DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

18 CFR Part 37

[Docket No. RM95–9–003]

Open Access Same-Time Information System and Standards of Conduct

Issued September 29, 1998.
AGENCY: Federal Energy Regulatory Commission.
ACTION: Order issuing revised OASIS standards and protocols document.
SUMMARY: In this order, the Federal Energy Regulatory Commission (the Commission): issues a revised OASIS Standards and Protocols Document (Version 1.3); grants a three-month extension of time for implementing Version 1.3 of the revised OASIS Standards and Protocols Document; and grants a two-month extension of time for implementing the Commission's requirements on unmasking source and sink information.
DATES: Version 1.3 of the OASIS Standards and Protocols Document becomes effective March 1, 1999.
FOR FURTHER INFORMATION CONTACT:
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WordPerfect 6.1 format. CIPS is also available through the Commission's electronic bulletin board service at no charge to the user and may be accessed using a personal computer with a modem by dialing (202) 208–1397, if dialing locally, or 1–800–856–3920, if dialing long distance. To access CIPS, set your communications software to 19200, 14400, 12000, 9600, 7200, 4800, 2400, or 1200 bps, full duplex, no parity, 8 data bits and 1 stop bit. User assistance is available at (202) 208–2474 or by E-Mail to CipsMaster@FERC.fed.us.

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Finally, the complete text in WordPerfect format may be purchased from the Commission's copy contractor, RVJ International, Inc. RVJ International, Inc., is located in the Public Reference Room at 888 First Street, N.E., Washington D.C. 20426.

Before Commissioners: James J. Hoecker, Chairman; Vicky A. Bailey, William L. Massey, Linda Breathitt, and Curt Hébert, Jr.

Order Issuing Revised OASIS Standards and Protocols Document, Granting Three-Month Extension of Time for Implementing Revised OASIS Standards and Protocols Document, and Granting Two-Month Extension of Time for Implementing the Commission's Requirements on Unmasking Source and Sink Information

After consideration of suggested changes advanced by the OASIS How Working Group (How Group) and other interested persons, we are issuing a revised version (version 1.3) of the *OASIS Standards and Communications Protocols* document (referred to herein as the S&CP Document), consisting of revisions to version 1.2 of the S&CP Document issued by the Commission on June 18, 1998. Moreover, in response to a request from the How Group and the Commercial Practices Working Group (CPWG), we are granting a three-month extension, until March 1, 1999, for implementation of the requirements of

version 1.3 and a two-month extension, also until March 1, 1999, for implementation of the Commission's requirements on the unmasking of source and sink information.

Background

In an order issued on June 18, 1998,[1] the Commission issued version 1.2 of the S&CP Document[2] and invited the How Group to file with the Commission a revised submittal, within 21 days of the date of issuance of the June 18 Order that, ''to the greatest extent possible identifies all needed corrections to the S&CP Document.''[3] The June 18 Order also requested that the How Group,

Reach consensus on an industry-wide uniform format, which could be easily obtained and widely used by industry participants, to cover both organizational charts and job descriptions, or at a minimum, one uniform format for organizational charts and another uniform format for job descriptions. To this end, we request that the How Group, within 90 days of the date of issuance of this order, develop an industry-wide uniform format for organizational charts and job descriptions, and submit its recommendations on this issue to the Commission.[4]

On July 15, 1998, the How Group filed a proposed version 1.3 of the S&CP Document, consisting of proposed clarifications and corrections to version 1.2 of the S&CP Document. These revisions included a proposal to add subsection 3.4(k) to the S&CP Document that would prescribe a standard method for posting organizational charts, job descriptions, and personnel names.

On July 22, 1998, the Commission issued a notice of filing, inviting interested persons to file comments with the Commission on or before August 21, 1998.

On August 11, 1998, the How Group and the CPWG jointly filed a letter requesting: (1) a delay in the date of implementation of the OASIS Phase 1–A S&CP Document (*i.e.,* version 1.3) until March 1, 1999 (a three-month delay); (2) a delay in the implementation date for the Commission's new rules on the unmasking of source and sink information (established in the June 18 Order)[5] until March 1, 1999 (a two-month delay); and (3) approval of the industry's Phase 1–A report on business practices, for implementation on March 1, 1999.

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[1] Open Access Same-time Information System and Standards of Conduct, 63 FR 38,884 (July 20, 1998) 83 FERC ¶ 61,360 at 62,466, (June 18 Order).

[2] 83 FERC at 62,466–67.

[3] 83 FERC at 62,452, n.13.

[4] *Id.*

[5] 83 FERC at 62,456–67.

On August 21, 1998, Southern Company Services, Inc., (Southern) [6] filed comments supportive of the How Group's filing. However, Southern states that a few additional minor technical revisions need to be made to the document. Southern states that it discussed these additional proposed edits with the How Group at a How Group meeting held on July 23–24, 1998 and that, upon review, the How Group agrees with Southern that the additional technical revisions described in Southern's comments (and specified in an attachment to Southern's comments) need to be made.

Also on August 21, 1998, Enron Power Marketing, Inc. (EPMI) filed a motion to intervene raising no substantive issues.

Discussion

A. Issuance of the Revised S&CP Document (Version 1.3)

As explained in the June 18 Order,[7] the Commission has received a series of corrections and edits to the Phase 1–A S&CP Document. In the interests of issuing a revised document as free from errors as possible, we invited the How Group to carefully review this document and to file a revised document that, to the greatest extent possible, identified all needed corrections to the S&CP Document. The How Group complied with this request and submitted a revised Phase 1–A S&CP Document on July 15, 1998.

However, Southern has identified three additional minor technical revisions that should be made to the document. These revisions: (1) add "START__TIME" and "STOP__TIME" to the list of data elements under the "INPUT" and "RESPONSE" portions of several specified templates; [8] (2) add "STUDY" and "DISPLACED" as permissible "STATUS" values; [9] and (3)

add further "STATUS" values in section 4.3.9.3.[10]

We have reviewed the How Group's submittal along with Southern's comments (the only substantive comments filed in response to our notice of the How Group's filing) and find that this document improves upon version 1.2 of the S&CP Document. We, therefore, adopt version 1.3 of the S&CP Document,[11] as modified herein.[12]

B. Implementation Date for Version 1.3 of the S&CP Document

The August 11, 1998 How Group/CPWG joint letter requested a delay in the implementation date of the OASIS Phase 1–A S&CP Document (*i.e.*, version 1.3) until March 1, 1999 (a three-month delay). In support of this request, the How Group and CPWG argue that this delay will assure that the revised S&P Document will not need to be implemented at the start of the winter peak season. The How Group and CPWG argue that, by avoiding implementation of this requirement during the winter peak season, potential adverse effects on system reliability will be avoided. They argue that fears of disruption are not hypothetical, but are based on companies' experiences in implementing OASIS Phase 1 requirements. The additional time will also allow customers and transmission providers time to complete modifications to "backend" systems to connect with OASIS servers.

We agree. A three-month delay that minimizes potential start-up problems and avoids possible disruptions to reliability is appropriate. We will therefore modify the implementation date for version 1.3 of the S&CP Document to require implementation by

March 1, 1999. Our determination in this regard is without prejudice to the pending requests for rehearing, on other grounds, of the June 18, 1998 Order. By addressing this request for a delayed implementation date, we intend no judgment on the merits of those pending requests for rehearing.

C. Implementation Date for New Rules on Unmasking Source and Sink Information

The August 11, 1998 How Group/CPWG joint letter requested a delay in the implementation date for the Commission's new rules on unmasking of source and sink on the OASIS until March 1, 1999 (a two-month delay). In support of this request, the How Group and CPWG argue that having the same implementation date for the Commission's new rules on unmasking of source and sink information as for the revised S&CP Document will reduce the cost of implementation and will avoid the risk that the industry simultaneously will face the requirement to comply with the Commission's new rules on unmasking source and sink information and possible Year 2000 anomalies.

We agree that a two-month delay is appropriate. We, therefore, will modify the implementation date for compliance with the Commission's new rules on unmasking source and sink information to require compliance with this requirement by March 1, 1999. Our determination in this regard is without prejudice to the pending requests for rehearing of the June 18, 1998 Order. By addressing this request for a delayed implementation date, we intend no judgment on the merits of those pending requests for rehearing.

The Commission Orders

(A) Version 1.3 of the OASIS Phase 1–A S&CP Document (as shown on Attachment 1 to this order) is hereby adopted for use on and after March 1, 1999, as discussed in the body of this order.

(B) The effective date for the requirements on unmasking source and sink information is hereby changed to March 1, 1999, as discussed in the body of this order.

By the Commission. Commissioner Bailey concurred with a separate statement attached.

David P. Boergers,
Secretary.

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[6] Southern's comments are filed on behalf of Alabama Power Company, Georgia Power Company, Gulf Power Company, Mississippi Power Company, and Savannah Electric and Power Company.

[7] 83 FERC at 62,452, n.13.

[8] Southern explains that this revision is needed because the narrative accompanying these sections references their inclusion. Southern Comments at 2.

[9] Southern explains that this revision is needed because section 4.3.9.2 provides that the values for "STATUS" and the processing of "STATUS" are to be the same as in section 4.3.7.2, which includes "STUDY" and "DISPLACED" as permissible "STATUS" values. Southern Comments at 2–3.

[10] Southern explains that this revision is needed to make the "STATUS" values in this section equivalent to those in section 4.3.7.3. Southern Comments at 3.

[11] Version 1.3 of the S&CP Document, without redline and strikeout fonts, is provided in Attachment 1. Attachment 2 to this order shows all the changes that we have made and direct to version 1.2 of the S&CP Document in redline and strikeout fonts. We will publish Attachment 1 in the **Federal Register**. However, as redline and strikeout fonts do not show up in the **Federal Register**, we will not publish Attachment 2 in the **Federal Register**. It will, however, be made available on CIPS, RIMS, and in the Public Reference Room.

[12] We note that the document we are labeling as version 1.3 of the S&CP Document differs from the How Group's proposed version 1.3 of the S&CP Document. The difference between the two documents is based on our inclusion of the revisions suggested by Southern's comments and a few nonsubstantive corrections (*i.e.*, revised fonts and corrections to the table of contents).

[Note: This attachment will not appear in the Code of Federal Regulations.]

ATTACHMENT 1—Federal Energy Regulatory Commission, Standards and Communication Protocols for Open Access Same-Time Information System (OASIS)

Version 1.3

September 29, 1998

Table of Contents

1. Introduction

1.1   Definition of Terms

The following definitions are offered to clarify discussions of the OASIS in this document.

a. Transmission Services Information (TS Information) is transmission and ancillary services information that must be made available by public utilities on a non-discriminatory basis to meet the regulatory requirements of transmission open access.

b. Open Access Same-Time Information System (OASIS) comprises the computer systems and associated communications facilities that public utilities are required to provide for the purpose of making available to all transmission users comparable interactions with TS Information.

c. Open Access Same-Time Information System Node (OASIS Node) is a subsystem of the OASIS. It is one computer system in the (OASIS) that provides access to TS Information to a Transmission Customer.

d. Transmission Provider (TP or Primary Provider) is the public utility (or its designated agent) that owns, operates or controls facilities used for the transmission of electric energy in interstate commerce. (This is the same term as is used in Part 35.3).

e. Transmission Customer (TC or Customer) is any eligible Customer (or its designated agent) that can or does execute a transmission service agreement or can or does receive transmission service. (This is the same term as is used in Part 35.3).

f. Secondary Transmission Provider (ST, Reseller, or Secondary Provider) is any Customer who offers to sell transmission capacity it has purchased. (This is the same as Reseller in Part 37).

g. Transmission Services Information Provider (TSIP) is a Transmission Provider or an agent to whom the Transmission Provider has delegated the responsibility of meeting any of the requirements of Part 37. (This is the same as Responsible Party in Part 37).

h. Value-Added Transmission Services Information Provider (VTSIP) is an entity who uses TS Information in the same manner as a Customer and provides value-added information services to its Customers.

2. Network Architecture Requirements

2.1 Architecture of Oasis Nodes

a. Permit Use of Any OASIS Node Computers: TSIPs shall be permitted to use any computer systems as an OASIS Node, so long as they meet the OASIS requirements.

b. Permit Use of Any Customer Computers: OASIS Nodes shall permit the use by Customers of any commonly available computer systems, as long as they support the required communication links to the Internet.

c. Permit the Offering of Value-Added Services: TSIPs are required, upon request, to provide their Customers the use of private network connections on a cost recovery basis. Additional services which are beyond the scope of the minimum OASIS requirements are also permitted. When provided, these private connections and additional services shall be offered on a fair and non-discriminatory basis to all Customers who might choose to use these services.

d. Permit Use of Existing Communications Facilities: In implementing the OASIS, the use of existing communications facilities shall be permitted. The use of OASIS communication facilities for the exchange of information beyond that required for open transmission access (e.g., transfer of system security or operations data between regional control centers) shall also be permitted, provided that such use does not negatively impact the exchange of open transmission access data and is consistent with the Standards of Conduct in Part 37.

e. Single or Multiple Providers per Node: An OASIS Node may support a single individual Primary Provider (plus any Secondary Providers) or may support many Primary Providers.

2.2 Internet-Based Oasis Network

a. Internet Compatibility: All OASIS Nodes shall support the use of internet tools, internet directory services, and internet communication protocols necessary to support the Information Access requirements stated in Section 4.

b. Connection through the Public Internet: Connection of OASIS Nodes to the public Internet is required so that Users may access them through Internet links. This connection shall be made through a firewall to improve security.

c. Connection to a Private Internet Network: OASIS Nodes shall support private connections to any OASIS User (User) who requests such a connection. The TSIP is permitted to charge the User, based on cost, for these connections. The same internet tools shall be required for these private networks as are required for the public Internet. Private connections must be provided to all users on a fair and nondiscriminatory basis.

d. Internet Communications Channel: The OASIS Nodes shall utilize a communication channel to the Internet which is adequate to support the performance requirements given the number of Users subscribed to the Providers on the Node (see section 5.3).

2.3 Communication Standards Required

a. Point-to-Point Protocol (PPP) and Internet Protocol Control Protocol (IPCP) (reference RFCs 1331 and 1332) shall be supported for private internet network dial-up connections.

b. Serial Line Internet Protocol (SLIP) (reference RFC 1055) shall be supported for private internet network dial-up connections.

c. Transport Control Protocol and Internet Protocol (TCP/IP) shall be the only protocol set used between OASIS Nodes whenever they are directly interconnected, or between OASIS Nodes and Users using private leased line internet network connections.

d. Hyper Text Transport Protocol (HTTP), Version 1.0 (RFC 1945), shall be supported by TSIPs so that User's web browsers can use it to select information for viewing displays and for downloading and uploading files electronically.

e. Internet Protocol Address: All OASIS Nodes are required to use an IP address registered with the Internet Network Information Center (InterNIC), even if private connections are used.

2.4 Internet Tool Requirements

Support for the following specific internet tools is required, both for use over the public Internet as well as for any private connections between Users and OASIS Nodes:

a. Browser Support: OASIS Nodes shall insure that Users running minimally either Netscape's Navigator version 4.0.x or Microsoft's Internet Explorer version 4.0.x browsers (or any other commercially or privately available browser supporting that set of capabilities common to both of these industry standard browsers) shall have a fully functional user interface based on the Interface Requirements defined in Section 4.

b. HTML Forms shall be provided by the TSIPs to allow Customers to enter information to the OASIS Node.

c. Domain Name Service (DNS) (ref. RFC 1034, 1035) shall be provided as a minimum by the TSIPs (or their Internet Service Provider) for the resolution of IP addresses to allow Users to navigate easily between OASIS Nodes.

d. Simple Network Management Protocol (SNMP) is recommended but not required to provide tools for operating and managing the network, if private interconnections between OASIS Nodes are established.

e. The Primary Provider shall support E-mail for exchanges with Customers, including the sending of attachments. The protocols supported shall include, as a minimum, the Simple Messaging Transfer Protocol (SMTP), Post Office Protocol (POP), and Multipurpose Internet Mail Extensions (MIME).

2.5 Navigation and Interconnectivity Between Oasis Nodes

a. World Wide Web Browsers: TSIPs shall permit Users to navigate using WWW browsers for accessing different sets of TS Information from one Provider, or for getting to TS Information from different Providers on the same OASIS Node. These navigation methods shall not favor User access to any Provider over another Provider, including Secondary Providers.

b. Internet Interconnection across OASIS Nodes: Navigation tools shall not only support navigation within the TSIP's Node, but also across interconnected OASIS Nodes. This navigation capability across interconnected Nodes shall, as a minimum, be possible through the public Internet.

3. Information Access Requirements

3.1 Registration and Login Requirements

a. Location of Providers: To provide Users with the information necessary to access the desired Provider, all Primary Providers shall register their OASIS Node URL address with www.tsin.com. This URL address should include the unique four letter acronym the Primary Provider will use as the PRIMARY_PROVIDER_CODE.

b. Initial User Registration: TSIPs shall require Users to register with a Primary Provider before they are permitted to access the Provider's TS Information. There must be a reference pointing to registration procedures on each Primary Provider's home page. Registration procedures may vary with the administrative requirements of each Primary Provider.

c. Initial Access Privileges: Initial registration shall permit a User only the minimum Access Privileges. A User and a Primary Provider shall mutually determine what access privilege the User is permitted. The TSIP shall set a User's Access Privilege as authorized by the Primary Provider.

d. User Login: After registration, Users shall be required to login every time they establish a dial-up connection. If a direct, permanent connection has been established, Users shall be required to login initially or any time the connection is lost. Use of alternative forms of login and authentication using certificates and public key standards is acceptable.

e. User Logout: Users shall be automatically logged out any time they are disconnected. Users may logout voluntarily.

3.2 Service Level Agreements

Service Level Agreements: It is recognized that Users will have different requirements for frequency of access, performance, etc., based on their unique business needs. To accommodate these differing requirements, TSIPs shall be required to establish a ''Service Level Agreement'' with each User which specifies the terms and conditions for access to the information posted by the Providers. The default Service Level Agreement shall be Internet access with the OASIS Node meeting all minimum performance requirements.

3.3 Access to Information

a. Display: TSIPs shall format all TS Information in HTML format such that it may be viewed and read directly by Users without requiring them to download it. This information shall be in clear English as much as possible, with the definitions of any mnemonics or abbreviations available on-line. The minimum information that is to be displayed is provided in the Templates in Section 4.3.

b. Read-Only Access to TS Information: For security reasons, Users shall have read-only access to the TS Information. They shall not be permitted to enter any information except where explicitly allowed, such as HTML transaction request forms or by the Templates in Section 4.3.

c. Downloading Capability: Users shall be able to download from an OASIS Node the TS Information in electronic format as a file. The rules for formatting of this data are described in Section 4.2.

d. On-Line Data Entry on Forms: Customers shall be permitted to fill out on-line the HTML forms supplied by the TSIPs, for requesting the purchase of services and for posting of products for sale (by Customers who are resellers). Customers shall also be permitted to fill-out and post Want-Ads.

e. Uploading Capability: Customers shall be able to upload to OASIS Nodes the filled-out forms. TSIPs shall ensure that these uploaded forms are handled identically to forms filled out on-line. TSIPs shall provide forms that support the HTTP input of Comma Separated Variable (CSV) records. This capability shall permit a Customer to upload CSV records using standard Web browsers or additional client software (such as fetch__http) to specify the location of the CSV records stored on the Customer's hard disk.

f. Selection of TS Information: Users shall be able to dynamically select the TS Information they want to view and/or download. This selection shall be, as a minimum, through navigation to text displays, the use of pull-down menus to select information for display, data entry into forms for initiating queries, and the selection of files to download via menus.

3.4 Provider Updating Requirements

The following are the Provider update requirements:

a. Provider Posting of TS Information: Each Provider (including Secondary Providers and Value-Added Providers) shall be responsible for writing (posting) and updating TS Information on their OASIS Node. No User shall be permitted to modify a Provider's Information.

b. INFO.HTM: Each Provider shall provide general information on how to use their node and describe all special aspects, such as line losses, congestion charges and assistance. The address for the directory of this information shall be INFO.HTM (case sensitive), an HTML web page, linked to the Provider's registered URL address.

c. OASIS Node Space for Secondary Provider: To permit Users to readily find TS Information for the transmission systems that they are interested in, TSIPs shall provide database space on their OASIS Node for all Secondary Providers who have purchased, and who request to resell, transmission access rights for the power systems of the Primary Providers supported by that Node.

d. Secondary Provider Posting to Primary Provider Node: The Secondary Providers shall post the relevant TS Information on the OASIS Node associated with each Primary Provider from whom the transmission access rights were originally purchased.

e. Secondary Provider Posting Capabilities: The TSIPs shall ensure that the Secondary Providers shall be able to post their TS Information to the appropriate OASIS Nodes using the same tools and capabilities as the Customers, meet the same performance criteria as the Primary Providers, and allow users to view these postings on the same display page, using the same tables, as similar capacity being sold by the Primary Providers.

f. Free-Form Posting of non-TS Information: The TSIP shall ensure that non-TS Information, such as Want-Ads, may be posted by Providers and Customers, and that this information is easily accessible by all Users. The TSIP shall be allowed to limit the volume and/or to charge for the posting of non-TS Information.

g. Time Stamps: All TS Information shall be associated with a time stamp to show when it was posted to the OASIS Node.

h. Transaction Tracking by an Assignment Reference Number: All requests for purchase of transmission or ancillary services will be marked by a unique accounting number, called an assignment reference.

i. Time-Stamped OASIS Audit Log: All posting of TS Information, all updating of TS Information, all User logins and disconnects, all User download requests, all Service Requests, and all other transactions shall be time stamped and stored in an OASIS Audit Log. This OASIS Audit Log shall be the official record of interactions, and shall be maintained on-line for download for at least 90 days. Changes in the values of posted Capacity (Available Transfer Capability) must be stored in the on-line Audit Log for 20 days. Audit records must be maintained for 3 years off-line and available in electronic form within seven days of a Customer request.

j. Studies: A summary description with dates, and programs used of all transmission studies used to prepare data for the Primary Provider's ATC and TTC calculation will be provided along with information as to how to obtain the study data and results.

k. Organizational Charts: As required in 83 FERC 61,301, each Provider shall provide the company's organizational chart, job descriptions, and personnel names, using formats viewable and downloadable directly (i.e., without the use of external or third-party plug-ins or application software) by the browsers listed in Section 2.4a.

3.5 Access to Changed Information

a. General Message & Log: TSIPs shall post a general message and log that may be read by Users. The message shall state that the Provider has updated some information, and shall contain (or point to) a reverse chronological log of those changes. This log may be the same as the Audit Log. The User may use the manual capability to see the message.

b. TSIP Notification Design Responsibilities: The TSIP shall avoid a design that could cause serious performance problems by necessitating frequent requests for information from many Users.

3.6 User Interaction With an OASIS Node

There are three basic types of User interactions which must be supported by the OASIS Node. These interactions are defined in Section 4.3.

a. Query/Response: The simplest level of interactions is the query of posted information and the corresponding response. The User may determine the scope of the information queried by specifying values, through an HTML form, a URL string, or an uploaded file, using Query Variables and their associated input values as defined with each Template in Section 4.3. The response will be either an HTML display or a record oriented file, depending on the output format that the User requests.

The TSIP may establish procedures to restrict the size of the response, if an overly broad query could result in a response which degrades the overall performance of the OASIS Node for their Users.

b. Purchase Request: The second type of Customer interaction is the submittal of a request to purchase a service. The Customer completes an input form, a URL string or uploads a file and submits it to the OASIS Node. The uploaded file can either be a series of query variables or a record oriented file.

The request is processed by the Seller of the service, possibly off-line from the OASIS Node, and the status is updated accordingly.

If a purchase request is approved by the Seller, then it must be again confirmed by the Customer. Once the Customer confirms an approved purchase, a reservation for those services is considered to exist, unless later the reservation is reassigned, displaced, or annulled.

c. Upload and Modify Postings: Customers who wish to resell their rights may upload a form, create the appropriate URL or upload a file to post services for sale. A similar process applies to eligible Third Party Sellers of ancillary services. The products are posted by the TSIP. The seller may monitor the status of the services by requesting status information. Similarly the Seller may modify its posted transmission services by submitting a service modification request through a form, a URL query, or by uploading a file.

4. Interface Requirements

4.1 Information Model Concepts

a. ASCII-Based OASIS Templates: For providing information to Users, TSIPs shall use the specified OASIS Templates. These Templates define the information which must be presented to Users, both in the form of graphical displays and as downloaded files. Users shall be able to request Template information using query-response data flows. The OASIS Templates are described in section 4.3. The Data Element Dictionary, which defines the data elements in the OASIS Templates, is provided in Appendix A.

Data elements must be used in the exact sequence and number as shown in the Templates when file uploads and downloads are used. Although the contents of the graphical displays are precisely defined as the same information as in the Templates, the actual graphical display formats of the TS information are beyond the scope of the OASIS requirements. Due to the nature of graphical displays, there may be more than one graphical display used to convey the information in a single Template.

b. ASCII-Based OASIS File Structures: For uploading requests from and downloading information to Users, TSIPs shall use specific file structures that are defined for OASIS Template information (see section 4.2). These file structures are based on the use of headers which contain the Query Variable information, including the name of the OASIS Template. These headers thus determine the contents and the format of the data that follows. Although headers may not be essential if file transfers contain the exact sequence and number of data elements as the Templates, this feature is being preserved for possible future use when additional flexibility may be allowed.

4.2 OASIS Node Conventions and Structures

4.2.1 OASIS Node Naming Requirements

The following naming conventions shall be used to locate information posted on an OASIS Node. OASIS naming conventions shall conform to standard URL structures.

