

# R04005-Attachment

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

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### ATTACHMENT C

#### DATA ELEMENT DICTIONARY APPENDIX A OF STANDARDS AND COMMUNICATIONS PROTOCOLS June 26, 2000 Version 1.4

Data Dictionary Element Name	Alias	Field Format : minimum characters {type of ASCII} maximum characters	Restricted Values	Definition of Data Element
AFFILIATE_FLAG	AFFLAG	{ALPHANUMERIC}3	Valid Values YES NO	Set to YES if customer is an affiliate of the provider
ANC_SERVICE_POINT	ANCPPOINT	0{ALPHANUMERIC} 12	Free form text, null can be used if there is no ancillary service point other than the control area	Name of ancillary service point within a control area, such as a POR/POD/SOURCE/SINK from which the ancillary service is provided
AS_TYPE	ASTYPE	1{ALPHANUMERIC} 20	Valid types • EI • SP • SU • RV • RF • SC • DT • TL • BS • {Registered}	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 DT - Dynamic Transfer TL - Real power Transmission Loss BS - System Black Start capability {Registered} must be registered with www.tsin.com and listed in the ANCSERV Template
ANC_SVC_LINK	ANCSVCLINK	0{ALPHANUMERIC} 300	Formatted string as follows: SC:(AA[:xxx[:yyy[:nnn]]]); RV:(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[:xxx[:yyy[:nnn]]]);

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			<pre> ]]); 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]]]) </pre>	<pre> RV:(AA[:xxx[:yyy[:nnn]]]); 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]]]) </pre> <p>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.</p> <p>If multiple "AA" terms are necessary, then each "AA" grouping will be enclosed within parenthesis, with the overall group subordinate to the AS_TYPE specified within parenthesis and where xxx represents either: _ "FT" to indicate that the Customer will determine ancillary services at a future time, or</p>
ANC_SVC_LINK (cont.)				<ul style="list-style-type: none"> <li>– "SP" to indicate that the Customer will self-provide the ancillary services, or "RQ" to indicate that the Customer is asking the OASIS Nodeto 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</li> </ul>

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ANC_SVC_REQ	ANCSVCRE Q	0{ALPHANUMERIC} 100	EI:{M,R,O,U}; SP:{M,R,O,U}; SU:{M,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 AS_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 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 an STOP_TIME.
ATTRIBUTE_UNITS	ATTRUNIT S	1{ALPHANUMERIC} 20	Free form text	System data attribute units
ATTRIBUTE_VALUE	ATTRVAL UE	1{NUMERIC}12	Real number	System data attribute value
BID_PRICE	BIDPR	1{NUMERIC}5 + A.@ + 2{NUMERIC}4	Positive number with 2 to 4 decimals	The current bid price of a Service in dollars and cents. Used by Customers to designate a price being bid.
CAPACITY	CAP	0{NUMERIC}12	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_AVAI LA BLE	CAPAVAIL	0{NUMERIC}12	Non-negative number in units of MW	Amount of transmission capacity available after all the reductions are applied to CAPACITY_GRANTED over the time interval
CAPACITY_CURTAI LED	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_GRANTE D	CAPGRNT	0{NUMERIC}12	Non-negative number in units of MW	The amount of capacity granted by the seller equal to or less than CAPACITY_REQUESTED by the TC.
CAPACITY_REDUCE D	CAPREDU	0{NUMERIC}12	Negative number in units of MW	Amount of transmission capacity reduced
CAPACITY_REQUES TED	CAPREQ	0{NUMERIC}12	Non-negative number in units of MW	Transmission capacity requested by the Transmission Customer (TC)
CAPACITY_SCHEDU LED	CAPSCH	0{NUMERIC}12	Non-negative number in units of MW	Transfer capability scheduled on each path
CAPACITY_USED	CAPUSED	0{NUMERIC}12	Non-negative number in units of MW	CAPACITY_USED reflects the peak MW amount of the reservation used to support the scheduled transaction

