)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Reservation Rate Basis Description (Res Rate Basis Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Reservation Rate Basis or Reservation Rate Basis Description is required.
Seasonal End Date (Seasnl End)	End date of the effective period of the sub-term or seasonal period within the contract term.	RDG	C		Mandatory when Seasonal Start Date is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Seasonal Start Date (Seasnl St)	Start date of the effective period of the sub-term or seasonal period within the contract term.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	M		
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Surcharge Identification Code (Surchg ID)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

BEDG	Business Entity Data Group
CDG	Contract Data Group
CEDG	Contract Entitlement Data Group

CSDG	Contract Status Data Group
DDG	Date Data Group
LDG	Location Data Group
RCDG	Rate Charged Data Group
RDG	Rate Data Group
TSPDG	Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment(s) quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Negotiated Rate Indicator

Code Value Description	Code Value Definition	Code Value
No	[no definition necessary]	N
Yes	[no definition necessary]	Y

Rate Charged Reference

Code Value Description	Code Value Definition	Code Value
Max	Maximum rate pursuant to tariff provisions.	MAX
Min	Minimum rate pursuant to tariff provisions.	MIN
Special Terms	Rate described in Special Terms and Miscellaneous Notes.	SPT
Tariff	Rate pursuant to tariff provisions.	TAR

Rate Form/Type Code

Code Value Description	Code Value Definition	Code Value
Blended rate (combination of reservation and volumetric charges)		3
Reservation charge only		1
Volumetric charge only		2

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Capacity		CAP
Capacity - Field	A monthly reservation charge assessed on the capacity reserved under a storage contract in a field zone.	100
Capacity - Market	A monthly reservation charge assessed on the capacity reserved under a storage contract in a market zone.	101
Commodity	A charge based on utilization of service.	COM
Deliverability - Field	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a field zone.	102
Deliverability - Market	A monthly reservation charge assessed on the maximum daily withdrawal quantity in a market zone.	103

Code Value Description	Code Value Definition	Code Value
Reservation		RES
Reservation - Field Transportation	A rate to reserve firm transportation capacity between primary locations in a field zone.	104
Reservation - Gathering	A rate to reserve firm transportation capacity at a receipt location designated as gathering.	105
Reservation - Market Access	A rate to reserve firm transportation capacity between primary locations in a market zone.	106
Reservation - Market Transportation (100 mi)	A rate to reserve firm transportation capacity between primary locations in a market zone relative to the distance of haul.	107
Reservation - Transportation Field - Z1A	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 1A.	115
Reservation - Transportation Field - Z1B	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone1B.	116
Reservation - Transportation Field - Z2	A rate to reserve firm transportation capacity between primary points in the Field Zone and Zone 2.	117
Reservation - Transportation Z1A - Z1A	A rate to reserve firm transportation capacity between primary points in Zone 1A.	118
Reservation - Transportation Z1A - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 1B.	119
Reservation - Transportation Z1A - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1A and Zone 2.	120
Reservation - Transportation Z1B - Z1B	A rate to reserve firm transportation capacity between primary points in Zone 1B.	121
Reservation - Transportation Z1B - Z2	A rate to reserve firm transportation capacity between primary points in Zone 1B and Zone 2.	122
Reservation - Transportation Z2 - Z2	A rate to reserve firm transportation capacity between primary points in Zone 2.	123
Storage - Space Charge	A charge applicable to firm storage services only. Assessed against the adjusted maximum storage quantity.	109
Storage Reservation - Incremental Charge	A charge applicable to firm storage services only. Assessed against the incremental maximum daily withdrawal quantity.	110
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112
Storage Volumetric - Space Charge	A charge applicable to firm storage services only. Assessed against the maximum storage quantity.	113
Volumetric		VOL

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K

Code Value Description	Code Value Definition	Code Value
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Reservation Rate Basis

Code Value Description	Code Value Definition	Code Value
Per day		DA
Per month		MO
Per year		YR
Seasonal		SN
Service unit (for storage)		SV

Segment Indicator

Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Demand		DEM
GRI Demand		GRI
GRI Demand - High Load		GRIH
GRI Demand - Low Load		GRIL
GSD Demand		GSD
Reservation - Canadian Resolution	Recovery of gas supply costs related to contract termination between parties.	500
Reservation - GSR	Recovery of gas supply realignment costs.	501
Reservation - Settlement	Resolution of take-or-pay costs related to a settlement.	502
Reservation Balancing		RSBL
Reservation Charge Adjustment		RCA
Reservation volumetric		RSVL
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503

Code Value Description	Code Value Definition	Code Value
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5

TECHNICAL IMPLEMEMENTATION OF BUSINESS PROCESS

Transactional Reporting - Interruptible Transportation is a report from a **transportation service provider** detailing information for new or amended interruptible transportation service. The report identifies the **contract holder** as the entity with the contractual relationship with the transportation service provider. The agreement between the contract holder and the transportation service provider is known as the **service requester contract**.

