**Texas**

**Standard**

**Electronic**

**Transaction**

**810\_02:**

##### TDSP Invoice

Electronic Data Interchange

ANSI ASC X12 Ver/Rel 004010

Transaction Set 810

**Texas 810\_02:**

Transmission Distribution Service Provider (TDSP) Invoice

This transaction set… From the TDSP to the CR

… is an invoice for monthly Delivery Charges, Discretionary Service charges, Service Order charges, Interest Credit, and/or Late Payment charges for the current billing period. Following a positive acknowledgement indicating the transaction passed ANSI X12 validation, the Competitive Retailer shall have five (5) Business Days to send a rejection response in accordance with the TX SET Implementation Guides and Commission Rules. If the Competitive Retail has not received a response transaction to an enrollment or move-in, the Competitive Retailer shall not reject the invoice, but will utilize an approved market process (MarkeTrak or Dispute Process) to resolve the issue.

Only one 810\_02 may be sent for a single service period, however, any additional 810\_02 for the same ESI ID may be sent for a Late Payment Charge after the 35th calendar day for an unpaid 810\_02 or for Interest Credit.

This transaction set will be paired with an 867\_03 (Monthly Usage) to trigger the Customer billing process.

The TDSP may cancel and replace (rebill) the original 810\_02. The values in the cancel transaction will be identical in amounts to what they were on the original invoice (BIG08=01). The replacement (rebilled) invoice now becomes the monthly invoice for that service period.

If the 867\_03 is cancelled after the TDSP has sent the 810\_02, the TDSP will cancel the 810\_02. If the 810\_02 error is not related to consumption the TDSP may cancel the 810\_02 and not the 867\_03.

Document Flow:

* TDSP to CR

The Functional Acknowledgement (997) transaction set from the receiver of the originating transaction to the sender of the originating transaction, is used to acknowledge the receipt of the originating transaction and indicate whether the transaction passed ANSI X12 validation. This acknowledgement does not imply that the originating transaction passed Texas SET validation. “CR, TDSP, or ERCOT shall respond with a 997 within 24 hours of receipt of an inbound transaction.”

