

**Gas Industry Standards Board EBB Internet Implementation Task Force
Standards Recommended by the Task Force as of October 2, 1998**

		IN NUMBER ORDER		
#	Minutes Meeting Date	Group	Language	Review
1	14-Aug-98	s1	Internet protocols should be used for accessing all industry business functions.	9-11
2	14-Aug-98	s2	Web browser interface should use Internet compatible common browser software.	9-11
3	14-Aug-98	s3	Industry Web sites should be accessible via the public Internet using common browser software.	9-11
4	14-Aug-98	p1	Web site standards should not preclude various levels of user response and inter-activity. Minimum levels of user response or inter-activity should be developed.	9-11
4.2.8	3-Sep-98	d6	"Content Area" is the term used to describe the area containing the active data pertaining to the link selected in the Navigational Area. Where the Content Area is displayed simultaneously with the Navigational Area of the browser display, the Content Area should appear directly to the right of the Navigational Area. [This a recommended replacement of GISB Standard No. existing 4.2.8]	
4.2.A.i	20-Aug-98	d3	GISB EDI/EDM is the term used to describe ANSI ASC X12 computer-to-computer electronic data interchange of information in files as mapped from the x.4.x GISB standards in the GISB Implementation Guides and communicated between trading partners over the Internet using the GISB Electronic Delivery Mechanism.	9-11
4.3.A.ii.a	20-Aug-98	d4	GISB FF/EDM is the term used to describe a standardized flat file computer-to-computer electronic data interchange of information in files as mapped from the x.4.x GISB standards. GISB FF/EDM is communicated between trading partners over the Internet using the GISB Electronic Delivery Mechanism.	9-11
4.3.A.iii	20-Aug-98	d5	GISB EBB/EDM is the term used to describe the GISB standardized electronic interchange of information for Customer Activities Web site presentations. GISB EBB/EDM is communicated between trading partners over the Internet using the GISB Electronic Delivery Mechanism for GISB EBB/EDM.	9-11
4.3.A/L	17-Sep-98	s21	A Transportation Service Provider which determines to provide new features utilizing existing transaction sets via GISB EBB/EDM, for each transaction upon inception of support for such service, should: If GISB EDI/EDM or FF/EDM standards exist for the transaction set, provide the service via EDI/EDM, or FF/EDM or both, utilizing modifications defined by the Transportation Service Provider to the existing file structures; and, submit a request for modification or enhancement of the transaction set to GISB including details of the interim EBB/EDM, EDI/EDM and/or FF/EDM implementation.	

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4.3.O	3-Sep-98	p12	When standardized, all elements used in standard EBB/EDM, EDI/EDM and FF/EDM should be defined in the related GISB x.4.z standard. [An example and note are associated for illustrative purposes and can be found in the minutes.]		
4.3.Q	3-Sep-98	s22	Where a TSP utilizes a subset of available GISB code values for specific data elements for inbound documents to the TSP, the TSP should make available a list of the supported code values in a download utilizing a GISB electronic format.		
5	14-Aug-98	p2	Web site standards should not dictate or limit back-end development technology or systems. Industry Web sites should be accessible by a standard client configuration.		9-11
5A	14-Aug-98	d1	Standard" client configuration is the term used to describe the configuration that allows simultaneous access to multiple industry Web sites.		9-11
6	14-Aug-98	s4	Each implementation of a current proprietary business function category on EBBs should remain available until such time as that business function category is tested and implemented via a Customer Activities Web site.		
7A	17-Sep-98	s33	Providers of Customer Activities EBB/EDM sites should ensure that the site operates on the "Technical Characteristics of the Client Workstation" described in the appendix of the Electronic Delivery Mechanism Related Standards manual. This appendix, listing examples of hardware and software configurations that providers should meet, should be reviewed and updated by the Future Technology Task Force, at a minimum, by the spring of each year and presented to the GISB Executive Committee for adoption by the June meeting of that group.		
8A	17-Sep-98	s34	Access to the "Customer Activities" site should be protected by HTTP Basic Authentication or similar logon/password mechanism(s) using 40-bit encryption. A "Customer Activities" site should typically require a single logon/password pair for each user session.		
8B	17-Sep-98	s35	At a minimum, data communications for the "Customer Activities" sites should utilize 40 bit encryption. Where possible, 128 bit encryption is strongly recommended.		
8C	17-Sep-98	s36	Custom downloadable modules presented by a "Customer Activities" site should be signed by the author. The signatures on these modules should be communicated in advance to site users.		
8D	17-Sep-98	s37	In the Navigational Area of the Informational Postings Web Site, the navigational link for "Customer Activities" should appear directly above the navigational link for "Site Map."		

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9A	17-Sep-98	s38	Private network connections to GISB EDM* sites may be at any point on the TSP firewall boundary at the TSP's discretion on a non-discriminatory access basis. The specific type and speed of these connections should be mutually agreed. It is at the discretion of the TSPs on how multiple private network connections should be managed, so long as such management is done on a non-discriminatory access basis. TSPs are not responsible for any additional security exposures when using these private network connections. * This includes all GISB standardized Internet communication.		
10A	17-Sep-98	p15	Trading partners should maintain redundant connections to the public Internet for GISB EDM* sites. These redundant connections should be topographically diverse (duality of) paths to minimize the probability of a single point of failure. * This includes all GISB standardized Internet communication.		
12	14-Aug-98	p3	A standardized Web site navigational structure should be developed to provide access to business functions. The hierarchical relationship, structure and order for navigation on the Web site should be established in a standardized manner.		9-11
13	14-Aug-98	p4	Additional Informational Postings under Standard No. 4.3.6 which are not yet standardized for Web sites should be communicated over the Internet via a "common look and feel" standardized Web page.		9-11
14	14-Aug-98	s5	Standard navigation should be used to access all business functions on industry Web sites.		9-11
16	14-Aug-98	s6	Navigation through the industry Web site menus should be consistent for location and technique.		9-11
17	14-Aug-98	d2	"Customer Activities" is the term used to refer to the business function categories relating to Nominations, Flowing Gas, Invoicing, Capacity Release, Contracts and other business functions on industry Web sites.		9-11
19A	14-Aug-98	s7	The categories and the labels for Customer Activities Web sites should appear, if applicable, in the Navigational Area as follows: <ul style="list-style-type: none"> • Nominations • Flowing Gas • Invoicing • Capacity Release • Contracts • Informational Postings • Site Map Links supporting Mutually Agreeable categories should precede Informational Postings.		9-11