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CATEGORY	CAT	0{ALPHANUMERIC} 25	Valid name from CATEGORY in LIST Template	A name to be used to categorize messages. Valid names would include: , <i>Want-Ad</i> , <i>Curtaiment</i> , <i>Outage</i> , <i>OASIS_Maintenance_Outage</i>
CEILING_PRICE	CEILPR	1{NUMERIC}5 + "." + 2{NUMERIC}4	Positive number with 2 to 4 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"
COMPETING_REQUEST_FLAG	COMPREQ	1{ALPHANUMERIC} 1	"Y" or "N"	If "Y", indicates there is one or more competing requests for this reservation. The competing request AREFs are listed in the SELLER_COMMENTS
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.
CURTAILMENT_OPTIONS	CUROPT	0{ALPHANUMERIC} 80	Free form text	Customer options, if any, to avoid curtailment
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} 255	Free-form text	Informative text. For information to be communicated between the customer and seller.
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 xxxnn	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 xxxnn	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	TIMEEFFECT	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

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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_DESC RIPTION	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
EVENT_ID	EVENTID	0{ALPHANUMERIC} 25	Free form text	The EVENT_ID Data Element is any regional or interconnection-wide recognized security event identifier for events that are of greater scope than those administered locally by the Provider (e.g., a NERC Security Coordinator assigned identifier corresponding to a particular implementation of the NERC TLR procedure).
FACILITY_CLASS	FACCLASS	0{ALPHANUMERIC} 25	Free form text, for example: TRANSFORMER, LINE, FLOWGATE Or as defined in the LIST Template	Type of limiting device such as 'transformer', 'line' or 'flowgate'
FACILITY_LIMIT_TY PE	FACLIMITY P	0{ALPHANUMERIC} 25	thermal, stability, voltage or defined in LIST Template	For example: thermal, stability, voltage
FACILITY_LOCATIO N	FACLOC	0{ALPHANUMERIC} 8	Free form text, for example: INTERNAL EXTERNAL Or as defined in the LIST Template	Location of facility that caused the interruption, either internal to the TP or external to the TP grid
FACILITY_NAME	FACNAME	0{ALPHANUMERIC} 25	Free form text	Name of facility, such as name of path or name of flowgate
FORMER_COMPAN Y	FORMCO	1{ALPHANUMERIC} 25	Free form text	Former company of the person who is transferring
FORMER_DEPARTM ENT	FORMDEPT	1{ALPHANUMERIC} 52	Free form text	Former department of the person who is transferring

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FORMER_POSITION	FORMPOS	1{ALPHANUMERIC} 25	Free form text	Former position held by the person who is transferring
GCA_CODE	GCA	1{ALPHANUMERIC} 4	Registered control area company code	Generator Control Area Code. Information from Tag
IMPACTED	IMPACTED	0{NUMERIC}4	Number	Indicates whether the reservation has been impacted by another reservation. For an original reservation this counter is 0. This counter is incremented by 1 by TSIP on the parent request when its ASSIGNMENT_REF is entered in any other reservation's REASSIGNED_REF or RELATED_REF or in entered in any reduction.
IMPACTING_REF	IMPACTREF	0{ALPHANUMERIC} 12	Unique reference	IMPACTING_REF references the ASSIGNMENT_REF of the associated transmission reservation (if applicable that )caused the reduction in capacity
INITIATING_PARTY	INITPARTY	0{ALPHANUMERIC} 4	Free form text	Person's name or Company code for company responsible for initiating the change in capacity
INTERFACE_TYPE	INTERFAC E	0{ALPHANUMERIC} 1	I,E	Type of interface define by path: Internal (I) to a control area or External (E) to a control area
LCA_CODE	LCACODE	0{ALPHANUMERIC} 4	Valid registered control area code	Load Control Area registered code. Information comes from tag
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 AS_TYPE, list of REQUEST_TYPE, list of