|  |  |  |
| --- | --- | --- |
|  |  | Summary of Changes |
| July 3, 2000  Version 1.0 |  | Initial Release |
|  |  |  |
| December 11, 2000  Version 1.2 |  | The following changes were made: |
|  |  | * Change the term Utility to Transmission Distribution Service Provider (TDSP) to match ERCOT Protocols. |
|  |  | * Change the term Retail Electric Provider (REP) to Competitive Retailer (CR) to match ERCOT Protocols. |
|  |  | * Change description page transaction purpose to read the same as ERCOT Protocols. |
|  |  | * Insert the “How to use this Implementation Guide” page. |
|  |  | * Add examples to end of transaction. |
|  |  | * Add BGN08 Element to indicate the TX SET Transaction Number per Change Control #2000-015. |
|  |  | * Added IT1 loop with qualifier B2B for Business to business charges. |
|  |  |  |
| March 27, 2001  Version 1.3 |  | The following changes were made. |
|  |  | * Change the Examples SAC05 negative amount |
|  |  | * Change the How to Use this Implementation Guide |
|  |  | * Change the ANSI ASC X12 Structures page |
|  |  | * Remove the code "O" from TXI07 per patch list |
|  |  | * Add Gray box in REF for ESI ID |
|  |  | * Clean Up examples |
|  |  | * Correct the Summary of Change page |
|  |  | * Added gray boxes for late payment charges on standalone invoice IT109=B2B |
|  |  | * Added SAC04 codes per change control #71 |
|  |  | * Added transaction Notes page |
|  |  | * Added SAC04 codes for Franchise Fee Adjustment per change control #68 |
|  |  |  |
| August 3, 2001  Version1.4 |  | The following changes were made: |
|  |  | Modified Examples for compliance. Ref. 2001-081 |
|  |  | Modified gray box in SAC10. Ref. 2001-095 |
|  |  | Modified gray boxes in REF03 and N103 elements. Ref. 2001-099 |
|  |  | Added two new codes to BIG07. Ref. 2001-113 |
|  |  | Add codes to SAC04. Ref. 2001-137 |
|  |  | Added REDLINES from Change Controls:  2001-192 10/5/01  2001-203 10/24/01 |
|  |  |  |
| June 17th, 20002  Version 1.5 |  | The following changes were made: |
|  |  | * Change Control 2002-301 – Added DSC005 code to SAC04 |
| 8/5/02 |  | * Change Control 2002-347 – Corrected Typo in REF~IK (Invoice Number) |
| 8/5/02 |  | Change Control 2002-353 – – Corrected Implementation guide “Summary of Changes” by cleaning up previously missed or inaccurate additions to Summary of Changes. |
|  |  | * Change Control 2002-314 – To provide clarification on which meter read (867\_03) should be used as a cross-reference number on a cancelled invoice. The following text was added to the BIG05: “*For a cancelled invoice the cross-reference will be made to the original meter read BPT02, not the cancelled meter read BPT02 transaction*.” |
|  |  | * Change Control 2002-353 – Updated Change Control Log to add approved Version 1.5 Change Control 2002-314. This was previously missed at time of update of implementation guide and is needed to reflect the approved change control. |
| 10/15/02 |  | * Change Control 2002-402 – Updated Invalid Charge Codes in Example # 5 of 5. |
|  |  | * Change Control 2002-416 – Added clarification to the SLN gray box |
| May 30th, 2003  Version 1.6 |  | * The following changes were made: |
|  |  | * Change Control 2003-512 Add new code SER138=Non-TDSP Owned Meter Installation and CRE020 for Meter Owner Credit. |
| September 29th, 2003  Version 2.0 |  | * No Changes |
| October 8, 2004  Version 2.0A |  | Change Control 2004-625:   * TX SET made a decision to remove Business Process Overviews from the Implementation Guides and incorporate that logic into the Implementation Guide itself.   Change Control 2004-634:   * As per discussions at the June 04 TX SET meeting, additional language should be added to each Transaction Set to identify the requirements and required response to the 997 Functional acknowledgement - The Functional Acknowledgement (997) transaction set from the receiver of the originating transaction to the sender of the originating transaction, is used to acknowledge the receipt of the originating transaction and indicate whether the transaction passed ANSI X12 validation. This acknowledgement does not imply that the originating transaction passed Texas SET validation. “CR, TDSP, or ERCOT shall respond with a 997 within 24 hours of receipt of an inbound transaction.”   Change Control 2004-641:   * CC2004-610 was written to add clarification to the 810\_02 BPO. CC2004-625 was written to remove the BPO from the 810\_02 and add appropriate language to the gray boxes within the implementation guide. The text requested in CC2004-610 was not included in the updates to the gray boxes from CC2004-625. This change control is to include the text requested from nullified 2004-610 in the appropriate gray box. |
| March 1, 2005  Version 2.1 |  | Change Control 2003-503:   * Allow the TDSP to send a corrected invoice when the correction does not involve meter readings, dates, or consumption   Change Control 2004-635:   * CNP request the addition of (6) new SAC 04 codes to be added to the 810 Invoice transaction because of pending True-up filings currently before the Commission. This will allow these new tariffs and/or charge off allowances to be appropriately identified   Change Control 2004-644:   * Update SAC09 code list for the Billing Determinants   Change Control 2005-683:   * Add clarity to the transaction notes section regarding the Texas Market use of characters in alphanumeric fields   Change Control 2005-689:   * Add additional codes to the SAC04 of the 810\_02 to accommodate Quality Service Credits, Franchise Surcharge Debits/Credits and a second Competition Transition Charge 2. |
| September 1, 2006  Version 3.0 |  | Change Control 2006-691:   * To support the changes in the revised Pro-Forma Retail Delivery Tariff, PUCT Project 29637.   Add replacement code to identify corrected meter data  Change Control 2006-701:   * Add two additional SAC04 codes: MSC039: Advanced Metering Cost Recovery Factor and MSC040: Underground facilities surcharge |
| November 30, 2010  Version 3.0A |  | Change Control 2008-716:   * Add clarification to the BIG05 to show it is used to match invoice to usage when applicable.   Change Control 2009-729:   * Remove examples from Implementation Guides and create separate documents to allow for quicker correction and addition of new examples without a TX SET release   Change Control 2010-731:   * Update the TX SET Guides to correct spelling, grammar, and punctuation.   Change Control 2010-732:   * Remove SAC04 Codes from Implementation Guides and place them in a document that can be updated without a Guide Release |
| June 11, 2012  Version 4.0 |  | Change Control 2010-748   * The purpose of this Change Control is to sync the names of the Texas SET Guide transactions, with the names of the transactions in Protocol and the Retail Market Guide. |
|  |  | Change Control 2010-755   * In order for the TDSP to send discretionary charges due to tampering a new type code should be added to the 810\_02.   Change Control 2010-796:   * Clarification that several segments will not be provided for the A5 Meter Tampering Charge invoice. |
| November 2, 2020  Version 4.0A |  | Change Control 2020-820   * Recipients of the Select Language Characters (Special Characters) found in the Extended Character Set of the Application Control Structure can be rejected with a 997 Reject. |
| October 11, 2022  Version 4.0A |  | Change Control 2022-839   * new SAC04 Code be added to the 810\_02 TDSP Invoice TX SET transaction will assist Competitive Retailers (CRs) in uniquely identifying this change and also allows CNP with the ability to track and provide specific reporting when necessary |
| November 11, 2024  Version 5.0 |  | Change Control 2021-835   * Provides clarifications to the current BIG07 code “26” to change the gray box to match the name identified into the TX SET Guide as a “Miscellaneous Services Invoice” instead of creating a new BIG07 code dedicated to miscellaneous credits. |