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20	14-Aug-98	s8	<p>The sub-categories and the labels for the category of Nominations should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Nomination • Nomination Quick Response • Request for Confirmation • Confirmation Response • Confirmation Response Quick Response • Scheduled Quantity • Scheduled Quantity for Operator <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11
21	14-Aug-98	s9	<p>The sub-categories and the labels for the category of Flowing Gas should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Pre-determined Allocation • Pre-determined Allocation Quick Response • Allocation • Shipper Imbalance • Measurement Information • Measured Volume Audit Statement <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11
23	14-Aug-98	s10	<p>The sub-categories and the labels for the category of Invoicing should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Transportation/Sales Invoice • Service Requester Level Charge/Allowance Invoice • Payment Remittance • Statement of Account <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11
24	14-Aug-98	s11	<p>The sub-categories and the labels for the category of Capacity Release should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Offers • Bids • Awards <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11

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				Language	
24A	14-Aug-98	s12	The sub-categories and the labels for the category of Contracts should appear, if applicable, in the Navigational Area as follows: <ul style="list-style-type: none"> • To be Determined Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.		9-11
26	14-Aug-98	p5	Customer Activities Web sites should be designed for ease of user interaction.		9-11
27	14-Aug-98	s13	A Customer Activities Web page may display information (data elements and code values) from multiple functionally related EDI datasets (i.e. nominated quantities and scheduled quantities may appear on the same Web screen).		9-11
28	14-Aug-98	p6	There should generally be a one-to-one relationship between data elements used for EDI and/or flat files and the data displayed on Customer Activities Web pages.		9-11
29	14-Aug-98	s14	GISB standard code value descriptions should be displayed for code values where appropriate.		9-11
30	14-Aug-98	p7	Standard field name descriptors or abbreviations, and navigation and functional screen layouts should be used on all Customer Activities Web pages. There should be no standards for font size, colors, etc. Functional screen layouts should be developed as standards which would divide each transactional screen into separate areas and define which data elements belong in each specific area.		9-11
32	20-Aug-98	s15	The Customer Activities Web site should include the name, nickname, or named abbreviation of the Transportation Service Provider in the browser title bar. The name of the business function should be displayed in the header.		9-11
33	20-Aug-98	s16	Where they exist for the same business function, flat files and EDI should use the same nomenclature for data set names, data element names, code values and/or code value descriptions, abbreviations and message text. Corresponding Web pages should use data set names, data element names, code value descriptions, abbreviations and message text that correspond to those used in flat files and EDI, where they exist.		9-11
34.3	20-Aug-98	p8	Information that is constant for the displayed Content Area may be placed in the page header.		9-11
34.5	20-Aug-98	p9	Data elements that have default values may be placed last to minimize scrolling.		9-11
34.7	20-Aug-98	s17	Totals, when appropriate, should be displayed within the Content Area of the Web page in a manner which distinguishes them from the data.		9-11
34.8	20-Aug-98	s18	Where navigation and/or processing functions exist for a Customer Activity, the Content Area should contain navigation in the header on the left and processing functions in the header on the right.		9-11

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34.9	20-Aug-98	s19	Navigation for input data lookups, if provided, should be placed near the field being looked up. Navigation for informational lookups, if provided, should be included in the header.	9-11
38	20-Aug-98	s20	GISB Common Codes for entity and location should be available for data validation or selection (viewing) on a Customer Activities Web site and in a standardized downloadable format for use by customer and third party service providers. Cross-references to proprietary codes may be provided on a mutually agreeable basis.	9-11
41	20-Aug-98	p10	As a general guideline, the initial phase of each business function category (of a multiple phase implementation) of "common look and feel" for Internet transactions that are not currently standardized should begin subsequent to the implementation of the currently standardized data sets to the Web. This does not preclude the implementation of new standardized data sets as they become available.	9-11
47	20-Aug-98	p11	There is displayed information on Customer Activities Web sites which does not have a comparable data element in EDI; however, the data (e.g. totals, reports, calculations) is derived from other EDI data elements. Provision of such information does not require the development of an EDI data set to accomplish a one-to-one match. However, any Customer Activities Web function should be derivable from information available in EDI data sets.	9-11
49	3-Sep-98	s23	With regard to Navigational Links on Customer Activities Web Sites, when using abbreviations, the following abbreviations should be used: [Please refer to the table in the appendix for the abbreviations]	
50A	3-Sep-98	s24	On the Nominations Web page for the Pathed Model Type, data should be organized in the content area in logical groupings. The logical groupings of data should be as follows: <ul style="list-style-type: none"> • Contract • Dates • Receipt • Delivery • Transaction Specific 	
51.1	3-Sep-98	s25	Flat Files should be ASCII comma separated value (.csv) format.	
51.2	3-Sep-98	p13	The content and usage of flat files should reasonably correspond to the GISB data sets used for GISB EDI/EDM.	
51.3	3-Sep-98	s26	Provisions to provide 'comment' rows within the flat file should be made. These rows should be ignored for processing purposes.	
51.4	3-Sep-98	s27	The order of elements within the flat file should be that identified within the standards.	
5.1.6	3-Sep-98	p14	If implemented, flat files should be exchanged via the GISB EDI/EDM site or Customer Activities Website.	