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				ANC_SERVICE_POINT, list of FACILITY_CLASS, list of FACILITY_LIMIT_TYPE, list of PROCEDURE_NAME, list of SYSTEM_ATTRIBUTE, list of SECURITY_TYPE, list of FACILITY_LOCATION, list of NERC_CURTAILMENT_PRIORITY, list of OTHER_CURTAILMENT_PRIORITY, list of CATEGORY, list of TEMPLATE, list of LIST
LIST_ITEM_DESCRIPTION	ITEMDESC	0{ALPHANUMERIC} 100	Free form text	A detailed description of the LIST_ITEM
LIST_NAME	LIST	1{ALPHANUMERIC} 50	LIST, SELLER, PATH, POR, POD, SERVICE_INCREMENT, TS_CLASS, TS_TYPE, TS_PERIOD, TS_SUBCLASS, AS_TYPE, NERC_CURTAILMENT_PRIORITY, REQUEST_TYPE, ANC_SERVICE_POINT, FACILITY_CLASS, FACILITY_LIMIT_TYPE, PROCEDURE_NAME, SYSTEM_ATTRIBUTE, SECURITY_TYPE, FACILITY_LOCATION, OTHER_CURTAILMENT_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
MODIFYING_COMPANY_CODE	MODCODE	1{ALPHANUMERIC} 6	Registered company code for a TP, SC or CA	Contains the registered company code that modified the transaction, used in the audit Templates
MODIFYING_NAME	MODNAME	0{ALPHANUMERIC} 25	free form text	Contain the name of the person that modified the transaction, used in the audit Templates
MODIFICATION_REF	MODREF	1{ALPHANUMERIC} 12	Valid ASSIGNMENT_REF	Forward pointer. Pointing to next reservation that replaces the current reservation

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NEGOTIATED_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_CURTAILMENT_PRIORITY	NERCURT	1{INTEGER}1	Integer	One of the NERC curtailment priorities, documented in LIST Template
NEW_COMPANY	NEWCO	1{ALPHANUMERIC} 25	Free form text	New company of the person who is transferring
NEW_DEPARTMENT	NEWDEPT	1{ALPHANUMERIC} 52	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}4	Positive number with 2 to 4 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: yyyy+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: yyyy+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_CURTAILMENT_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 DATA = text for use in a downloaded file.
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}	Unique value	The unique name assigned to a single



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		50		<p>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 a "/".</p> <p>Trailing "/" may be omitted, if there are no values for OPTION_CODE and SPARE_CODE:</p> <p>REGION_CODE - 2 chars, unique to OASIS System</p> <p>PRIMARY_PROVIDER_CODE - 4 chars, unique within Region</p> <p>PATH_CODE - 12 chars, unique for Primary Provider</p> <p>OPTIONAL_CODE - 25 chars, unique for Path. If used for directionality, then the first 12 characters shall represent POR, followed by &gt;-&gt;, followed by 12 characters which shall represent POD</p> <p>SPARE_CODE - 3 chars.</p>
POINT_OF_DELIVERY	POD	1{ALPHANUMERIC} 12, Only non-numeric and non-alpha character allowed is ".".	Unique value within Primary Provider. Only special character allowed is ".", for example, ab.cde.123	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_RECEIPT	POR	1{ALPHANUMERIC} 12 Only non-numeric and non-alpha character allowed is ".".	Unique value within Primary Provider. Only special character allowed is ".", for example, ab.cde.123	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 reference can be used by the user to modify or delete the posting.
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,