**How to Use this Implementation Guide**

**Segment: REF Reference Identification (ESI ID)**

This section is used to show the **X12 Rules** for this segment. You must look further into the grayboxes below for Texas Rules.

**Position:** 030

**Loop:** LIN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

This section is used to show the Texas Rules for implementation of this segment.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS |

One or more examples.

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Must Use | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | Q5 |  | Property Control Number | | | | |
|  | | | | | | Electric Service Identifier (ESI ID) | | | |
| Must Use | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | ESI ID | | | | | | | |

This column shows the X12 attributes for each data element.

M = Mandatory

O= Optional

X = Relational

C = Conditional

AN = Alphanumeric

N# = Implied Decimal at position #

ID = Identification

R = Real

1/30 = Minimum 1, Maximum 30

This column shows the Texas use of each data element.

These are X12 code descriptions, which often do not relate to the Texas descriptions.

X12 cannot keep up with Texas needs, thus, Texas often changes the meaning of existing codes. See the corresponding graybox for the Texas definitions.

**ANSI ASC X12 Structure**

**Functional Group ID=IN**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

**Heading:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| M | 020 | BIG | Beginning Segment for Invoice | M | 1 |  |  |  |  |  |  |  |  |
|  | 050 | REF | Reference Identification | O | 12 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | 200 |  |  |  |  |  |  |  |
|  | 070 | N1 | Name | O | 1 |  |  |  |  |  |  |  |  |
|  | 130 | ITD | Terms of Sale/Deferred Terms of Sale | O | >1 |  |  |  |  |  |  |  |  |