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51.8	3-Sep-98	s28	Each transaction (e.g. nomination) within a flat file should be represented by a single row layout.	
52	3-Sep-98	s29	Where display information on a Customer Activities site is derivable from data provided in a previous upload or download, the information should not be included in the EDI/EDM standards [or FF/EDM standard, for later consideration] that directly correspond to the EBB/EDM page being displayed	
53	17-Sep-98	s30	The industry should use common codes for location points and legal entities when communicating via EDI/EDM, EBB/EDM and/or FF/EDM. The corresponding common code name should also be used in EBB/EDM.	
54	17-Sep-98	d7	"Header" is the term used to describe the area at the top of the Content Area of the browser display.	
55	17-Sep-98	d8	"Detail" is the term used to describe the area directly below the Header in the Content Area of the browser display.	
57	17-Sep-98	s31	Customer Activities Web pages should support entry of the maximum length for valid data, however, display can be done in a manner to minimize left to right scrolling.	
58	17-Sep-98	s32	On Customer Activities Web pages , informational display fields can be displayed with related data.	
59	17-Sep-98	i1	Data Grouping for Nomination Transaction for all models	
60	1-Oct-98	d9	"Form" is the term used to describe the portion of the Content Area of the nominations browser display on Customer Activities Web sites used for single transaction entry as well as, optionally, data selection. The "Form" should be either in the upper portion of the nominations Content Area or alternatively a single page linked to the "Matrix".	
61	1-Oct-98	d10	"Matrix" is the term used to describe the portion of the content area of the nominations browser display on the Customer Activities Web sites used to display selected nominations and/or nominations entered on the "Form" and, optionally, for data entry. The "Matrix" should be either the lower portion of the nominations Content Area (that area below the "Form") or, alternatively, a single page linked to the "Form".	
62	1-Oct-98	s39	On Customer Activities Web sites, nominations data entry should be available on the "Form" and the Transportation Service Provider may also provide for nominations data entry on the "Matrix".	
63	1-Oct-98	i1	Data Grouping for Nomination Transaction for all models (revised)	

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64	1-Oct-98	s40	<p>On the nominations entry screen, data should be organized in logical groupings as defined in the Data Dictionary. The initial data element should be:</p> <table border="0"> <tr> <td style="text-align: center;"><u>DATA GROUP</u></td> <td style="text-align: center;"><u>INITIAL ELEMENT</u></td> </tr> <tr> <td>• Business Entity Provider</td> <td>Transportation Service</td> </tr> <tr> <td>• Contracts</td> <td>Service Requester Contract</td> </tr> <tr> <td>• Date</td> <td>Beginning date</td> </tr> <tr> <td>• Location</td> <td>Receipt Location</td> </tr> <tr> <td>• Receipt</td> <td>Receipt Location</td> </tr> <tr> <td>• Delivery</td> <td>Delivery Location</td> </tr> <tr> <td>• Transaction Specific</td> <td>Transaction Type</td> </tr> </table>	<u>DATA GROUP</u>	<u>INITIAL ELEMENT</u>	• Business Entity Provider	Transportation Service	• Contracts	Service Requester Contract	• Date	Beginning date	• Location	Receipt Location	• Receipt	Receipt Location	• Delivery	Delivery Location	• Transaction Specific	Transaction Type	
<u>DATA GROUP</u>	<u>INITIAL ELEMENT</u>																			
• Business Entity Provider	Transportation Service																			
• Contracts	Service Requester Contract																			
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• Receipt	Receipt Location																			
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65	1-Oct-98	s41	In the Form area of the nominations entry screen, the data groups should appear in the following order: Business Entity, Contract, Date, Receipt, Delivery and Transaction Specific.																	
66	1-Oct-98	s42	The Transportation Service Provider's Customer Activities Web Site should include the name, nickname, or name abbreviation of the Parent Company and/or Transportation Service Provider so that it will appear first in the browser title bar.																	
67	1-Oct-98		Withdrawn -- to be considered on 10/16/98.																	
68	1-Oct-98	s43	Columns and data fields that would contain data not supported by the Transportation Service Provider should be eliminated on display and/or entry, and left empty on download. [REPLACEMENT TO GISB STANDARD NO. 4.3.34]																	
69	1-Oct-98	s44	When the nominations form and the nominations matrix for the Customer Activities Web site are separate Web pages, a subset of the form may be included by the Transportation Service Provider in the upper content area of the matrix page.																	
70	1-Oct-98	i1	In the Nomination Data Dictionary Usage For All Model Types, remove the location group and all references to it.																	

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60	1-Oct-98	d9	"Form" is the term used to describe the portion of the Content Area of the nominations browser display on Customer Activities Web sites used for single transaction entry as well as, optionally, data selection. The "Form" should be either in the upper portion of the nominations Content Area or alternatively a single page linked to the "Matrix".	
61	1-Oct-98	d10	"Matrix" is the term used to describe the portion of the content area of the nominations browser display on the Customer Activities Web sites used to display selected nominations and/or nominations entered on the "Form" and, optionally, for data entry. The "Matrix" should be either the lower portion of the nominations Content Area (that area below the "Form") or, alternatively, a single page linked to the "Form".	