Contract status indicates whether the reported service requester contract is new or amended. **Amendment reporting** specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data. For amended contracts reporting changes only via EDI/EDM or FF/EDM, in addition to the mandatory data elements, only those data elements that have changed from the previous contract data should be sent. It is, however, permissible for a transportation service provider to display on their Web site, at their discretion, additional data elements within this dataset, provided they are differentiated from the mandatory or changed data elements.

When reporting changes only and the information that is being reported is specific to a location(s), the corresponding location data should be sent.

The **rate reporting level** specifies the level at which the rate data is presented. Rate and surcharge information is reported using various data elements such as **rate charged**, **surcharge indicator**, and **rate identification code.** When the rate and surcharge information cannot be described/reported at reporting time using the data elements in the dataset, it should be communicated in **special terms and miscellaneous notes**.

There should be only one **posting date** and **posting time** in a given transmission.

SAMPLE PAPER TRANSACTION

Transportation Service Provider: Enormous Pipeline (246810121)
Posting Date: May 15, 2003
Posting Time: 9:00 a.m.

Contract Holder: My Gas Shipper (987654321)
Affiliate Indicator: None
Rate Reporting Level: Contract

Contract Status: New
Location/Quantity Type: Receipt to Delivery
Maximum Tariff Rate: $0.25
Rate ID: Commodity
Surcharge Indicator: Rate(s) stated include(s) only rates; no surcharges applicable
Rate Charged: $0.20

Receipt Location	**Delivery Location**
0000DRN01	0000DRN02
0000DRN01	0000DRN04
0000DRN03	0000DRN04
0000DRN05	0000DRN06

DATA DICTIONARY

Standard 5.4.x

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Affiliate Indicator Data	An indicator that specifies which parties to the transaction are affiliated.	BEDG			
Affiliate Indicator (Affil Ind)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Affiliate Indicator Description (Affil Ind Desc)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Affiliate Indicator or Affiliate Indicator Description is required.
Amendment Reporting Data	Specifies whether data reported for an amendment to a contract contains all applicable contract data or only changes to the previous contract data.	TSPDG			

[1] The EDI/FF usages do not appear in the data dictionary. The column is retained and the usages will be provided when the EDI and FF implementation instructions are published.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Amendment Reporting (Amend Rptg)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Amendment Reporting Description (Amend Rptg Desc)		TSPDG	C		For EBB, at least one of Amendment Reporting or Amendment Reporting Description is required.
Contract Holder Data	The entity with the contractual relationship with the transportation service provider.	BEDG			
Contract Holder * (K Holder)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Holder Name *** (K Holder Name)		BEDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Contract Status Data	Specifies whether data reported is for a new contract or for an amendment to a contract.	CSDG			
Contract Status (K Stat)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Contract Status Description (K Stat Desc)		CSDG	C		For EBB, at least one of Contract Status or Contract Status Description is required.
Gas Transaction Point 1 Data	The code which uniquely corresponds to Gas Transaction Point 1.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 1 Code * ** (GTP 1)		LDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Proprietary Code (GTP 1 Prop)		LDG	C		Mandatory when Gas Transaction Point 1 Code is not present and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. When this field uniquely identifies the segment, a proprietary segment identifier may be used.
Gas Transaction Point 1 Description (GTP 1 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 1 Zone (GTP 1 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Gas Transaction Point 2 Data	The code which uniquely corresponds to Gas Transaction Point 2.	LDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 2 Code * ** (GTP 2)		LDG	C		Mandatory when one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity', and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Proprietary Code (GTP 2 Prop)		LDG	C		Mandatory when Gas Transaction Point 2 Code is not present and one of the following conditions is met: • Segment Indicator indicates the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity', and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Gas Transaction Point 2 Description (GTP 2 Desc)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point (not a standard).	LDG	C		For EBB, mandatory when one of the following conditions is met: • the segment is defined by two points, or • Location/Quantity Type Indicator is: o 'Receipt point(s) to delivery point(s) quantity', or o 'Mainline quantity'.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Gas Transaction Point 2 Zone (GTP 2 Zn)	The transportation service provider designated name, description or other identifier generally in use on the pipeline to identify this gas transaction point zone (not a standard).	LDG	SO		
Interruptible Quantity – Contract (IT Qty - K)	The quantity the service requester is entitled to nominate under the specified contract.	CDG	SO		
Interruptible Quantity – Location (IT Qty - Loc)	The quantity the service requester is entitled to nominate at the specified location.	LDG	SO		
Location/Quantity Type Indicator Data	Indicates the location type for the referenced capacity/quantity.	RCDG			
Location/Quantity Type Indicator (Loc/QTI)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.
Location/Quantity Type Indicator Description (Loc/QTI Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Location/Quantity Type Indicator or Location/Quantity Type Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Maximum Tariff Rate (Max Trf Rate)	The maximum tariff rate for the Rate Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Maximum Tariff Rate Reference Data	A reference to maximum tariff rate data.	RCDG			
Maximum Tariff Rate Reference (Max Trf Rate Ref)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Maximum Tariff Rate Reference Description (Max Trf Rate Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Maximum Tariff Rate or Maximum Tariff Rate Reference is required. For EBB, when one of these conditions is met, at least one of Maximum Tariff Rate, Maximum Tariff Rate Reference or Maximum Tariff Rate Reference Description is required.
Posting Date (Post Date)	The date on which the service provider posts this information.	DDG	M		
Posting Time (Post Time)	The time on which the service provider posts this information.	DDG	M		
Rate Charged (Rate Chgd)	The rate charged for the Rate Identification Code or Surcharge Identification Code specified.	RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Data	A reference to rate charged data.	RCDG			