**Detail:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - IT1 |  |  | 200000 |  |  |  |  |  |  |  |
|  | 010 | IT1 | Baseline Item Data | O | 1 |  |  |  |  |  |  |  |  |
|  | 120 | REF | Reference Identification | O | >1 |  |  |  |  |  |  |  |  |
|  | 150 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - SLN |  |  | 1000 |  |  |  |  |  |  |  |
|  | 200 | SLN | Subline Item Detail | O | 1 |  |  |  |  |  |  |  |  |
|  | 205 | DTM | Date/Time Reference | O | 1 |  |  |  |  |  |  |  |  |
|  | 210 | REF | Reference Identification | O | >1 |  |  |  |  |  |  |  |  |
|  | 230 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 |  |  |  |  |  |  |  |  |
|  | 237 | TXI | Tax Information | O | 10 |  |  |  |  |  |  |  |  |

**Summary:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | TDS | Total Monetary Value Summary | M | 1 |  |  |  |  |  |  |  |  |
|  | 070 | CTT | Transaction Totals | O | 1 |  | n1 |  |  |  |  |  |  |
| M | 080 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

For use on an alphanumeric field, Texas SET recognizes all characters within the Basic Character Set. Within the Extended Character Set, Texas SET recognizes all character sets except all Select Language Characters found in Section 3.3.2 item (4) of X12 Application Control Structure. Exceptions to ANSI Standards for alphanumeric fields are noted in gray boxes of this Implementation Guide.

Receipt of the Select Language Characters found in Section 3.3.2 item (4) of the Application Control Structure may be rejected with a 997 Reject transaction by recipient.

For reference, the Select Language Characters found in Section 3.3.2 item (4) of the ANSI Standards are:

À|Á|Â|Ä|à|á|â|ä|È|É|Ê|è|é|ê|ë|Ì|Í|Î|ì|í|î|ï|Ò|Ó|Ô|Ö|ò|ó|ô|ö|Ù|Ú|Û|Ü|ù|ú|û|ü|Ç|ç|Ñ|ñ|¿|¡

**Segment: ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:**

**Semantic Notes:** **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | ST~810~000000001 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **ST01** | **143** | **Transaction Set Identifier Code** | | | | **M** |  | **ID 3/3** | |
|  | | | Code uniquely identifying a Transaction Set | | | | | | |
|  | | | | 810 |  | Invoice | | | |
| **Must Use** | **ST02** | **329** | **Transaction Set Control Number** | | | | **M** |  | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | | | |

**Segment: BIG Beginning Segment for Invoice**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:** **1** BIG01 is the invoice issue date.