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63	1-Oct-98	i1	Data Grouping for Nomination Transaction for all models (revised)	
70	1-Oct-98	i1	In the Nomination Data Dictionary Usage For All Model Types, remove the location group and all references to it. (revised)	
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23	14-Aug-98	s10	<p>The sub-categories and the labels for the category of Invoicing should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Transportation/Sales Invoice • Service Requester Level Charge/Allowance Invoice • Payment Remittance • Statement of Account <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11
24	14-Aug-98	s11	<p>The sub-categories and the labels for the category of Capacity Release should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • Offers • Bids • Awards <p>Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.</p>	9-11

**Gas Industry Standards Board EBB Internet Implementation Task Force
Standards Recommended by the Task Force as of October 2, 1998**

IN GROUP ORDER				
#	Minutes Meeting Date	Group	Language	Review
24A	14-Aug-98	s12	The sub-categories and the labels for the category of Contracts should appear, if applicable, in the Navigational Area as follows: <ul style="list-style-type: none"> • To be Determined Links supporting Mutually Agreeable sub-categories will follow these links. This does not preclude a further breakdown of sub-sub-categories within each sub-category from being listed in the Navigational Area.	9-11
27	14-Aug-98	s13	A Customer Activities Web page may display information (data elements and code values) from multiple functionally related EDI datasets (i.e. nominated quantities and scheduled quantities may appear on the same Web screen).	9-11
29	14-Aug-98	s14	GISB standard code value descriptions should be displayed for code values where appropriate.	9-11
32	20-Aug-98	s15	The Customer Activities Web site should include the name, nickname, or named abbreviation of the Transportation Service Provider in the browser title bar. The name of the business function should be displayed in the header.	9-11
33	20-Aug-98	s16	Where they exist for the same business function, flat files and EDI should use the same nomenclature for data set names, data element names, code values and/or code value descriptions, abbreviations and message text. Corresponding Web pages should use data set names, data element names, code value descriptions, abbreviations and message text that correspond to those used in flat files and EDI, where they exist.	9-11
34.7	20-Aug-98	s17	Totals, when appropriate, should be displayed within the Content Area of the Web page in a manner which distinguishes them from the data.	9-11
34.8	20-Aug-98	s18	Where navigation and/or processing functions exist for a Customer Activity, the Content Area should contain navigation in the header on the left and processing functions in the header on the right.	9-11
34.9	20-Aug-98	s19	Navigation for input data lookups, if provided, should be placed near the field being looked up. Navigation for informational lookups, if provided, should be included in the header.	9-11
38	20-Aug-98	s20	GISB Common Codes for entity and location should be available for data validation or selection (viewing) on a Customer Activities Web site and in a standardized downloadable format for use by customer and third party service providers. Cross-references to proprietary codes may be provided on a mutually agreeable basis.	9-11

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IN GROUP ORDER				
#	Minutes Meeting Date	Group	Language	Review
4.3.A/L	17-Sep-98	s21	A Transportation Service Provider which determines to provide new features utilizing existing transaction sets via GISB EBB/EDM, for each transaction upon inception of support for such service, should: If GISB EDI/EDM or FF/EDM standards exist for the transaction set, provide the service via EDI/EDM, or FF/EDM or both, utilizing modifications defined by the Transportation Service Provider to the existing file structures; and, submit a request for modification or enhancement of the transaction set to GISB including details of the interim EBB/EDM, EDI/EDM and/or FF/EDM implementation.	
4.3.Q	3-Sep-98	s22	Where a TSP utilizes a subset of available GISB code values for specific data elements for inbound documents to the TSP, the TSP should make available a list of the supported code values in a download utilizing a GISB electronic format.	
49	3-Sep-98	s23	With regard to Navigational Links on Customer Activities Web Sites, when using abbreviations, the following abbreviations should be used: [Please refer to the table in the appendix for the abbreviations]	
50A	3-Sep-98	s24	On the Nominations Web page for the Pathed Model Type, data should be organized in the content area in logical groupings. The logical groupings of data should be as follows: <ul style="list-style-type: none"> • Contract • Dates • Receipt • Delivery • Transaction Specific 	
51.1	3-Sep-98	s25	Flat Files should be ASCII comma separated value (.csv) format.	
51.3	3-Sep-98	s26	Provisions to provide 'comment' rows within the flat file should be made. These rows should be ignored for processing purposes.	
51.4	3-Sep-98	s27	The order of elements within the flat file should be that identified within the standards.	
51.8	3-Sep-98	s28	Each transaction (e.g. nomination) within a flat file should be represented by a single row layout.	
52	3-Sep-98	s29	Where display information on a Customer Activities site is derivable from data provided in a previous upload or download, the information should not be included in the EDI/EDM standards [or FF/EDM standard, for later consideration] that directly correspond to the EBB/EDM page being displayed	
53	17-Sep-98	s30	The industry should use common codes for location points and legal entities when communicating via EDI/EDM, EBB/EDM and/or FF/EDM. The corresponding common code name should also be used in EBB/EDM.	

