

R03007 North American Energy Standards Board

Request for Initiation of a NAESB Standard for Electronic Business Transactions or Enhancement of an Existing NAESB Standard for Electronic Business Transactions

Instructions:

- 1. Please fill out as much of the requested information as possible. It is mandatory to provide a contact name, phone number and fax number to which questions can be directed. If you have an electronic mailing address, please make that available as well.**
- 2. Attach any information you believe is related to the request. The more complete your request is, the less time is required to review it.**
- 3. Once completed, send your request to:**

**Rae McQuade
NAESB, Executive Director
1100 Louisiana, Suite 3625
Houston, TX 77002
Phone: 713-356-0060
Fax: 713-356-0067**

by either mail, fax, or to NAESB's email address, naesb@aol.com.

Once received, the request will be routed to the appropriate subcommittees for review.

North American Energy Standards Board

Request for Initiation of a NAESB Standard for Electronic Business Transactions or Enhancement of an Existing NAESB Standard for Electronic Business Transactions

Date of Request: May 23, 2003

1. Submitting Entity & Address:

OASIS Standards Collaborative
NERC
116-390 Village Boulevard
Princeton, New Jersey 08540-5731

2. Contact Person, Phone #, Fax #, Electronic Mailing Address:

Name: Monroe Landrum
Title: Manager, Operating Systems
Phone: (205) 257-6936
Fax: (205) 257-6663
Email: MJLANDRU@southernco.com

3. Description of Proposed Standard or Enhancement:

Enhance the current OASIS Standards and Communications Protocols (S&CP) to ensure compliance with the Energy Market Access and Reliability Certificates (e-MARC) Security Initiative, currently being developed and implemented by the North American Electric Reliability Council. E-MARC is the certificate policy that will implement a Public Key Infrastructure (PKI) for securing digital communications in all standardized wholesale electricity data exchanges.

4. Use of Proposed Standard or Enhancement (include how the standard will be used, documentation on the description of the proposed standard, any existing documentation of the proposed standard, and required communication protocols):

The standard will require that OASIS nodes be secured through the use of e-MARC digital certificates. Requirements for securing explicit portions of the OASIS will be defined through modification of the OASIS Standards and Communications Protocols document.

5. Description of Any Tangible or Intangible Benefits to the Use of the Proposed Standard or Enhancement:

Tangible benefits include:

- **Providing a common log-in and authentication standard for OASIS**
- **Eliminating the maintenance overheads associated with client-side management of multiple usernames and passwords for different OASIS sites**
- **Providing server-side management of password resets**

Intangible benefits include:

- **Privacy**
- **Authentication**
- **Integrity**
- **Non-repudiation**

6. Estimate of Incremental Specific Costs to Implement Proposed Standard or Enhancement:

PKI User Certificates

PKI users will be responsible for costs charged by the trusted certificate authority service providers associated with issuance and management of e-MARC certificates. Recurring costs may be on the order of \$50-\$250 per user certificate.

These costs are associated with:

- **Application/enrollment process**
- **Identification, verification, and authentication process**
- **Certificate manufacturing process**
- **Dissemination and activation of the certificate**
- **Publication of the certificate (if required)**
- **Renewal, suspension, revocation, and replacement of the certificate**
- **Verification of certificate status upon request**
- **Compliance with trusted certificate policy**

PKI Server Certificates

Entities requiring PKI server certificates will be responsible for the initial registration costs charged by the trusted certificate authority service providers. There non-recurring costs for enhancement of server application software, to recognize and implement PKI based user authentication, may be on the order of \$10,000-\$100,000.

Entities requiring PKI server certificates will be responsible for the costs charged by the trusted certificate authority service providers associated with issuance and management of e-MARC certificates. These recurring costs may be on the order of \$1,000- \$10,000 per application/server certificate.

These costs are associated with:

- **Application/enrollment process**

- Identification, verification, and authentication process
- Certificate manufacturing process
- Dissemination and activation of the certificate
- Publication of the certificate (if required)
- Renewal, suspension, revocation, and replacement of the certificate
- Verification of certificate status upon request
- Compliance with trusted certificate policy

7. Description of Any Specific Legal or Other Considerations:

The e-MARC certificate policy contains contractual obligations required of entities using the certificate. Additional legal and liability requirements, associated with the certificate authority service providers, are specified in the e-MARC certificate policy.

8. If This Proposed Standard or Enhancement Is Not Tested Yet, List Trading Partners Willing to Test Standard or Enhancement (Corporations and contacts):

Those parties responsible for implementing the standards will be responsible for testing.

9. If This Proposed Standard or Enhancement Is In Use, Who are the Trading Partners:

PKI and application security, similar in nature to that proposed in this standards request, are currently used in a number of existing applications. These applications include OASIS, ISO-NE market, NYISO market, and the IMO market. This standards request will establish a consistent method of securing diverse applications, as well as providing reliability certificates, used to seamlessly access systems subject to these standards.

10. Attachments (such as: further detailed proposals, transaction data descriptions, information flows, implementation guides, business process descriptions, examples of ASC ANSI X12 mapped transactions):

The following two documents will be submitted as electronic attachments to this standards request:

- Certificate Policy for Energy Market Access and Reliability Certificates
- OASIS Security Requirements