**2** BIG03 is the date assigned by the purchaser to purchase order.

**3** BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

**Comments:** **1** BIG07 is used only to further define the type of invoice when needed.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required  There may be multiple 810s in any given month for an ESI ID. The first 810 is the normal, Monthly Invoice, including all TDSP charges, service order charges and relevant Business-to-Business charges for that period. A second 810 for the same ESI ID may be sent for a Late Payment Charge, Service Order Charge, Meter Tampering Discretionary Invoice or Interest Credit. Additionally, there can be cancel and re-billed (replaced) invoices in any given month for any current or previous month billing period according to the TDSP Tariffs. |
|  |  | BIG~20010201~123567890120010201~~~2048392934504~~PR~00 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **BIG01** | **373** | **Date** | | | | **M** |  | **DT 8/8** | | |
|  | | | Date expressed as CCYYMMDD | | | | | | | |
|  | | | The transaction creation date - the date that the data was processed by the sender's application system. | | | | | | | |
| **Must Use** | **BIG02** | **76** | **Invoice Number** | | | | **M** |  | **AN 1/22** | | |
|  | | | Identifying number assigned by issuer | | | | | | | |
|  | | | A unique transaction identification number assigned by the originator of this transaction. This number must be unique over time. This number will be returned in the RMR02 of the 820 and/or the OTI03 of the 824.  Transaction Reference Numbers will only contain uppercase letters (A to Z) and digits (0 to 9). Note that punctuation (spaces, dashes, etc.) must be excluded. | | | | | | | |
| **Dep** | **BIG05** | **328** | **Release Number** | | | | **O** |  | **AN 1/30** | | |
|  | | | Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction | | | | | | | |
|  | | | Monthly Invoice: The cross-reference number originally transmitted in the 867 in the BPT02 must be sent in the BIG05 of the 810 and in the RMR loop REF~6O of the 820.  Late Payment Charge Invoice: Not Used  Meter Tampering Discretionary Invoice: Not Used  Outstanding discretionary charge after final bill: Not Used  In the cancelled invoice the cross-reference will be made to the BPT02 of the 867\_03 being cancelled.  On the replacement invoice the cross-reference will be made to the BPT02 of the 867\_03 replacement. | | | | | | | |
| **Must Use** | **BIG07** | **640** | **Transaction Type Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code specifying the type of transaction | | | | | | | |
|  | | | Invoice: May use "FB" or "PR" as appropriate  Late Payment Charge Invoice: Must Use "BD"  Outstanding discretionary charge after final bill: Must Use "26" | | | | | | | |
|  | | | | 26 |  | Miscellaneous Services Invoice | | | | |
|  | | | | | | Miscellaneous Charge or Credit Invoice  Used only to accommodate Discretionary Charges, Interest Credit or Refund Credit  There will not be a corresponding 867\_03 for this invoice type. | | | |
|  | | | | A5 |  | Notice of Charge | | | | |
|  | | | | | | Meter Tampering Discretionary Invoice  Used only to accommodate discretionary charges related to meter tampering when usage will not be adjusted, and not to be used with "Monthly Invoices".  There will not be a corresponding 867\_03 for this invoice type. | | | |
|  | | | | BD |  | Statement of Balance Due | | | | |
|  | | | | | | To accommodate the Late Payment Charge Invoice | | | |
|  | | | | FB |  | Final Bill | | | | |
|  | | | | | | Final bill sent for this customer from the non-billing party. | | | |
|  | | | | PR |  | Product (or Service) | | | | |
|  | | | | | | Used for Monthly Invoice | | | |
| **Must Use** | **BIG08** | **353** | **Transaction Set Purpose Code** | | | | **O** |  | **ID 2/2** | | |
|  | | | Code identifying purpose of transaction set | | | | | | | |
|  | | | | 00 |  | Original | | | | |
|  | | | | | | The original 810\_02 invoice has a 35 day due date.  If the original is canceled and corrected, the re-billed invoice will have a new due date that is 35 calendar days from the TDSPs transmittal date of a validated invoice.  If the due date falls on a weekend or holiday, the due date shall be the next business day. | | | |
|  | | | | 01 |  | Cancellation | | | | |
|  | | | | | | Cancels an entire invoice/transaction  The cancel 810\_02 invoice must have the same due date as the original 810\_02 invoice being canceled. | | | |
|  | | | | 05 |  | Replace | | | | |
|  | | | | | | Used when the TDSP cancels and sends a replacement invoice for corrected data.  When corrections are made to previously sent data, the original SET shall be first cancelled. A replacement SET of data (labeled as replacement data) is then transmitted within one Business Day of the cancelled data.  When corrections are made to previously sent data, the complete set of data pertaining to a meter and billing cycle will be provided in the replacement transaction | | | |

**Segment: REF Reference Identification (Original Transaction Reference Number)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required on a Cancel (BIG08=01) transaction.  Required on a Replace (BIG08=05) transaction. |
|  |  | REF~OI~123456789019990102 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | |
|  | | | Code qualifying the Reference Identification | | | | | | |
|  | | | | OI |  | Original Invoice Number | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | |
|  | | | Original Invoice Number  On a Cancel Invoice the REF~OI must equal the REF~OI of the invoice being cancelled  On a Replaced Invoice the REF~OI must equal the REF~OI of the invoice being replaced | | | | | | |