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IN GROUP ORDER				
#	Minutes Meeting Date	Group	Language	Review
57	17-Sep-98	s31	Customer Activities Web pages should support entry of the maximum length for valid data, however, display can be done in a manner to minimize left to right scrolling.	
58	17-Sep-98	s32	On Customer Activities Web pages , informational display fields can be displayed with related data.	
7A	17-Sep-98	s33	Providers of Customer Activities EBB/EDM sites should ensure that the site operates on the "Technical Characteristics of the Client Workstation" described in the appendix of the Electronic Delivery Mechanism Related Standards manual. This appendix, listing examples of hardware and software configurations that providers should meet, should be reviewed and updated by the Future Technology Task Force, at a minimum, by the spring of each year and presented to the GISB Executive Committee for adoption by the June meeting of that group.	
8A	17-Sep-98	s34	Access to the "Customer Activities" site should be protected by HTTP Basic Authentication or similar logon/password mechanism(s) using 40-bit encryption. A "Customer Activities" site should typically require a single logon/password pair for each user session.	
8B	17-Sep-98	s35	At a minimum, data communications for the "Customer Activities" sites should utilize 40 bit encryption. Where possible, 128 bit encryption is strongly recommended.	
8C	17-Sep-98	s36	Custom downloadable modules presented by a "Customer Activities" site should be signed by the author. The signatures on these modules should be communicated in advance to site users.	
8D	17-Sep-98	s37	In the Navigational Area of the Informational Postings Web Site, the navigational link for "Customer Activities" should appear directly above the navigational link for "Site Map."	
9A	17-Sep-98	s38	Private network connections to GISB EDM* sites may be at any point on the TSP firewall boundary at the TSP's discretion on a non-discriminatory access basis. The specific type and speed of these connections should be mutually agreed. It is at the discretion of the TSPs on how multiple private network connections should be managed, so long as such management is done on a non-discriminatory access basis. TSPs are not responsible for any additional security exposures when using these private network connections. * This includes all GISB standardized Internet communication.	
62	1-Oct-98	s39	On Customer Activities Web sites, nominations data entry should be available on the "Form" and the Transportation Service Provider may also provide for nominations data entry on the "Matrix".	

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IN GROUP ORDER																				
#	Minutes Meeting Date	Group	Language	Review																
64	1-Oct-98	s40	<p>On the nominations entry screen, data should be organized in logical groupings as defined in the Data Dictionary. The initial data element should be:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"><u>DATA GROUP</u></td> <td style="width: 50%;"><u>INITIAL ELEMENT</u></td> </tr> <tr> <td>Business Entity</td> <td>Transportation Service Provider</td> </tr> <tr> <td>Contracts</td> <td>Service Requester Contract</td> </tr> <tr> <td>Date</td> <td>Beginning date</td> </tr> <tr> <td>Location</td> <td>Receipt Location</td> </tr> <tr> <td>Receipt</td> <td>Receipt Location</td> </tr> <tr> <td>Delivery</td> <td>Delivery Location</td> </tr> <tr> <td>Transaction Specific</td> <td>Transaction Type</td> </tr> </table>	<u>DATA GROUP</u>	<u>INITIAL ELEMENT</u>	Business Entity	Transportation Service Provider	Contracts	Service Requester Contract	Date	Beginning date	Location	Receipt Location	Receipt	Receipt Location	Delivery	Delivery Location	Transaction Specific	Transaction Type	
<u>DATA GROUP</u>	<u>INITIAL ELEMENT</u>																			
Business Entity	Transportation Service Provider																			
Contracts	Service Requester Contract																			
Date	Beginning date																			
Location	Receipt Location																			
Receipt	Receipt Location																			
Delivery	Delivery Location																			
Transaction Specific	Transaction Type																			
65	1-Oct-98	s41	In the Form area of the nominations entry screen, the data groups should appear in the following order: Business Entity, Contract, Date, Receipt, Delivery and Transaction Specific.																	
66	1-Oct-98	s42	The Transportation Service Provider's Customer Activities Web Site should include the name, nickname, or name abbreviation of the Parent Company and/or Transportation Service Provider so that it will appear first in the browser title bar.																	
68	1-Oct-98	s43	Columns and data fields that would contain data not supported by the Transportation Service Provider should be eliminated on display and/or entry, and left empty on download. [REPLACEMENT TO GISB STANDARD NO. 4.3.34]																	
69	1-Oct-98	s44	When the nominations form and the nominations matrix for the Customer Activities Web site are separate Web pages, a subset of the form may be included by the Transportation Service Provider in the upper content area of the matrix page.																	

**Gas Industry Standards Board EBB Internet Implementation Task Force
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Appendix

Abbreviation Table for Recommended Standard 49

Full Name	Abbreviation
Customer Activities	Customer Activities
Nominations	Nominations
Flowing Gas	Flowing Gas
Invoicing	Invoicing
Capacity Release	Capacity Release
Contracts	Contracts
Informational Postings	Info Postings
Site Maps	Site Maps
Nomination Area	Nominations
Nomination	Nom
Nomination Quick Response	Nom QR
Request for Confirmation	Req for Conf
Confirmation Response	Conf Resp
Confirmation Response Quick Response	Conf Resp QR
Scheduled Quantity	Sched Qty
Scheduled Quantity	Sched Qty Oper
Flowing Gas Area	Flowing Gas
Pre-determined Allocation	PDA
Pre-determined Allocation Quick Response	PDA QR
Allocation	Allocation
Shipper Imbalance	Shipper Imbal
Measurement Information	Meas Info
Measured Volume Audit Statement	Meas Vol Audit
Invoicing Area	Invoicing
Invoice	Invoice
Service Requester Level Charge/Allowance Invoice	Svc Req Invc
Payment Remittance	Pmt Remit
Statement of Account	Stmt of Acct
Capacity Release Area	Capacity Release
Offers	Offers
Bids	Bids
Awards	Awards
Contracts Area	Contracts

Implementation Guide Recommendations -- September 17, 1998
Amended October 1, 1998

Implementation Guide Content under Customer Activities Sites

Minimum Technical Characteristics of the Client Workstation

Configuration* Description:

Hardware:

CPU >= 166 MHz

Memory >= 64 MB Physical

Display Resolution >= 800 x 600

Operating Systems:

Multi-threaded and preemptive

Connection:

>=56KB (V90)

Browser Characteristics (includes defined GISB current versions):

Features as supported by both Netscape®¹ v4.06 and Internet Explorer®² v4.0 sp1 including:

- Frames and nested frames
 - Tables and nested tables
 - Style Sheets
 - HTML
 - Cookies
 - JavaScript
 - SSL®³ (40 Bit RSA)
-
- JAVA®⁴ 1.1.6 Sun®⁴ JDK (plug-in)
 - ActiveX®² (Plug-in for Netscape®¹)
 - ICA®⁵ v4 (Plug-in)

*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.