4.2.1.1 OASIS Node Names

In order to provide a consistent method for locating an OASIS Node, the standard Internet naming convention shall be used. All OASIS Node names shall be unique. Each Primary Provider OASIS Node name and home directory shall be registered with the master OASIS directory site at http://www.tsin.com. OASIS Node names shall be stored in an Internet DNS name directory.

4.2.1.2 OASIS Node and Primary Provider Home Directory

The home directory name on an OASIS Node shall be ''OASIS'' (all upper case) to identify that the directory is related to the OASIS. The directory of each Primary Provider shall be listed under the ''OASIS'' directory:

http://(OASIS Node name)/OASIS/(PRIMARY_PROVIDER_CODE)

Where:

(OASIS Node name) is the World Wide Web URL address of the OASIS Information Provider.
(PRIMARY_PROVIDER_CODE) (case sensitive) is the 4 character acronym of the primary provider.
PRIMARY_PROVIDER_CODEs shall be registered with the master OASIS directory site at http://www.tsin.com. A pointer to user registration information shall be located on the Primary Provider's home page.

4.2.1.3 CGI Script Names

Common Gateway Interface (CGI) scripts shall be located in the directory ''data'' as follows (case sensitive):
http://(OASIS Node name)/OASIS/(PRIMARY_PROVIDER_CODE)/data/(cgi script name)?(query variables)

Where:

(cgi script name) is the OASIS Template name in lower case (see Section 4.3). Other cgi scripts may be defined as required to implement the HTML interface to the documented templates.
(query variables) is a list of query variables with their settings formatted as defined by the HTTP protocol (i.e., URL encoded separated by ampersands).
Example:

To request the hourly schedule Template at Primary Provider WXYZ Co. http://www.wxyz.com/OASIS/WXYZ/data/schedule ?templ=schedule& ver=1.2& fmt=data & stime=19960412040000PD &sptime=19960412100000PD& pprov=wxyz

4.2.2 Data Element Dictionary

The following are the requirements for the Data Element Dictionary:

a. Definition of OASIS Information Elements: All OASIS Information data elements shall be defined in the Data Element Dictionary which will be stored in the OASIS Node directory:

http://(OASISNode Name)/OASIS/(PRIMARY_PROVIDER_CODE)/ (datadic.htm|datadic.txt)

Where:

datadic.htm is the HTML version of the data element dictionary (case sensitive)
datadic.txt is the ASCII text version of the data element dictionary (case sensitive)

The Data Element Dictionary is defined in Appendix A.

b. Provider-specific Data Element Values: The valid values that certain OASIS Information data elements may take on, such as PATH__NAME, etc., are unique to a Primary Provider. Names which must be uniquely identified by Primary Provider shall be listed on-line on the OASIS Node via the LIST Template (see Section 4.3.5). In posting OASIS information associated with data elements which are not free-form text, TSIPs shall use only the accepted data element values listed in the Data Element Dictionary and/or those values posted in the LIST of provider specific names provided on the OASIS Node.

4.2.3 OASIS Template Constructs

4.2.3.1 Template Construction

Section 4.3 lists the set of OASIS Templates that shall be supported by all OASIS Nodes. These OASIS Templates are intended to be used precisely as shown for the transfer of data to/from OASIS Nodes, and identify, by Data Elements names, the information to be transferred. The construction of the OASIS Templates shall follow the rules described below:

a. Unique OASIS Template Name: Each type of OASIS Template shall be identified with a unique name which shall be displayed to the User whenever the OASIS Template is accessed.

b. Transfer Protocol: OASIS Templates are transferred using the HTTP protocol. Templates shall support both the ''GET'' and ''POST'' methods for transferring ''query string'' name/value pairs, as well as the OASIS specific ''comma separated value'' (CSV) format for posting and retrieval of information from OASIS Nodes. HTML screens and forms shall be implemented for each OASIS Template.

c. Source Information: Each OASIS Template shall identify the source of its information by including or linking to the name of the Primary Provider, the Secondary Provider, or the Customer who provided the information.

d. Time Of Last Update: Each OASIS Template shall include a time indicating when it was created or whenever the value of any Data Element was changed.

e. Data Elements: OASIS Templates shall define the elementary Data Element Dictionary names for the data values to be transferred or displayed for that Template.

f. Documentation: OASIS Information shall be in non-cryptic English, with all mnemonics defined in the Data Element Dictionary or a glossary of terms. TSIPs shall provide on-line descriptions and help screens to assist Users understanding the displayed information. Documentation of all formats, contents, and mnemonics shall be available both as displays and as files which can be downloaded electronically. In order to meet the ''User-Friendly'' goal and permit the flexibility of the OASIS Nodes to expand to meet new requirements, the OASIS Templates shall be as self-descriptive as possible.

4.2.3.2 Template Categories

OASIS Templates are grouped into the following two major categories:

a. Query/Response: These Templates are used to query and display information posted on an OASIS Node. Each query/response Template accepts a set of user specified Query Variables and returns the appropriate information from data posted on the OASIS Node based on those query variables. The valid Query Variables and information to be returned in response are identified by Data Element in Section 4.3.

b. Input/Response: These Templates are used to upload/input information on an OASIS Node. The required input information and information to be returned in response are identified by Data Element in Section 4.3, Template Descriptions.

4.2.3.3 Template HTML Screens

Though the exact form and content of the HTML screens and forms associated with the OASIS Templates are not dictated by this document, the following guidelines shall be adhered to for all HTML screens and forms implemented on an OASIS Node:

a. Data Element Headings: Data displayed in an HTML screen/form shall be labeled such that the associated data value(s) is(are) easily and readily identifiable as being associated with a particular OASIS Template Data Element. HTML ''Hot-Links'' or other pointer mechanisms may be provided for Data Element headings in OASIS Templates which permit the User to access documentation describing the meaning, type, and format of the associated data.

b. Display Limitations: HTML screens and forms shall be implemented in such a way to allow the display of all data specified for each OASIS Template. This may take the form of ''wrapping'' of lines of information on the screen, the use of horizontal and/or vertical scrolling, or the use of ''Hot-Links'' or other pointer mechanisms. There is not necessarily a one-to-one relationship between HTML screens implemented on OASIS Nodes, and their associated Template. However, all Template data elements shall be viewable through one or more HTML screens.

c. Template Navigation: HTML ''Hot-Links'' or other pointer mechanisms may be provided to assist the navigation between screens/forms associated with related OASIS Templates.

4.2.4 Query/Response Template Requirements

Retrieval of information posted on an OASIS Node is supported by the Query/Response Templates. The ''query'' identifies the OASIS Template and optionally supplies additional Data Elements which may be used to select specific information to be returned in the ''response''.

4.2.4.1 Query Requirements

Query information is transferred to an OASIS Node using the HTTP protocol as a string of Query Variables in the form of name/value pairs. Query Variable name/value pairs are specified as a collection of encoded strings (e.g., blank characters replaced by plus (+) character, etc.) in the form of name=value, with each name/value pair separated by ampersands (&) (see section 4.2.6). OASIS Nodes shall support the following methods for Users to input Query information:

a. HTML: HTML FORM input and/or hypertext links shall be provided to allow Users to specify OASIS Template Query Variables. This will be the easiest way to obtain information and should be the choice of most casual Users and for simple requests. The exact nature and form of these HTML screens are not specified, and may differ between OASIS Nodes.

b. GET Method: The HTTP GET method for specifying query information appended to a standard OASIS URL shall be supported. Using this method, the name=value formatted Query Variables preceded by a question mark (?) are appended to the URL. Each ''name'' in a name/value pair corresponds to a Data Element name associated with that Template. OASIS Nodes shall support the specification of all Data Elements associated with a Template by both their full name and alias as defined in the Data Dictionary. The ''value'' in a name/value pair represents the value to be associated with the Data Element being specified in the appropriate format as defined in the Data Dictionary and encoded according to the HTTP protocol.

c. POST Method: The HTTP POST method for specifying query information in the message body shall be supported. Using this method, the name=value formatted Query Variables shall be transferred to an OASIS Node using the ''Content-length:'' HTTP header to define the length in bytes of the encoded query string and the ''Content-type: application/x-www-form-urlencoded'' HTTP header to identify the data type included in the message body. Each ''name'' in a name/value pair corresponds to a Data Element name associated with that Template. An OASIS Node shall support the specification of all Data Elements associated with a Template by

both their full name and alias as defined in the Data Dictionary. The ''value'' in a name/value pair represents the value to be associated with the Data Element being specified in the appropriate format as defined in the Data Dictionary and encoded according to the HTTP protocol.

User queries using any of the above methods are supported directly by the User's web browser software. More sophisticated data transfer mechanisms, such as the automated querying of information based on Query Variable strings contained in a User data file (i.e., ''uploading a file containing a URL string), require appropriate software (e.g., ''fetch_http'') running on the User's computer system to effect the data transfer.

4.2.4.2   Response Requirements

In response to a validly formatted Query for each Query/Response OASIS Template, the OASIS Node shall return the requested information in one of two forms based on the User specified OUTPUT_FORMAT Query Variable:

a. HTML: If the User requests the response to have the format of ''HTML'' (OUTPUT_FORMAT=HTML) then the response from the OASIS Node shall be a web page using the HTML format. This shall be the default for all Query/Response Templates.

b. CSV Format: Comma Separated Value (CSV) format (OUTPUT_FORMAT=DATA) returns the requested information in the body of the HTTP response message. The ''Content-length:'' HTTP header shall define the length in bytes of the response, and the ''Content-type: text/x-oasis-csv'' HTTP header shall be used to identify the data type included in the message body (see CSV File Format).

4.2.5   Input/Response Template Requirements

The posting of information on an OASIS Node, including reservations for transmission/ancillary service, services for sale on the secondary market, etc., is supported by the Input/Response Templates. The ''input'' identifies the required data associated with an OASIS Template to be posted on the OASIS Node , and the ''response'' specifies the information returned to the User.

4.2.5.1   Input Requirements

Input information is transferred to an OASIS Node using the HTTP protocol as either a string of Query Variables in the form of name/value pairs, or as a Comma Separated Value (CSV) message. Query Variable name/value pairs are specified as a collection of encoded strings (e.g., blank characters replaced by plus (+) character, etc.) in the form of name=value, with each name/value pair separated by ampersands (&). CSV formatted messages are specified in the body of an HTTP message as a series of data records preceded by a fixed set of header records (see section 4.2.7).

OASIS Nodes shall support the following methods for Users to transfer Input data:

a. HTML: HTML FORM input shall be provided to allow Users to specify the necessary Input data associated with each Input/Response OASIS Template. This may be in the form of fill in blanks, buttons, pull-down selections, etc., and may use either the GET or POST methods. The exact nature and form of these HTML screens are not specified, and may differ between OASIS Nodes.

b. GET Method: The HTTP GET method for specifying Input information in the form of a query string appended to a standard OASIS URL shall be supported. Using this method, the name=value formatted Query Variables preceded by a question mark (?) are appended to the URL. Each ''name'' in a name/value pair corresponds to a Data Element name associated with that Template by both their full name and alias as defined in the Data Dictionary. The ''value'' in a name/value pair represents the value to be associated with the Data Element being specified in the appropriate format as defined in the Data Dictionary and encoded according to the HTTP protocol.

c. POST Method: The HTTP POST method for specifying Input information in the form of a query string in the message body shall be supported. Using this method, the name=value formatted Query Variables shall be transferred to an OASIS Node using the ''Content-length:'' HTTP header to define the length in bytes of the encoded query string and the ''Content-type: application/x-www-form-urlencoded'' HTTP header to identify the data type included in the message body. Each ''name'' in a name/value pair corresponds to a Data Element name associated with that Template. OASIS Nodes shall support the specification of all Data Elements associated with a Template by both their full name and alias as defined in the Data Dictionary. The ''value'' in a name/value pair represents the value to be associated with the Data Element being specified in the appropriate format as defined in the Data Dictionary and encoded according to the HTTP protocol.

d. CSV Format: Comma Separated Value (CSV) formatted Input information transferred in the body of a User's HTTP message shall be supported. The ''Content-length:'' HTTP header shall define the length in bytes of the Input, and the ''Content-type: text/x-oasis-csv'' HTTP header shall be used to identify the data type included in the message body.

4.2.5.2   Response to Input

In response to a validly formatted Input for each Input/Response OASIS Template, the OASIS Node shall return an indication as to the success/failure of the requested action. The OASIS Node shall respond to the Input in one of two forms, based on the OUTPUT_FORMAT, which was input by a User either as a Query Variable or in a CSV format Header Record:

a. HTML: If the User requests the response to have the format of ''HTML'' (OUTPUT_FORMAT=HTML) then the response from the OASIS Node shall be a web page using the HTML format. This shall be the default for all Input/Response Templates invoked using either the FORM, GET or POST methods of input.

b. CSV Format: Comma Separated Value (CSV) format (OUTPUT_FORMAT=DATA) returns the response information in the body of the HTTP response message. The ''Content-length:'' HTTP header shall define the length in bytes of the response, and the ''Content-type: text/x-oasis-csv'' HTTP header shall be used to identify the data type included in the message body. This shall be the default for all Input/Response Templates invoked using the CSV Format methods of input.

4.2.6   Query Variables

4.2.6.1   General

Both Query/Response and Input/Response OASIS Templates shall support the specification of a query string consisting of Query Variables formatted as name/value pairs. OASIS Nodes shall support the specification of Data Element names (''name'' portion of name=value pair) in both the full name and alias forms defined in the Data Dictionary. OASIS Nodes shall support the specification of Query Variables from the User using either the HTTP GET or POST methods. On input, Data Element names and associated values shall be accepted and processed without regard to case. On output, Data Element names and associated values may not necessarily retain the input case, and could be returned in either upper or lower case.

4.2.6.2   Standard Header Query Variables

The following standard Query Variable Data Elements shall be supported for all OASIS Templates and must be entered for each Query by a User:

VERSION
TEMPLATE
OUTPUT_FORMAT

PRIMARY__PROVIDER__CODE
PRIMARY__PROVIDER__DUNS
RETURN__TZ

Since these header Query Variables must be supported for all Templates, they are not listed explicitly in the Template descriptions in Section 4.3

All standard header Query Variables with appropriate values must be entered by the User.

4.2.6.3 Responses to Queries

Responses to Queries will include the following information as a minimum:

TIME__STAMP
VERSION
TEMPLATE
OUTPUT__FORMAT
PRIMARY__PROVIDER__CODE
PRIMARY__PROVIDER__DUNS
RETURN__TZ

The additional information shall include:
a. The requested information as defined by the Template indicated in the Query
b. For CSV downloads, the additional header Data Elements required (see section 4.2.7.3)

4.2.6.4 Multiple Instances

Certain Query Variables may be repeated in a given Query/Response OASIS Template query string. Such multiple instances are documented in the Template definitions using an asterisk (*) after the query variable. When more than one instance of the Query Variable is specified in the query string, OASIS Nodes shall recognize such multiple instances by either the Data Element's full name or alias suffixed with sequential numeric qualifiers starting with the number 1, (e.g., PATH__NAME1=abc&PATH__NAME2=xyz, or PATH1=abc&PATH2=xyz). At least 4 multiple instances will be permitted for each query variable marked with an asterisk (*).

4.2.6.5 Logical Operations

OASIS Nodes shall use the following logical operations when processing Query Variables for Query/Response OASIS Templates. All Query Variables, with the exception of multiple instances of the same Query Variable Data Element, shall be operated on to return information based on the logical-AND of those Query Variables. For example, the query string ''...SELLER__CODE=abc &PATH=xyz...'' should return information associated with only those records that are on transmission path ''xyz'' AND associated with transmission provider ''abc.'' Multiple instances of the same Query Variable shall be operated on as logical-OR. For example, ''...SELLER__CODE=abc &PATH1=xyz&PATH2=opq...'' should return information associated with transmission provider ''abc'' AND either transmission path ''xyz'' OR transmission path ''opq''. Some logical operations may exclude all possibilities, such that the responses may not contain any data.

4.2.6.6 Handling of Time Data Elements

In cases where a single query variable is provided to select information associated with a single template data element that represents a point in time (e.g., TIME__OF__LAST__UPDATE), OASIS Nodes shall return to the User all requested information whose associated data element time value (e.g. TIME__OF__LAST__UPDATE) is equal to or later than the value specified by the query variable. In this case the stop time is implicitly ''now''.

A pair of query variables (e.g. START__TIME—QUEUED and STOP—TIME—QUEUED) that represents the start and stop of a time interval but is associated with one single template data element (e.g. TIME__QUEUED) shall be handled by OASIS Nodes to return to the User all requested information whose associated data element time value falls within the specified time interval.

A pair of query variables (e.g. START__TIME and STOP__TIME query variables) that represents the start and stop of one time interval but is associated with another pair of template data elements (e.g. START__TIME and STOP__TIME of a service offering) that represents a second time interval, shall be handled by OASIS Nodes to return to the User all requested information whose associated data element time interval overlaps any portion of the specified time interval. Specifically, the START__TIME query variable selects all information whose STOP__TIME data element value is later than the START__TIME query variable, and the STOP__TIME query variable selects all information whose START__TIME data element value is earlier than the STOP__TIME query variable. For example:

The transoffering template query string ''START__TIME 970101000000ES&STOP—TIME 970201000000ES'' shall select from the OASIS database all associated offerings whose start/stop times overlap any portion of the time from 00:00 January 1, 1997, to 00:00 February 1, 1997. This would include offerings that (1) started prior to Jan. 1 and stopped any time on or after Jan. 1, and (2) started on or after Jan 1 but before Feb 1.

For changes to and from daylight savings time, either Universal Time or the correct time and zone must be used, based on whether daylight savings time is in effect.

All time values shall be checked upon input to ensure their validity with respect to date, time, time zone, and daylight savings time.

4.2.6.7 Default Values

Query Variables that are not specified by the User may take on default values as appropriate for that Query Variable at the discretion of the OASIS TSIP.

4.2.6.8 Limitations on Queries

OASIS TSIP may establish validation procedures and/or default values for Query Variables to restrict the size and/or performance impact of overly broad queries.

4.2.7 CSV Format

4.2.7.1 General Record Format

OASIS Users shall be able to upload information associated with Input/Response OASIS Templates and download information associated with all OASIS Templates using a standardized Comma Separated Value (CSV) format. CSV formatted data is transferred to/from OASIS Nodes as part of the body of an HTTP message using the ''Content-length:'' HTTP header to define the length in bytes of the message body, and the ''Content-type: text/x-oasis-csv'' HTTP header to identify the data type associated with the message body. CSV formatted data consists of a fixed set of header records followed by a variable number of data records. Each record shall be separated by a carriage return plus line feed (denoted by the symbol ↵ in all examples). The fields within a record shall be delimited by commas (,). All data within a CSV formatted message shall use printable ASCII characters with no other special embedded codes, with the exception of the special encoding requirements associated with text fields.

4.2.7.2 Input Header Records

The following standard header records are required for the uploading of Input data for all Input/Response OASIS Templates:

```
VERSION=nn.n¬
TEMPLATE=aaaaaaaaaa¬
OUTPUT_FORMAT=[DATA] ¬
PRIMARY_PROVIDER_CODE=aaaa¬
PRIMARY_PROVIDER_DUNS=nnnnnnnnn¬
RETURN_TZ=aa¬
DATA_ROWS=nnn¬
COLUMN_HEADERS=[Template data element names separated by commas] ¬
```

The format of the value associated with each of the Input header record Data Elements are dictated by the Data Dictionary.

The value associated with the DATA_ROWS Data Element shall define the total number of data records that follow in the message after the COLUMN_HEADERS record.

The COLUMN_HEADERS record defines, by Data Element name, the data associated with each comma separated column contained in each subsequent data record (row). On Input, either the Data Element's full name or alias listed in the Data Dictionary may be specified.

4.2.7.3 Response Header Records

When explicitly specified using the OUTPUT_FORMAT=DATA Query Variable or implied by the Input of a CSV format message, the OASIS Nodes shall respond with the following standard response header records for all OASIS Templates:

```
REQUEST_STATUS=nnn¬
ERROR_MESSAGE=aaa...¬
TIME_STAMP=yyyymmddhhmmsstz¬
VERSION=nn.n¬
TEMPLATE=aaaaaaaaaa¬
OUTPUT_FORMAT=DATA¬
PRIMARY_PROVIDER_CODE=aaaa¬
PRIMARY_PROVIDER_DUNS=nnnnnnnnn¬
RETURN_TZ=tz¬
DATA_ROWS=nnn¬
COLUMN_HEADERS=[Template data element names separated by commas] ¬
```

The format of the value associated with each of the Response header record Data Elements are dictated by the Data Dictionary.

The value associated with the DATA_ROWS Data Element shall define the total number of data records returned in the message following the COLUMN_HEADERS header record.

The COLUMN_HEADERS record defines, by Data Element name, the data associated with each comma-separated column contained in each subsequent data record (row). In all OASIS Node responses, the Data Element's full name shall be listed in the COLUMN_HEADERS record. The order of the column headings shall be the same as shown in the Templates for URL uploads and downloads. For graphical displays, the Provider may define the order that the Data Element names are shown.

4.2.7.4 Data Records

Data Records immediately follow the standard Input or Response header records. With the exception of data records grouped together as a single "logical record" through the use of Continuation Records, each data record in a CSV formatted Input message represents a single, complete execution of the associated OASIS Template. That is, sending five CSV formatted Input messages for a given Template to the same PRIMARY_PROVIDER_CODE with a single data record per message shall be handled in exactly the same fashion as sending a single CSV formatted Input message for the same Template and PRIMARY_PROVIDER_CODE which contains five data records.

Each field (column) within each data record defines the value to be associated with the corresponding Data Element defined in the COLUMN_HEADERS record. The number of Data Records in the message is defined by the DATA_ROWS header record. The data values associated with each column Data Element are interpreted based on the Data Element type as defined in the Data Dictionary:

a. Numeric Data Elements: All numeric Data Elements shall be represented by an ASCII string of numeric digits in base ten, plus the decimal point.

b. Text Data Elements: Alphabetic and alphanumeric data elements shall be represented as ASCII strings and encoded using the following rules:

• Text strings that do not contain commas (,) or double quotes (") shall be accepted both with and without being enclosed by double quotes.

• Text fields with commas (,) or double quotes (") must be enclosed with double quotes. In addition double quotes within a text field shall be indicated by two double quotes ("").

• The Data Element field length specified in Data Dictionary does not include the additional double quotes necessary to encode text data.

c. Null Data Elements: Null Data Elements shall be represented by two consecutive commas (,,) corresponding to the leading and trailing (if appropriate) Data Element comma separators. Null text strings may optionally be represented by two consecutive double quote characters within the leading and trailing comma separators (i.e., ...,"", ...).

4.2.7.5 Continuation Records

Continuation records shall be used to indicate that the information in multiple rows (records) is part of one logical record. Continuation records will be indicated through the use of a column header called CONTINUATION_FLAG. This column header is either the first column (if in a response to a query) or second column (if in a response to an input) in all Templates permitting continuation records. The first record shall contain a "N" in the CONTINUATION_FLAG column and each following record which is part of a continuation record shall contain a "Y" in this column, thus associating the information in that record with the information in the previous record. An "N" shall indicate that the record is not a continuation record. Any values corresponding to COLUMN_HEADERs other than those explicitly allowed for a particular Template shall be ignored. However commas must be included to properly align the fields.

4.2.7.6 Error Handling in CSV-Formatted Responses

Validity of each record in the CSV-formatted Response to a Template Input shall be indicated through the use of RECORD_STATUS and ERROR_MESSAGE Data Elements which are included in each data record (row) of the Response.

• If no error was encountered in an Input data record, the RECORD_STATUS Data Element in the corresponding Response record shall be returned with a value of 200 (success), and the ERROR_MESSAGE shall be blank.

• If any error is detected in processing an Input data record, it shall be indicated by a RECORD__STATUS Data Element value other than 200. The ERROR__MESSAGE shall be set to an appropriate text message to indicate the source of the error in that data record.

The overall validity of each Template Query or Input shall be indicated in the CSV-formatted Response via the two RE-QUEST__STATUS and ERROR__MESSAGE header records (see section 4.2.7.3):

• If no errors were encountered in processing the User's Input data records, the REQUEST__STATUS shall be returned with the value of 200 (success), and the ERROR__MESSAGE shall be blank.

• If any errors were detected in the Template Input data records, the REQUEST__STATUS value shall be any value other than 200, and the ERROR__MESSAGE shall be set to an appropriate text message to indicate the source of the error.

The OASIS Node shall validate all Input records before returning a Response to the User. All valid records shall be processed by the node, while invalid records shall be identified as erroneous through the use of RECORD__STATUS and ERROR__MESSAGE. The User must correct the invalid fields and resubmit only those records which were invalid. If an error is encountered in a record which is part of a set of Continuation records, then all records belonging to that set must be resubmitted.

4.2.8   Registration Information

4.2.8.1   General

As specified in the Information Access Requirements, OASIS Nodes shall provide a mechanism to register Users of the OASIS Node with a Provider. For all levels of access to OASIS information beyond simple read-only access, OASIS Nodes shall provide a mechanism to identify Users of the OASIS at least to the level of their respective Companies. Both Company and User registration information shall be maintained by the OASIS Node.

