



Gas Industry Standards Board

1100 Louisiana, Suite 3625, Houston, Texas 77002

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TO: GISB EDM Subcommittee Participants & Posting for Interested Industry Participants

FROM: Rae McQuade, Executive Director, GISB
Dick Brooks, Co-Chairman, GISB EDM Subcommittee
Leigh Spangler, Co-Chairman, GISB EDM Subcommittee

RE: Final Minutes from the GISB EDM Subcommittee Meeting

DATE: March 30, 2001

GAS INDUSTRY STANDARDS BOARD GISB EDM SUBCOMMITTEE MEETING

Conference Call: 9:00 a.m. to 12:00 p.m., March 30, 2001

FINAL MINUTES

I. Administrative

Mr. Spangler welcomed participants. Ms. McQuade read the roll call and gave the antitrust charge. The agenda was adopted as drafted. The draft minutes of February 28 were adopted with modifications.

II. Process of Preparing the Audit Response

The following steps will be followed in preparing GISB's response to the Sandia Surety Assessment:

- 1) GISB's response to the surety assessment ("the report") and the corresponding recommendation of standards modifications will be drafted and endorsed by the EDM Subcommittee.
- 2) EDM's recommendation and report will be presented to the EC for its consideration and discussion. Any changes or concerns raised by the EC will be addressed.
- 3) The report and recommendation will be presented to the Board for its endorsement.
- 4) After the Board consideration, possible changes and endorsement, the recommendations will be sent out for industry comment.
- 5) After the comment period concludes, the EC will vote on the recommendations. Should any of the recommendations be changed as a result of this review and vote by the EC, the Board will be apprised of the changes and the report will be changed correspondingly.
- 6) After the EC adopts the recommendations, they will be sent to the membership for ratification. Should any of the recommendations be declined as a result of a failed ratification, the Board and EC will be apprised of the resulting report changes.
- 7) After ratification, the report will be sent to the Department of Energy and Sandia National Laboratories with an expression of GISB's appreciation.



III. Sandia Report Action Plan—Items Not Yet Discussed

7.2.3 et al For the Sandia action item nos. 7.2.3, 7.2.4, 7.2.5, 7.2.7, 7.3.6, 7.3.7, 7.4.1 and 7.4.2, GISB should not implement the recommendation suggested Sandia.

Discussion:

Mr. Brooks described the proposed response. In discussion it was determined that two responses were needed, which would be used as applicable. The shorter version would be used for items such as those that addressed reformatting. The longer version would be used for items such as those that addressed digital signatures.

The short version should be applied to Sandia Item Nos.: 7.2.3, 7.2.4, 7.2.5, 7.2.7, 7.3.6, 7.3.7, 7.4.1 and 7.4.2.

Proposed Responses:

Long Version: "GISB appreciates Sandia's recommendation, but does not at this time plan to take any action. The resources required to implement the recommendation are significant, and the risk assessed is minimal and recoverable. As more cost effective solutions become commercially available, this response will be revisited."

and

Short Version: "GISB appreciates Sandia's recommendation, but does not at this time plan to take any action. The resources required to implement the recommendation are significant, and the risk assessed is minimal."

7.3.4 State which version of HTTP should be used in GISB Standard No. 4.3.8.

Discussion:

Mr. Brooks described the proposed response. He asked, "Should there be a reference to the Appendix for 4.3.8 (last sentence)?" In discussion, it was determined to modify GISB Standard No. 4.3.8, and two alternatives were discussed:

4.3.8 The minimum acceptable protocol should be HTTP. All sending and receiving parties should be capable of sending and receiving using HTTP. Appendix A of the EDM related standards specification contains a listing of the HTTP versions supported by GISB.

or

4.3.8 The minimum acceptable protocol should be HTTP. All sending and receiving parties should be capable of sending and receiving the HTTP version(s) supported by GISB.

After discussion, it was decided to use the second alternative.

Proposed Response:

- In the section titled "Related Standards", sub-section "Hypertext Transfer Protocol (HTTP)" (page 44 of the PDF file),

REPLACE:



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"HTTP has been in use by the World-Wide Web global information initiative since 1990. This specification reflects common usage of the protocol referred to as HTTP/1.0".

WITH

"HTTP has been in use by the World-Wide Web global information initiative since 1990. Appendix A of the Electronic Delivery Mechanism Related Standards manual contains a listing of the HTTP version(s) supported by GISB."