¹ Netscape® is a registered trademark of Netscape Communications Corp.
² Internet Explorer® and ActiveX® are registered trademarks of Microsoft Corporation.
³ SSL® is a registered trademark of Solid State Logic Limited.
⁴ JAVA® and Sun® are registered trademarks of Sun Microsystems, Inc.
⁵ ICA® is a registered trademark of Citrix Systems, Inc.

Implementation Guide Recommendations -- September 17, 1998
Amended October 1, 1998

Example Configurations of Client for Accessing Customer Activities Sites⁶

EXAMPLES BELOW REPRESENT A NON-COMPREHENSIVE SET OF CONFIGURATIONS WHICH 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 MAY BE USED.

Hardware:

CPU: P166 MHz or higher
Memory >= 64 MB Physical
Display Resolution >= 800 x 600
Pointing Device with left and right click capability

Operating Systems:

Windows^{®7} 95
Windows^{®7} 98
Windows^{®7} NT 4.0 service pack 3

Connection:

56KB (V90) modem
ISDN
Direct Connect (T1, Fractional T1...)

Browser:

Netscape^{®8} Communicator/Navigator v4.06
Microsoft Internet Explorer^{®9} v4.0 service pack 1

Plug-ins:

JAVA^{®10} 1.1.6 Sun JDK (Activator)
ActiveX^{®9} (Plug-in for Netscape)
ICA^{®11} v4 (Plug-in)

SPECIFIC PRODUCTS SHOULD BE REVIEWED PRIOR TO IMPLEMENTATION FOR YEAR 2000 COMPLIANCE.

⁶ **Note to EII Task Force from the Future Technology Task Force (9/11/98):**

There is still a review of port numbers possibly needed to be opened on the client-side for certain protocols to be used. We want to arrive at a limited list on which users may rely to be able to access many TSP sites. Along with this, will be some other firewall administration notes addressing items such as applets. We intend to complete this draft in our October FTTF meeting.

⁷ Windows[®] is a registered trademark of Microsoft Corporation.

⁸ Netscape[®] is a registered trademark of Netscape Communications Corp.

⁹ Internet Explorer[®] and ActiveX[®] are registered trademarks of Microsoft Corporation.

¹⁰ JAVA[®] is a registered trademark of Sun Microsystems. Inc.

¹¹ ICA[®] is a registered trademark of Citrix Systems, Inc.

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Implementation Guide Content under Security for Customer Activities Sites

THE LIST OF PRODUCTS BELOW REPRESENT A NON-COMPREHENSIVE SET WHICH A CLIENT MAY USE. THIS 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 MAY BE USED.

[The GISB Future Technology Task Force will review this on an annual basis during the version check cycle.]

Minimum

40 bit* SSL® or 40 bit* RSA JAVA®¹² communications or 40 bit* Secure ICA®¹³

*128 bit encryption is strongly recommended where possible.

SPECIFIC PRODUCTS SHOULD BE REVIEWED PRIOR TO IMPLEMENTATION FOR YEAR 2000 COMPLIANCE.

¹² JAVA® is a registered trademark of Sun Microsystems. Inc.

¹³ ICA® is a registered trademark of Citrix Systems, Inc.

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Implementation Guide Content under Redundancy

**In this context redundancy refers to normal operations redundancy (as opposed to disaster recovery contingencies).*

Customer Activities Sites

Users and providers should consider but not be limited to the following possibilities to achieve redundant connectivity:

1. Multiple dial-up connections
2. Multiple leased line connections
3. Multiple Internet service providers
4. Combinations of the above
5. Geographically diverse connections
6. Topographically diverse connections; i.e., connections which result in Internet pathways that do not pass through a single point/service/router
7. Multiple power sources for network equipment

Items 1-5 are potential means of achieving the defining characteristic of item 6. The intent is to eliminate the possibility of a single point of failure.

EDI/EDM Sites

Three possible approaches are:

1. Maintain multiple ISPs and multiple points of connectivity, each of which was identified by the same URL making the process of redundancy transparent to the sender.
2. Maintain different Internet connectivity URLs (presumably on topographically different ISPs). For this to result in communication redundancy, the sender should know of the existence of the secondary URL and have programming in place that will automatically switch batch-browser transmissions to the secondary URL when the primary URL is unavailable.
3. Maintain multiple connections to the same ISP. This involves only one URL but the presumption would be that the ISP would provide alternate diverse paths for the URL.

Receivers may maintain multiple URLs and, if such have been disclosed, the sender should attempt to use these during primary URL outages. The redundant public Internet connections can be through a single ISP or multiple ISPs.

If multiple URLs are provided for EDM access, the following conditions should be met:

1. The information provided by each URL should be exactly the same, although trans-ids can be different.
2. The trading partners should be informed of both URLs and their availability by system wide notice or by TPA.

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Implementation Guide Content under Redundancy (Continued)

The URLs should be identified as primary and secondary if either:

1. There is a TSP connection speed difference between the URLs (The faster connection listed as primary).

or

2. One URL is only available when the other is down (primary URL being the most available).

The URLs should be listed as primary and alternate if:

1. The URLs have the same TSP connection speed.

and

2. The URLs are customarily available simultaneously.

Note: A URL is considered available (in the context of communication redundancy) if all the IP facilities are properly functioning up to and including the HTTP service. This would include any TSP provided facilities including firewalls, DNS servers, routers, hubs, LANs, etc. that are between the TSP's HTTP server and the ISP's point of presence.