4.2.8.2   Company Information

OASIS Templates require that certain Company registration information be maintained. As an extension of the Company registration information of the host, domain and port identifiers for dynamic notification of changes in the Customer's purchase requests, a field should be added to the Company's registration information that would define/identify how notification would be delivered to that Company should a transmission or ancillary purchase request be directed to that Company as a Seller of a transmission or ancillary service. The pertinent information would be either a full HTTP protocol URL defining the protocol, host name, port, path, resource, etc. information or a ''mailto:'' URL with the appropriate mailbox address string. On receipt of any purchase request directed to that Company as SELLER via either the ''transrequest'' or ''ancrequest'' templates, or on submission of any change in request STATUS to that Company as SELLER via either the ''transcust'' or ''anccust'' templates, a notification message formatted as documented for the delivery of notification to the Customer, shall be formatted and directed to the Seller. At a minimum, OASIS Nodes shall maintain the following information for each Company:

a. Company Code: 4 character code for primary transmission providers; 6 character code for eligible customers in accordance with NERC Tagging Information System (TIS) requirements shall be maintained for each Company.

b. Default Contact: Unless specified for each individual user affiliated with the Company, default contact information consisting of a phone number, fax number, and e-mail address shall be maintained for each Company.

c. Provider Affiliation: Each eligible Customer shall be obligated to identify to the OASIS TSIP any affiliation with a Transmission Provider whose ''home page'' is on that OASIS Node.

d. Notification URL: For Companies using the URL notification mechanism for delivery of messages on each change of ancillary/transmission reservation STATUS, each Company shall provide the IP host name and port number to be used in delivering notification messages. OASIS Nodes shall have the right to refuse support for notification to any IP ports other than port 80.

4.2.8.3   User Information

With the exception of ''read-only'' (visitor) access, OASIS Nodes shall as a minimum provide a mechanism to identify Users of the Node with at least their Company. However, OASIS Nodes and Providers shall have the right to require full User identification even for visitor accounts.

To support the required OASIS Template Data Elements, OASIS Nodes shall maintain the following information for each registered User:

• Company
• Name
• Phone
• Fax
• E-mail

In the event no additional User identification/registration information is maintained by the OASIS Nodes, all Template Data Elements referring to ''company, name, phone, fax, e-mail'' for either Customers or Sellers shall default to the Contact Information maintained for that User's Company.

4.2.9   Representation of Time

4.2.9.1   General

It is critical that all Users of OASIS Nodes have a clear and unambiguous representation of time associated with all information transferred to/from OASIS Nodes. For this reason, all Data Elements associated with time in OASIS Nodes shall represent ''wall clock'' times, which are NOT to be confused with other common industry conventions such as ''hour ending.'' For the convenience of the User community, OASIS Nodes shall be allowed to accept the input and display of ''time'' in any acceptable form provided such non-standard representations are CLEARLY labeled on the associated HTML screens. Alternate representations of time in CSV formatted messages shall not be allowed.

The following rules shall be implemented in OASIS Nodes for the representation of time on User entries (Query and Input) and output (Response) Templates.

4.2.9.2   Input Time

All time related Data Elements associated with either the Input or Query of Input/Response or Query/Response OASIS Templates shall be validated according the following rules. If the time zone associated with a time Data Element is associated with either Universal Time (UT) or a ''standard'' time zone (e.g., ES, CS, etc.), OASIS Nodes shall accept and apply a fixed hour offset from Universal Time year-round. If the time zone associated with a time Data Element is specified with a ''daylight savings'' time zone (e.g. ED, CD, etc.), OASIS Nodes shall verify that daylight savings time is in effect for the date/time specified.

If daylight savings time (as specified by the time from 2:00am on the first Sunday of April through 2:00 am on the last Sunday of October) is not in effect, the Users input shall be rejected with an error response. If daylight savings time is in effect, the Users input shall be accepted and the appropriate hours offset from Universal Time shall be applied by OASIS Nodes for conversion to

all other time zones. The input of start/stop times for transactions spanning the crossover day between standard and daylight (and vices versa) times must be made either entirely in standard time (valid year-round), or in two different time zones (xS/xD or xD/xS) for the start and stop times, depending on the time of year.

4.2.9.3 Output (Response) Time

The OASIS Node shall return all time Data Elements in the response to Input/Response or Query/Response OASIS Templates based on either the User specified RETURN_TZ header Query Variable or an appropriate OASIS specific default. OASIS Nodes shall interpret RETURN_TZ to specify:

a. The base time zone for conversion of all time Data Elements (e.g. Eastern, Pacific, etc.)

b. Whether daylight savings time is recognized. For example, a RETURN_TZ=ES would return all time Data Elements in Eastern Standard Time year-round. However, a RETURN_TZ=ED would direct OASIS Nodes to return all time Data Elements in Eastern Standard Time (ES) when daylight savings time is not in effect, and then return all time Data Elements in Eastern Daylight Time (ED) when daylight time is in effect.

4.2.10 Transaction Process

4.2.10.1 Purchase Transactions

Customers shall purchase services from the Seller using the following steps (see Exhibit 4–1):

a. The Templates (transrequest and ancrequest) shall be used by a Customer to enter a request for specific transmission services from a specific Seller. The Customer may enter a BID_PRICE which is different from the OFFER_PRICE in order to try to negotiate a lower price. The OASIS Node sets the initial STATUS of the request to QUEUED. The Customer may set the STATUS_NOTIFICATION to indicate that the OASIS Node must notify the Customer on any change of STATUS of transstatus (see Dynamic Notification). Prior to or commensurate with a Seller's setting of a preconfirmed reservation request's STATUS to ACCEPTED (and by implication CONFIRMED), the Seller must set OFFER_PRICE equal to the value of BID_PRICE as established by the Customer on submission of the request.

b. The Templates (transstatus and ancstatus) shall be used by Customers and Sellers to monitor the status of their transactions in progress. These Templates shall also be used by any Users to review the status of any transactions. The NEGOTIATED_PRICE_FLAG data element is set when the Seller agrees to a BID_PRICE (by setting OFFER_PRICE equal to BID_PRICE) that is different from the previously posted price. It will show ''higher'' when OFFER_PRICE is higher than the posted price, and ''lower'' when the OFFER_PRICE is lower than the posted price.

c. The Templates (transsell and ancsell) shall be used by a Seller both to set a new value into STATUS and to negotiate a price by entering a new OFFER_PRICE which is different from the BID_PRICE entered by the Customer in the transrequest Template. During these negotiations, a Reseller shall formally indicate the approval or disapproval of a transaction and indicate which rights from prior confirmed reservations are to be reassigned. A Primary Provider may, but is not required, to enter transaction approval or disapproval using this Template. The valid STATUS values which may be set by a Seller are: RECEIVED, INVALID, STUDY, COUNTEROFFER, ACCEPTED, REFUSED, SUPERSEDED, DECLINED, DISPLACED, ANNULLED, or RETRACTED.

d. The Customer shall use the transstatus and ancstatus Templates to view the Seller's new offer price and/or approval/disapproval decision.

e. After receiving notification of the transaction's STATUS being set to COUNTEROFFER by the Seller, the Templates (transcust and anccust) shall be used by the Customer to modify the BID_PRICE and set the STATUS to REBID. After negotiations are complete (STATUS set to ACCEPTED by the Seller), the Customer shall formally enter the confirmation or withdrawal of the offer to purchase services for the OFFER_PRICE shown in the transstatus Template. The valid STATUS values which a Customer may set are: REBID, CONFIRMED, or WITHDRAWN.

f. The Seller shall use the transstatus (ancstatus) Template to view the Customer's new bid price and/or confirmation/withdrawal decision, again responding through transsell or ancsell if necessary. If the Seller offers to sell a service at an OFFER_PRICE less than that posted in the transoffering (ancoffering) Template, the transoffering (ancoffering) Template must be updated to reflect the new OFFER_PRICE.

g. For deals consummated off the OASIS Nodes by a Seller, after the Customer has accepted the offering, the Templates (transassign and ancassign) may be used by the Seller to notify the Primary Provider of the transfer of rights to the Customer. Continuation records may be used to indicate the reassigning of rights for a ''profile'' of different assignments and different capacities over different time periods.

h. The source of all User and Seller contact information shall be the User registration process. Therefore, it shall not be input as part of uploads, but shall be provided as part of all transaction downloads.

i. OASIS Nodes shall accept a Seller initiated change in STATUS to ACCEPTED only when OFFER_PRICE matches BID_PRICE (i.e., Seller must set OFFER_PRICE equal to BID_PRICE prior to or coincident with setting STATUS to ACCEPTED).

j. OASIS Nodes shall accept a Customer initiated change in STATUS to CONFIRMED only when BID_PRICE matches OFFER_PRICE (i.e., Customer must set BID_PRICE equal to OFFER_PRICE prior to or coincident with setting STATUS to CONFIRMED).

4.2.10.2 Status Values

The possible STATUS values are:

QUEUED=initial status assigned by TSIP on receipt of ''customer services purchase request''.

INVALID=assigned by TSIP or Provider indicating an invalid field in the request, such as improper POR, POD, source, sink, etc. (Final state).

RECEIVED=assigned by Provider or Seller to acknowledge QUEUED requests and indicate the service request is being evaluated, including for completing the required ancillary services.

STUDY=assigned by Provider or Seller to indicate some level of study is required or being performed to evaluate service request.

REFUSED=assigned by Provider or Seller to indicate service request has been denied due to availability of transmission capability. SELLER_COMMENTS should be used to communicate details for denial of service. (Final state).

COUNTEROFFER=assigned by Provider or Seller to indicate that a new OFFER_PRICE is being proposed.

REBID = assigned by Customer to indicate that a new BID_PRICE is being proposed.

SUPERSEDED = assigned by Provider or Seller when a request which has not yet been confirmed is displaced by another reservation request. (Final state).

ACCEPTED = assigned by Provider or Seller to indicate the service request at the designated OFFER_PRICE has been approved/accepted. If the reservation request was submitted PRECONFIRMED, the OASIS Node shall immediately set the reservation status to CONFIRMED. Depending upon the type of ancillary services required, the Seller may or may not require all ancillary service reservations to be completed before accepting a request.

DECLINED = assigned by Provider or Seller to indicate that the BID_PRICE is unacceptable and that negotiations are terminated. SELLER_COMMENTS should be used to communicate reason for denial of service. (Final state).

CONFIRMED = assigned by Customer in response to Provider or Seller posting ''ACCEPTED'' status, to confirm service. Once a request has been ''CONFIRMED'', a transmission service reservation exists. (Final state, unless overridden by DISPLACED or ANNULLED state).

WITHDRAWN = assigned by Customer at any point in request evaluation to withdraw the request from any further action. (Final state).

DISPLACED = assigned by Provider or Seller when a ''CONFIRMED'' reservation from a Customer is displaced by a longer term reservation and the Customer has exercised right of first refusal (i.e. refused to match terms of new request). (Final state).

ANNULLED = assigned by Provider or Seller when, by mutual agreement with the Customer, a confirmed reservation is to be voided. (Final state).

RETRACTED = assigned by Provider or Seller when the Customer fails to confirm or withdraw the request within the required time period. (Final state).

The following diagram can be used as a business process guideline; however, individual tariffs will dictate specific allowed actions between states.
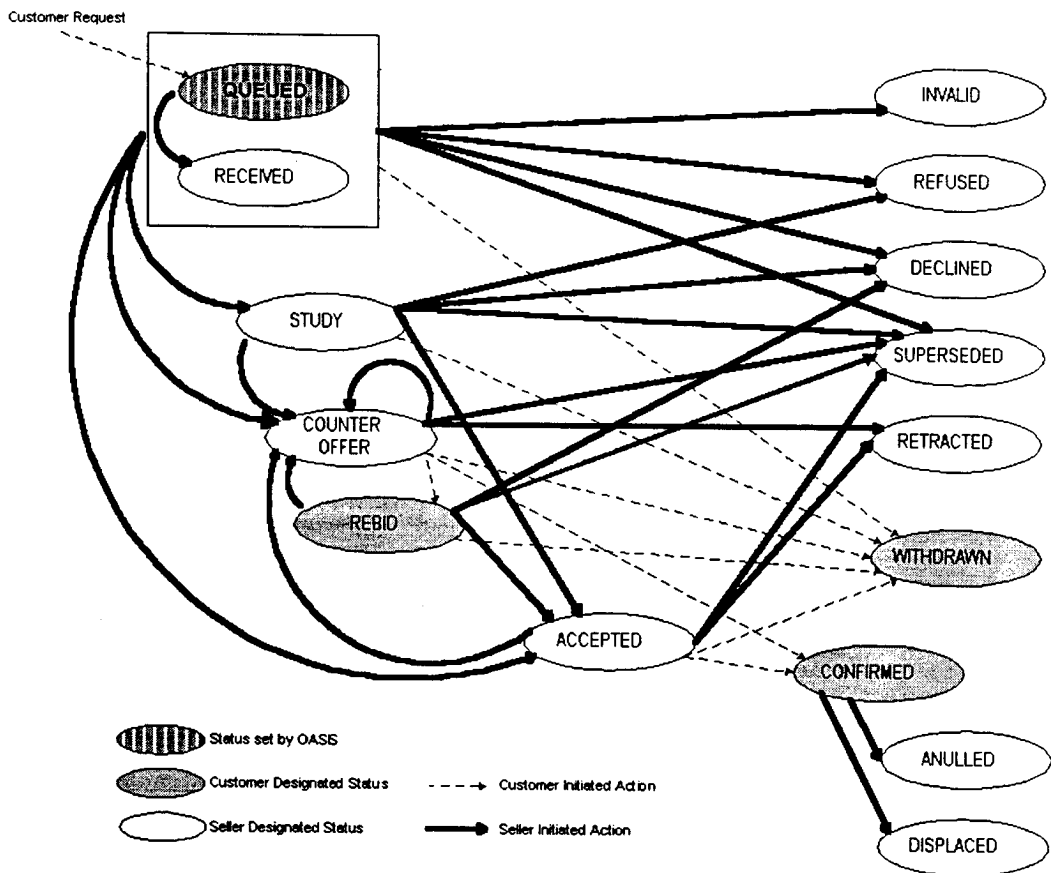
BILLING CODE 6717–01–P

Exhibit 4-1 - State Diagram of Purchase Transactions

4.2.10.3 Dynamic Notification

Customers may specify the delivery of dynamic notification messages on each change in STATUS of an ancillary or transmission service reservation. OASIS Nodes shall support the delivery of dynamic notification messages through either the HTTP protocol or by electronic mail. The selection of which mechanism is used and the contents of the messages delivered to the client program or e-mail address is defined by the content of the STATUS_NOTIFICATION data element as described in the next subsections.

Regardless of whether this dynamic notification method is used or not, it shall still remain the User's responsibility to get the desired information, possibly through the use of a periodic "integrity request". OASIS Nodes shall not be obligated or liable to guarantee delivery/receipt of messages via the STATUS_NOTIFICATION mechanism other than on a "best effort" basis.

As an extension of the Company registration information of the host, domain and port identifiers for dynamic notification of changes in the Customer's purchase requests, a field should be added to the Company's registration information that would define/ identify how notification would be delivered to that Company should a transmission or ancillary purchase request be directed to that Company as a Seller of a transmission or ancillary service. The pertinent information would be either a full HTTP protocol URL defining the protocol, host name, port, path, resource, etc. information or a "mailto:" URL with the appropriate mailbox address string. On receipt of any purchase request directed to that Company as SELLER via either the "transrequest" or "ancrequest" templates, or on submission of any change in request STATUS to that Company as SELLER via either the "transcust" or "anccust" templates, a notification message formatted as documented for the delivery of notification to the Customer, shall be formatted and directed to the Seller. This extension of dynamic notification is required only where the Transmission Provider has programmed its computer system for its own notification.

4.2.10.3.1 HTTP Notification

OASIS Nodes shall deliver dynamic notification to a client system based on HTTP URL information supplied in part by the STATUS_NOTIFICATION data element and by information supplied as part of the Customer's Company registration information. HTTP URL's are formed by the concatenation of a protocol field (i.e., http:), a domain name (e.g., //www.tsin.com), a port designation (e.g., :80), and resource location information.

The STATUS_NOTIFICATION data element shall contain the protocol field "http:", which designates the notification method/ protocol to be used, followed by all resource location information required; the target domain name and port designations shall be inserted into the notification URL based on the Customer's Company registration information. The resource location information may include directory information, cgi script identifiers and URL encoded query string name/value pairs as required by the Customer's application. An OASIS Node performs no processing on the resource location information other than to include it verbatim along with the protocol, domain name and port information when forming the URL that will be used to deliver the HTTP protocol notification message.

For example, Company XYZ has established the domain name and port designations of "//oasistc.xyz.com:80" as part of their registration information.

When a transmission reservation is submitted by one of Company XYZ's users (the Customer), and includes a STATUS_NOTIFICATION data element with the value of "http:cgi-bin/status?DEAL_REF=8&REQUEST_REF=173", an OASIS Node shall deliver an HTTP notification message using the URL: http://oasistc.xyz.com:80/cgi-bin/status?DEAL_REF=8&REQUEST_REF=173

If the STATUS_NOTIFICATION field contained only the "http:" protocol designation, the notification message would be delivered using the URL: http://oasistc.xyz.com:80

The contents of the HTTP protocol notification message delivered by an OASIS Node shall consist of the complete URL created by combining fields from the STATUS_NOTIFICATION data element and Company registration information as part of an HTTP POST method request. In addition to the POST method HTTP header record, OASIS Nodes shall also append the CSV formatted output of the transstatus template information for that particular reservation using the standard Content-type: text/x-oasis-csv and appropriate Content-length: HTTP header records. OASIS Nodes shall use a Primary Provider specific default value for RETURN_TZ in formulating the transstatus response information.

Continuing with the previous example, the important records in the HTTP notification message that would be delivered to Company XYZ for the transmission reservation request submitted to Primary Provider ABC and given an ASSIGNMENT_REF of 245 would be,

```
POST http://oasistc.xyz.com:80/cgi-bin/status?DEAL_REF=8&REQUEST_REF=173 HTTP/1.0
Content-type: text/x-oasis-csv
Content-length: <byte count of remainder of message>
REQUEST_STATUS=200
TIME_STAMP=<appropriate value>
VERSION=1.3
TEMPLATE=transstatus
OUTPUT_FORMAT=DATA
PRIMARY_PROVIDER_CODE=ABC
PRIMARY_PROVIDER_DUNS=123456789
RETURN_TZ=<appropriate value for ABC>
DATA_ROWS=1
COLUMN_HEADERS=CONTINUATION_FLAG, ASSIGNMENT_REF, . . .
N, 245, . . .
```

In the event an error is encountered delivering the HTTP notification message to the target URL as indicated by a failure of the target system to respond, or return of HTTP response status of 408, 500, 503, or 504, OASIS Nodes shall retry up to two more times, once every 5 minutes.

4.2.10.3.2 E-mail Notification

OASIS Nodes shall deliver dynamic notification to an e-mail address based on Mailto: URL information specified in the STATUS_NOTIFICATION data element. Mailto: URL's consist of the "mailto:" protocol identifier and an Internet mail address to which the notification message should be sent.

The STATUS_NOTIFICATION data element shall contain the protocol field "mailto:", which designates the notification method/ protocol to be used, followed by an Internet mail address in conformance with RFC 822. OASIS Nodes shall send an e-mail message to the Internet mail address containing the following information: "To:" set to the mail address from the STATUS_NOTIFICATION data element, "From:" set to an appropriate mail address of the OASIS Node, "Subject:" shall be the transstatus template name followed by the value of the ASSIGNMENT_REF data element and the current value for the STATUS data element associated with the reservation (e.g., "Subject: transstatus 245 ACCEPTED"), and the body of the message shall contain the CSV formatted output of the transstatus template information for that particular reservation. OASIS Nodes shall use a Primary Provider specific default value for RETURN_TZ in formulating the transstatus response information.

4.2.11 Reference Identifiers

The TSIP shall assign a unique reference identifier, ASSIGNMENT_REF, for each Customer request to purchase capacity or services. The value of ASSIGNMENT_REF may be used to imply the order in which the request was received by the TSIP. This identifier

will be used to track the request through various stages, and will be kept with the service through out its life. Whenever the service is resold, a new ASSIGNMENT__REF number is assigned, but previous ASSIGNMENT__REF numbers are also kept so that a chain of all transactions related to the service can be maintained.

The TSIP shall assign a unique reference identifier, POSTING__REF, to each Seller's offerings of service for sale or other information (messages) posted on an OASIS Node. This identifier shall be referenced by the Seller in any/all subsequent template submissions which would result in a modification to or deletion of that specific offering or message. Optionally, Customers may also refer to this POSTING__REF in their subsequent purchase requests to aid in identifying the specific offering associated with the purchase request.

Sellers may aggregate portions of several previous transmission service reservations to create a new offering to be posted on an OASIS Node. When all or a portion of such offerings are sold, the Seller (original Customer) is obligated to notify the Primary Provider of the sale/assignment by inserting appropriate reassignment information on the OASIS Node (via the transsell or transassign templates) or by some other approved method. This reassignment information consists of the ASSIGNMENT__REF value assigned to the original reservation(s) and the time interval and capacity amount(s) being reassigned to the new reservation. These values are retained in the REASSIGNED__REF, REASSIGNED__START__TIME, REASSIGNED__STOP__TIME, and REASSIGNED__CAPACITY data elements.

Sellers may identify their service offerings received from Customers through the Seller supplied value specified for the SALE__REF data element.

Customers may track their purchase requests through the Customer supplied values specified for the DEAL__REF and REQUEST__REF data elements. Customers may also use POSTING__REF and SALE__REF in their purchase requests to refer back to posted offerings.

4.2.12 Linking of Ancillary Services to Transmission Services

The requirements related to ancillary services are shown in transoffering (and updated using transupdate) using the ANC__SVC__REQ data element containing the following permitted values: SC:x; RV:x; RF:x; EI:x; SP:x; SU:x;

Where SC, RV, RF, EI, SP and SU are the ancillary services 1 through 6 described in the Proforma Tariff,

- SC—Scheduling, system Control and dispatch
- RV—Reactive supply and Voltage control
- RF—Regulation and Frequency response
- EI—Energy Imbalance
- SP—SPinning reserve
- SU—SUpplemental reserve

and where x={M,R,O,U} means one of the following:

- *M*andatory, which implies that the Primary Provider must provide the ancillary service
- *R*equired, which implies that the ancillary service is required, but not necessarily from the Primary Provider
- *O*ptional, which implies that the ancillary service is not necessarily required, but could be provided
- *U*nknown, which implies that the requirements for the ancillary service are not known at this time

Ancillary services may be requested by a User from the Provider at the same time as transmission services are requested via the transrequest template, by entering the special codes into ANC__SVC__LINK to represent the Proforma ancillary services 1 through 6 (or more) as follows:

SC:(AA); RV: (AA); RF: (AA[:xxx[:yyy[:nnn]]]); EI: (AA[:xxx[:yyy[:nnn]]]); SP: (AA[:xxx[:yyy[:nnn]]]); SU: (AA[:xxx[:yyy[:nnn]]]);
{Registered}:(AA[:xxx[:yyy[:nnn]]])

Where AA is the appropriate PRIMARY__PROVIDER__CODE, SELLER__CODE, or CUSTOMER__CODE, and represents the company providing the ancillary services. "AA" may be unspecified for "xxx" type identical to "FT", in which case the ":" character must be present and precede the "FT" type.

If multiple "AA" terms are necessary, then each "AA" grouping will be enclosed within parenthesis, with the overall group subordinate to the ANC__SVC__TYPE specified within parenthesis.

And where xxx represents either:

—"FT" to indicate that the Customer will determine ancillary services at a future time, or
—"SP" to indicate that the Customer will self-provide the ancillary services, or
—"RQ" to indicate that the Customer is asking the OASIS Node to initiate the process for making an ancillary services reservation with the indicated Provider or Seller on behalf of the Customer. The Customer must then continue the reservation process with the Provider or Seller. If the transmission services request is for preconfirmed service, then the ancillary services shall also be preconfirmed, or
—"AR" to indicate an assignment reference number sequence follows.

The terms "yyy" and "nnn" are subordinate to the xxx type of "AR". yyy represents the ancillary services reservation number (ASSIGMNENT__REF) and nnn represents the capacity of the reserved ancillary services. Square brackets are used to indicated optional elements and are not used in the actual linkage itself. Specifically, the :yyy is applicable to only the "AR" term and the :nnn may optionally be left off if the capacity of ancillary services is the same as for the transmission services, and optionally multiple ancillary reservations may be indicated by additional (xxx[:yyy[:nnn]]) enclosed within parenthesis. If no capacity amount is indicated, the required capacity is assumed to come from the ancillary reservations in the order indicated in the codes, on an "as-needed" basis.

Examples

Example 1

Assume ancillary services SC and RV are mandatory from the TP, whose code is "TPEL", and ancillary services RF, EI, SP and SU are required, but will be defined at a future time.
"SC: (TPEL:RQ); RV: (TPEL:RQ); RF:(:FT); EI:(:FT); SP:(:FT); SU:(:FT)";

Example 2

Assume ancillary services SC and RV are mandatory from the TP, whose code is "TPEL", and RF, EI, SP and SU are self-supplied. The customer code is "CPSE"
"SC: (TPEL:RQ); RV: (TPEL:RQ); RF:(CPSE:SP); EI:(CPSE:SP); SP:(CPSE:SP); SU:(CPSE:SP)"

Example 3

Assume ancillary services SC and RV are mandatory from the TP, whose code is "TPEL", and ancillary services RF, EI, SP and SU were purchased via a prior OASIS reservation from seller "SANC" whose reservation number was "39843". There is sufficient capacity within the Ancillary reservation to handle this Transmission reservation.