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				OFFER_PRICE, and BID_PRICE. Examples: \$/MWhr, \$/MWmonth
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_COMMENTS	PPROVCOM	0{ALPHANUMERIC}255	Free-form text	Informative text. Usually entered by the Primary Provider through a back end system. For information communicated between primary transmission provider and all other parties.
PRIMARY_PROVIDER_DUNS	PPROVDUNS	9{NUMERIC}9	Valid DUNS number	Unique code for each Primary. Provided by Dun and Bradstreet.
PROCEDURE_NAME	PROCNAME	0{ALPHANUMERIC}25	Free form text, for example NERC TLR Or as indicated in the LIST Template	Name of TLR or interruption procedure
PROCEDURE_LEVEL	PROCLVL	1{ALPHANUMERIC}25	Valid NERC or local procedure level	NERC or local procedure level Example: 2a, 3
PROVIDER_ACTION	PROVACT	1{ALPHANUMERIC}25	Free form text, for example: DENIED CURTAILED  INTERRUPTED	PROVIDER_ACTION indicates the particular action taken by the Transmission Provider with respect to the scheduled transaction; specific values to be returned are, DENIED if the schedule was not started as requested, CURTAILED if the scheduled MW was limited for reliability reasons, or INTERRUPTED if the scheduled MW was limited for economic reasons.
REASSIGNED_CAPACITY	RASCAP	1{NUMERIC}12	Positive number, cannot exceed previous capacity	The amount of transfer capability that was reassigned from one entity to another.
REASSIGNED_REF	REREF	1{ALPHANUMERIC}12	Unique value	REASSIGNED_REF contains the ASSIGNMENT_REF of any preceding (parent) requests that are affected by this request. Used only for secondary market sales.
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	RECSTATU	1{NUMERIC}3	Error number	Record status indicating record was successful or error code if unsuccessful. 200 = Successful
RECORD_TYPE	RECTYPE	1{ALPHA}1	Valid Types: I U D	Indicates the type of information reported in a response record generated by an audit Template. "I" designates information as it was initially inserted (posted) on OASIS; "U" designates information updated (modified) on OASIS; "D" designates deleted information as it appeared on OASIS just prior to being deleted (as appropriate).
REDUCTION_REASON	REDREAS	1{ALPHANUMERIC}50	Free form text	Reason for the reduction
REDUCTION_TYPE	REDTYPE	1{ALPHANUMERIC}	Free form text	Type of reduction such as REDIRECT,

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REGION_CODE	N/A	25 1{ALPHANUMERIC} 2	Unique within OASIS System	INTERRUPTION, RESALE, DISPLACEMENT 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.
RELATED_REF	RELREF	1{ALPHANUMERIC} 12	Unique reference	Contains the ASSIGNMENT_REF of any preceding (parent) requests that are affected by this request
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
REQUEST_TYPE	REQTYPE	1{ALPHA}30	Valid Types: ORIGINAL RESALE RENEWAL MATCHING DEFERRAL REDIRECT {Registered}	ORIGINAL – typical reservation requests submitted to the Primary Provider RESALE – secondary market requests submitted to a Transmission Customer as Secondary Transmission Provider RENEWAL – request to renew an expiring transmission reservation MATCHING – request to meet or exceed a competing request to retain transmission service (right of first refusal) DEFERRAL – request to defer or apply for extension on start of transmission service REDIRECT – request to redirect all or portion of a transmission reservation to an alternate POR/POD and/or

