

**GISB Future Technology Task Force
Pilot Test
Phase I Testing Plan**

The Phase I Pilot Test will begin on Monday, June 17 and end on Monday, July 15, 1996. Every participant in the Pilot Test will act as a trading partner client, or communication initiator, as well as a trading partner server, or communication receiver, at some time during the testing.

The Test Coordinator for Phase I is:

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The Backup Test Coordinator for Phase I is:

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Phase I Test Participants and Location

Altra Energy	Houston, TX
CNG	West Virginia
El Paso Natural Gas	El Paso, TX
Energy TRACS	
Enersoft Corp.	Houston, TX
Enron Interstate Pipelines	Houston, TX
GISB	Houston, TX
KN Energy	Colorado
Natural Gas Pipeline Company	Tulsa, OK (server), Houston, TX (client)
NrG Information Services	Calgary
Pacific Gas Transmission Co.	Portland, OR
PanEnergy	Houston, TX
Southern California Gas Company	Los Angeles, CA
Tenneco Energy	Houston, TX
TransCapacity	Calgary

TEST MACHINE PROFILES

Every participant in the pilot test must supply a client profile and a server profile to the test coordinator. Participants are allowed to have more than one profile for clients and servers. Each participant should create a unique profile ID for each client and server profile. The ID should identify the company name (a reasonable one-word name or acronym), 'CL' for client or 'SE' for server, and a number. For example, the server profile id for NGPL will be NGPL-SE-1, the 1st client profile id for NGPL will be NGPL-CL-1, and the 2nd client profile id for NGPL will be NGPL-CL-2.

When multiple server profiles will be used with one IP address, please specify the date and time each profile will take effect. If a server profile changes during the testing, please notify the coordinator of the revised profile with date and time as soon as possible after the change. If a client profile change must take place after testing has begun, please provide the testing coordinator with the revised profile and new

profile ID. Reference the ID of the revised profile in further testing.

The client profile must include the following information:

- Communication to Internet Service Provider
- Name of Internet Service Provider
- Processor, Memory, Model of PC
- PC Operating System
- HTTP Browser
- HTTP Custom Utility
- HTTP Language/Style
- TCP/IP Stack
- IP Address
- Other Machines Used and How

The server profile must include the following information:

- Communication to Internet Service Provider
- Name of Internet Service Provider
- Processor, Memory, Model of PC
- PC Operating System
- HTTP Server Software
- CGI Implementation
- TCP/IP Stack
- IP Address
- Other Machines Used and How

TEST RESULTS

Every participant must provide test results in the form of an electronic spreadsheet for each test. If you are using Lotus 1-2-3, save the spreadsheet with a ".WK1" file extension. If you are using Microsoft Excel, save the spreadsheet using the lowest version of Excel spreadsheet available in the 'Save As Filetype' list box (do not save as a 'workbook') and ensure that the file extension is "XLS". The information in the spreadsheet should be in the following format:

<i>A</i>	<i>B</i>	<i>C</i>
Client/Profile ID		
Test ID		
Server ID		
File Size		
Test Date		
Time-I		
Time-C		
Time-R		
Time-S		
Time-E		
Test Environment Factors		

Test pass/fail at client		
Test pass/fail at server		

Client/Profile ID: Client profile ID as defined earlier in this document.
 Test ID: Sequential number defined by the tester.
 Server ID: Server profile ID as defined earlier in this document which was the recipient.
 File Size: File Size of the X12 data included in the transfer
 Test Date: Date test is conducted
 Time-I: Initiation of transfer at client** (reported in CST)
 Time-C: Transfer is complete from client (reported in CST)
 Time-R: Receipt of response from server by client (reported in CST)
 Time-S: Start of receipt at server (CGI initiation) (reported in CST)
 Time-E: End of receipt at server ("TIMESTAMP") (reported in CST)
 Test Env. Factors: Notes of factors which may affect the test but are not included in the profile. Type the notes into one cell even though the spreadsheet will only display the first 15 characters or so. If you need to include more characters than the cell will hold, indicate a footnote and use cells after the end of results fields.
 Test pass/fail at client: Indicate pass or fail from your perspective as the client, ie was the file transferred successfully as far as I can tell?
 Test pass/fail at server: Indicate whether or not the server received the complete file. This may have to be filled in by the test coordinator at a later time.

