

**Gas Industry Standards Board EBB Internet Implementation Task Force
Standards Recommended by the Task Force as of September 18, 1998**

#	Minutes Meeting Date	Group	IN NUMBER ORDER		Review
			Language		
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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#	Minutes Meeting Date	Group	Language	Review
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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		IN NUMBER 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	
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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#	Minutes Meeting Date	Group	Language	Review
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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#	Minutes Meeting Date	Group	Language	Review
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	

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#	Minutes Meeting Date	Group	Language	Review
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
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
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
4.2.8	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]	
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.	
59	17-Sep-98	i1	Data Grouping for Nomination Transaction for all models	
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
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
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

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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
26	14-Aug-98	p5	Customer Activities Web sites should be designed for ease of user interaction.	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
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
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
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
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.]	
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.	
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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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.	
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
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.	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
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: Nominations Flowing Gas Invoicing Capacity Release Contracts Informational Postings Site Map Links supporting Mutually Agreeable categories should precede Informational Postings.	9-11
20	14-Aug-98	s8	The sub-categories and the labels for the category of Nominations should appear, if applicable, in the Navigational Area as follows: Nomination Nomination Quick Response Request for Confirmation Confirmation Response Confirmation Response Quick Response Scheduled Quantity Scheduled Quantity for Operator 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

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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
24A	14-Aug-98	s12	<p>The sub-categories and the labels for the category of Contracts should appear, if applicable, in the Navigational Area as follows:</p> <ul style="list-style-type: none"> • To be Determined <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
27	14-Aug-98	s13	<p>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).</p>	9-11
29	14-Aug-98	s14	<p>GISB standard code value descriptions should be displayed for code values where appropriate.</p>	9-11

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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
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]	

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			Language		
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.		
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.		

**Gas Industry Standards Board EBB Internet Implementation Task Force
Standards Recommended by the Task Force as of September 18, 1998**

IN GROUP ORDER				
#	Minutes Meeting Date	Group	Language	Review
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.	

**Gas Industry Standards Board EBB Internet Implementation Task Force
Standards Recommended by the Task Force as of September 18, 1998**

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

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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 v4.06 and Internet Explorer v4.0 sp1 including:

- Frames and nested frames
- Tables and nested tables
- Style Sheets
- HTML
- Cookies
- JavaScript
- SSL (40 Bit RSA)

-
- Java 1.1.6 Sun JDK (plug-in)
 - ActiveX (Plug-in for Netscape)
 - ICA 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.

Implementation Guide Recommendations -- September 17, 1998

Example Configurations of Client for Accessing Customer Activities Sites¹

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 95
Windows 98
Windows NT 4.0 service pack 3

Connection:

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

Browser:

Netscape Communicator/Navigator v4.06
Microsoft Internet Explorer v4.0 service pack 1

Plug-ins:

Java 1.1.6 Sun JDK (Activator)
ActiveX (Plug-in for Netscape)
ICA v4 (Plug-in)

[THE ABOVE TECHNICAL CHARACTERISTICS AND EXAMPLES WILL BE REVIEWED FOR TRADEMARK, COPYRIGHT AND OTHER LEGAL CONSIDERATION PRIOR TO NOTICE FOR INDUSTRY COMMENT.] SPECIFIC PRODUCTS SHOULD BE REVIEWED PRIOR TO IMPLEMENTATION FOR YEAR 2000 COMPLIANCE.

¹

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.

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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.

(FTTF will review this on an annual basis during the version check cycle.)

Minimum

40 bit* SSL or 40 bit* RSA Java communications or 40 bit* Secure ICA

*128 bit encryption is strongly recommended where possible.

[THE ABOVE TEXT WILL BE REVIEWED FOR TRADEMARK, COPYRIGHT AND OTHER LEGAL CONSIDERATION PRIOR TO NOTICE FOR INDUSTRY COMMENT.]

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

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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.