**Segment: REF Reference Identification (ESI ID)**

**Position:** 050

**Loop:**

**Level:** Heading

**Usage:** Optional (Must Use)

**Max Use:** 12

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | REF~Q5~~10111111234567890ABCDEFGHIJKLMNOPQRS |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | Q5 |  | Property Control Number | | | | |
|  | | | | | | Electric Service Identifier (ESI ID) | | | |
| **Must Use** | **REF03** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | ESI ID | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators. (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |

**Segment: N1 Name (Transmission Distribution Service Provider)**

**Position:** 070

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** **1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**Comments:** **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

**2** N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | N1~8S~TDSP COMPANY~1~007909411~~41 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 8S |  | Consumer Service Provider (CSP) | | | | |
|  | | | | | | Transmission Distribution Service Provider (TDSP) | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | TDSP Name | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators. (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | | |
|  | | | | 1 |  | D-U-N-S Number, Dun & Bradstreet | | | | |
|  | | | | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | | |
| **Must Use** | **N104** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | TDSP D-U-N-S Number or D-U-N-S + 4 Number | | | | | | | |
| **Must Use** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 41 |  | Submitter | | | | |

**Segment: N1 Name (Competitive Retailer)**

**Position:** 070

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** **1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**Comments:** **1** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

**2** N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | N1~SJ~CR COMPANY~9~007909422CRN1~~40 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | SJ |  | Service Provider | | | | |
|  | | | | | | Competitive Retailer (CR) | | | |
| **Must Use** | **N102** | **93** | **Name** | | | | **X** |  | **AN 1/60** | | |
|  | | | Free-form name | | | | | | | |
|  | | | CR Name | | | | | | | |
|  | | | This free-form text can not contain any characters that may be used as element delimiters, sub-element delimiters, segment terminators, or field separators. (This includes: asterisk \*, pipes |, tabs, linefeeds, carets ^, angle brackets < >, and tildes ~). | | | | | | | |
| **Must Use** | **N103** | **66** | **Identification Code Qualifier** | | | | **X** |  | **ID 1/2** | | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | | | | | |
|  | | | | 1 |  | D-U-N-S Number, Dun & Bradstreet | | | | |
|  | | | | 9 |  | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | | | |
| **Must Use** | **N104** | **67** | **Identification Code** | | | | **X** |  | **AN 2/80** | | |
|  | | | Code identifying a party or other code | | | | | | | |
|  | | | CR D-U-N-S Number or D-U-N-S + 4 Number | | | | | | | |
| **Must Use** | **N106** | **98** | **Entity Identifier Code** | | | | **O** |  | **ID 2/3** | | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | | | | | |
|  | | | | 40 |  | Receiver | | | | |

**Segment: ITD Terms of Sale/Deferred Terms of Sale**

**Position:** 130

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify terms of sale

**Syntax Notes:** **1** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.

**2** If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.

**3** If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantic Notes:** **1** ITD15 is the percentage applied to a base amount used to determine a late payment charge.

**Comments:** **1** If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required  The original 810\_02 invoice has a 35 day due date.  The cancel 810\_02 invoice must have the same due date as the original 810\_02 invoice being canceled  If the original is canceled and corrected, the re-billed invoice will have a new due date that is 35 calendar days from the TDSPs transmittal date of a validated invoice.  If the due date falls on a weekend or holiday, the due date shall be the next business day. |
|  |  | ITD~~~~~~20010215 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **ITD06** | **446** | **Terms Net Due Date** | **O** |  | **DT 8/8** | |
|  | | | Date when total invoice amount becomes due expressed in format CCYYMMDD | | | |
|  | | | Payment due date | | | |