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				make other changes to the terms of service as permitted {registered} – Primary Transmission Provider's may register values for REQUEST_TYPE to implement specific provisions of their Tariffs.
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	PARTY	1{ALPHANUMERIC}25	Free form text	The company code or the name of the person who initiated the reduction, e.g. the security coordinator code
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
SCHEDULE_GRANTED	SCHEDGRNT ED	0{NUMERIC}12	Non-negative number in units of MW	SCHEDULE_GRANTED reflects the MW value of energy actually scheduled by the Transmission Provider at either the point of receipt or delivery, whichever is larger, over the START_TIME/STOP_TIME time interval
SCHEDULE_LIMIT	SCHEDULELIM	0{NUMERIC}12	Non-negative number in units of MW	SCHEDULE_LIMIT reflects the <b>maximum</b> MW value over the START_TIME/STOP_TIME interval that the Provider has determined can be scheduled
SCHEDULE_PRIORITY	SPRIORITY	0{NUMERIC}2	Positive Number	SCHEDULE_PRIORITY identifies the relative priority of this particular interchange transaction as compared to all other scheduled transactions with respect to the application of curtailments or interruptions. SCHEDULE_PRIORITY would typically reflect the curtailment priority Data Elements associated with the OASIS transmission reservation used to support the schedule (i.e., NERC_CURTAILMENT_PRIORITY or OTHER_CURTAILMENT_PRIORITY).
SCHEDULE_REF	SCHDREF	0{ALPHANUMERIC}20	Unique reference	Unique reference assigned by Transmission Provider to a posting of a schedule information
SCHEDULE_REQUESTED	SCHEDULERE Q	0{NUMERIC}12	Non-negative number in units of MW	Scheduled energy requested by the Transmission Customer (TC)
SECURITY_REF	SECREf	1{ALPHANUMERIC}10	Unique value	Unique value generated by company initiating the security for each security event in the SECURITY Template.
SECURITY_TYPE	SECTYPE	1{ALPHANUMERIC}	Free form text for example: OUTAGE LIMIT	SECURITY_TYPE identifies the type of information posted for the event; restricted values are OUTAGE for postings reflecting the state of critical transmission facilities, and LIMIT for postings reflecting the implementation of security procedures to limit or reduce scheduled transactions.
SELLER_CODE	SELLER	1{ALPHANUMERIC}6	Unique value	Organization name of Primary Provider or Reseller.
SELLER_COMMENTS	SELCOM	0{ALPHANUMERIC} 255	Free-form text	Informative text provided by the Seller. For information communicated between the seller (either Primary Provider or reseller) to the customer of the services.

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SELLER_DUNS	SELDUNS	9{NUMERIC}9	Valid DUNS number	Unique Data 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 xxxnn	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 xxxnn	The telephone number of a contact person as a Seller
SELLER_REF	SELREF	0{ALPHANUMERIC}12	Free-form text	Identifier which is set by seller (including Primary Provider) to uniquely identify reservation requests for seller's own internal use
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.
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	STDISUE	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 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 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.

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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)	<p>QUEUED = initial status assigned by TSIP on receipt of "customer services purchase request". assigned by TSIP or Provider indicating an invalid field in the request, such as improper POR, POD, source, sink, etc. (Final state).</p> <p>INVALID = assigned by Provider or Seller to acknowledge QUEUED requests and indicate the service request is being evaluated, including for completing the required ancillary services.</p> <p>RECEIVED= assigned by Provider or Seller to indicate some level of study is required or being performed to evaluate service request.</p> <p>STUDY= assigned by Provider or Seller to indicate service request has been denied due to lack of availability of transmission capability. SELLER_COMMENTS should be used to communicate details for denial of service. (Final state).</p> <p>REFUSED =</p>

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STATUS (cont.)				<p>COUNTEROFFER=</p> <p>REBID =</p> <p>SUPERSEDED =</p> <p>ACCEPTED =</p>	<p>assigned by Provider or Seller to indicate that a new OFFER_PRICE is being proposed or that CAPACITY_GRANTED is less than CAPACITY_REQUESTED</p> <p>assigned by Customer to indicate that a new BID_PRICE is being proposed.</p> <p>assigned by Provider or Seller when a request which has not yet been confirmed is preempted by another reservation request. (Final state).</p> <p>assigned by Provider or Seller to indicate the service request at the designated OFFER_PRICE and CAPACITY_GRANTED have been approved/accepted. If the reservation request was submitted PRECONFIRMED and CAPACITY_GRANTED is equal to CAPACITY_REQUESTED, 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.</p>
STATUS (cont.)				<p>DECLINED =</p> <p>RETRACTED</p>	<p>assigned by the Provider or Seller to indicate that the terms and conditions, such as the BID_PRICE, are unacceptable and that negotiations are terminated or that contractual terms have not been met. (Final state).</p> <p>assigned by Provider or Seller when the Customer fails to confirm or withdraw an accepted updated offer within the required time period. (Final state).</p> <p>assigned by the Customer at any point in request evaluation to withdraw the request</p>