** All time fields should be stated in 24-hour time, eg 2:00 pm is 14:00
 Also, please convert all times to Central Standard Time (CST)

TEST SCHEDULE

The test schedule is intended to provide a guideline for test participants. The daily schedule below identifies testing partners. The testing partners were identified to ensure that cross-country transfers are performed as well as transfers within Houston. Each testing partner should be transferring to the other partner so that both parties act as client and server. All test participants are encouraged to initiate additional transfers to additional servers and/or additional times as desired and submit the results.

Five testing intervals have been identified to ensure that transfers occur during off-peak, peak, and secondary peak network traffic hours, including network traffic across the public Internet as well as network traffic for gas industry business. Each test participant should initiate transfers as close to possible to these five intervals, plus random times as desired. Note that the times are stated in Central Standard Time (CST).

8:30 AM CST
 9:30 AM CST
 11:25 AM CST
 2:00 PM (14:00) CST
 4:30 PM (16:30) CST

June 17 - 24 Basic Connectivity and Binary Pair Testing, one file size.
 Each client will transfer the pre-defined 'smallnom.bin' file to the specified primary server, repeated three times, at each of the 5 test intervals on each day. Once transfer is determined to be successful with a server, add two or more additional server sites.

- June 24 - 28 Basic Connectivity and Binary Pair Testing, four file sizes.
Each client will transfer each of the four pre-defined nomination files to each of three specified servers, repeated three times, at each of the 5 test intervals on each day.
- July 1 - 3 Many to 1, all file sizes.
All clients will transfer each of the four pre-defined nomination files to each server requesting participation in the "many to 1" test, simulating an environment where many customers are transferring nominations to a pipeline. The transfers should occur at each of the 5 test intervals on each day and at least three transfers of each file size should be initiated. Each server to be involved in this test should be given to the test coordinator as soon as possible.
- July 4 - 5 Holiday - no coordinated testing
- July 8 - 12 1 to Many, all file sizes.
A specified group of clients send files to all other testing participants. The specified group of clients can be all participants, if all elect to do so. Repeat transfers of June 24 - 28 and/or testing as needed.
- July 15 Repeat transfers as desired.

Daily Schedule:

	<u>Primary Server</u>	<u>Secondary Server #1</u>	<u>Secondary Server #2</u>
June 17			
CNG	Altra	Southern Calif Gas	EIPaso
Altra	CNG	PGT	Tenneco
Enersoft	EIPaso	TransCapacity	Enron
EIPaso	Enersoft	CNG	PGT
EnergyTracs	Tenneco	NrG	NGPL
Enron	PGT	NGPL	Enersoft
GISB	PanEnergy	NGPL	Southern Calif Gas
KN Energy	TransCapacity	PanEnergy	NGPL
NGPL	Enron	GISB	EnergyTracs, KN Energy
NrG	Southern Calif Gas	Tenneco	EnergyTracs
PGT	Enron	Altra	EIPaso
PanEnergy	GISB	KN Energy	TransCapacity
SouthernCalif	NrG	GISB	CNG
Tenneco	EnergyTracs	Altra	NrG
TransCapacity	KN Energy	Enersoft	PanEnergy
June 18			
	repeat June 17		
June 19			
CNG	Enersoft	NrG	NGPL, Tenneco
Altra	GISB	Southern Calif Gas	EIPaso
Enersoft	CNG	KN Energy	Tenneco
EIPaso	NGPL	NrG	Altra
EnergyTracs	TransCapacity	Enron	KN Energy
Enron	NrG	PanEnergy	EnergyTracs
GISB	Altra	Tenneco	PGT
KN Energy	Southern Calif Gas	EnergyTracs	Enersoft
NGPL	EIPaso	PanEnergy	Southern Calif Gas, CNG
NrG	Enron	CNG	EIPaso

PGT	PanEnergy	TransCapacity	GISB
PanEnergy	PGT	Enron	NGPL
SouthernCalif	KN Energy	NGPL	Altra
Tenneco	TransCapacity	Enersoft	GISB, CNG
TransCapacity	EnergyTracs	Tenneco	PGT

June 20

repeat June 19

June 21

repeat June 19