''SC:(TPEL:RQ); RV:(TPEL:RQ); RF:(SANC:AR:39843); EI:(SANC:AR:39843) SP:(SANC:AR:39843); SU:(SANC:AR:39843)''

Example 4

Assume ancillary services SC and RV are mandatory from the TP, whose code is ''TPEL'', and ancillary services RF, EI, SP and SU were purchased via prior OASIS reservations from sellers ''SANC'' and ''TANC'', whose reservation numbers where ''8763'' and ''9824'' respectively. There is not sufficient capacity within the Ancillary reservation from seller ''SANC'' to handle this Transmission reservation. In this case the OASIS reservation number 8763 will be depleted for the time frame specified within the transmission reservation and the remaining required amount will come from reservation number ''9824''.

''SC:(TPEL:RQ); RV:(TPEL:RQ); RF:((SANC:AR:8763)(TANC:AR:9824));
EI:((SANC:AR:8763)(TANC:AR:9824)); SP:((SANC:AR:8763)(TANC:AR:9824));
SU:((SANC:AR:8763)(TANC:AR:9824))''

Example 5

Assume a transmission reservation in the amount of 100 mw/hour for a period of one day is made. Ancillary services SC and RV are mandatory from the TP, whose code is ''TPEL'', and ancillary services RF, EI, SP and SU were purchased via prior OASIS reservations from sellers ''SANC'' and ''TANC'', whose reservation numbers where ''8763'' and ''9824'' respectively. There is sufficient capacity within the Ancillary reservation from seller ''SANC'' to handle this Transmission reservation, however the purchaser wishes to use only ''40 mw's'' from this seller. In this case the OASIS reservation number 8763 will be depleted in the amount of ''40 mw's'' for the time frame specified within the transmission reservation and the remaining required amount will come from reservation number ''9824''.

''SC:(TPEL:RQ); RV:(TPEL:RQ); RF:((SANC:AR:8763:40)(TANC:AR:9824));
EI:((SANC:AR:8763:40)(TANC:AR:9824));SP:((SANC:AR:8763:40)(TANC:AR:9824));
SU:((SANC:AR:8763:40)(TANC:AR:9824))''

4.3 Template Descriptions

The following OASIS Templates define the Data Elements in fixed number and sequence which must be provided for all data transfers to and from the OASIS Nodes. The definitions of the data elements are listed in the Data Element Dictionary in Appendix A.

TSIPs must provide a more detailed supplemental definition of the list of Sellers, Paths, Point of Receipt (POR), Point of Delivery (POD), Capacity Types, Ancillary Service Types and Templates on-line, clarifying how the terms are being used (see LIST Template). If POR and POD are not used, then Path Name must include directionality.

Many of the Templates represent query-response interactions between the User and the OASIS Node. These interactions are indicated by the ''Query'' and ''Response'' section respectively of each Template. Some, as noted in their descriptions, are Input information, sent from the User to the OASIS Node. The Response is generally a mirror of the Input, although in some Templates, the TSIP must add some information.

4.3.1 Template Summary

The following table provides a summary of the process areas, and Templates to be used by Users to query information that will be downloaded or to upload information to the Primary Providers. These processes define the functions that must be supported by an OASIS Node.

Process area	Process name	Template(s)
4.3.2 Query/Response of Posted Services Being Offered	Query/Response Transmission Capacity Offerings	transoffering
	Query/Response Ancillary Service Offerings	ancoffering
4.3.3 Query/Response of Services Information	Query/Response Transmission Services	transserv
	Query/Response Ancillary Services	ancserv
4.3.4 Query/Response of Schedules and Curtailments	Query/Response Transmission Schedules	schedule
	Query/Response Curtailments	curtail
4.3.5 Query/Response of Lists of Information	Query/Response List of Sellers, Paths, PORs, PODs, Capacity Types, Ancillary Service Types, Templates.	list
4.3.6 Query/Response of Audit Log	Query/Response Audit Log	auditlog
4.3.7 Purchase	Request Purchase of Transmission	transrequest
Transmission Services	Services (Input)	
	Query/Response Status of Transmission Service Request ...	transstatus
	Seller Approves Purchase (Input)	transsell
	Customer Confirm/Withdraw Purchase of Transmission Service (Input).	transcust
	Alternate POD/POR	transalt
	Seller Reassign Rights (Input)	transassign
4.3.8 Seller Posting of Transmission Service	Seller Post Transmission Service for Sale (Input)	transpost
	Seller Modify (Remove) Transmission Service for Sale (Input).	transupdate
4.3.9 Purchase of Ancillary Service	Request Purchase of Ancillary Service (Input)	ancrequest
	Query/Response Status of Ancillary Service Request	ancstatus
	Seller Approves Purchase of Ancillary Service (Input)	ancsell
	Customer Accept/Withdraw Purchase of Ancillary Service (Input).	anccust
	Seller Reassign Rights (Input)	ancassign
4.3.10 Seller Post Ancillary Service	Seller Post Ancillary Service (Input)	ancpost
	Seller Modify (Remove) Ancillary Service for Sale (Input)	ancupdate
4.3.11 Informal Messages	Post Want Ads (Input)	messagepost
	Query/Response Want Ads	message
	Delete Want Ad (Input)	messagedelete
	Personnel Transfers	personnel
	Discretion	discretion
	Standards of Conduct	stdconduct

4.3.2 Query/Response of Posted Services Being Offered

The following Templates define the information to be posted on services offered for sale. All discounts for service negotiated by a Customer and Primary Provider (as Seller) at a price less than the currently posted offering price shall be posted on OASIS Nodes in such a manner as to be viewed using these Templates. All secondary market and/or third-party posting and Primary Provider offerings for like services shall also be viewed using these templates.

The Query must start with the standard header Query Variable Data Elements, listed in Section 4.2.6.2, and may include any valid combination of the remaining Query Variables, shown below in the Templates. START_TIME and STOP_TIME is the requested time interval for the Response to show all offerings which intersect that interval (see Section 4.2.6.6). TIME_OF_LAST_UPDATE can be used to specify all services updated since a specific point in time.

Query variable listed with an asterisk (*) can have at least 4 multiple instances defined by the user in making the query.

In the Response, OFFER_START_TIME and OFFER_STOP_TIME indicate the ''request time window'' within which a customer must request a service in order to get the posted OFFER_PRICE. START_TIME and STOP_TIME indicate the time frame that the service is being offered for.

The SERVICE_DESCRIPTION data element shall define any attributes and/or special terms and conditions applicable to the offering that are not listed under the standard SERVICE_DESCRIPTION associated with the product definition supplied in the *transserv* or *ancserv* templates.

SERVICE_DESCRIPTION shall be null if there are no unique attributes or terms associated with the offering.

4.3.2.1 Transmission Capacity Offerings Available for Purchase (transoffering)

Transmission Services Offerings Available for Purchase (transoffering) is used to offer transmission services that are posted for sale by the Primary Provider or Resellers. At a minimum this Template must be used to post TTC and each increment and type of service required by applicable regulations and the Primary Provider's tariffs.

This Template must include, for each posted path, the Primary Provider's TTC, firm ATC and non-firm ATC, as required by FERC orders 888 and 889 (plus revisions) and/or if provided in the Primary Provider's tariff. Additional transmission services may be offered with the same Template.

The POSTING_REF is set by the TSIP when an offering is posted and can be used in *transrequests* to refer to a particular offering.

A User may query information about services available from all sellers for the time frame specified by the SERVICE_INCREMENT data element, namely, hourly, daily, weekly, monthly, or yearly.

Template: transoffering

1. Query

PATH_NAME*
SELLER_CODE*
SELLER_DUNS*
POINT_OF_RECEIPT*
POINT_OF_DELIVERY*
SERVICE_INCREMENT*
TS_CLASS*
TS_TYPE*
TS_PERIOD*
START_TIME (of transmission services)
STOP_TIME (of transmission services)
POSTING_REF
TIME_OF_LAST_UPDATE

2. Response

The response is one or more records showing the requested service information. Note that the Customer will receive as a series of records spanning all the SELLER_CODEs, PATH_NAMEs, PORs, PODs, TS_xxx, and the START_TIME/STOP_TIME specified in the query. The SALE_REF is a value provided by the SELLER to identify the transmission service product being sold. The ANC_SVC_REQ indicates all ancillary services required for the specified transmission services. All Template elements are defined in the Data Element Dictionary.

TIME_OF_LAST_UPDATE
SELLER_CODE
SELLER_DUNS
PATH_NAME
POINT_OF_RECEIPT
POINT_OF_DELIVERY
INTERFACE_TYPE
OFFER_START_TIME
OFFER_STOP_TIME
START_TIME
STOP_TIME
CAPACITY
SERVICE_INCREMENT
TS_CLASS
TS_TYPE
TS_PERIOD
TS_WINDOW
TS_SUBCLASS
ANC_SVC_REQ
SALE_REF
POSTING_REF
CEILING_PRICE
OFFER_PRICE
PRICE_UNITS
SERVICE_DESCRIPTION (if null, then look at *transserv*)
NERC_CURTAILMENT_PRIORITY
OTHER_CURTAILMENT_PRIORITY
SELLER_NAME
SELLER_PHONE

SELLER__FAX
SELLER__EMAIL
SELLER__COMMENTS

4.3.2.2 Ancillary Services Available for Purchase (ancoffering)

Ancillary Services Available for Purchase *(ancoffering)* is used to provide information regarding the ancillary services that are available for sale by all sellers (both Primary Provider and Third Party Sellers).

Template: ancoffering

1. Query

SELLER__CODE*
SELLER__DUNS*
CONTROL__AREA*
SERVICE__INCREMENT*
ANC__SERVICE__TYPE*
START__TIME
STOP__TIME
POSTING__REF
TIME__OF__LAST__UPDATE

2. Response

TIME__OF__LAST__UPDATE
SELLER__CODE
SELLER__DUNS
CONTROL__AREA
OFFER__START__TIME
OFFER__STOP__TIME
START__TIME
STOP__TIME
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
SALE__REF
POSTING__REF
CEILING__PRICE
OFFER__PRICE
PRICE__UNITS
SERVICE__DESCRIPTION (if blank, then look at *ancserv*)
SELLER__NAME
SELLER__PHONE
SELLER__FAX
SELLER__EMAIL
SELLER__COMMENTS

4.3.3 Query/Response of Services Information

4.3.3.1 Transmission Services (transserv)

Transmission Services (*transserv*) is used to provide additional information regarding the transmission services SERV-ICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, TS__WINDOW, NERC__CURTAILMENT__PRIORITY, and OTHER__CURTAILMENT__PRIORITY that are available for sale by a Provider in the Templates in Section 4.3.2. This Template is used to summarize Provider tariff information for the convenience of the User. The Provider also sets PRICE__UNITS with this Template.

Template: transserv

1. Query

TIME__OF__LAST__UPDATE

2. Response

TIME__OF__LAST__UPDATE
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
CEILING__PRICE
PRICE__UNITS
SERVICE__DESCRIPTION
NERC__CURTAILMENT__PRIORITY
OTHER__CURTAILMENT__PRIORITY
TARIFF__REFERENCE

4.3.3.2 Ancillary Services (ancserv)

Ancillary Services (*ancserv*) is used to provide additional information regarding the ancillary services that are available for sale by a Provider in the Templates in Section 4.3.2. This Template is used to summarize Provider tariff information for the convenience of the User. The Provider also sets PRICE__UNITS with this Template.

Template: ancserv

1. Query

TIME__OF__LAST__UPDATE

2. Response

TIME__OF__LAST__UPDATE

SERVICE__INCREMENT
ANC__SERVICE__TYPE
CEILING__PRICE
PRICE__UNITS
SERVICE__DESCRIPTION
TARIFF__REFERENCE

4.3.4 Query/Response of Schedules and Curtailments

4.3.4.1 Hourly Schedule (schedule)

Hourly Schedule (*schedule*) is used to show what a Provider's scheduled transmission capacity usage actually was for specific Paths. All the information provided is derived from that in the transmission reservation (see Template *transstatus*), except CAPACITY__SCHEDULED, which is the amount of the reservation which was scheduled. Posting of the schedules is organized around the transmission reservations, not the energy schedules. This may require the Primary Provider to map schedules back to the reservation. These records would have to be created for all reservations/schedules done off the OASIS Node during the operations scheduling period.

Template: schedule

1. Query

PATH__NAME*
SELLER__CODE*
SELLER__DUNS*
CUSTOMER__CODE*
CUSTOMER__DUNS*
POINT__OF__RECEIPT*
POINT__OF__DELIVERY*
SERVICE__INCREMENT*
TS__CLASS*
TS__TYPE*
TS__PERIOD*
START__TIME
STOP__TIME
TIME__OF__LAST__UPDATE
ASSIGNMENT__REF

2. Response

TIME__OF__LAST__UPDATE
SELLER__CODE
SELLER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
CUSTOMER__CODE
CUSTOMER__DUNS
AFFILIATE__FLAG
START__TIME (start time of schedule)
STOP__TIME (stop time of schedule)
CAPACITY (reserved)
CAPACITY__SCHEDULED (total of energy scheduled for this customer for this reservation for this hour)
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
NERC__CURTAILMENT__PRIORITY
OTHER__CURTAILMENT__PRIORITY
ASSIGNMENT__REF (Last rights holder)

4.3.4.2 Curtailment/Interruption (curtail)

CURTAILMENT/INTERRUPTION (*curtail*) provides additional information about the actual curtailment of transmission reservations that have been scheduled for energy exchange. All fields are derived from the reservation except the CAPACITY__CURTAILED, CURTAILMENT__REASON and CURTAILMENT__OPTIONS. These fields provide information on the reasons for the curtailment, procedures to be followed and options for the Customer, if any, to relieve the curtailment.

Template: curtail

1. Query
PATH__NAME*
SELLER__CODE*
SELLER__DUNS*
CUSTOMER__CODE*
CUSTOMER__DUNS*
POINT__OF__RECEIPT*
POINT__OF__DELIVERY*
SERVICE__INCREMENT*
TS__CLASS*
TS__TYPE*
TS__PERIOD*
START__TIME
STOP__TIME
TIME__OF__LAST__UPDATE
ASSIGNMENT__REF

2. Response

TIME__OF__LAST__UPDATE

SELLER__CODE
SELLER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
CUSTOMER__CODE
CUSTOMER__DUNS
AFFILIATE__FLAG
START__TIME (Start time of curtailment)
STOP__TIME (Stop time of curtailment)
CAPACITY (Capacity reserved)
CAPACITY__SCHEDULED
CAPACITY__CURTAILED
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
NERC__CURTAILMENT__PRIORITY
OTHER__CURTAILMENT__PRIORITY
CURTAILMENT__REASON
CURTAILMENT__PROCEDURES
CURTAILMENT__OPTIONS
ASSIGNMENT__REF

4.3.5 Query/Response of Lists of Information

4.3.5.1 List (list)

LIST (*list*) is used to provide lists of valid names. The minimum set of lists is LIST, SELLER__CODE, PATH__NAME, POINT__OF__RECEIPT, POINT__OF__DELIVERY, SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, TS__WINDOW, NERC__CURTAILMENT__PRIORITY, OTHER__CURTAILMENT__PRIORITY, ANC__SERVICE__TYPE, CATEGORY, and TEMPLATE. These names may be used to query information, post or request services.

Template: list

1. Query

LIST__NAME
TIME__OF__LAST__UPDATE

2. Response

TIME__OF__LAST__UPDATE
LIST__NAME
LIST__ITEM
LIST__ITEM__DESCRIPTION

4.3.6 Query/Response to Obtain the Audit log

4.3.6.1 Audit Log Information (auditlog)

AUDIT LOG INFORMATION (*auditlog*) is used to provide a means of accessing the required audit information. The TSIP will maintain two types of logs:

a. **LOG OF ALL CHANGES** to posted TS Information, such as CAPACITY. This log will record as a minimum the time of the change, the Template name, the name of the Template data element changed and the old and new values of the Template data element.

b. **A COMPLETE RECORD OF ALL TRANSACTION EVENTS**, such as those contained in the Templates 4.3.8, 4.3.9 and 4.3.10. For transaction event logs, the response will include: TIME__STAMP, TEMPLATE, ELEMENT__NAME, AND NEW__DATA. In this case the value of OLD__DATA in not applicable.

Template: auditlog

1. Query

START__TIME (search against audit log)
STOP__TIME (search against audit log)
　2. Response
ASSIGNMENT__REF or POSTING__REF
TIME__STAMP
TEMPLATE
ELEMENT__NAME (for data elements whose values have changed)
OLD__DATA
NEW__DATA

4.3.7 Purchase Transmission Services

The following Templates shall be used by Customers and Sellers to transact purchases of services.

4.3.7.1 Customer Capacity Purchase Request (transrequest)

The **CUSTOMER CAPACITY PURCHASE REQUEST** (Input) (*transrequest*) is used by the Customer to request the purchase of transmission services. The response simply acknowledges that the Customer's request was received by the OASIS Node. It does not imply that the Seller has received the request. Inputting values into the reference Data Elements is optional.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

Supporting ''profiles'' of service, which request different capacities (and optionally price) for different time periods within a single request, is at the discretion of the Primary Provider. Continuation records may be used to indicate requests for these service profiles. Each segment of a profile is represented by the data elements CAPACITY, START__TIME, and STOP__TIME, which define the intervals

in time over which a non-zero MW demand is being requested. The initial segment of a profile is defined by the CAPACITY, START__TIME and STOP__TIME data elements specified in the first/only record submitted; subsequent segments are specified in continuation records each containing the appropriate CAPACITY, START__TIME and STOP__TIME values defining the segment. Provider's may optionally support price negotiation on segments of a profiled reservation request. In this case, the BID__PRICE data element is also included in each continuation record. If the BID__PRICE data element is not specified in the continuation records, the BID__PRICE specified in the first/only record submitted will be applied to the entire reservation request.

For requesting transmission services which include multiple paths, only the following fields may be redefined in a continuation record for the transrequest Template: PATH__NAME. Supporting multiple paths is at the discretion of the Provider.

The START__TIME and STOP__TIME indicate the requested period of service.

When the request is received at the OASIS Node, the TSIP assigns a unique ASSIGNMENT__REF value and queues the request with a time stamp. The STATUS for the request is QUEUED.

Specification of a value YES in the PRECONFIRMED field authorizes the TSIP to automatically change the STATUS field in the transstatus Template to CONFIRMED when that request is ACCEPTED by the Seller.

Template: transrequest

1. Input

CONTINUATION__FLAG
SELLER__CODE (Primary or Reseller)
SELLER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
CAPACITY
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
STATUS__NOTIFICATION
START__TIME
STOP__TIME
BID__PRICE
PRECONFIRMED
ANC__SVC__LINK
POSTING__REF (Optionally set by Customer)
SALE__REF (Optionally set by Customer)
REQUEST__REF (Optionally set by Customer)
DEAL__REF (Optionally set by Customer)
CUSTOMER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF (assigned by TSIP)
SELLER__CODE
SELLER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
CAPACITY
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
STATUS__NOTIFICATION
START__TIME
STOP__TIME
BID__PRICE
PRECONFIRMED
ANC__SVC__LINK
POSTING__REF
SALE__REF
REQUEST__REF
DEAL__REF
CUSTOMER__COMMENTS
ERROR__MESSAGE

4.3.7.2   Status of Customer Purchase Request (transstatus)

The Status of Customer Purchase Request (transstatus) is provided upon the request of any Customer or Provider to indicate the current status of one or more reservation records. Users may also view any transaction's status. However, the SOURCE and SINK may be masked for User requests until Transmission Providers must make source and sink information available at the time the request status posting is updated to show that a transmission request is confirmed.

Continuation records may be returned in association with a transmission reservation to convey information regarding: 1) sale or assignment of transmission rights on the secondary market (reassignments), 2) profiled requests, or 3) service over multiple paths. When a transmission reservation request is the result of a sale or assignment of transmission rights on the secondary market, the

identity of the original reservation, capacity, and time interval over which rights are assigned to the new reservation are defined by the data elements REASSIGNED__REF, REASSIGNED__CAPACITY, REASSIGNED__START__TIME, and REASSIGNED__STOP__TIME. These data elements will be returned in continuation records when more than one set of reassignment information is associated with a reservation. If the reservation has an associated profile (support for reservation profiles is at the discretion of the Provider), CAPACITY, START__TIME and STOP__TIME for the segments of the profile will be returned in continuation records. If the Provider supports negotiation of price on each segment of a profiled request, BID__PRICE and OFFER__PRICE will also be returned with CAPACITY, START__TIME and STOP__TIME. If the Provider supports reservations submitted on multiple paths, multiple PATH__NAMEs associated with the reservation would be returned in continuation records.

The AFFILIATE__FLAG will be set by the TSIP to indicate whether or not the Customer is an affiliate of the Primary Provider. The NEGOTIATED__PRICE__FLAG will be set by the TSIP to indicate whether the OFFER__PRICE is higher, lower, or the same as the BID__PRICE.

Template: transstatus

1. Query

SELLER__CODE*
SELLER__DUNS*
CUSTOMER__CODE*
CUSTOMER__DUNS*
PATH__NAME*
POINT__OF__RECEIPT*
POINT__OF__DELIVERY*
SERVICE__INCREMENT*
TS__CLASS*
TS__TYPE*
TS__PERIOD*
STATUS*
START__TIME (Beginning time of service)
STOP__TIME
START__TIME__QUEUED (Beginning time queue)
STOP__TIME__QUEUED
NEGOTIATED__PRICE__FLAG
ASSIGNMENT__REF
REASSIGNED__REF
SALE__REF
REQUEST__REF
DEAL__REF
TIME__OF__LAST__UPDATE

2. Response

CONTINUATION__FLAG
ASSIGNMENT__REF
SELLER__CODE
SELLER__DUNS
CUSTOMER__CODE
CUSTOMER__DUNS
AFFILIATE__FLAG (Set by TSIP)
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
CAPACITY (total reservation)
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
NERC__CURTAILMENT__PRIORITY
OTHER__CURTAILMENT__PRIORITY
START__TIME
STOP__TIME
CEILING__PRICE
OFFER__PRICE
BID__PRICE
PRICE__UNITS
PRECONFIRMED
ANC__SVC__LINK
ANC__SVC__REQ
POSTING__REF
SALE__REF
REQUEST__REF
DEAL__REF
NEGOTIATED__PRICE__FLAG (''L'' if Seller accepted Price is lower than OFFER__PRICE in transoffering Template; ''H'' if higher; otherwise blank)
STATUS=RECEIVED, QUEUED, INVALID, STUDY, REBID, COUNTEROFFER, ACCEPTED, DECLINED, SUPERSEDED, REFUSED, CONFIRMED, WITHDRAWN, DISPLACED, ANNULLED, RETRACTED
STATUS__NOTIFICATION
STATUS__COMMENTS
TIME__QUEUED
RESPONSE__TIME__LIMIT
TIME__OF__LAST__UPDATE
PRIMARY__PROVIDER__COMMENTS

SELLER__COMMENTS
CUSTOMER__COMMENTS
SELLER__NAME
SELLER__PHONE
SELLER__FAX
SELLER__EMAIL
CUSTOMER__NAME
CUSTOMER__PHONE
CUSTOMER__FAX
CUSTOMER__EMAIL
REASSIGNED__REF
REASSIGNED__CAPACITY (Capacity from each previous transaction)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME

4.3.7.3 Seller Approval of Purchase (transsell)

Seller Approval of Purchase (Input) (*transsell*) is input by a Seller to modify the status and queue of a request by a Customer. The following fields may be submitted in continuation records for the transsell Template to convey transmission rights from multiple original transmission reservations to this new reservation: REASSIGNED__REF, REASSIGNED__CAPACITY, REAS-SIGNED__START__TIME, and REASSIGNED__STOP__TIME. If the Provider/Seller supports the negotiation of price on individual segments of a profiled reservation request (support for reservation profiles is at the discretion of the Provider), OFFER__PRICE, START__TIME and STOP__TIME data elements may be submitted in continuation records to modify the Seller's offer price associated with the profile segment(s) corresponding to START__TIME and STOP__TIME. OFFER__PRICE associated with each segment of a profiled request must match the corresponding BID__PRICE for the reservation request's STATUS to be set to ACCEPTED.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

The Seller may accept a reservation only when the BID__PRICE and the OFFER__PRICE are the same.

Template: transsell

1. Input

CONTINUATION__FLAG
ASSIGNMENT__REF (Required)
START__TIME
STOP__TIME
OFFER__PRICE
STATUS=RECEIVED, INVALID, STUDY, COUNTEROFFER, ACCEPTED, REFUSED, SUPERSEDED, DECLINED, ANNULLED, RETRACTED,
    DISPLACED
STATUS__COMMENTS
ANC__SVC__LINK
ANC__SVC__REQ
NEGOTIATED__PRICE__FLAG
SELLER__COMMENTS
RESPONSE__TIME__LIMIT
REASSIGNED__REF
REASSIGNED__CAPACITY (Previous capacity to be reassigned)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME

2. Response

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF
START__TIME
STOP__TIME
OFFER__PRICE
STATUS=RECEIVED, INVALID, STUDY, COUNTEROFFER, ACCEPTED, REFUSED, SUPERSEDED, DECLINED, ANNULLED, RETRACTED,
    DISPLACED
STATUS__COMMENTS
ANC__SVC__LINK
ANC__SVC__REQ
NEGOTIATED__PRICE__FLAG
SELLER__COMMENTS
RESPONSE__TIME__LIMIT
REASSIGNED__REF
REASSIGNED__CAPACITY (Previous capacity to be reassigned)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
ERROR__MESSAGE

4.3.7.4 Customer Confirmation of Purchase (Input) (transcust)

Customer Confirmation of Purchase (Input) (transcust) is input by the Customer to state his agreement or withdrawal of a purchase after the Seller has indicated that the purchase request is approved. Only the BID__PRICE, STATUS, STATUS__COMMENTS, ANC__SVC__LINK, and CUSTOMER__COMMENTS data elements can be modified in this Template.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

The Customer must change the BID__PRICE to be equal to the OFFER__PRICE before the reservation request's STATUS can be set to CONFIRMED.