**Segment: IT1 Baseline Item Data**

**Position:** 010

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

**Syntax Notes:** **1** If any of IT102 IT103 or IT104 is present, then all are required.

**2** If either IT106 or IT107 is present, then the other is required.

**3** If either IT108 or IT109 is present, then the other is required.

**4** If either IT110 or IT111 is present, then the other is required.

**5** If either IT112 or IT113 is present, then the other is required.

**6** If either IT114 or IT115 is present, then the other is required.

**7** If either IT116 or IT117 is present, then the other is required.

**8** If either IT118 or IT119 is present, then the other is required.

**9** If either IT120 or IT121 is present, then the other is required.

**10** If either IT122 or IT123 is present, then the other is required.

**11** If either IT124 or IT125 is present, then the other is required.

**Semantic Notes:** **1** IT101 is the purchase order line item identification.

**Comments:** **1** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.

**2** IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Multiple IT1 Loops may be sent for each 810. The differentiation between the loops is a combination of the IT109 element and the associated REF segments.  ACCOUNT: If the non-billing party intends to display their charges at an account level, one IT1 Loop will be provided for the entire account. In addition, this loop will be used to provide charges related to Service Orders. There may only be one IT1 ACCOUNT Loop per 810 transaction.  RATE: If the non-billing party intends to display their charges/taxes at a rate level, one IT1 Loop will be provided for each rate and the rate is provided in REF~NH.  B2B: Business to Business charges that will not be passed on to end use customer, for example, Late Payment Charge, Interest, and Discount for Charge Off Allowance, etc.. There will only be one IT1 B2B Loop per 810 transaction.  Note: Late Payment Charges or standalone Meter Tampering Discretionary Charges will be sent on a separate 810 and will not be included on the Monthly Invoice. Any Meter Tampering Discretionary Charges associated with usage changes will be included on a Monthly Invoice. |
|  |  | Required |
|  |  | IT1~1~~~~~SV~EL~C3~ACCOUNT  IT1~2~~~~~SV~EL~C3~RATE  IT1~3~~~~~SV~EL~C3~B2B |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **IT101** | **350** | **Assigned Identification** | | | | **O** |  | **AN 1/20** | | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | | |
| **Must Use** | **IT106** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | SV |  | Service Rendered | | | | |
| **Must Use** | **IT107** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | There may be only one commodity (Electric or Gas) for each 810 transaction. | | | | | | | |
|  | | | | EL |  | Electric Service | | | | |
| **Must Use** | **IT108** | **235** | **Product/Service ID Qualifier** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | | | | | | | |
|  | | | | C3 |  | Classification | | | | |
| **Must Use** | **IT109** | **234** | **Product/Service ID** | | | | **X** |  | **AN 1/48** | | |
|  | | | Identifying number for a product or service | | | | | | | |
|  | | | | ACCOUNT |  | Charges/Taxes at an Account level | | | | |
|  | | | | | | Account equates to ESI ID | | | |
|  | | | | B2B |  | Business to Business Charges/Credits | | | | |
|  | | | | RATE |  | Charges/Taxes at a Rate Level | | | | |

**Segment: REF Reference Identification (TDSP Rate Class)**

**Position:** 120

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Not Used  IT109 = RATE: Required  IT109 = B2B: Not Used |
|  |  | REF~NH~RS1 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | NH |  | Rate Card Number | | | | |
|  | | | | | | TDSP Rate Class | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | TDSP Rate Class | | | | | | | |

**Segment: REF Reference Identification (TDSP Rate Subclass)**

**Position:** 120

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Not Used  IT109 = RATE: Required if applicable  IT109 = B2B: Not Used |
|  |  | REF~PR~RSHT |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | PR |  | Price Quote Number | | | | |
|  | | | | | | TDSP Rate Subclass | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | TDSP Rate Subclass | | | | | | | |

**Segment: DTM Date/Time Reference (Service Period Start)**

**Position:** 150

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Monthly Invoice: Required - The full service period should match the applicable PTD loops from the 867.  Late Payment Charge Invoice: Not Used  Meter Tampering Discretionary Invoice: Not Used  Outstanding discretionary charges after Final bill: Not Used |
|  |  | DTM~150~20010106 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 150 |  | Service Period Start | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: DTM Date/Time Reference (Service Period End)**