NOMINATION DATA DICTIONARY
Usage for ALL MODEL TYPES
Amended October 2, 1998

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
Associated Contract	Associated contract that provides the rights or information needed to process a transaction with respect to a service requester's contract.	TSDG	TSDG	TSDG	MA	MA	MA	
Beginning Date	This is the date that a transaction is to be initiated. It includes the century.	DDG	DDG	DDG	M	M	M	
Beginning Time	This is the time that a transaction is to be initiated.	DDG	DDG	DDG	BC	BC	BC	Used where Transportation Service Providers support a Beginning Time in Nominations.
Bid Transportation Rate	This field reflects the rate under which the shipper is requesting service.	TSDG	TSDG	TSDG	BC	BC	BC	For Nomination - required by transportation service providers that offer services where shippers are allowed to nominate a different rate and then receive a different priority in the scheduling of this capacity. The capacity is 're-tendered' daily under blanket contracts and several prices may be nominated under the same contract over an identical time period.
Capacity Type Data	Type of capacity being requested. For example: primary to primary, secondary to secondary, primary to secondary, secondary to primary, interruptible.	TSDG	TSDG	TSDG	MA	MA	MA	
Capacity Type Indicator					O1	MA	MA	
Capacity Type Name					O1	N/U	N/U	
Deal Type	A Transportation Service Provider supplied identifier which allows the Service Requester to specify the specific transportation arrangement	TSDG	TSDG	TSDG	MA	MA	MA	Used if the Transportation Service Provider offers the ability for different arrangements under a contract and receipt/delivery.

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
	under a contract and receipt/delivery. The transportation arrangements may vary in terms of rates, volume commitments, fuel requirements or other terms offered by the Transportation Service Provider.							
Delivery Location Data		DelDG	DelDG	DelDG	C	C	C	For Nomination - based on Model Type and Transaction Type. Required if Pathed or Pathed Non-Threaded Model - Threaded Segment. If Non-Pathed Model or Pathed Non-Threaded Model- Unthreaded Segment, either Receipt or Delivery Location is required.
Delivery Location*	The location where the quantity will be scheduled for delivery by the Transportation Service Provider.				C1/O1	C1	C1	
Delivery Location Name					O/O1	N/U	N/U	
Delivery Location Proprietary Code					O/O1	C1	C1	
Delivery Rank (Priority)	This is the scheduling rank (priority) assigned to the quantities on the upstream side of the flange at the delivery location. Priority 1 means the highest priority. Priorities 2, 3, etc. are in descending order of priority. Quantities assigned the same rank will be scheduled on a pro rata basis.	DelDG	DelDG	DelDG	C	C	C	Sender's option when the model used is 'Pathed', 'Non-Pathed' or 'Pathed Non-Threaded - Pathed Segment'. If not provided, a default specified by the service provider will be utilized.
Downstream Contract Identifier	This field identifies the contract of the party who is receiving the quantities from the service requester.	DelDG	DelDG	DelDG	BC	BC	BC	For Nomination, Scheduled Quantities, Request for Confirmation and Confirmation Response - This field is used by transportation service providers who confirm by contract at custody transfer locations (e.g. pipeline to pipeline interconnects, pooling points, logical points).
Downstream Identifier		DelDG	DelDG	DelDG	C	C	C	For Nomination - based on Model Type

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
Data								and Delivery Location. Required if Model Type is Pathed. If Delivery Location is present, required for Non-Pathed Model and Pathed Non-Threaded Model - Unthreaded Segment. Will not be used for the Pathed Non-Threaded Model - Threaded Segment.
Downstream Identifier Code*	This field identifies the party who is receiving the quantities from the service requester.				C/O1	C	C	
Downstream Entity Name					O/O1	N/U	N/U	
Downstream Package ID	Service Requester assigned identifier which corresponds to the Package ID on the downstream Transportation Service Provider.	DeIDG	DeIDG	N/A	MA	MA	MA	This data element is not used for the Pathed Non-Threaded Model Type.
Downstream Rank (Priority)	This is the scheduling rank (priority) assigned to the quantities on the downstream side of the delivery location. If it is a physical location, it can be thought of as the downstream side of the flange. Priority 1 means the highest priority. Priorities 2, 3, etc. are in descending order of priority. Quantities assigned the same rank will be scheduled on a pro rata basis.	DeIDG	DeIDG	DeIDG	C	C	C	Sender's option when the model used is 'Pathed Non-Threaded - Unthreaded Segment' and may be mutually agreed to for 'Pathed' or 'Non-Pathed' models.
Ending Date	This is the last date that the transaction is to finish. It includes the century.	DDG	DDG	DDG	M	M	M	
Ending Time	This is the time at which the transaction is to finish. If the Ending Time is not sent, the time defaults to the end of the gas day.	DDG	DDG	DDG	M	M	M	
Model Type Data	This field identifies the type of nomination structure being used. Types are: Pathed, Non-Pathed and Pathed Non-Threaded.	CDG	CDG	CDG	O	M	M	
Model Type					O	M	M	
Model Type					O	N/U	N/U	