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				<p>WITHDRAWN =</p> <p>CONFIRMED =</p> <p>DISPLACED =</p>	<p>from any further action. (Final state). 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 higher priority request, and the Customer is not offered or has not exercised right of first refusal (i.e. refused to</p>
STATUS_COMMENTS	STACOM	0{ALPHANUMERIC} 255	Free form text	Informative: For information to be communicated by any party to all other parties.	
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	
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{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 before this time.	
STOP_TIME_QUEUED	SPTIMEQ	16{ALPHANUMERIC}16	Valid Date and Time to seconds: yyyy+mo+dd+hh	Stop date and clock time, used for requesting transactions queued before this time	



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			+mm+ss+tz	
SUBJECT	SUBJ	0{ALPHANUMERIC}80	Free form text	Informative text used to summarize a topic in a message
SYSTEM_ATTRIBUTE	SYSATTR	0{ALPHANUMERIC}15	Valid values: CBM TRM TTC NATC RATC or listed in the LIST Template	Type of system data viewed by SYSTEMDATA Template: CBM – Capacity Benefit Margin TRM – Transmission Reliability Margin TTC – Total Transmission Capability NATC – Non-recallable (Firm) Available Transmission Capability RATC – Recallable (Non-firm) Available Transmission Capability {registered} – Provider specific registered name for the data posted
TARIFF_REFERENCE	TARIFF	0{ALPHANUMERIC}150	Free form text. Name and description of Tariff	Tariffs approved by FERC
TEMPLATE	TEMPL	1{ALPHANUMERIC}20	Valid Name of Template from Section 4.3 or from LIST Template	The name of a logical collection of DATA_ELEMENTS in a User's interaction with an OASIS Node.
TIME_OF_LAST_UPDATE	TLUPDATE	16{ALPHANUMERIC}16	Valid date and time to seconds: yyyy+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{ALPHANUMERIC}16	Valid Date and Time to seconds: yyyy+mo+dd+hh+mm+ss+tz	Date and time a message is posted
TIME_QUEUED	TIMEQ	16{ALPHANUMERIC}16	Valid Date and Time to seconds: yyyy+mo+dd+hh+mm+ss+tz	Date and time that the request was queued
TIME_STAMP	TSTAMP	16{ALPHANUMERIC}16	Valid date and Time to seconds yyyy+mo+dd+hh+mm+ss+tz	Time data is created
TRANSACTION_ID	TRANSID	1{ALPHANUMERIC}20	Unique value	Unique identifier associated with an interchange transaction that may span multiple SCHEDULE_REF records. May be the Tag id.
TS_CLASS	TSCLASS	1{ALPHANUMERIC}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 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{ALPHANUMERIC}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}20	Free Form	The transmission service subclasses provided. These are freeform.
TS_TYPE	TSTYPE	1{ALPHANUMERIC}20	Valid types • POINT_TO_POINT • NETWORK • ATC • {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

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TS_WINDOW	TSWIND	1{ALPHANUMERIC}20	Valid windows • FIXED • SLIDING • EXTENDED • NEXT_INCREMENT • {Registered }	The transmission service windows provided. Four 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{ALPHANUMERIC}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{ALPHANUMERIC}16	Valid date and time yyyy+mo+dd+hh +mm+ss+tz	Date and time after which the message is valid
VALID_TO_TIME	VALTTIME	16{ALPHANUMERIC}16	Valid date and time yyyy+mo+dd+hh +mm+ss+tz	Date and time before which the message is valid
VALUE	VALUE	1{NUMERIC}20	A number	FACILITY_ATTRIBUTE value
VALUE_UNITS	VALUEUTS	1{ALPHANUMERIC}20	Free form string	Unites used for VALUE
VERSION	VER	1{REAL NUMBER}6	Range of 1.0 to 9999.9	Specifies which version of the OASIS Standards and Communication Protocol to use when interpreting the request