- And modify GISB Standard No. 4.3.8 to:
4.3.8 The minimum acceptable protocol should be HTTP. All sending and receiving parties should be capable of sending and receiving the HTTP version(s) supported by GISB.

7.3.8 Correct the reference of GISB Standard No. 4.3.70 from appendix to tab 4.

Discussion:

Mr. Brooks described the proposed response, to which everyone agreed.

Proposed Response:

For the Sandia action item no. 7.3.8, the following wording should be inserted into Appendix A of the EDM manual immediately following the section titled "HTTP":

"Allowable TCP Ports (not UDP ports)
HTTP 80, 5713, 6112, 6304, 6874, 7403
SSL 443
ICA® 1494
RMI(Java®) 1099-1100
Java® Telnet 31415
TCP Optional 8001-8020**

Allowable UDP Ports (not TCP ports)
Secure ICA 1604

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

ICA ® is a registered trademark of Citrix Systems Inc.

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

NOTE: All page number references relate to the PDF page number of the EDM document.

Subsequent to the change above the following changes to the EDM document will also be required:

Page 20:

- Remove the text starting with "Allowable" and ending with "1604"

- Insert "See Appendix A for a list of allowable TCP ports." as the last sentence of the first paragraph of the section titled "TCP Communications".

Page 21 (at top):



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- Remove the text associated with the "***" footnote

Page 37, within the text for standard 4.3.70:

- Replace "in the Appendix" with "in Appendix A"

- Insert a "." after the word Manual and remove all the text after "Manual."

Page 63(at bottom):

- REPLACE

"The HTTP Server should be configured as port 80. If port 80 is not available, use one of the five recommended alternate ports: 5713, 6112, 6304, 6874, 7403."

WITH

"The HTTP Server should be configured to use one of the allowable TCP ports listed in Appendix A."

Page 89:

- REPLACE

"The HTTP Server or the server side application should be configured as port 80. If port 80 is not available, use one of the following recommended alternate TCP ports :

- HTTP 80, 5713, 6112, 6304, 6874, 7403
- SSL 443
- ICA 1494
- RMI (JAVA) 1099-1100
- JAVA Telnet 31415
- TCP Optional 8001-8020
- Allowable UDP Ports (not TCP ports)
- Secure ICA 1604"

WITH

"A GISB EDM compliant Server should be configured to use one of the allowable TCP ports listed in Appendix A."

7.4.6 The GISB EDM Manual needs to provide consistency in its use of terms such as "Standard Client Configuration."

Sandia Recommendation:

Change Tab 9, page 7 wording to "Standard Client Configuration." Look for instances where other GISB-defined terms are mangled and correct them also.

Proposed GISB Response:

The EDM Committee has looked for instances where the phrase "client configuration standard" occurs in the EDM Manual. A search identified only one instance of this in the EDM Manual, in the section titled "Technical Implementation - Interactive FF/EDM" under the sub-title "Security" and heading "Encryption." We will change the paragraph as shown:

Encryption

"Standard 4.3.83 calls for the use of 40-bit encryption using Secure Socket Layer (SSL) technology. SSL is accomplished by obtaining a certificate from providers and using Web servers capable of using these certificates ~~to accomplish SSL.~~ The ~~standard~~ browsers specified in the Standard Client Configuration standard are known to be able to handle SSL mechanisms. Any pages to be protected with SSL need to be invoked with the HTTPS protocol by using "https" versus "http" as part of the hyperlink (HREF) name. Note that this means using a Fully Qualified versus Relative link name. This, in turn, causes a new DNS lookup from the browser. When the hostname is provided by more



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than one machine, this may result in the request being sent to a different machine. This would only cause problems where necessary state information is being maintained in the memory of the Web server's machine."

With this change, GISB believes it has identified and corrected all inconsistent wording and usage in the EDM manual.

Discussion:

Mr. Keisler described the above response, to which everyone agreed.

7.4.3

Tab 8 describes the Technical Implementation of the EBB/EDM functionality. This section covers important aspects of web sites including page layout, navigation, forms, matrix and lookups.

Sandia Analysis: The Sandia Team feels this is an important section and conveys many key concepts to members. The page layout section is well written and the print screen examples are very helpful.

Sandia Recommendation: GISB may consider taking this section one step further and developing a sample or model web site which includes these layouts and concepts. The web site could then be referenced as a URL within Tab 8 and allow the Trading Partners the ability to link to actual examples. This may help the partners actually view the examples and gain a better understanding of the formatting, layout, and common look and feel.