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Charged Reference (Rate Chgd Ref)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EDI, when one of these conditions is met, at least one of Rate Charged or Rate Charged Reference is required. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Charged Reference Description (Rate Chgd Ref Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Charged, Rate Charged Reference or Rate Charged Reference Description is required.
Rate Identification Code Data	A code which identifies a specific rate.	RCDG			
Rate Identification Code (Rate ID)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.
Rate Identification Code Description (Rate ID Desc)		RCDG	C		Mandatory when Rate Charged, Rate Charged Reference or Rate Charged Reference Description is present. For EBB, when this condition is met, at least one of Rate Identification Code or Rate Identification Code Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Rate Reporting Level Data	Indicates the level at which rates are reported.	RDG			
Rate Reporting Level (Rpt Lvl)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Reporting Level Description (Rpt Lvl Desc)		RDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Rate Reporting Level or Rate Reporting Level Description is required.
Rate Schedule (Rate Sch)	A representation of the rate schedule that is the same as the transportation service provider's tariff abbreviation (if any) for the rate schedule under which service is being provided.	RDG	SO		
Segment Indicator (Segment)	A code which indicates whether Gas Transaction Point 1 uniquely identifies the segment.	LDG	nu		Mandatory when Location/Quantity Type Indicator is 'Segment(s) quantity' and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Service Requester Contract (Svc Req K)	This is the contract under which service is being requested.	CDG	SO		

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Special Terms & Miscellaneous Notes (Terms/Notes)	Other terms which are either offered or required.	RDG	SO		
Surcharge Identification Code Data	A code which identifies a specific surcharge.	RCDG			
Surcharge Identification Code (Surchg ID)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Identification Code Description (Surchg ID Desc)		RCDG	C		Mandatory when Surcharge Indicator specifies that surcharge detail is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when these conditions are met, at least one of Surcharge Identification Code or Surcharge Identification Code Description is required.
Surcharge Indicator Data	Indicates whether surcharges are applicable, and if so, where surcharge information is located.	RCDG			
Surcharge Indicator (Surchg Ind)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.

Business Name (Abbreviation)	Definition	Data Group	EBB Usage	EDI/FF Usage[1]	Condition
Surcharge Indicator Description (Surchg Ind Desc)		RCDG	C		Mandatory when one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'. For EBB, when one of these conditions is met, at least one of Surcharge Indicator or Surcharge Indicator Description is required.
Total Surcharges (Tot Surchg)	Contains the total of all applicable surcharge(s).	RCDG	C		Mandatory when Surcharge Indicator specifies that a total of all applicable surcharge(s) is provided and one of the following conditions is met: • Contract Status is 'New', or • Contract Status is 'Amended' and Amendment Reporting is 'All Data'.
Transportation Service Provider Data	A code which uniquely identifies the transportation service provider.	TSPDG			
Transportation Service Provider * (TSP)		TSPDG	M		
Transportation Service Provider Name (TSP Name)		TSPDG	M		

* Indicates Common Code

** When a Transportation Service Provider's proprietary location code is employed pursuant to this standard, the parties agree that nominations, confirmations, scheduled quantities, and capacity release documents employing such code should be for one gas day at a time, and used only until there is a verified common code for the point associated with the proprietary location code. This would include daily nominations over a weekend. Within two months following the availability of the location the parties should employ the common code and no longer employ the proprietary code for identifying such location in the data sets related to the identified standards.