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
Name								
Nominator's Tracking ID	This is created by the originator of the process. It is line item specific and is used by the originator of the process to tie quick response and scheduled quantities to nominations. It is not validated by the receiver of the process nor is it a key in the receiver of the process' database. The receiver of the process will not track this identifier but merely echo it back in the response document. This identifier is used for EDI only and will not be utilized on added to EBBs. This data element contains alpha-numeric data.	N/A	N/A	N/A	N/U	M	M	
Package ID	Service Requester assigned identifier used to differentiate between discrete business transactions.	TSDG	TSDG	TSDG	SO	SO	SO	
Quantity Data	The amount expressed is a quantity per gas day in standard units.	N/A	N/A	N/A	M	M	M	
Quantity		N/A	N/A	N/A	N/U	M	M	
Delivered Quantity	The quantity to be delivered.	DelDG	DelDG	DelDG	O1	MA	MA	This quantity may be used when the Quantity Type = 'R (Receipt)' and the quantity specified in the Quantity data element is the receipt quantity. This element is only used on the Pathed Model and the Threaded Segment of the Pathed Non-Threaded Model.
Receipt Quantity		RDG	RDG	RDG	O1	N/U	N/U	
Quantity Type Indicator	This element indicates which quantity (the receipt, delivery or both) is kept whole for fuel calculation purposes.	TSDG	TSDG	TSDG	M	M	M	Note: Value can be implied by which field the quantity is entered in.
Receipt Location Data		RDG	RDG	RDG	C	C	C	For Nomination - based on Model Type and Transaction Type. Required if Pathed or Pathed Non-Threaded Model - Threaded Segment. If Non-Pathed Model or Pathed Non-Threaded Model- Unthreaded Segment, either Receipt

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
								or Delivery Location is required.
Receipt Location*	The location where the quantity will be scheduled for receipt by the transportation service provider.				C1/O1	C1	C1	O1 - At least one is required C1 - Based on model type, send common code if available O - Display is optional
Receipt Location Name					O/O1	N/U	N/U	
Receipt Location Proprietary Code					O/O1	C1	C1	
Receipt Rank (Priority)	This is the scheduling rank (priority) assigned to the quantities on the downstream side of the flange at the receipt location. Priority 1 means the highest priority. Priorities 2, 3, etc. are in descending order of priority. Quantities assigned the same rank will be scheduled on a pro rata basis.	RDG	RDG	RDG	C	C	C	Sender's option when the model used is 'Pathed', 'Non-Pathed' or 'Pathed Non-Threaded - Pathed Segment'. If not provided, a default specified by the service provider will be utilized.
Service Provider's Activity Code	Service provider's code for the activity requested by service requester.	TSDG	TSDG	TSDG	MA	MA	MA	
Service Requester Data	Identifies the party requesting the service, or their agent.	BEDG	BEDG	BEDG	M	M	M	
Service Requester*					M/O1	M	M	
Service Requester Name					O/O1	N/U	N/U	
Service Requester Contract	This is the contract under which service is being requested.	CDG	CDG	CDG	M	M	M	
Time Stamp	Date and time when data left control of the Service Requester.	TSDG	TSDG	TSGD	O	M	M	
Transaction Type Data	This field identifies the specific type of transaction. This field will be populated with GISB approved transaction types. For example: authorized overrun, imbalance payback to pipeline, imbalance	TSDG	TSDG	TSGD	M	M	M	

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
	payback from pipeline, plant thermal reduction, current business, pooling, injection, withdrawal. The default value is current business.							
Transaction Type					O1	M	M	
Transaction Type Description					O1	N/U	N/U	
Transportation Service Provider Data	Identifies the party providing the requested service.	BEDG	BEGD	BEDG	M	M	M	
Transportation Service Provider*					M/O	M	M	
Transportation Service Provider Name					M	N/U	N/U	Note: TSP name in the title bar can satisfy this data requirement.
Upstream Contract Identifier	This field identifies the contract of the party who is supplying the quantities to the service requester.	RDG	RDG	RDG	BC	BC	BC	For Nomination - This field is used by transportation service providers who confirm by contract at custody transfer locations (e.g. pipeline to pipeline interconnects, pooling points, logical points).
Upstream Identifier Data		RDG	RDG	RDG	C	C	C	For Nomination - based on Model Type and Receipt Location. Required if Model Type is Pathed. If Receipt Location is present, required for Non-Pathed Model and Pathed Non-Threaded Model - Unthreaded Segment. Will not be used for the Pathed Non-Threaded Model - Threaded Segment.
Upstream Identifier Code*	This field identifies the party who is supplying the quantities to the service requester.				C/O1	C	C	
Upstream Entity Name					O/O1	N/U	N/U	This data element is not used for the Pathed Non-Threaded Model Type.
Upstream Package ID	Service Requester assigned identifier which corresponds to the Package ID on the upstream Transportation	RDG	RDG	N/U	MA	MA	MA	

Business Name / Abbreviation	Definition	Group Pathed	Group NP	Group PNT	EBB Usage	EDI Usage	FF Usage	Condition
	Service Provider.							
Upstream Rank (Priority)	This is the scheduling rank (priority) assigned to the quantities on the upstream side of the receipt location. It can be thought of as the upstream side of the flange. Priority 1 means the highest priority. Priorities 2, 3, etc. are in descending order of priority. Quantities assigned the same rank will be scheduled on a pro rata basis.	RDG	RDG	RDG	C	C	C	Sender's option when the model used is 'Pathed Non-Threaded - Unthreaded Segment' and may be mutually agreed to for 'Pathed' or 'Non-Pathed' models.

*Indicates Common Code

O1 - At least one is required

C1 - Based on model type, send common code if available

O - Display is optional

Purple (violet?) highlighted data usage is dependent upon whether common codes always have to be sent/displayed, or whether names can take the place of common codes on EBBs. If the latter is true, the non-highlighted conditions can be used.

CDG - Contracts Data Group

DDG - Dates Data Group

RecDG - Receipt Data Group

DelDG - Delivery Data Group

TSDG - Transaction Specific data group

BEDG - Business Entity Data Group