If the Provider/Seller supports the negotiation of price on individual segments of a profiled reservation request (support for reservation profiles is at the discretion of the Provider), BID__PRICE, START__TIME and STOP__TIME data elements may be submitted in continuation records to modify the Customer's bid price associated with the profile segment(s) corresponding to START__TIME and STOP__TIME. BID__PRICE associated with each segment of a profiled request must match the corresponding OFFER__PRICE for the reservation request's STATUS to be set to CONFIRMED.

Template: transcust

1. Input

CONTINUATION__FLAG

ASSIGNMENT__REF (Required)
START__TIME
STOP__TIME
REQUEST__REF
DEAL__REF
BID__PRICE
STATUS=REBID, CONFIRMED, WITHDRAWN
STATUS__COMMENTS
ANC__SVC__LINK
STATUS__NOTIFICATION If left blank, then original URL from the transrequest will be used CUSTOMER__COMMENTS

2. Response

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF
START__TIME
STOP__TIME
REQUEST__REF
DEAL__REF
BID__PRICE
STATUS=REBID, CONFIRMED, WITHDRAWN
STATUS__COMMENTS
ANC__SVC__LINK
STATUS__NOTIFICATION
CUSTOMER__COMMENTS
ERROR__MESSAGE

4.3.7.5   Alternate Point of Receipt/Delivery (transalt)

Alternate Point of Delivery (transalt). The Customer may submit a request to use alternate points of receipt/delivery for an existing confirmed reservation, if allowed by applicable tariffs and service agreements. The assignment reference value associated with the prior confirmed reservation must be provided in the REASSIGNED__REF data element along with the alternate points of receipt/delivery. The request may be submitted as PRECONFIRMED. Requests submitted by the transalt template shall be handled by OASIS Nodes identically to reservations submitted using the transrequest template.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

REASSIGNED__REF contains the ASSIGNMENT__REF of the original, confirmed reservation that is being designated to the alternate points of delivery/receipt. The Template allows for only one REASSIGNED__REF field. Therefore, if multiple, original reservations are being designated, a separate transalt Template must be submitted associated with each original reservation. There is no restriction that multiple submissions of the transalt Template may all refer back to the same, original reservation (i.e., may have the same REASSIGNED__REF).

Demand profiles associated with the designation of alternate POD/POR may be submitted by additional records designating ''Y'' for CONTINUATION__FLAG, and specifying the CAPACITY, START__TIME, and STOP__TIME data elements corresponding to the MW demand being requested over each time interval associated with the reservation. The CAPACITY, START__TIME, and STOP__TIME data elements must fall within the amounts and time intervals associated with the original reservation.

The following data elements in transstatus and the appropriate ones in transcust shall take on the following implied values:

SELLER__CODE (value from SELLER__CODE in reservation designated by REASSIGNED__REF)
SELLER__DUNS (value from SELLER__DUNS in reservation designated by REASSIGNED__REF)
OFFER__PRICE=$0
BID__PRICE=$0
CEILING__PRICE=$0
TS__CLASS=SECONDARY or other class allowed by the Provider
TS__TYPE=(value from TS__TYPE in reservation designated by REASSIGNED__REF)
REASSIGNED__CAPACITY=MW capacity submitted in CAPACITY field of Template
REASSIGNED__START__TIME=time submitted in START__TIME field of Template
REASSIGNED__STOP__TIME=time submitted in STOP__TIME field of Template

Template: transalt

1. Input

CONTINUATION__FLAG
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
PRECONFIRMED
CAPACITY (Must be less than or equal to original capacity reservation)
TS__CLASS
STATUS__NOTIFICATION
START__TIME (Valid only to hour and within the time of original reservation)
STOP__TIME (Valid only to hour and within the time of original reservation)
REQUEST__REF
DEAL__REF
REASSIGNED__REF (Assignment Reference for the Firm reservation being used for request)
CUSTOMER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF (assigned by the TSIP)
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE

SINK
PRECONFIRMED
CAPACITY (Capacity requested)
TS__CLASS
STATUS__NOTIFICATION
START__TIME
STOP__TIME
REQUEST__REF
DEAL__REF
REASSIGNED__REF (Assignment Reference for the Firm reservation being used for request)
CUSTOMER__COMMENTS
ERROR__MESSAGE

4.3.7.6 Seller to Reassign Service Rights to Another Customer (transassign)

Seller to Reassign Service Rights to Another Customer (Input) (transassign) is used by the seller to ask the Transmission Services Information Provider to reassign some or all of the seller's rights to Services to another Customer, for seller confirmed transactions that have occurred off the OASIS Node. The TSIP shall assign a unique ASSIGNMENT__REF in the response (acknowledgment) and enter the status CONFIRMED as viewed in the transstatus Template.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Only the following fields may be redefined in a continuation record for the transassign input Template: CAPACITY, START__TIME, STOP__TIME, REASSIGNED__REF, REASSIGNED__CAPACITY, REASSIGNED__START__TIME, and REASSIGNED__STOP__TIME.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: transassign

1. Input

CONTINUATION__FLAG
CUSTOMER__CODE
CUSTOMER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
CAPACITY
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
START__TIME
STOP__TIME
OFFER__PRICE
ANC__SVC__LINK (optional: filled in if assignment is different than original transmission reservation)
POSTING__NAME
REASSIGNED__REF
REASSIGNED__CAPACITY (Capacity being sold from each previous assignment)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
SELLER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF (assigned by TSIP)
CUSTOMER__CODE
CUSTOMER__DUNS
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
SOURCE
SINK
CAPACITY (Total capacity being reassigned)
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
START__TIME
STOP__TIME
OFFER__PRICE
ANC__SVC__LINK
POSTING__NAME
REASSIGNED__REF
REASSIGNED__CAPACITY (Capacity being sold from each previous assignment)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
SELLER__COMMENTS
ERROR__MESSAGE

4.3.8 Seller Posting of Transmission Services

Sellers shall use the following Templates for providing sell information. They may aggregate portions of several previous purchases to create a new service, if this capability is provided by the Transmission Services Information Provider:

4.3.8.1 Seller Capacity Posting (transpost)

Seller Capacity Posting (Input) (transpost) shall be used by the Seller to post the transmission capacity for resale on to the OASIS Node.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: transpost

1. Input

PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
INTERFACE__TYPE
CAPACITY
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
ANC__SVC__REQ
START__TIME
STOP__TIME
OFFER__START__TIME
OFFER__STOP__TIME
SALE__REF
OFFER__PRICE
SERVICE__DESCRIPTION
SELLER__COMMENTS

2. Response (Acknowledgment)

RECORD__STATUS
POSTING__REF (Assigned by TSIP)
PATH__NAME
POINT__OF__RECEIPT
POINT__OF__DELIVERY
INTERFACE__TYPE
CAPACITY
SERVICE__INCREMENT
TS__CLASS
TS__TYPE
TS__PERIOD
TS__WINDOW
TS__SUBCLASS
ANC__SVC__REQ
START__TIME
STOP__TIME
OFFER__START__TIME
OFFER__STOP__TIME
SALE__REF
OFFER__PRICE
SERVICE__DESCRIPTION
SELLER__COMMENTS
ERROR__MESSAGE

4.3.8.2 Seller Capacity Modify (transupdate)

Seller Capacity Modify (Input) (*transupdate*) shall be used by a Seller to modify a posting of transmission capacity.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: transupdate

1. Input

POSTING__REF (Must be provided)
CAPACITY (only if modified)
START__TIME (only if modified)
STOP__TIME (only if modified)
OFFER__START__TIME (only if modified)
OFFER__STOP__TIME (only if modified)
ANC__SVC__REQ (only if modified)
SALE__REF (only if modified)
OFFER__PRICE (only if modified)
SERVICE__DESCRIPTION (only if modified)
SELLER__COMMENTS (only if modified)

2. Response (acknowledgment)

RECORD__STATUS
POSTING__REF
CAPACITY
START__TIME
STOP__TIME
OFFER__START__TIME
OFFER__STOP__TIME
ANC__SVC__REQ
SALE__REF
OFFER__PRICE

SERVICE__DESCRIPTION
SELLER__COMMENTS
ERROR__MESSAGE

4.3.9 Purchase of Ancillary Services

4.3.9.1 Customer Requests to Purchase Ancillary Services (ancrequest)

Customer Requests to Purchase Ancillary Services (ancrequest) (Input, Template Upload) is used by the customer to request ancillary services that have been posted by a seller of those services. The response simply acknowledges that the Customer's request was received by the OASIS Node. It does not imply that the Seller has received the request. The same requirements exist for the use of STATUS__NOTIFICATION as for transrequest. Submitting values into the reference Data Elements is optional.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

Supporting ''profiles'' of ancillary service, which request different capacities (and optionally price) for different time periods within a single request, is at the discretion of the Primary Provider. Continuation records may be used to indicate requests for these service profiles. Each segment of a profile is represented by the data elements CAPACITY, START__TIME, and STOP__TIME, which define the intervals in time overwhich a non-zero MW demand is being requested. The initial segment of a profile is defined by the CAPACITY, START__TIME and STOP__TIME data elements specified in the first/only record submitted; subsequent segments are specified in continuation records each containing the appropriate CAPACITY, START__TIME and STOP__TIME values defining the segment. Provider's may optionally support price negotiation on segments of a profiled reservation request. In this case, the BID__PRICE data element is also included in each continuation record. If the BID__PRICE data element is not specified in the continuation records, the BID__PRICE specified in the first/only record submitted will be applied to the entire reservation request.

The START__TIME and STOP__TIME indicate the requested period of service.

When the request is received at the OASIS Node, the TSIP assigns a unique ASSIGNMENT__REF value and queues the request with a time stamp. The STATUS for the request is QUEUED.

Specification of a value YES in the PRECONFIRMED field authorizes the TSIP to automatically change the STATUS field in the ancstatus Template to CONFIRMED when that request is ACCEPTED by the Seller.

Template: ancrequest

1. Input

CONTINUATION__FLAG
SELLER__CODE
SELLER__DUNS
CONTROL__AREA
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
STATUS__NOTIFICATION
START__TIME
STOP__TIME
BID__PRICE
PRECONFIRMED
POSTING__REF (Optionally set by Customer)
SALE__REF (Optionally set by Customer)
REQUEST__REF (Optionally set by Customer)
DEAL__REF (Optionally set by Customer)
CUSTOMER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF (assigned by TSIP)
SELLER__CODE
SELLER__DUNS
CONTROL__AREA
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
STATUS__NOTIFICATION
START__TIME
STOP__TIME
BID__PRICE
PRECONFIRMED
POSTING__REF
SALE__REF
REQUEST__REF
DEAL__REF
CUSTOMER__COMMENTS
ERROR__MESSAGE

4.3.9.2 Ancillary Services Status (ancstatus)

Ancillary Services Status (ancstatus) is used to provide the status of purchase requests regarding the ancillary services that are available for sale by all Service Providers.

Continuation records may be returned in association with a ancillary services reservation to convey information regarding: 1) sale or assignment of ancillary rights on the secondary market (reassignments), or 2) profiled requests. When an ancillary reservation request is the result of a sale or assignment of transmission or ancillary rights on the secondary market, the identity of the original reservation, capacity, and time interval over which rights are assigned to the new reservation are defined by the data elements REAS-SIGNED__REF, REASSIGNED__CAPACITY, REASSIGNED__START__TIME, and REASSIGNED__STOP__TIME. These data elements will be returned in continuation records when more than one set of reassignment information is associated with a reservation. If the reservation has an associated profile (support for reservation profiles is at the discretion of the Provider), CAPACITY, START__TIME and STOP__TIME for the segments of the profile will be returned in continuation records. If the Provider supports negotiation of price on each segment of a profiled request, BID__PRICE and OFFER__PRICE will also be returned with CAPACITY, START__TIME and STOP__TIME.

The AFFILIATE__FLAG will be set by the TSIP to indicate whether or not the Customer is an affiliate of the Seller.
The values of STATUS and processes for setting STATUS are the same as for transstatus.

Template: ancstatus

1. Query

SELLER__CODE*
SELLER__DUNS*
CUSTOMER__CODE*
CUSTOMER__DUNS*
CONTROL__AREA
SERVICE__INCREMENT
ANC__SERVICE__TYPE
STATUS
START__TIME
STOP__TIME
START__TIME__QUEUED
STOP__TIME__QUEUED
NEGOTIATED__PRICE__FLAG
ASSIGNMENT__REF
REASSIGNED__REF
SALE__REF
REQUEST__REF
DEAL__REF
TIME__OF__LAST__UPDATE (only if TIME__OF__LAST__UPDATE is posted by record)

2. Response

CONTINUATION__FLAG
ASSIGNMENT__REF
SELLER__CODE
SELLER__DUNS
CUSTOMER__CODE
CUSTOMER__DUNS
AFFILIATE__FLAG (Set by TSIP)
CONTROL__AREA
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
START__TIME
STOP__TIME
CEILING__PRICE
OFFER__PRICE
BID__PRICE
PRICE__UNITS
PRECONFIRMED
POSTING__REF
SALE__REF
REQUEST__REF
DEAL__REF
NEGOTIATED__PRICE__FLAG (''L'' if Seller accepted Price is lower than OFFER__PRICE in ancoffering Template; ''H'' if higher; otherwise blank)
STATUS=QUEUED, INVALID, RECEIVED, STUDY, REBID, COUNTEROFFER, ACCEPTED, REFUSED, CONFIRMED, WITHDRAWN, SU-PERSEDED, DECLINED, ANNULLED, RETRACTED, DISPLACED
STATUS__NOTIFICATION
STATUS__COMMENTS
TIME__QUEUED
RESPONSE__TIME__LIMIT
TIME__OF__LAST__UPDATE
PRIMARY__PROVIDER__COMMENTS
SELLER__COMMENTS
CUSTOMER__COMMENTS
SELLER__NAME
SELLER__PHONE
SELLER__FAX
SELLER__EMAIL
CUSTOMER__NAME
CUSTOMER__PHONE
CUSTOMER__FAX
CUSTOMER__EMAIL
REASSIGNED__REF
REASSIGNED__CAPACITY
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME

4.3.9.3 Seller Approves Ancillary Service (ancsell)

Seller Approves Ancillary Service (ancsell) is used by the Seller to confirm acceptance after the Seller has approved the purchase of ancillary service.

The following fields may be submitted in continuation records for the ancsell Template to convey ancillary rights from multiple original ancillary service reservations to this new reservation: REASSIGNED__REF, REASSIGNED__CAPACITY, REAS-SIGNED__START__TIME, and REASSIGNED__STOP__TIME. If the Provider/Seller supports the negotiation of price on individual segments of a profiled reservation request (support for reservation profiles is at the discretion of the Provider), OFFER__PRICE, START__TIME and STOP__TIME data elements may be submitted in continuation records to modify the Seller's offer price associated with the profile segment(s) corresponding to START__TIME and STOP__TIME. OFFER__PRICE associated with each segment of a profiled request must match the corresponding BID__PRICE for the reservation request's STATUS to be set to ACCEPTED.

SELLER__ CODE and SELLER__ DUNS shall be determined from the registered connection used to input the request.

Template: ancsell

1. Input

CONTINUATION__ FLAG
ASSIGNMENT__REF (Required)
START__TIME
STOP__TIME
OFFER__PRICE
STATUS=INVALID, RECEIVED, STUDY, COUNTEROFFER, SUPERSEDED, ACCEPTED, REFUSED, DECLINED, ANNULLED, RETRACTED,
    DISPLACED
STATUS__COMMENTS
NEGOTIATED__PRICE__FLAG
RESPONSE__TIME__LIMIT
SELLER__COMMENTS
REASSIGNED__REF
REASSIGNED__CAPACITY
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF
START__TIME
STOP__TIME
OFFER__PRICE
STATUS=INVALID, RECEIVED, STUDY, COUNTEROFFER, SUPERSEDED, ACCEPTED, REFUSED, DECLINED, ANNULLED, RETRACTED,
    DISPLACED
STATUS__COMMENTS
NEGOTIATED__PRICE__FLAG
RESPONSE__TIME__LIMIT
SELLER__COMMENTS
REASSIGNED__REF
REASSIGNED__CAPACITY
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
ERROR__MESSAGE

4.3.9.4   Customer accepts Ancillary Service (anccust)

Customer accepts Ancillary Service (anccust) is used by the customer to confirm acceptance after the seller has approved the purchase of ancillary service.

The Customer must change the BID__PRICE to be equal to the OFFER__PRICE before the reservation request's STATUS can be set to CONFIRMED. If the Provider/Seller supports the negotiation of price on individual segments of a profiled reservation request (support for reservation profiles is at the discretion of the Provider), BID__PRICE, START__TIME and STOP__TIME data elements may be submitted in continuation records to modify the Customer's bid price associated with the profile segment(s) corresponding to START__TIME and STOP__TIME. BID__PRICE associated with each segment of a profiled request must match the corresponding OFFER__PRICE for the reservation request's STATUS to be set to CONFIRMED.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

Template: anccust

1. Input

CONTINUATION__FLAG
ASSIGNMENT__REF (Required)
START__TIME
STOP__TIME
REQUEST__REF
DEAL__REF
BID__PRICE
STATUS=REBID, CONFIRMED, WITHDRAWN
STATUS__COMMENTS
STATUS__NOTIFICATION (If left blank, then the original URL from the ancrequest will be used
CUSTOMER__COMMENTS

2. Response (Acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF
START__TIME
STOP__TIME
REQUEST__REF
DEAL__REF
BID__PRICE
STATUS= REBID, CONFIRMED, WITHDRAWN
STATUS__COMMENTS
STATUS__NOTIFICATION
CUSTOMER__COMMENTS
ERROR__MESSAGE

4.3.9.5   Seller to Reassign Service Rights to Another Customer (ancassign)

Seller to Reassign Service Rights to Another Customer (Input) (ancassign) is used by the seller to ask the Transmission Services Information Provider to reassign some or all of the seller's rights to Services to another Customer, for seller confirmed transactions

that have occurred off the OASIS Node. Implementation of this template is optional until such time that a business case requiring the use of such a facility to selectively reassign ancillary services is clearly demonstrated.

The TSIP shall assign a unique ASSIGNMENT__REF in the response (acknowledgment) and enter the status CONFIRMED as viewed in the ancstatus Template.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Only the following fields may be redefined in a continuation record for the ancassign input Template: CAPACITY, START__ TIME, STOP__ TIME, REASSIGNED__ REF, REASSIGNED__ CAPACITY, REASSIGNED__ START__ TIME, and REASSIGNED__ STOP__ TIME.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: ancassign

1. Input

CONTINUATION__FLAG
CUSTOMER__CODE
CUSTOMER__DUNS
CONTROL__AREA
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
START__TIME
STOP__TIME
OFFER__PRICE
POSTING__NAME
REASSIGNED__REF
REASSIGNED__CAPACITY (Capacity being sold from each previous assignment)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
SELLER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
CONTINUATION__FLAG
ASSIGNMENT__REF (assigned by TSIP)
CUSTOMER__ CODE
CUSTOMER__DUNS
CONTROL__AREA
CAPACITY (Total capacity being reassigned)
SERVICE__INCREMENT
ANC__SERVICE__TYPE
START__TIME
STOP__TIME
OFFER__PRICE
POSTING__NAME
REASSIGNED__REF
REASSIGNED__CAPACITY (Capacity being sold from each previous assignment)
REASSIGNED__START__TIME
REASSIGNED__STOP__TIME
SELLER__COMMENTS
ERROR__MESSAGE

4.3.10   Seller Posting of Ancillary Services

4.3.10.1   Seller Ancillary Services Posting (ancpost)

Seller Ancillary Services Posting (ancpost) is used by the Seller to post information regarding the different services that are available for sale by third party Sellers of ancillary services.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: ancpost

1. Input

CONTROL__AREA
SERVICE__DESCRIPTION
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
START__TIME
STOP__TIME
OFFER__START__TIME
OFFER__STOP__TIME
SALE__REF
OFFER__PRICE
SELLER__COMMENTS

2. Response (acknowledgment)

RECORD__STATUS
POSTING__REF (Assigned by TSIP)
CONTROL__AREA
SERVICE__DESCRIPTION
CAPACITY
SERVICE__INCREMENT
ANC__SERVICE__TYPE
START__TIME
STOP__TIME

OFFER__START__TIME
OFFER__STOP__TIME
SALE__REF
OFFER__PRICE
SELLER__COMMENTS
ERROR__MESSAGE

4.3.10.2 Seller Modify Ancillary Services Posting (ancupdate)

Seller Modify Ancillary Services Posting (ancupdate) is used by the Seller to modify posted information regarding ancillary services that are available for sale by a third party Seller.

SELLER__CODE and SELLER__DUNS shall be determined from the registered connection used to input the request.

Template: ancupdate

1. Input

POSTING__REF (Required)
CAPACITY (only if modified)
SERVICE__DESCRIPTION (only if modified)
START__TIME (only if modified)
STOP__TIME (only if modified)
OFFER__START__TIME (only if modified)
OFFER__STOP__TIME (only if modified)
SALE__REF (only if modified)
OFFER__PRICE (only if modified)
SELLER__COMMENTS (only if modified)

2. Response (acknowledgment)

RECORD__STATUS
POSTING__REF
CAPACITY
SERVICE__DESCRIPTION
START__TIME
STOP__TIME
OFFER__START__TIME
OFFER__STOP__TIME
SALE__REF
OFFER__PRICE
SELLER__COMMENTS
ERROR__MESSAGE

4.3.11 Informal Messages

4.3.11.1 Provider/Customer Want Ads and Informal Message Posting Request (messagepost)

Provider/Customer Want Ads and Informal Message Posting Request (messagepost) is used by Providers and Customers who wish to post a message. The valid entries for CATEGORY shall be defined by providers and shall be listed in the List of CATEGORY Template.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

Template: messagepost

1. Input

SUBJECT
CATEGORY
VALID__FROM__TIME
VALID__TO__TIME
MESSAGE (must be specified)

2. Response (acknowledgment)

RECORD__STATUS
POSTING__REF (assigned by information provider)
SUBJECT
CATEGORY
VALID__FROM__TIME
VALID__TO__TIME
MESSAGE
ERROR__MESSAGE

4.3.11.2 Message (message)

Message (message) is used to view a posted Want Ad or Informal Message. The CATEGORY data element can be queried.

Template: message

1. Query

CUSTOMER__CODE
CUSTOMER__DUNS
POSTING__REF
CATEGORY
VALID__FROM__TIME
VALID__TO__TIME
TIME__POSTED

2. Response

CUSTOMER__CODE
CUSTOMER__DUNS

POSTING__REF
SUBJECT
CATEGORY
VALID__FROM__TIME
VALID__TO__TIME
TIME__POSTED
CUSTOMER__NAME
CUSTOMER__PHONE
CUSTOMER__FAX
CUSTOMER__EMAIL
MESSAGE

4.3.11.3 Provider/Sellers Message Delete Request (messagedelete)

Provider/Sellers Message Delete Request (messagedelete) is used by Providers and Sellers who wish to delete their message. The POSTING__REF number is used to determine which message.

CUSTOMER__CODE and CUSTOMER__DUNS shall be determined from the registered connection used to input the request.

Template: messagedelete

1. Input

POSTING__REF

2. Response (Acknowledgment)

RECORD__STATUS
POSTING__REF
ERROR__MESSAGE

4.3.11.4 Personnel Transfers (personnel)

The personnel template is used to indicate when personnel are transferred between the merchant function and the Transmission Provider function as required by FERC Statutes and Regulations (37.4(b)(2)) .

Template: personnel

1. Query

TIME__OF__LAST__UPDATE
START__TIME__POSTED
STOP__TIME__POSTED

2. Response

POSTING__NAME
EMPLOYEE__NAME
FORMER__POSITION
FORMER__COMPANY
FORMER__DEPARTMENT
NEW__POSITION
NEW__COMPANY
NEW__DEPARTMENT
DATE__TIME__EFFECTIVE
TIME__POSTED
TIME__OF__LAST__UPDATE

4.3.11.5 Discretion (discretion)

The discretion template is used to describe the circumstances when discretion was exercised in applying terms of the tariff, as described in the FERC Statutes and Regulations (37.4(b)(5)(iii)).

Template: discretion

1. Query

START__TIME__POSTED
STOP__TIME__POSTED
START__TIME
STOP__TIME
SERVICE__TYPE
SERVICE__NAME
TIME__OF__LAST__UPDATE

2. Response

POSTING__NAME
RESPONSIBLE__PARTY__NAME (name of person granting discretion)
SERVICE__TYPE (ancillary or transmission)
SERVICE__NAME (make consistent with offering Templates)
TARIFF__REFERENCE
START__TIME
STOP__TIME
DISCRETION__DESCRIPTION
TIME__POSTED
TIME__OF__LAST__UPDATE

4.3.11.6 Standards of Conduct (stdconduct)

The stdconduct template indicates when information is disclosed in a manner contrary to the standards of conduct, as described in the FERC Statutes and Regulations (37.4(b)(4)(ii)).