Discussion:

Mr. Spangler described the proposed response. The hedge company example is contained in the manual, which describes formatting layouts and concepts. Everyone agreed with the below response.

Proposed Response:

"GISB appreciates Sandia's recommendation, but does not at this time, plan to take any action. The resources required to implement the recommendation are significant, and the risk assessed is minimal. Printed examples of formatting, layout and common look and feel are provided within the EDM standards manual."

7.4.4

Reference Guide Section: In Tab 10 Appendix A the Reference Guide section defines reference information for some key concepts.

Sandia Analysis: This is an important reference section for Trading Partners and GISB members.

Sandia Recommendation: Consider adding two additional items and related references to this section. We recommend that the Guideline Adoption Procedure and X12.58 encryption standard entries be added. The Sandia Team also recommends that this section be reviewed and updated periodically as needed.

Discussion: Mr. Keisler will contact Mr. Hamilton to provide this response to the subcommittee shortly for inclusion in the draft report.

7.2.1/7.3.1

Change the grouping of principles from chronologically in tab 4 to categories, and change the grouping of standards from chronologically in tab 4 to categories.

Discussion: The categories will initially be defined according to the order in which they are discussed in the GISB courses. A set of the slides used in the course were forwarded to Mr. Spangler for his review. The categories will be



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shown in the EDM standards manual as a cross reference, but the standards and principles themselves will remain in sequential order for ease of reference.

Proposed Response: GISB agrees with the finding and the analysis, and would implement the recommendation as a cross reference to be included in the standards manual.

IV. Network Associates

Ms. McQuade, Mr. Spangler and Mr. Brooks spoke with representatives of NAI yesterday. NAI was told that while GISB requires only a bare bones standard solution – PGP encryption/decryption program, our members would like choices – a security product suite versus an inexpensive but more labor intensive security program.

As such, an issue on the NAI PGP server software costs has come to GISB's attention. For those companies that choose to just install a PGP encryption/decryption, they could install freeware known as GNU Privacy Guard (GPG). PGP Version 6.0 and higher and GPG are both based on IETF's standard RFC2440 – which, in layman's terms, means that they are compatible.

In upcoming meetings, NAI will work with GISB on deployment of their products – forming a strategic partnership. We will work with Ms. Brooks of NAI on possible discounts for our members. In this same working relationship, Mr. McArdle of NAI is interested in working with our members to help him understand features that we would like to see in their product lines. Some form of communication will be prepared to describe GPG and PGP usages.

In general discussions, it was noted that with the dependence on SSL, the emphasis on PGP as security software has somewhat lessened, but PGP is required for its capability of digital signatures. GISB standard no. 4.3.15 was reviewed for modifications to refer to the IETF Standard RFC 2440 instead of referring to the product PGP. Because RFC 2440 is not compatible with PGP 2.6, we cannot consider changing GISB standard no. 4.3.15 at this time.

In further discussions, Mr. Brooks and Mr. Lehn described the need for additional language in the EDM standards manual regarding the support of the addition of new self signed digital certificates for SSL use in batch browsers. It was determined that for Sandia item nos. 7.1.5 and 7.1.7, additional text should be added to the EDM manual to reflect the above discussion on batch browsers and self signed digital certificate for SSL use. Mr. Lehn and Mr. Brooks will provide the language before the next meeting.

V. Assignments and Next Agenda

The next meeting will be a conference call to review the draft report and recommendation. It will be held on Thursday April 12 from 2:00 to 4:00 pm central. Three outstanding items are required for the draft report and recommendation –

- the response on Sandia item no. 7.4.4 from Mr. Hamilton
- the additional response regarding batch browsers and SSL use to be applied to Sandia items 7.1.5 and 7.1.7, to be provided by Mr. Brooks and Mr. Lehn and
- the resolution of items sent to FTTF.

VI. Adjournment

The meeting adjourned at 11:00 a.m.



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VII. Attendees

Name	Company
SERVICES SEGMENT:	
Gina McMahon	BTUWatch.com
Leigh Spangler	Latitude Technologies
Dick Brooks	Group 8760
PIPELINE SEGMENT:	
Jim Keisler	Williams Gas Pipeline
Terry Lehn	Enron Transportation Services
Kim Van Pelt	CMS Energy
ADMINISTRATIVE:	
Rae McQuade	GISB