*** The Transportation Service Provider's version of the name.

DATA GROUPS:

BEDG	Business Entity Data Group
CDG	Contracts Data Group
DDG	Date Data Group

LDG	Location Data Group
LSDG	Line Status Data Group
RCDG	Rate Charged Data Group
RDG	Rate Data Group
TSPDG	Transportation Service Provider Data Group

CODE VALUES DICTIONARY

Affiliate Indicator

Code Value Description	Code Value Definition	Code Value
None	For capacity release, the bidder is not affiliated with the Transportation Service Provider or the releasing shipper. For firm or interruptible reporting, the Contract Holder is not affiliated with the Transportation Service Provider.	NONE
TSP	For capacity release, the bidder is affiliated only with the Transportation Service Provider. For firm or interruptible reporting, the Contract Holder is affiliated with the Transportation Service Provider.	TSP

Amendment Reporting

Code Value Description	Code Value Definition	Code Value
All Data	[no definition necessary]	A
Changes Only	[no definition necessary]	C

Contract Status

Code Value Description	Code Value Definition	Code Value
Amended	[no definition necessary]	A
New	[no definition necessary]	N

Location/Quantity Type Indicator

Code Value Description	Code Value Definition	Code Value
Delivery point(s) quantity		2
Mainline quantity		5
Receipt point(s) quantity		1
Receipt point(s) to delivery point(s) quantity		3
Segment(s) quantity		4
Storage injection quantity		7
Storage quantity		6
Storage withdrawal quantity		8

Maximum Tariff Rate Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	M
Tariff	[no definition necessary]	T

Rate Charged Reference

Code Value Description	Code Value Definition	Code Value
Matrix	[no definition necessary]	MAT
Max	Maximum rate pursuant to tariff provisions.	MAX
Min	Minimum rate pursuant to tariff provisions.	MIN
Special Terms	Rate described in Special Terms and Miscellaneous Notes.	SPT
Tariff	Rate pursuant to tariff provisions.	TAR

Rate Identification Code

Code Value Description	Code Value Definition	Code Value
Commodity	A charge based on utilization of service.	COM
Storage Inventory	A charge applicable to interruptible storage services only. Assessed against the absolute value of the inventory balances in the account.	124
Storage Volumetric - Field	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a field zone.	111
Storage Volumetric - Market	A charge applicable to interruptible storage services only. Assessed against the average daily stored volume for the month in a market zone.	112

Rate Reporting Level

Code Value Description	Code Value Definition	Code Value
Contract	Rates are reported at the contract level	K
Point	Rates are reported at the point level	P
Segment	Rates are reported at the segment level	S

Segment Indicator

Code Value Description	Code Value Definition	Code Value
No	The Gas Transaction Point 1 specified does not uniquely identify a segment.	N
Yes	The Gas Transaction Point 1 specified uniquely identifies a segment.	Y

Surcharge Identification Code

Code Value Description	Code Value Definition	Code Value
Annual Charge Adjustment		ACA
Contract Adjustment		CTA
Storage Gasification Surcharge - Market	Recovery of costs related to third party storage.	503
Stranded Transportation Cost	Recovery of stranded third party transportation costs.	504
Stranded Transportation Cost - Miscellaneous	Recovery of miscellaneous stranded transportation costs.	505
Unrecovered PGA Cost	Recovery of Purchase Gas Adjustment cost pre-deferred account 191.	506

Surcharge Indicator

Code Value Description	Code Value Definition	Code Value
Rate(s) stated do not include any applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	7
Rate(s) stated do not include any applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	6
Rate(s) stated do not include any applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	8
Rate(s) stated include all applicable surcharges; no surcharge detail or surcharge total provided	[no definition necessary]	1
Rate(s) stated include all applicable surcharges; no surcharge detail provided; surcharge total provided	[no definition necessary]	3
Rate(s) stated include all applicable surcharges; surcharge detail and surcharge total provided	[no definition necessary]	4
Rate(s) stated include all applicable surcharges; surcharge detail provided; no surcharge total provided	[no definition necessary]	2
Rate(s) stated include only rates; no surcharges applicable.	[no definition necessary]	5