Template: stdconduct

1. Query

START__TIME__POSTED

STOP__TIME__POSTED
TIME__OF__LAST__UPDATE

2. Response

POSTING__NAME
RESPONSIBLE__PARTY__NAME
STANDARDS__OF__CONDUCT__ISSUES
TIME__POSTED
TIME__OF__LAST__UPDATE

4.4 FILE REQUEST AND FILE DOWNLOAD EXAMPLES

4.4.1 File Example for Hourly Offering

Example of the request to Primary Provider, aaa, and response for Seller, wxyz, for PATH__NAME ''W/AAAA/PATH-ABC//'' for April 10, 1996 from 8 a.m. to 3 p.m. (Note that the PATH__NAME consists of a REGION__CODE, PRIMARY__PROVIDER__CODE, PATH__CODE, and an OPTIONAL__CODE, separated with a slash, ''/''.) The VERSION for Phase 1A is 1.3.

The request is in the form of a URL query string and the response is a ASCII delimited file.

1. Query

http://(OASIS Node name)/OASIS/aaa/data/transoffering? ver=1.2&templ=transoffering& fmt=data&pprov=AAAA &pprovduns=123456789& path=W/AAA/ABC// &seller=WXYZAA &sellerduns=987654321& POR=aaa& POD=bbb& servincre=hourly& TSCLASS1=firm &TSCLASS2=non-firm&tz=PD&stime=19960410080000PD&sptime= 19960410150000PD
2. Response Data
REQUEST-STATUS=200↵ (Successful)
TIME__STAMP=19960409113526PD↵
VERSION=1.35↵
TEMPLATE=transoffering↵
OUTPUT__FORMAT=DATA↵
PRIMARY__PROVIDER__CODE=AAAA↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=14↵
COLUMN__HEADERS=TIME__OF__LAST__UPDATE, SELLER__CODE, SELLER__DUNS, PATH__NAME, POINT__OF__ RECEIPT, POINT__OF__DELIVERY, INTERFACE__TYPE, OFFER__START__TIME, OFFER__STOP__TIME, START__TIME, STOP__TIME, CA-PACITY, SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, SALE__REF, POSTING__REF, CEIL-ING__PRICE, OFFER__PRICE, PRICE__UNITS, SERVICE__DESCRIPTION, SELLER__NAME, SELLER__PHONE, SELLER__FAX, SELLER-EMAIL, SELLER__COMMENTS.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604100 80000PD, 19960410090000PD, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604100 80000PD, 19960410090000PD, 300, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604100 90000PD, 1996041010000PD, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604100 90000PD, 19960410100000PD, 300, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 00000PD, 19960410110000PD, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 00000PD, 19960410110000PD, 300, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 10000PD, 19960410120000PD, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 10000PD, 19960410120000PD, 300, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
. . .
. . .
. . .
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 40000PD, 19960410150000PD, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵
19960409030000PD, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 19960402080000PD, 19960410080000PD, 199604101 40000PD, 19960410150000PD, 300, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, N/A, A001, 1.50, 1.35, MW, N/A, N/A, N/A, N/A, N/A, 10% DISCOUNT.↵

4.4.2 File Example for Hourly Schedule Data

This example shows a request for the hourly schedule data from Primary Provider, aaa, related to the seller, wxyz, for the period 10 a.m. to 3 p.m. on April 10, 1996.

There are two identical requests examples using two slightly different methods. The first request is using a HTTP URL request string through an HTML GET method. The second request is a similar example using fetch__http from a file using a POST method.

1. Query

URL Request (HTTP method=GET)
http://(OASIS Node name)/OASIS/aaa/data/schedule? ver=1.0& pprov=AAAA& templ=schedule& fmt=data &pprovduns=123456789 &path=W/AAA/ABC//& seller=WXYZ &por=BBB &pod=CCC& tz=PD& stime=19960410100000PD& sptime=199604101150000PD

URL Request (HTTP method=POST)

$ fetch__ http http://(OASIS Node name)/OASIS/aaa/data/OASISdata -f c:/OASIS/wxyz/upload/in-file.txt
Where in-file.txt contains the following:
ver=1.0& pprov=AAAA& templ=schedule& fmt=data &pprovduns=123456789 &path=W/AAA/ABC//& seller=WXYZ &por=BBB &pod=CCC&
    tz=PD& stime=19960410100000PD& sptime=19960410150000PD

2. Response Data

REQUEST-STATUS=200↵
TIME__STAMP=19960410114702PD↵
VERSION=1.3.↵
TEMPLATE=schedule↵
OUTPUT__FORMAT=DATA ↵
PRIMARY__PROVIDER__CODE=AAAA↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=5↵
COLUMN__HEADERS=TIME__OF__LAST__UPDATE, SELLER__CODE, SELLER__DUNS, PATH__NAME,
POINT__OF__RECEIPT, POINT__OF__DELIVERY, CUSTOMER__CODE, CUSTOMER__DUNS,
AFFILIATE__FLAG, START__TIME, STOP__TIME, CAPACITY, CAPACITY__SCHEDULED, SERVICE__INCREMENT,
TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, ASSIGNMENT__REF↵
19960409030000pd, wxyz, 0987654321, W/AAA/ABC//, BBB, CCC, WXYZAA, 0987654322, Y,
19960410100000PD, 19960410110000PD, 300, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, 856743↵
. . . ↵
. . . ↵
19960409030000pd, wxyz, 0987654321, W/AAA/ABC//, BBB, CCC, WXYZAA, 0987654322, Y,
19960410130000PD, 19960410140000PD, 300, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, 856743↵
19960409030000pd, wxyz, 0987654321, W/AAA/ABC//, BBB, CCC, WXYZAA, 0987654322, Y,
19960410140000PD, 19960410150000PD, 300, 300, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, 856743↵

4.4.3 Customer Posting a Transmission Service Offering

This example shows how a Customer would post for sale the transmission service that was purchased previously. The Seller would create a file and upload the file using the FETCH__HTTP program to send a file to the OASIS Node of the Primary Provider.

1. Input:

VERSION=1.3↵
TEMPLATE=transpost↵
OUTPUT__FORMAT=DATA ↵
PRIMARY__PROVIDER__CODE=AAAA↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=1↵
COLUMN__HEADERS=PATH__NAME, POINT__OF__RECEIPT, POINT__OF__DELIVERY, INTERFACE__TYPE,
CAPACITY, SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, START__TIME,
STOP__TIME, OFFER__START__TIME, OFFER__STOP__TIME, SALE__REF, OFFER__PRICE,
SERVICE__DESCRIPTION, SELLER__COMMENTPF↵
WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 150, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, 19960402080000PD,
    19960410080000PD, 19960410080000PD, 19960410150000PD, A123,.90,N/A, ''As Joe said, ''''It is a good buy''''''↵
FETCH__HTTP Command to send posting
$ fetch__ http http://(OASIS Node name)/OASIS/abcd/data/transrequest -f c:/OASIS/abcd/upload/post.txt

2. Response Data

REQUEST-STATUS=200 ↵ (Successful)
TIME__STAMP=19960409113526PD ↵
VERSION=1.3↵
TEMPLATE=transpost↵
OUTPUT__FORMAT=DATA ↵
PRIMARY__PROVIDER__CODE=AAAA↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=1↵
COLUMN__HEADERS=RECORD__STATUS, PATH__NAME, POINT__OF__RECEIPT, POINT__OF__DELIVERY,
INTERFACE__TYPE, CAPACITY, SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS,
START__TIME, STOP__TIME, OFFER__START__TIME, OFFER__STOP__TIME, SALE__REF, OFFER__PRICE,
SERVICE__DESCRIPTION, SELLER__COMMENTS, ERROR__MESSAGE↵
200, WXYZ, 987654321, W/AAA/ABC//, N/A, N/A, E, 150, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A,
19960402080000PD, 19960410080000PD, 19960410080000PD, 19960410150000PD, A123, .90, N/A, ''As Joe said, ''''It is a good buy'''''',
    No Error↵

4.4.4 Example of Re-aggregating Purchasing Services Using Reassignment

The following examples do not show the complete Template information, but only show those elements of the Template of interest to the example.

a. Customer #1, ''BestE'' requests the purchase of 150 MW Firm ATC for 8 a.m. to 5 p.m. for $1.00 from a Primary Provider (*transrequest*).

TEMPLATE=transrequest↵
CUSTOMER__CODE=BestE↵
CAPACITY=150↵
TS__CLASS=''FIRM''↵
START__TIME=''1996050708000000PD''↵
STOP__TIME=''1996050717000000PD''↵
BID__PRICE=''$1.00''↵

The Information Provider assigns ASSIGNMENT__REF = 5000 on acknowledgment.

b. Customer #1 purchases 120 MW ATC Non-firm for 3 p.m. to 9 p.m. for $.90 (transrequest). The Information Provider assigns the ASSIGNMENT__REF=5001 when the request for purchase is made and is shown in the acknowledgment.

TEMPLATE=''transrequest''↵
CUSTOMER__CODE=''BestE''↵

```
CAPACITY=120↵
TS__CLASS="NON-FIRM"↵
START__TIME="1996050715000000PD"↵
STOP__TIME="1996050721000000PD"↵
BID__PRICE="$1.05"↵
```

c. Customer #1 becomes Seller #1 and post the Transmission service of 100 MW ATC Non-firm capacity from 8 a.m. to 9 p.m. for resale at $.90/MW-hour.

```
TEMPLATE="transpost"↵
SELLER__CODE="BestE"↵
CAPACITY=100↵
TS__CLASS="NON-FIRM"↵
START__TIME="1996050708000000PD"↵
STOP__TIME="1996050721000000PD"↵
SALE__REF="BEST100"↵
OFFER__PRICE=.90↵
SELLER__COMMENTS="aggregating two previous purchases"↵
```

d. Customer #2 then requests purchase of 100 MW Non-firm from Reseller #1 from 8 a.m. to 6 p.m. for $0.90/MW-hour (transrequest).

```
TEMPLATE="transrequest"↵
CUSTOMER__CODE="Whlsle"↵
SELLER__CODE="BestE"↵
CAPACITY=100↵
TS__CLASS="NON-FIRM"↵
START__TIME="1996050708000000PD"↵
STOP__TIME="1996050721000000PD"↵
SALE__REF="BEST100"↵
DEAL__REF="WPC100"↵
BID__PRICE=.90↵
CUSTOMER__COMMENTS="Only need service until 6 p.m."↵
```

The Information Provider provides the ASSIGNMENT__REF=5002 for this transaction.

e. Seller informs the Information Provider of the reassignment of the previous transmission rights when the seller accepts the customer purchase request (transsell).

```
TEMPLATE="transsell"↵
CUSTOMER__CODE="Whlsle"↵
SELLER__CODE="BestE"↵
ASSIGNMENT__REF=5002↵
STATUS="Accepted"↵
REASSIGNED__REF1=5000↵
REASSIGNED__CAPACITY1=100↵
REASSIGNED__START__TIME1 = "199605070800PD"↵
REASSIGNED__STOP__TIME1 = "199605071700PD"↵
REASSIGNED__REF2=5001↵
REASSIGNED__CAPACITY2=100↵
REASSIGNED__START__TIME2 = "199605071700PD"↵
REASSIGNED__STOP__TIME2 = "199605071800PD"↵
```

4.4.5 File Examples of the Use of Continuation Records

a. Basic Continuation Records

The first example of the use of Continuation Records is for the transrequest Template submitted by a Seller for purchase of a transmission reservation spanning 16 hours from 06:00 to 22:00 with "ramped" demand at beginning and end of time period. Two additional reservations appear prior to and following the profile to demonstrate the handling of ASSIGNMENT__REF by the OASIS Node.

Only the following fields may be redefined in a continuation record for the transrequest Template: CAPACITY, START__TIME, STOP__TIME. Specification of any values corresponding to COLUMN__HEADERs other than CAPACITY, START__TIME, and STOP__TIME will be ignored, however commas must be included to properly align the CAPACITY, START__TIME and STOP__TIME fields.

Input:

```
VERSION=1.3↵
TEMPLATE=transrequest↵
OUTPUT__FORMAT=DATA↵
PRIMARY__PROVIDER__CODE=AEP↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=7↵
COLUMN__HEADERS = CONTINUATION__FLAG, SELLER__CODE, SELLER__DUNS, PATH__NAME, POINT__OF__RECEIPT,
        POINT__OF__DELIVERY, SOURCE, SINK, CAPACITY, SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD,
        TS__SUBCLASS, STATUS__NOTIFICATION, START__TIME, STOP__TIME, BID__PRICE, PRECONFIRMED, ANC__SVC__LINK,
        POSTING__REF, SALE__REF, REQUEST__REF, DEAL__REF, CUSTOMER__COMMENTS.↵
N, AEP, 123456789, ABC/XY, CE, MECS, , , 35, DAILY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A,, pub/AEP/incoming,
        19970423000000ES, 19970424000000ES, 24.50, Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
        SU:(cust:R345), P0123 , S123, R765, D123, Standard daily reservation↵
N, AEP, 123456789, ABC/XY, CE, AMPO, , , 5, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, pub/AEP/incoming,
        19970423060000ES, 19970423070000ES, 2.50, Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
        SU:(cust:R345), P0123 , S123, R765, D123, First piece of profile spanning 5 records↵
Y, , , , , , , , 10, , , , , , 19970423070000ES, 19970423080000ES, , , , , , , , ,Second piece↵
Y, , , , , , , , 15, , , , , , 19970423080000ES, 19970423200000ES, , , , , , , , ,Third piece↵
Y, , , , , , , , 10, , , , , , 19970423200000ES, 19970423210000ES, , , , , , , , ,Fourth piece↵
Y, , , , , , , , 5, , , , , , 19970423210000ES, 19970423220000ES, , , , , , , , ,Fifth piece↵
N, AEP, 123456789, ABC/XY, CE, MECS, , , 20, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, pub/AEP/incoming,
        19970423040000ES, 19970423160000ES, 2.00, Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
        SU:(cust:R345), P0123 , S123, R765, D123, Standard hourly reservation after profiled reservation↵
```

Response:

```
REQUEST__STATUS=200↵
```

```
TIME__STAMP=19970422160523ES↵
TEMPLATE=transrequest↵
OUTPUT__FORMAT=DATA↵
PRIMARY__PROVIDER__CODE=AEP↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=7↵
COLUMN__HEADERS=RECORD__STATUS, CONTINUATION__FLAG, SELLER__CODE, SELLER__DUNS,
PATH__NAME, POINT__OF__RECEIPT, POINT__OF__DELIVERY, SOURCE, SINK, CAPACITY,
SERVICE__INCREMENT, TS__CLASS, TS__TYPE, TS__PERIOD, TS__SUBCLASS, STATUS__NOTIFICATION,
START__TIME, STOP__TIME, BID__PRICE, PRECONFIRMED, ANC__SVC__LINK, POSTING__REF, SALE__REF,
REQUEST__REF, DEAL__REF, CUSTOMER__COMMENTS, ERROR__MESSAGE↵
200, N, AEP, 123456789, ABC/XY, CE, MECS, , , 35, DAILY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, pub/AEP/incoming,
    19970423000000ES,   19970424000000ES,   24.50,   Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ);   EI:(cust:R123);   SP:(custR234);
    SU:(cust:R345), P0123, S123, R765, D123, Standard daily reservation, No error↵
200, N, AEP, 123456789, ABC/XY, CE, AMPO, , , 5, HOURLY, NON-FIRM, POINT__TO__POINT, OFF__PEAK, N/A, pub/AEP/incoming,
    19970423060000ES,   19970423070000ES,   2.50,   Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ);   EI:(cust:R123);   SP:(custR234);
    SU:(cust:R345), P0123, S123, R765, D123, First piece of profile spanning 5 records, No error↵
200, Y, , , , , , , , 10, , , , , , , 19970423070000ES, 19970423080000ES, , , , , , , , , , Second piece, No error↵
200, Y, , , , , , , , 15, , , , , , , 19970423080000ES, 19970423200000ES, , , , , , , , , , Third piece, No error↵
200, Y, , , , , , , , 10, , , , , , , 19970423200000ES, 19970423210000ES, , , , , , , , , , Fourth piece, No error↵
200, Y, , , , , , , , 5, , , , , , , 19970423210000ES, 19970423220000ES, , , , , , , , , , Fifth piece, No error↵
200, N, AEP, 123456789, ABC/XY, CE, MECS, , , 20, HOURLY, FIRM, POINT__TO__POINT, OFF__PEAK, N/A, pub/AEP/incoming,
    19970423040000ES, 19970423160000ES, 2.00,Y,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234); SU:(cust:R345),
    P0123, S123, R765, D123, Standard hourly reservation after profiled reservation, No error↵
```

b. Submission of Reassignment Information—Case 1:

In the prior example, a reservation request was submitted to ''Rseler'' for 20MW of Hourly Non-firm service from 04:00 to 16:00. Assume that Rseler has previously reserved service for the CE-VP path for Daily Firm in amount of 50 MW on 4/23 under ASSIGN-MENT__REF=7019, and Hourly Non-Firm in amount of 10 MW from 08:00 to 20:00 on 4/23 under ASSIGNMENT__REF=7880. Rseler must designate which transmission service rights are to be reassigned to Cust to satisfy the 20MW from 04:00 to 16:00. This reassignment information is conveyed by Rseler using the *transsell* Template when the reservation request is ACCEPTED. At the SELLER's discretion, rights are assigned from the Non-firm reservation first (ASSIGNMENT__REF=7880) with the balance taken up by the Firm reservation (ASSIGNMENT__REF=7019).

The only fields allowed in ''continuation'' records for *transsell* Template are REASSIGNED__REF, REASSIGNED__CAPACITY, REAS-SIGNED__START__TIME , and REASSIGNED__STOP__TIME. Price may not be negotiated for each ''segment'' in a capacity profile.

Input:

```
VERSION=1.3↵
TEMPLATE=transsell↵
OUTPUT__FORMAT=DATA↵
PRIMARY__PROVIDER__CODE=AEP↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=3↵
COLUMN__HEADERS=CONTINUATION__FLAG, ASSIGNMENT__REF, OFFER__PRICE, STATUS,
STATUS__COMMENTS, ANC__SVC__LINK, SELLER__COMMENTS, REASSIGNED__REF,
REASSIGNED__CAPACITY, REASSIGNED__START__TIME, REASSIGNED__STOP__TIME
N, 8236, 2.00, ACCEPTED, Status comments here,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123);
SP:(custR234); SU:(cust:R345), Seller comments here, 7019, 20, 19970423040000ES, 19970423080000ES↵
Y, , , , , , , 7880, 10, 19970423080000ES, 19970423160000ES↵
Y, , , , , , , 7019, 10, 19970423080000ES, 19970423160000ES↵
```

Response:

```
VERSION=1.3↵
TEMPLATE=transsell↵
OUTPUT__FORMAT=DATA↵
PRIMARY__PROVIDER__CODE=AEP↵
PRIMARY__PROVIDER__DUNS=123456789↵
DATA__ROWS=3↵
COLUMN__HEADERS=RECORD__STATUS, CONTINUATION__FLAG, ASSIGNMENT__REF, OFFER__PRICE,
STATUS, STATUS__COMMENTS, ANC__SVC__LINK, SELLER__COMMENTS, REASSIGNED__REF,
REASSIGNED__CAPACITY, REASSIGNED__START__TIME, REASSIGNED__STOP__TIME, ERROR__MESSAGE↵
200, N, 8236, 2.00, ACCEPTED, Status comments here,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123);
SP:(cust:R234); SU:(cust:R345), Seller comments here, 7019, 20, 19970423040000ES, 19970423080000ES,↵
200, Y, , , , , , , 7880, 10, 19970423080000ES, 19970423160000ES,↵
200, Y, , , , , , , 7019, 10, 19970423080000ES, 19970423160000ES,↵
```

c. Submission of Reassignment Information—Case 2:

Primary provider, AEP, is notified of a sale/assignment of transmission service rights from ''Resell'' to ''cust''. The parameters of the new reservation are for 10MW on 4/23 for ''off-peak'' hours (00:00–06:00 and 22:00–24:00) on POR/POD CE–VP. Rseler is assigning rights to 10MW from a prior reservation for the CE–VP path for Daily Firm in amount of 50 MW on 4/23 under ASSIGN-MENT__REF=7019 to Cust. AEP would submit the following information using the *transassign* Template to post this (re)sale. The only fields allowed in ''continuation'' records for the *transassign* Template are CAPACITY, START__TIME, STOP__TIME, REAS-SIGNED__REF, REASSIGNED__CAPACITY, REASSIGNED__START__TIME, and REASSIGNED__STOP__TIME.

Even though there is a one-to-one correspondence between the segments of the new reservations and the reassignment of service from a prior reservation, it is entirely possible that a reservation spanning a single contiguous period would require multiple continuation records to convey reassignment information, and vice versa.

Fields for CUSTOMER__NAME and SELLER__NAME were used to convey user names for subsequent resolution of contact information from user registration.

Input:

```
VERSION=1.3↵
TEMPLATE=transassign↵
```

OUTPUT_FORMAT=DATA↵
PRIMARY_PROVIDER_CODE=AEP↵
PRIMARY_PROVIDER_DUNS=123456789↵
DATA_ROWS=2↵
COLUMN_HEADERS=CONTINUATION_FLAG, CUSTOMER_CODE, CUSTOMER_DUNS, PATH_NAME,
POINT_OF_RECEIPT, POINT_OF_DELIVERY, SOURCE, SINK, CAPACITY, SERVICE_INCREMENT, TS_CLASS,
TS_TYPE, TS_PERIOD, TS_SUBCLASS, START_TIME, STOP_TIME, OFFER_PRICE, SALE_REF, POSTING_NAME,
REASSIGNED_REF, REASSIGNED_CAPACITY, REASSIGNED_START_TIME, REASSIGNED_STOP_TIME,
SELLER_COMMENTS.↵
N, Resler, 456123789, Cust, 987654321, , , CE, VP, , , 10, HOURLY, NON-FIRM, POINT_TO_POINT, OFF_PEAK, N/A,
19970423000000ES, 19970423060000ES, 2.00, Joe Smith, Jane Doe , N, 19970422121354ES, , 7019, 10, 19970423000000ES,
19970423060000ES, Seller comments go here.↵
Y, , , , , , , , , , 10, , , , , , 19970423220000ES, 19970424000000ES, , , , , , , 7019, 10, 19970423220000ES, 19970424000000ES
↵

Response:

REQUEST_STATUS=200↵
TIME_STAMP=19970422144520ES↵
VERSION=1.3↵
TEMPLATE=transassign↵
OUTPUT_FORMAT=DATA↵
PRIMARY_PROVIDER_CODE=AEP↵
PRIMARY_PROVIDER_DUNS=123456789↵
DATA_ROWS=2↵
COLUMN_HEADERS=RECORD_STATUS, CONTINUATION_FLAG, ASSIGNMENT_REF, SELLER_CODE, SELLER_DUNS, CUS-
TOMER_CODE, CUSTOMER_DUNS, AFFILIATE_FLAG, PATH_NAME, POINT_OF_RECEIPT, POINT_OF_DELIVERY,
SOURCE, SINK, CAPACITY, SERVICE_INCREMENT, TS_CLASS, TS_TYPE, TS_PERIOD, TS_SUBCLASS, START_TIME,
STOP_TIME, OFFER_PRICE, SELLER_NAME, CUSTOMER_NAME, TIME_QUEUED, SALE_REF, REASSIGNED_REF, REAS-
SIGNED_CAPACITY, REASSIGNED_START_TIME , REASSIGNED_STOP_TIME , SELLER_COMMENTS,
ERROR_MESSAGE.↵ 200, N, 8207, Rseler, 456123789, Cust, 987654321, N, , CE, VP, , , 10, HOURLY, FIRM, POINT_TO_POINT,
OFF_PEAK, N/A, 19970423000000ES, 19970423060000ES, 2.00, Joe Smith, Jane Doe , 19970422121354ES, , 7019, 10,
19970423000000ES, 19970423060000ES, Seller comments go here,↵
200, Y, , , , , , , , , , , 10, , , , , , 19970423220000ES, 19970424000000ES, , , , , , 7019, 10, 19970423220000ES, 19970424000000ES,,↵

d. Query of Transmission Reservation Status:

The following typical response to a transstatus query might be delivered for 4/23 based on prior examples. Note that the only fields returned in "continuation" records are, CAPACITY, START_TIME , STOP_TIME , REASSIGNED_REF, REASSIGNED_CAPACITY, REASSIGNED_START_TIME , and REASSIGNED_STOP_TIME (price fields are debatable).

Input:

<appropriate query name/value pairs to return reservations for 4/23>

Response:

REQUEST_STATUS=200↵
TIME_STAMP=19970423040523ES↵
TEMPLATE=transstatus↵
OUTPUT_FORMAT=DATA↵
PRIMARY_PROVIDER_CODE=AEP↵
PRIMARY_PROVIDER_DUNS=123456789↵
DATA_ROWS=11↵
COLUMN_HEADERS= CONTINUATION_FLAG, ASSIGNMENT_REF, SELLER_CODE, SELLER_DUNS, CUSTOMER_CODE, CUS-
TOMER_DUNS, AFFILIATE_FLAG, PATH_NAME, POINT_OF_RECEIPT, POINT_OF_DELIVERY, SOURCE, SINK, CAPAC-
ITY, SERVICE_INCREMENT, TS_CLASS, TS_TYPE, TS_PERIOD,
TS_SUBCLASS, START_TIME , STOP_TIME, CEILING_PRICE, OFFER_PRICE, BID_PRICE, PRECONFIRMED, ANC_SVC_LINK,
POSTING_REF, SALE_REF, REQUEST_REF, DEAL_REF, NEGOTIATED_PRICE_FLAG, STATUS, STATUS_COMMENTS,
TIME_QUEUED, TIME_OF_LAST_UPDATE, PRIMARY_PROVIDER_COMMENTS, SELLER_COMMENTS, CUS-
TOMER_COMMENTS, SELLER_NAME, SELLER_PHONE, SELLER_FAX, SELLER_EMAIL, CUSTOMER_NAME, CUS-
TOMER_PHONE, CUSTOMER_FAX, CUSTOMER_EMAIL, REASSIGNED_REF, REASSIGNED_CAPACITY, REAS-
SIGNED_START_TIME , REASSIGNED_STOP_TIME.↵5
N, 8207, Rseler, 456123789, ACust, 987654321, N, , CE, VP, , , 10, HOURLY, FIRM, POINT_TO_POINT, OFF_PEAK, N/A,
19970423000000ES, 19970423060000ES, 2.25, 2.00, 6.20, N,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
SU:(cust:R345), , , , , N, CONFIRMED, , 19970422121354ES, , TP Comments, Seller comments go here, Customer comments,
Joe Smith, (888)-123–4567, (888)-123–1231, jsmith@xyz.com, Jane Doe, (999)-123–4567, (999)-123–8823, , 7019, 10,
19970423000000ES, 19970423060000ES ↵
Y, , , , , , , , , , , , 10, , , , , , 19970423220000ES, 19970424000000ES, , , , , , , , , , , , 7019, 10, 19970423220000ES,
19970424000000ES↵
N, 8234, Rseler, 456123789, ACust, 987654321, N, , CE, MECS, , , 35 DAILY, FIRM, POINT_TO_POINT, OFF_PEAK, N/A,
19970423000000ES, 19970423060000ES, 42.00, 24.50, 24.50, N,SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
SU:(cust:R345), , , , , N, CONFIRMED, , 19970422121354ES, , Standard daily reservation, System Operator, Customer comments,
Frank Orth, (999)-123–4567, (999)–123–1231, jsmith@xyz.com, Jane Doe, (999)-123–4567, (999)-123–8823, , 7019, 10,
19970423000000ES, 19970423060000ES ↵
N, 8235, AEP, 123456789, Cust, 987654321, N, , CE, AMPO, , , 5↵, HOURLY, NON-FIRM, POINT_TO_POINT, OFF_PEAK, N/
A, 19970423060000ES, 19970423070000ES, 2.50, 2.50, 6.20, N, SC:(cust:SP);RV:(cust:SP);RF(cust:RQ); EI:(cust:R123); SP:(custR234);
SU:(cust:R345), , , , , N, CONFIRMED, , 19970422160523ES, , Profile verified, First piece, Customer comments, System Operator,
(888)-123–4567, (888)-123–1231, jsmith@xyz.com, Jane Doe, (999)-123–4567, (999)-123–8823, , 7019, 10, 19970423000000ES,
19970423060000ES ↵
Y, , , , , , , , , , , , 10, , , , , , 19970423070000ES, 19970423080000ES, , , , , , , , , , , , , , , ↵
Y, , , , , , , , , , , , 15, , , , , , 19970423080000ES, 19970423200000ES, , , , , , , , , , , , , , , ↵
Y, , , , , , , , , , , , 10, , , , , , 19970423200000ES, 19970423210000ES, , , , , , , , , , , , , , , ↵
Y, , , , , , , , , , , , 5, , , , , , 19970423210000ES, 19970423220000ES, , , , , , , , , , , , , , , ↵
N, 8236, Rseler, 456123789, Cust, 987654321, N, , CE, VP, , , 20, HOURLY, FIRM, POINT_TO_POINT, OFF_PEAK, N/A,
19970424040000ES, 19970424160000ES, 2.00, 2.50, 6.20, N , , , ,,, CONFIRMED, , 19970422160523ES, , Bid price refused, Negotiated

OFFER__PRICE accepted, Joe Smith, (888)-123–4567, (888)-123–1231, jsmith@xyz.com, Jane Doe, (999)-123–4567, (999)-123–8823, , 7019, 20, 19970423040000ES, 19970423080000ES↵
Y, 7880, 10, , , , , , 19970423080000ES, 19970423160000ES↵
Y, ,, , , , 7019, 10, , , , , , , 19970423080000ES, 19970423160000ES↵

4.4.6 Examples of Negotiation of Price

4.4.6.1 Negotiation with Preconfirmation

a. The Customer submits a PRECONFIRMED transmission service request using the transrequest Template. Initially, the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, COUNTEROFFER, ACCEPTED, DECLINED, or REFUSED.

c. If the Seller sets STATUS to ACCEPTED (and, as required by Section 4.2.10.1i, the OASIS Node forces the Seller to set OFFER__PRICE equal to BID__PRICE as a condition to setting STATUS to ACCEPTED), the OASIS Node will immediately set STATUS to CONFIRMED.

d. The Customer may WITHDRAW request via transcust Template at any time up to point where the Seller sets STATUS to ACCEPTED. Once the STATUS is CONFIRMED, the OFFER__PRICE officially becomes the terms of the reservation.

e. Once the STATUS is CONFIRMED, the OFFER__PRICE officially becomes the terms of the reservation.

4.4.6.2 Negotiations without Preconfirmation

a. The Customer submits a transmission reservation request with the BID__PRICE less than the CEILING__PRICE via the transrequest Template. Initially the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting the STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, ACCEPTED, DECLINED, COUNTEROFFER, or REFUSED. If INVALID (due to invalid entries in the request), DECLINED (due to the Seller determining that the proposed price is not acceptable and further negotiations are not desired), or REFUSED (due to the unavailability of the requested service) are set, the transmission reservation request is terminated.

c. If the Seller sets the STATUS to RECEIVED or STUDY, and determines that the BID__PRICE is too low, the Seller sets the OFFER__PRICE to the price desired, and sets the STATUS to COUNTEROFFER via the transsell Template.

d. The Customer agrees to the OFFER__PRICE, sets the BID__PRICE equal to the OFFER__PRICE, and sets the STATUS to CONFIRMED via the transcust Template.

e. The OFFER__PRICE with the STATUS of CONFIRMED locks in the terms of the reservation.

4.4.6.3 Multiple Step Negotiations

a. The Customer submits a transmission reservation request with the BID__PRICE less than the CEILING__PRICE via the transrequest Template. Initially the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting the STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, ACCEPTED, DECLINED, COUNTEROFFER, or REFUSED. If INVALID, DECLINED, or REFUSED are set, the transmission reservation request is terminated.

c. The Seller determines that the BID__PRICE is too low, sets the OFFER__PRICE to the desired value, and sets the STATUS to COUNTEROFFER via the transsell Template.

d. The Customer responds to the new OFFER__PRICE with an updated BID__PRICE and sets the STATUS to REBID for re-evaluation by the Seller.

e. The Seller determines that the BID__PRICE now is acceptable, and sets the STATUS to ACCEPTED via the transsell Template. The transition to ACCEPTED state requires the OFFER__PRICE to be set to the BID__PRICE: accepting a reservation with an OFFER__PRICE different from BID__PRICE would require the STATUS be set to COUNTEROFFER rather than ACCEPTED (see item c).

f. The Customer agrees to the OFFER__PRICE and sets the STATUS to CONFIRM via the transcust Template.

g. The OFFER__PRICE with the STATUS as CONFIRMED locks in the terms of the reservation.

4.4.6.4 Negotiations Declined by Seller

a. The Customer submits a transmission reservation request with the BID__PRICE less than the CEILING__PRICE via the transrequest Template. Initially the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting the STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, ACCEPTED, DECLINED, COUNTEROFFER, or REFUSED. If INVALID, DECLINED, or REFUSED are set, the transmission reservation request is terminated.

c. The Seller determines that the BID__PRICE is too low, sets OFFER__PRICE to his desired value, and sets STATUS to COUNTEROFFER via the transsell Template.

d. The Customer responds to OFFER__PRICE with updated BID__PRICE and sets the STATUS to REBID via the transcust Template for re-evaluation by Seller.

e. The Seller breaks off all further negotiations by setting the STATUS to DECLINED, indicating that the price is unacceptable and that he does not wish to continue negotiations.

4.4.6.5 Negotiations Withdrawn by Customer

a. The Customer submits a transmission reservation request with the BID__PRICE less than the CEILING__PRICE via the transrequest. Initially the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting the STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, ACCEPTED, DECLINED, COUNTEROFFER, or REFUSED. If INVALID, DECLINED, or REFUSED are set, the transmission reservation request is terminated.

c. The Seller determines that the BID__PRICE is too low, sets the OFFER__PRICE to his desired value, and sets the STATUS to COUNTEROFFER via the transsell Template.

d. The Customer responds to the OFFER__PRICE with an updated BID__PRICE and sets the STATUS to REBID for re-evaluation by Seller.

e. The Seller determines that the BID__PRICE is still too low, sets the OFFER__PRICE to another value, and sets STATUS to COUNTEROFFER via the transsell Template.

f. The Customer breaks off all further negotiations by setting STATUS to WITHDRAWN (or the Customer/Sellercould go through additional iterations of REBID/COUNTEROFFER until negotiations are broken off or the reservation is CONFIRMED).

4.4.6.6 Negotiations Superseded by Higher Priority Reservation

a. The Customer submits a transmission reservation request with the BID__PRICE less than the CEILING__PRICE via the transrequest Template. Initially the STATUS is set to QUEUED by the OASIS Node.

b. The Seller has the option of setting the STATUS via the transsell Template to one of the following: INVALID, RECEIVED, STUDY, ACCEPTED, DECLINED, COUNTEROFFER, or REFUSED. If INVALID, DECLINED, or REFUSED are set, the transmission reservation request is terminated.

c. If the Seller determines that another reservation has higher priority and must displace this request, he sets the STATUS to SUPERSEDED and the negotiations are terminated.

d. However, if desired and permitted by the tariff, the Seller may set the STATUS of a request in any of these previous states (including COUNTEROFFER and ACCEPTED) to COUNTEROFFER with an OFFER__PRICE which could avoid the request being superseded, thus allowing the Customer the choice of being SUPERSEDED or accepting the proposed OFFER__PRICE.

4.5 Information Supported by Web Page

There shall be a Web page on each OASIS Node with information on requesting the text file of the tariffs and service agreements.

5. Performance Requirements

A critical aspect of any system is its performance. Performance encompasses many issues, such as security, sizing, response to user requests, availability, backup, and other parameters that are critical for the system to function as desired. The following sections cover the performance requirements for the OASIS Nodes .

5.1 SECURITY

Breaches of security include many inadvertent or possibly even planned actions. Therefore, several requirements shall be implemented by the TSIPs to avoid these problems:

a. Provider Update of TS Information: Only Providers, including Secondary Providers, shall be permitted to update their own TS Information.

b. Customer Input Only ASCII Text: TSIPs shall be permitted to require that inputs from Customers shall be filtered to permit only strict ASCII text (strip bit 8 from each byte).

c. Provider Updating Over Public Facilities: If public facilities are involved in the connection between a Provider and the OASIS Node, the Provider shall be able to update his TS Information only through the use of ASCII or through encrypted files.

d. User Registration and Login: All Users shall be required to register and login to a Provider's Account before accessing that Provider's TS Information.

e. User Passwords: All Users shall enter their personal password when they wish access to TS Information beyond the lowest Access Privilege.

f. Service Request Transactions: Whenever Service Request transactions are implemented entirely over OASIS Nodes, both an individual Customer password for the request, and an individual Provider password for the notification of acceptance shall be required.

g. Data Encryption: Sophisticated data encryption techniques and the "secure id" mechanisms being used on the public Internet shall be used to transfer sensitive data across the Internet and directly between OASIS Nodes.

h. Viruses: Since only data is being transmitted between the OASIS Nodes and the Users, viruses are unlikely to be passed between them. Therefore, TSIPs shall be responsible for ensuring that the OASIS Nodes are free from viruses, but need not screen data exchanges with Users for viruses.

i. Performance Log: TSIPs shall keep a log on User usage of OASIS resources.

j. Disconnection: TSIPs shall be allowed to disconnect any User who is degrading the performance of the OASIS Node through the excessive use of resources, beyond what is permitted in their Service Level Agreement.

k. Premature Access: The TSIP log shall also be used to ensure that Users who are affiliated with the Provider's company (or any other User) do not have access to TS information before it is publicly available.

l. Firewalls: TSIPs shall employ security measures such as firewalls to minimize the possibility that unauthorized users shall access or modify TS Information or reach into Provider or User systems. Interfaces through Public Data Networks or the Internet shall be permitted as long as these security requirements are met.

m. Certificates and Public Key Standards (optional): Use of alternative forms of login and authentication using certificates and public key standards is acceptable.

5.2 Access Privileges

Users shall be assigned different Access Privileges based on external agreements between the User and the Provider. These Access Privileges are associated with individual Users rather than just a company, to ensure that only authorized Users within a company have the appropriate access.

The following Access Privileges shall be available as a minimum:

a. Access Privilege Read-Only: The User may only read publicly available TS Information.

b. Access Privilege for Transactions: The Customer is authorized to transact Service Requests.

c. Access Privilege Read/Write: A Secondary Provider shall have write access to his own Provider Account on an OASIS Node.

5.3 OASIS Response Time Requirements

TSIPs can only be responsible for the response capabilities of two portions of the Internet-based OASIS network:
• The response capabilities of the OASIS Node server to process interactions with Users
• The bandwidth of the connection(s) between the OASIS Node server and the Internet.

Therefore, the OASIS response time requirements are as follows:

a. OASIS Node Server Response Time: The OASIS Node server shall be capable of supporting its connection(s) to Users with an average aggregate data rate of at least "A" bits per second. "A" is defined as follows:

$A = N * R$ bits/sec
Where:
N = 5% of registered Customers.
and
R = 28,800 bits/sec per Customer.

b. OASIS Node Network Connection Bandwidth: The bandwidth "B" of the OASIS Node connection(s) to the Internet shall be at least: $B = 2 * A$ bits/sec

c. Time to Meet Response Requirements: The minimum time responses shall be met within 1 month of User registration for any single new User. If more than 10 new Users register in one month, 2 months lead time shall be permitted to expand/upgrade the OASIS Node to meet the response requirements.

5.4 OASIS PROVIDER ACCOUNT AVAILABILITY

The following are the OASIS Provider Account availability requirements:

a. OASIS Provider Account Availability: The availability of each OASIS Provider account on an OASIS Node shall be at least 98.0% (downtime of about 7 days per year).

$$\% \text{ Availability} = \frac{(1 - \text{Cumulative Provider Account Downtime})}{\text{Total Time}} * 100$$

A Provider account shall be considered to be down, and downtime shall be accumulated, upon occurrence of any of the following:

1. One or more Users cannot link and log on to the Provider account. The downtime accumulated shall be calculated as:

Σ for affected Users of $1/n$ * (Login Time), which is the time used by each affected User to try to link and log on to the Provider account, and where "n" is the total number of Users actively registered for that Provider account.

2. One or more Users cannot access TS Information once they have logged on to a Provider account. The downtime accumulated shall be calculated as:

Σ for affected Users of $1/n$ * (Access Time), which is the time used by each affected User to try to access data, and where "n" is the total number of Users actively registered for that Provider.

3. A five (5) minute penalty shall be added to the cumulative downtime for every time a User loses their connection to a Provider's account due to an OASIS Node momentary failure or problem.

5.5 BACKUP AND RECOVERY

The following backup and recovery requirements shall be met:

a. Normal Backup of TS Information: Backup of TS Information and equipment shall be provided within the OASIS Nodes so that no data or transaction logs are lost or become inaccessible by Users due to any single point of failure. Backed up data shall be no older than 30 seconds. Single points of failure include the loss of one:

- Disk drive or other storage device
- Processor
- Inter-processor communications (e.g. LAN)
- Inter-OASIS communications
- Software application
- Database
- Communication ports for access by Users
- Any other single item which affects the access of TS Information by Users

b. Spurious Failure Recovery Time: After a spurious failure situation, all affected Users shall regain access to all TS Information within 30 minutes. A spurious failure is a temporary loss of services which can be overcome by rebooting a system or restarting a program. Permanent loss of any physical component is considered a catastrophic failure.

c. Long-Term Backup: Permanent loss of critical data due to a catastrophic failure shall be minimized through off-line storage on a daily basis and through off-site data storage on a periodic basis.

d. Catastrophic Failure Recovery: Recovery from a catastrophic failure or loss of an OASIS Node may be provided through the use of alternate OASIS Nodes which meet the same availability and response time requirements. TSIPs may set up prior agreements with other TSIPs as to which Nodes will act as backups to which other Nodes, and what procedure will be used to undertake the recovery. Recovery from a catastrophic failure shall be designed to be achieved within 24 hours.

5.6 Time Synchronization

The following are the time requirements:

a. Time Synchronization: Time shall be synchronized on OASIS Nodes such that all time stamps will be accurate to within "0.5 second of official time. This synchronization may be handled over the network using NTP, or may be synchronized locally using time standard signals (e.g. WWVB, GPS equipment).

b. Network Time Protocol (NTP): OASIS Nodes shall support the Internet tool for time synchronization, Network Time Protocol (NTP), which is described in RFC–1305, version 3, so that Users shall be able to request the display and the downloading of current time on an OASIS Node for purposes of user applications which might be sensitive to OASIS time.

5.7 TS Information Timing Requirements

The TS Information timing requirements are as follows, except they are waived during emergencies.

a. TS Information Availability: The most recent Provider TS information shall be available on the OASIS Node within 5 minutes of its required posting time at least 98% of the time. The remaining 2% of the time the TS Information shall be available within 10 minutes of its scheduled posting time.

b. Notification of Posted or Changed TS Information: Notification of TS Information posted or changed by a Provider shall be made available within 60 seconds to the log.

c. Acknowledgment by the TSIP: Acknowledgment by the TSIP of the receipt of User Purchase requests shall occur within 1 minute. The actual negotiations and agreements on Purchase requests do not have time constraints.

5.8 TS Information Accuracy

The following requirements relate to the accuracy of the TS information:

a. TS Information Reasonability: TS information posted and updated by the Provider shall be validated for reasonability and consistency through the use of limit checks and other validation methods.

b. TS Information Accuracy: Although precise measures of accuracy are difficult to establish, Providers shall use their best efforts to provide accurate information.

5.9 Performance Auditing

The following are the performance auditing requirements:

a. User Help Desk Support: TSIPs shall provide a "Help Desk" that is available at least during normal business hours (local time zone) and normal work days.

b. Monitoring Performance Parameters: TSIPs shall use their best efforts to monitor performance parameters. Any User shall be able to read or download these performance statistics.

5.10 Migration Requirements

Whenever a new version of the S&CP is to be implemented, a migration plan will be developed for cutting over to the new version.

Appendix A—Data Element Dictionary

September 29, 1998

Version 1.3

Data dictionary element name	Alias	Field format: minimum characters {type of ASCII} maximum characters	Restricted values	Definition of data element
AFILIATE_Flag	AFFLAG	{alphanumeric} 3	Valid Values: YES. NO.	Set to YES if customer is an affiliate of the provider.
ANC_SERVICE_TYPE.	ANCTYPE	1 {ALPHANUMERIC} 20	Valid types: • EI • SP • SU • RV • RF • SC	EI_Energy Imbalance. SP_Spinning Reserve. SU_Supplemental Reserve. RV_Reactive supply and Voltage Control. RF_Regulation and Frequency response. SC_Scheduling, system Control and Dispatch. {Registered} must be registered with www.tsin.com. and listed in the ANCSERV template.
ANC_SVC_LINK	ANCSVCLINK	0 {ALPHANUMERIC} 300	{Registered} Formatted string as follows: SC:(AA); RV: (AA); RF: (AA[:xxx[:yyy[:nnn]]]); EI: (AA[:xxx[:yyy[:nnn]]]); SP: (AA[:xxx[:yyy[:nnn]]]); SU: (AA[:xxx[:yyy[:nnn]]]); {Registered}: (AA[:xxx[:yyy[:nnn]]]).	The Method for linking ancillary services to a transmission service request. The provider and capacity of each ancillary service is identified using the formatted string: SC:(AA); RV: (AA); RF: (AA[:xxx[:yyy[:nnn]]]); EI: (AA[:xxx[:yyy[:nnn]]]); SP: (AA[:xxx[:yyy[:nnn]]]); SU: (AA[:xxx[:yyy[:nnn]]]); {Registered}: (AA[:xxx[:yyy[:nnn]]]). where AA is the appropriate PRIMARY_PROVIDER_CODE, SELLER_CODE, or CUSTOMER_CODE, and represents the commpany providing the ancillary services. "AA" may be unspecified for "xxx" type identical to "FT", in which case the ":" character must be present and precede the "FT" type. If multiple "AA" terms are necessary, then each "AA" groupin will be enclosed within parenthesis, with the overall group subordinate to the ANC_SVC_TYPE specified within parenthesis. and where xxx represents either: —"FT" to indicate that the Customer will determine ancillary services at a future time, or. —"SP" to indicate that the Customer will self-provide the ancillary services, or —"RQ" to indicate that the Customer is asking the OASIS Node to initiate the process for making an ancillary services reservation with the indicated Provider or Seller on behalf of the Customer. The Customer must then continue the reservation process with the Provider or Seller. If the transmission services request is for preconfirmed service, then the ancillary services shall also be preconfirmed, or —"AR" to indicate an assignment reference number sequence follows. The terms "yyy" and "nnn" are subordinate to the xxx type of "AR". yyy represents the ancillary services reservation number (ASSIGNMENT_REF) and nnn represents the capacity of the reserved ancillary services. Square brackets are used to indicated optional elements and are not used in the actual linkage itself. Specifically, the :yyy is applicable to only the "AR" term and the :nnn may optionally be left off if the capacity of ancillary services is the same as for the transmission services, and optionally multiple ancillary reservations may be indicated by additional (xxx[:yyy[:nnn]]) enclosed within parenthesis. If no capacity amount is indicated, the required capacity is assumed to come from the ancillary reservations in the order indicated in the codes, on an "as-needed" basis.
ANC_SVC REQ	ANCSVCREQ	0{ALPHANUMERIC} 100	EI:{M, R, O, }; SP:{M, R, O, U}; SU:{R, O, U}; RV:{M, R, O, U}; RF:{M, R, O, U}; SC:{M, R, O, U}; {registered}:{M, R, O, U}.	Ancillary services required for a transmission services offering The appropriate letter {M, R, O, U} will be assigned to each of the six Proforma FERC ancillary services (See ANC_SERVICE_TYPE), where the letters mean the following: • (M) Mandatory, which implies that the Primary Provider must provide the ancillary service • (R) Required, which implies that the ancillary service is required, but not necessarily required, from the Primary Provider • (O) Optional, which implies that the ancillary service is not necessarily required, but could be provided • (U) Unknown, which implies that the requirements for the ancillary service are not known at this time
ASSIGNMENT_REF	AREF	1{ALPHANUMERIC}12	Unique value	A unique reference number assigned by a Transmission Information Provider to provide a unique record for each transmission or ancillary service request. A single transmission or ancillary service request will be over a contiguous time period, i.e. from a START TIME to a STOP TIME.
BID_PRICE	BIDPR	1{NUMERIC}5 + "." +2{NUMERIC}2.	Positive number with 2 decimals	The current bid price of a Service in dollars and cents. Used by Customers to designate a price being bid.

Element name	Abbreviation	Format	Type	Description
CAPACITY	CAP	1{NUMERIC}12	Non-negative number in units of MW	Transfer capability is the measure of the ability of the interconnected electric system to readily move or transfer power from one area to another over all transmission lines (or paths) between those areas under specified system conditions. In this context "area" may be an individual electric system, powerpool, control area, subregion, or NERC region or portion thereof.
CAPACITY_CURTAILED.	CAPCUR	1{NUMERIC}12	Non-negative number in units of MW	The amount of transfer capability curtailed by the Primary provider for emergency reasons.
CAPACITY_SCHEDULED.	CAPSCH	0{NUMERIC}12	Non-negative number in units of MW	Transfer capability scheduled on each path.
CATEGORY	CAT	0{ALPHANUMERIC}25	Valid name from CATEGORY in LIST Template.	A name to be used to categorize messages. Valid names would include: , Want-Ad, Curtailment, Outage, Oasis Maint Notice.
CEILING_PRICE	CEILPR	1{NUMERIC}5 + "."+2{NUMERIC}2.	Positive number with 2 decimals	Ceiling price of the Service as entered by the Transmission Provider.
COLUMN_HEADERS	HEADERS	1{ALPHANUMERIC} Limited to all the elements names in one Template.	Headers surrounded with A and separated by commas. Limited to valid Template element names. Must use full element name and not alias..	Example: COLUMN_HEADER=APATH_NAME", "POINT_OF_RECEIPT", "POINT_OF_DELIVERY", "SOURCE", "SINK".
CONTINUATION_FLAG.	CONT	1{ALPHANUMERIC}1	"Y" or "N"	Indicates whether or not this record is a continuation from the previous record.
CONTROL_AREA	AREA	1{ALPHANUMERIC}20	Valid name of a control area	A part of the power system with metered tie lines and capable of matching generation and load while meeting scheduled interchange. Location of Ancillary Services is my CONTROL AREA.
CURAILMENT OPTIONS.	CUROPT	0{ ALPHANUMERIC} 80	Free form text	Customer options, if any, to avoid curtailment.
CURTAILMENT PROCEDURES.	CURPROC	0{ ALPHANUMERIC}80	Free form text	Curtailment procedures to be followed in the event of a curtailment.
CURTAILMENT_REASON.	CURREAS	0{ALPHANUMERIC}80	Free-form text	Reason for curtailment of service.
CUSTOMER_CODE	CUST	1{ALPHANUMERIC}6	Unique value, registered on TSIN.COM	Any entity (or its designated agent) that is eligible to view OASIS information, to execute a service agreement, and/or to receive transmission service.
CUSTOMER COMMENTS.	CUSTCOM	0{ALPHANUMERIC}80	Free-form text	Informative text.
CUSTOMER_DUNS	CUSTDUNS	9{NUMERIC}9	Unique DUNS number	Unique DUNS number for a Customer.
CUSTOMER_EMAIL	CUSTEMAIL	1{ALPHANUMERIC}25	Valid Internet E-Mail address	Internet E-Mail address of Customer contact person.
CUSTOMER_FAX	CUSTFAX	14{ALPHANUMERIC}20	Area code and telephone number, plus any extensions (aaa)–nnn–nnnn xnnnn.	FAX phone number of Customer contact person.
CUSTOMER_NAME	CUSTNAME	1{ALPHANUMERIC}25	Free form text	Name of Customer contact person.
CUSTOMER_PHONE	CUSTPHON	14{ALPHANUMERIC}20	Area code and telephone number, plus any extensions (aaa)-nnn-nnnn-xnnnn.	Telephone of Customer contact person.
DATA_ROWS	ROWS	1{NUMERIC}unlimited	Positive Number	Number of records (rows) of data exclusive of header information that are to be uploaded or downloaded in a file.
DATE_TIME_EFFECTIVE.	TIMEEFCT	16{ALPHANUMERIC}16	Valid date and time in seconds yyyy+mo–dd+hh . +mm+ss+tz	Date and time a message or service offer is in effect.
DEAL_REF	DREF	0{ALPHANUMERIC}12	Unique value, Assigned by Customer	The unique reference assigned by a Customer to two or more service purchases to identify each of them as related to others in the same power service deal. These requests may be related to each other in time sequence through a single Provider, or as a series of wheels through multiple Providers, or a combination of both time and wheels. The User uses the DEAL_REF to uniquely identify a combination of requests relating to a particular deal.
DISCRETION_DESCRIPTION.	DISCDESC	0{ALPHANUMERIC}1000	Free form text	A detailed description of the discretion being reported.
ELEMENT_NAME	ELEMENT	1{ALPHANUMERIC}40	Valid Template element name	Template element name as indicated in data dictionary.
EMPLOYEE_NAME	EMPNAME	1{ALPHANUMERIC}25	Free form text	Name of person who is transferring from one position to another.
ERROR_MESSAGE	ERROR	1{ALPHANUMERIC}250	Free form text	Error message related to a RECORD_STATUS or REQUEST STATUS.
FORMER_COMPANY	FORMCO	1{ALPHANUMERIC}25	Free form text	Former company of the person who is transferring.
FORMER_DEPARTMENT.	FORMDEPT	1{ALPHANUMERIC}25	Free form text	Former position held by the person who is transferring.
FORMER_POSITION	FORMPOS	1{ALPHANUMERIC}25	Free form text	Former position held by the person who is transferring.
INTERFACE_TYPE	INTERFACE	0{ALPHANUMERIC}1	I,E	Type of interface define by path: Internal (I) to a control area or External (E) to a control area.
LIST_ITEM	ITEM	1{ALPHANUMERIC}50	Free form text	Item from LIST, such as list of SELLER, list of PATH_NAME, list of POINT_OF_RECEIPT, list of POINT_OF_DELIVERY, list of SERVICE_INCREMENT, list of TS_CLASS, list of TS_TYPE, list of TS_PERIOD, list of TS_WINDOW, list of TS_SUBCLASS, list of ANC_SERVICE_TYPE, list of NERC_CURTAILMENT_PRIORITY, list of OTHER_CURTAILMENT_PRIORITY, list of LIST_CATEGORY, list of TEMPLATE, list of LIST_ITEM.
LIST_ITEM_DESCRIPTION.	ITEMDESC	0{ALPHANUMERIC}100	Free form text	A detailed description of the LIST_ITEM.

September 29, 1998—Continued

Version 1.3

Data dictionary element name	Alias	Field format: minimum characters (type of ASCII) maximum characters	Restricted values	Definition of data element
LIST_NAME	LIST	1{ALPHANUMERIC}50	LIST, SELLER, PATH, POR, POD, SERVICE, INCREMENT, TS_CLASS, TS_TYPE, TS_PERIOD, TS_SUBCLASS, ANC_SERVICE_TYPE, NERC_CUR-TAILMENT_PRIORITY, OTHER_CUR-TAILMENT_PRIORITY, CATEGORY, TEMPLATE.	List of valid names for each of the types of lists. The minimum set of lists defined must be implemented.
MESSAGE	MSG	1{ALPHANUMERIC}200	Free form text	An informative text message.
NEGO-TIAT-ED_PRICE_FLAG.	NGPRIFLG	0{ALPHANUMERIC}1	H,L, or blank	Set to H if OFFER_PRICE is higher than the currently posted price; set to L if OFFER_PRICE is lower than the currently posted price.
NERC_CURTAIL-MENT_PRIORITY.	NERCURT	1{ALPHANUMERIC}1	Integer 1–7	One of the NERC seven curtailment priorities, documented in LIST template.
NEW_COMPANY	NEWCO	1{ALPHANUMERIC}25	Free form text	New company of the person who is transferring.
NEW_DATA	NEWDATA	0{ALPHANUMERIC}200	Any valid date element value	For audit log, the new updated value of a Template data element after update.
NEW_DEPARTMENT	NEWDEPT	1{ALPHANUMERIC}25	Free form text	New department of the person who is transferring.
NEW_POSITION	NEWPOS	1{ALPHANUMERIC}25	Free form text	New position held by the person who is transferring.
OFFER_PRICE	OFFPR	1{NUMERIC}5 +"." + 2{NUMERIC}2.	Positive number with 2 decimals	The current offered price of a Service in dollars and cents. Used by the Seller to indicate the offering price.
OFFER_START_TIME.	OFFSTIME	0,16{ ALPHANUMERIC} 16.	Valid Date and Time to seconds: yyy + mo + dd + hh + mm + ss + tz	Start time of the window during which a Customer may request a discounted offer. If null, no restrictions on the start of the offering time is implied (other than tariff requirements).
OFFER_STOP_TIME.	OFFSPTIME	0,16{ ALPHANUMERIC} 16.	Valid Date and Time to seconds: yyy + mo + dd + hh + mm + ss + tz	Stop time of the window during which a Customer may request a discounted offer. (Expiration time of an offer). If null, no restrictions on the end of the offering time is implied (other than tariff requirements).
OLD_DATA	OLDDATA	0{ ALPHANUMERIC} 200	Any valid data element value	For audit log, the old value of a Template data element prior to being updated. This element is not applicable in the audit log for transaction events.
OPTIONAL_CODE	N/A	0{ ALPHANUMERIC} 25	Unique path name within region	OPTIONAL_CODE—25 chars, unique for Path. If used for directionality, then the first 12 characters shall represent POR, followed by >>, followed by 12 characters which shall represent POD. Used by PATH_NAME.
OTHER_CURTAIL-MENT_PRIORITY.	OTHCUR	0{ALPHANUMERIC}8	Free form text	Other than NERC curtailment priorities, such as regional curtailment priorities. Suggested format region+number, for example MAPP4, WSCC7. Documented in LIST template.
OUTPUT_FORMAT	FMT	4{ALPHANUMERIC}4	HTML, DATA	Format of response: HTML=hypertext markup language for presentation using a web browser.
PATH_CODE	N/A	0{ALPHANUMERIC}12	Unique code for each path as defined by primary provider.	Unique code within a Region for each path. Used by PATH_NAME.
PATH_NAME	PATH	5{ALPHANUMERIC}50	Unique value	The unique name assigned to a single transmission line or the set of one or more parallel transmission lines whose power transfer capabilities are strongly interrelated and must be determined in aggregate. These lines are typically described as being on a path, corridor or interconnection in some regions, or as crossing an interface or cut-plane in other regions. Multiple lines may be owned by different parties and require prorating of capability shares. The name is constructed from the following codes, with each code separated by ",", Trailing "/" may be omitted, if there are no values for OPTION_CODE and SPARE_CODE: REGION_CODE—2 chars, unique to OASIS System PRIMARY_PROVIDER_CODE—4 chars, unique within Region PATH_CODE—12 chars, unique for Primary Provider OPTIONAL_CODE—25 chars, unique for Path. If used for directionality, then the first 12 characters shall represent POR, followed by >>, followed by 12 characters which all represent POD. SPARE_CODE—3 chars.
POINT_OF_DELIV-ERY.	POD	1{ALPHANUMERIC}12	Unique value within Primary Provider	Point of Delivery is one or more point(s) of interconnection on the Transmission Provider's transmission system where capacity and/or energy transmitted by the Transmission Provider will be made available to the Receiving Party. This is used along with Point of Receipt to define a Path and direction of flow on that path. For internal paths, this would be a specific location(s) in the area. For an external path, this may be an area-to-area interface.
POINT_OF_RE-CEIPT.	POR	1{ ALPHANUMERIC} 12	Unique value within Primary Provider	Point of Receipt is one or more point(s) of interconnection on the Transmission Provider's transmission system where capacity and/or energy transmitted will be made available to the Transmission Provider by the Delivering Party. This is used along with Point of Delivery to define a Path and direction of flow on that path. For internal paths, this would be a specific location(s) in the area. For an external path, this may be an area-to-area interface.
POSTING_NAME	POSTNAME	1{ ALPHANUMERIC} 25	Free form text	Name of person who is posting the information on the OASISNode
POSTING_REF	POSTREF	1{ALPHANUMERIC}12	Unique Value	Assigned by TSIP when Service or Message is received by TSIP. Unique number can be used by the user to modify or delete the posting.

Field	Code	Type	Valid values	Description
PRECONFIRMED	PRECONF	2{ALPHA}3	YES or NO	Used by Customer to preconfirm sale in Template transrequest or ancrequest. If customer indicates sale is preconfirmed, then the response is YES and the customer does not need to confirm the sale.
PRICE_UNITS	UNITS	0(ALPHA)20	Free form text	The units used for CEILING_PRICE, OFFER_PRICE, AND BID_PRICE. Examples: $/MWhr, $/MWmonth
PRIMARY_PROVIDER_COMMENTS	PPROVCOM	0{ ALPHANUMERIC} 80	Free-form text	Informative text. Usually entered by the Primary Provider through a back end system.
PRIMARY_PROVIDER_CODE	PROVIDER	1{ ALPHANUMERIC} 4	Unique Code	Unique code for each Primary Provider. Used by PATH_NAME and in URL. Registered as part of URL at www.tsin.com.
PRIMARY_PROVIDER_DUN S.	PPROVDUNS	9{ NUMERIC} 9	Valid DUNS number	Unique code for each Primary. Provided by Dun and Bradstreet.
REASSIGNED_CAPACITY	RASCAP	1{ NUMERIC} 12	Positive number, cannot exceed previous assigned capacity.	The amount of transfer capability that was reassigned from one entity to another.
REASSIGNED_REF	REREF	1{ ALPHANUMERIC} 12	Unique value	When customer makes a purchase of a transmission service that was posted for resale and a new ASSIGNMENT_REF number is issued the previous ASSIGNMENT_REF number now becomes the REASSIGNMENT_REF. Also used by SELLER when posting transmission or ancillary services for resale to show the previous assignment reference number. Also used by the customer when making a request to use FIRM service as SECONDARY over alternative points of delivery.
REASSIGNED_START_TIME.	RESSTIME	16{ ALPHANUMERIC} 16	Valid date and time to seconds: yyyy + mo + dd + hh + tz	Beginning date and time of the reassigned transmission service
REASSIGNED_STOP_TIME.	RESSPTIME	16{ ALPHANUMERIC} 16	Valid date and time to hour: yyyy + mo + dd + hh + tz	Date and time of the end of the transmission service that is reassigned to another user.
RECORD_STATUS	RECSTATUS	1{ NUMERIC} 3	Error number	Record status indicating record was successful or error code if unsuccessful. 200=Successful
REGION_CODE	N/A	1{ ALPHANUMERIC} 2	Unique within OASIS System	Defined for NERC regions, with the following defined: E ECAR. I MAIN. S SERC. T ERCOT. A MAPP. P SPP. M MAAC. N NPCC. W WSCC. F FRCC. Second character or digit reserved for subregion id as defined by each region.
REQUEST_REF	RREF	0{ ALPHANUMERIC} 12	Unique value	A reference uniquely assigned by a Customer to a request for service from a Provider.
REQUEST_STATUS	RSTATUS	1{ NUMERIC} 3	Error number	Message status indicating message was successful (if all RECORD_STATUS show success) or error code if any RECORD_STATUS showed unsuccessful. 200=Successful.
RESPONSE_TIME_LIMIT.	RESPTL	16{ ALPHANUMERIC} 16	Valid date and time to seconds: yyyy + mo + dd + hh +mm + ss + tz.	Date and time to seconds by when a response must be received from a Customer.
RESPONSIBLE_PARTY_NAME.	PARTNAME	1{ ALPHANUMERIC} 25	Free form text	The name of the person responsible for granting the discretion.
RETURN_TZ	TZ	2{ ALPHANUMERIC} 2	AD, AS, PD, PS, ED, ES, MD, MS, CD, CS, UT.	A time zone code, indicating the base time zone, and whether daylight saving time is to be used. This field may be set by a Customer in a query. Returned date and time data is converted to this time zone.
SALE_REF	SREF	0{ ALPHANUMERIC} 12	Unique value	Identifier which is set by seller (including Primary Provider) when posting a service for sale.
SELLER_CODE	SELLER	1{ ALPHANUMERIC} 6	Unique value	Organization name of Primary Provider or Reseller.
SELLER_COMMENTS	SELCOM	0{ ALPHANUMERIC} 80	Free-form text	Informative text provided by the Seller.
SELLER_DUNS	SELDUNS	9{ Numeric} 9	Valid DUNS number	Unique Date Universal Numbering System provided by Dun and Bradstreet. Code for a Primary Provider or Seller.
SELLER_EMAIL	SELEMAIL	5{ ALPHANUMERIC} 60	Valid network reference	E-mail address of Seller contact person.
SELLER_FAX	SELFAX	14{ ALPHANUMERIC} 20	Area code and telephone number, plus any extensions Example: (aaa)–nnn–nnnn xnnn.	The fax telephone number for contact person at Seller.
SELLER_NAME	SELNAME	1{ ALPHANUMERIC} 25	Free form text	The name of an individual contact person at the Seller.
SELLER_PHONE	SELPHONE	14{ ALPHANUMERIC} 20	Area code and telephone number, plus any extensions (aaa)–nnn–nnnn xnnnn.	The telephone number of a contact person as a Seller.
SERVICE_DESCRIPTION.	SVCDESC	0{ ALPHANUMERIC} 200	Free-form text	Information regarding a service.
SERVICE_INCREMENT.	SRVINCR	1{ ALPHANUMERIC} 8	Valid increments • HOURLY • Daily • Weekly • Monthly • Yearly • { Registered}	The transmission service increments provided. Five are pre-defined, while additional increments can be used if they are registered on TSIN.COM and shown in the Provider's LIST template.
SERVICE_NAME	SVCNAME	1{ ALPHANUMERIC} 25	Free-form text	Name of service affected by the discretionary action.
SERVICE_TYPE	SVCTYPE	1{ ALPHANUMERIC} 25	Free-form text	Type of service affected by the discretionary action.
SINK	SINK	0{ ALPHANUMERIC} 14	Valid area name	The area in which the SINK is located.
SOURCE	SOURCE	0{ ALPHANUMERIC} 14	Valid area name	The area in which the SOURCE is located.

September 29, 1998—Continued

Version 1.3

Data dictionary element name	Alias	Field format: minimum characters (type of ASCII) maximum characters	Restricted values	Definition of data element
SPARE_CODE	N/A	0{ ALPHANUMERIC} 3	Defined by region	Spare code to be used at a later time. Used by PATH_NAME.
STANDARDS_OF_CONDUCT_ISSUES.	STDISSUE	0{ ALPHANUMERIC} 800	Free-form text	Issues that were in violation of the FERC Standards of Conduct. This text may include a reference pointer to a more detailed description.
START_TIME	STIME	16{ ALPHANUMERIC} 16	Valid Date and Time to seconds: yyyy + mo + dd + hh + mm + ss + tz	Start date and clock time of a service. When used as a query variable, it requires the return of all items whose Stop time is after the Start time. Note that for some Templates when used as a query variable, it requires the return of all items whose is valid, the hour, day or month may be only valid up to the hour, day or month. If more data is given than is valid, the hour, day or month will be used to make the date and time inclusive, i.e. date or time will be truncated to valid hour, day or month.
START_TIME_POSTED.	STIMEP	16{ ALPHANUMERIC} 16	Valid Date and Time to seconds: yyyy + mo + dd + hh + mm + ss + tz	Query parameter to indicate all the records are to be retrieved that were posted on or after this time.
START_TIME_QUEUED.	STIMEQ	16{ ALPHANUMERIC} 16	Valid Date and Time to seconds: yyyy + mo + dd + hh + mm + ss + tz	Start date and clock time of a service, used for requesting transactions queued after this time.
STATUS	STATUS	5{ ALPHANUMERIC} 25	Valid field (QUEUED, INVALID, RECEIVED, STUDY, REBID, COUNTEROFFER, DECLINED, SUPERSEDED, ACCEPTED, REFUSED, CONFIRMED, WITHDRAWN, DISPLACED, ANNULLED, RETRACTED).	QUEUED=initial status assigned by TSIP or Provider on receipt of "customer services purchase request". INVALID=assigned by TSIP or Provider indicating an invalid field in the request, such as improper POR, POD, source, sink, etc. (Final state). RECEIVED=assigned by Provider or Seller to acknowledge QUEUED requests and indicate the service request is being evaluated, including for completing the required ancillary services. STUDY=assigned by Provider or Seller to indicate some level of study is required or being performed to evaluate service request. REFUSED=assigned by Provider or Seller to indicate service request has been denied due to availability of transmission capability, SELLER_COMMENTS should be used to communicate details for denial of service. (Final state). COUNTEROFFER=assigned by Provider or Seller to indicate that a new OFFER_PRICE is being proposed. REBID=assigned by Customer to indicate that a new BID_PRICE is being proposed. SUPERSEDED=assigned by Provider or Seller when a request which has not yet been confirmed is displaced by another reservation request. (Final state). ACCEPTED=assigned by Provider or Seller to indicate the service request at the designated OFFER_PRICE has been approved/accepted. If the reservation request was submitted PRECONFIRMED, the TSIP shall immediately set the reservation status to CONFIRMED. Depending upon the type of ancillary services required, the Seller may or may not require all ancillary service reservations to be completed before accepting a request. DECLINED=assigned by the Provider or Seller to indicate that the BID_PRICE is unacceptable and that negotiations RETRACTED = assigned by Provider or Seller when the Customer fails to confirm or withdraw an accepted updated offer within the required time period. (Final state). WITHDRAWN = assigned by the Customer at any point in request evaluation to withdraw the request from any further action. (Final state). CONFIRMED = assigned by the Customer in response to the Provider or Seller posting "ACCEPTED" status, to confirm service. Once a request has been "CONFIRMED", a transmission service reservation exists. (Final state, unless overridden by DISPLACED or ANNULLED state). DISPLACED = assigned by Provider or Seller when a "CONFIRMED" reservation from a Customer is displaced by a longer term request, and the Customer has exercised right of first refusal (i.e. refused to match terms of new request). (Final state). ANNULLED = assigned by Provider or Seller when, by mutual agreement with the Customer, a confirmed reservation is to be voided. (Final state).
STATUS_COMMENTS.	STACOM	0{ ALPHANUMERIC} 80	Free form text	Informative text.
STATUS_NOTIFICATION.	STATNOT	0{ ALPHANUMERIC} 200	http://URL: portnumber/ directory/cgi script/ query parameters or. Mailto: <e-mail address>	The STATUS_NOTIFICATION data element shall contain the protocol field "http:", which designates the notification method/protocol to be used, followed by all resource location information required; the target domain name and port designations shall be inserted into the notification URL based on the Customer's Company registration information. The resource location information may include directory information, cgi script identifiers and URL encoded query string name/value pairs as required by the Customer's application. or mailto and email address for the status information the Customer wants to receive upon a change in STATUS of transstatus, or ancstatus

Name	Code	Type	Format / Values	Description
STOP_TIME	SPTIME	16{ ALPHANUMERIC} 16	Valid date and time / yyyy + mo + dd + hh +mm +ss +tz	Stop date and clock time. When used as a query variable, it requires the return of all items which start before the Stop time. Note that for some Templates when used as a query variable the time may be only valid up to the hour, day or month. If more data is given than is valid, the hour, day or month will be used to make the date and time inclusive, i.e. date or time will be increased to include STOP TIME.
STOP_TIME_POSTED	STPTIMEP	16{KAΛITHAN⊙MEPЧΨ} 16.	Valid Date and Time to seconds: / yyyy + mo + dd +hh + mm +ss +tz	Query parameter to indicate all the records are to be retrieved that were posted on or before this time.
STOP_TIME_QUEUED	SPTIMEQ	16{ ALPHANUMERIC} 16	Valid Date and Time to seconds: / yyyy + mo + dd + hh + mm + ss + tz	Stop date and clock time, used for requesting transactions queued before this time.
SUBJECT	SUBJ	0{ ALPHANUMERIC} 80	Free form text	Informative text used to summarize a topic in a message.
TARIFF_REFERENCE	TARIFF	0{ ALPHANUMERIC} 150	Free form text. Name and description of Tariff	Tariffs approved by FERC.
TEMPLATE	TEMPL	1{APHANUMERIC}20	Valid name of Template from Section 4.3 or from LIST Template.	The name of a logical collection DATE_ELEMENTS in a User's interaction with an OASIS Node.
TIME_OF_LAST_UPDATE	TLUDATE	16{APHANUMERIC} 16	Valid date and time to seconds: / yyy + mo + dd + hh = + mm + ss + tz	Date and time to seconds that data was last updated. May be used to search data updated since a specific point in time.
TIME_POSTED	TIMEPST	16{APHANUMERIC} 16	Valid Date and Time to seconds: / yyy + mo + dd + hh + mm + ss + tz	Date and time a message is posted.
TIME_QUEUED	TIMEQ	16{APHANUMERIC} 16	Valid Date and Time to seconds:3 / yyy + mo + dd + hh + mm + ss + tz	Date and time that the request was queued.
TIME_STAMP	TSTAMP	16{APHANUMERIC} 16	Valid date and Time to seconds / yyy + mo + dd + hh + mm + ss + tz	Time data is created.
TS_CLASS	TSCLASS	1{APHANUMERIC} 20	Valid classes: • FIRM • NON–FIRM • TTC • SECONDARY • {Registered}	The transmission service classes provided. Four are pre-defined, while additional classes can be used if they are registered on TSIN.COM and shown in the Provider's LIST template plate page. SECONDARY is defined as alternate points of receipt or delivery for POINT_TO_POINT, or as nondesignated resources for NETWORK service.
TS_PERIOD	TSPER	1{APHANUMERIC} 20	Valid periods: ON_PEAK, OFF_PEAK, FULL_PERIOD, {Registered}	The transmission service periods provided. Three are pre-defined, while additional periods can be used if they are registered on TSIN.COM and shown in the Provider's LIST template.
TS_SUBCLASS	TSSUBC	0{ALPHANUMERIC}	Free Form	The transmission service subclasses provided. These are freefrom.
TS_TYPE	TSTYPE	1{APHANUMERIC} 20	Valid types: • POINT_TO_POINT • NETWORK • ACT • {Registered}	The transmission service types provided. Three are pre-defined, while additional types can be used if they are registered on TSIN.COM and shown in the Provider's LIST template.
TS_WINDOW	TSWIND	1{APHANUMERIC} 20	Valid windows: • FIXED • SLIDING • EXTENDED • {Registered}	The transmission service windows provided. Three are pre-defined, while additional windows can be used if they are registered on TSIN.COM and shown in the Provider's LIST template.
TZ	TZ	2{APHANUMERIC} 2	Valid time zone and indication whether daylight savings time is to be used.	Time zones: Atlantic time=AD, AS. Eastern time=ED, ES Central time=CD, CS Mountain time=MD, MS. Pacific time=PD, PS. Universal time=UT.
VALID_FROM_TIME	VALFTIME	16{PHANUMERIC} 6	Valid date and time / yyy + mo + dd + hh + mm + ss + tz	Date and time after which the message is valid.
VALID_TO_TIME	VALTTIME	16{PHANUMERIC} 16	Valid date and time / yyy + mo + dd + hh.	Date and time before which the message is valid.
VERSION	VER	1{APHANUMERIC} 6	+ mm + ss + tz / Range of 1.0 to 9999.9	Specifies which version of the OASIS Standards and Communication Protocol to use when interpreting the request.

Open Access Same-Time Information System and Standards of Conduct
Docket No. RM95–9–003
(Issued September 29, 1998)
BAILEY, Commissioner, *concurring*

Several months ago, I dissented from the decision to require the unmasking and public posting of source and sink information on the OASIS. *See Open Access Same-Time Information System and Standards of Conduct,* 83 FERC ¶ 61,360 (1998), *reh'g pending.* Because today's decision to delay for two months the obligation to post source and sink information on the OASIS is better than no delay at all (though not good as a decision to delay indefinitely the posting obligation), I respectfully *concur* with today's order.

Vicky A. Bailey,

Commissioner.

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