**Position:** 150

**Loop:** IT1 Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | For Monthly Invoice Only: Monthly Invoice: Required - The full service period should match the applicable PTD loops from the 867  Late Payment Charge Invoice: Not Used  Meter Tampering Discretionary Invoice: Not Used  Outstanding discretionary charges after Final bill: Not Used |
|  |  | DTM~151~20010204 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 151 |  | Service Period End | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: SLN Subline Item Detail**

**Position:** 200

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify product subline detail item data

**Syntax Notes:** **1** If either SLN04 or SLN05 is present, then the other is required.

**2** If SLN07 is present, then SLN06 is required.

**3** If SLN08 is present, then SLN06 is required.

**4** If either SLN09 or SLN10 is present, then the other is required.

**5** If either SLN11 or SLN12 is present, then the other is required.

**6** If either SLN13 or SLN14 is present, then the other is required.

**7** If either SLN15 or SLN16 is present, then the other is required.

**8** If either SLN17 or SLN18 is present, then the other is required.

**9** If either SLN19 or SLN20 is present, then the other is required.

**10** If either SLN21 or SLN22 is present, then the other is required.

**11** If either SLN23 or SLN24 is present, then the other is required.

**12** If either SLN25 or SLN26 is present, then the other is required.

**13** If either SLN27 or SLN28 is present, then the other is required.

**Semantic Notes:** **1** SLN01 is the identifying number for the subline item.

**2** SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

**3** SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

**4** SLN08 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:** **1** See the Data Element Dictionary for a complete list of IDs.

**2** SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

**3** SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | The SLN will be used to group charges together.  Service Orders: Each Service Order will be within its own SLN Loop and will include the Service Order Completion Date, TDSP Service Order Number, Charge(s) and Taxes if applicable.  For Example:  SLN~1~~A  DTM~198~20010120  REF~OW~WO12350  SAC~C~~EU~SER001~8000~~~80.00~EA~1~~~~~CHARGE DESCRIPTION  TXI~LS~8.00~~~~~A  Interest Charges/Credits: Each Interest Charge/Credit will be within its own SLN Loop and will include the associated Invoice Number and Charge/Credit.  For Example:  SLN~1~~A  REF~IK~200112310001  SAC~C~~EU~INT001~500~~~100.00~EA~0.05  SAC~C~~EU~INT003~-500~~~100.00~EA~-0.05  Late Payment Charges: Note that the Late Payment Charge Invoice must be a separate 810 and may not be included in the normal monthly invoice. Each Late Payment Charge will be within its own SLN Loop and will include the associated Invoice Number and Charge.  For Example:  SLN~1~~A  REF~IK~200112310001  SAC~C~~EU~LPC001~500~~~100.00~EA~0.05~~~~~CHARGE DESCRIPTION  All other charges/credits not associated with Service Order, or Interest will be contained in one (or more) SLN loop (s). If multiple SLN loops are required, it is valid that one or more SLN loop (s) contain less than or equal to 25 repeat count limit of SAC segments.  For Example:  Within B2B Loop:  SLN~1~~A  SAC~C~~EU~DSC005~-52~~~-.0675~KH~7.76~~~~~DISCOUNT FOR TC WITHHOLDING  Within ACCOUNT or RATE Loop:  SLN~1~~A  SAC~C~~EU~DIS001~2400~~~.016~KH~1500~~~~~DUOS  SAC~C~~EU~DIS004~236~~~.0015740~KH~1500~~~~~XFMR  SAC~C~~EU~MSC022~272~~~.0018126~KH~1500~~~~~CTC  SAC~C~~EU~MSC024~75~~~.0005~KH~1500~~~~~SBF  SAC~C~~EU~MSC025~31~~~.0002038~KH~1500~~~~~NDF  SAC~C~~EU~MSC027~776~~~.0051744~KH~1500~~~~~TC  SAC~C~~EU~TRN001~509~~~.00339~KH~1500~~~~~TUOS  Meter Tampering Discretionary Invoice: A Meter Tampering Discretionary Invoice must be a separate 810 and may not be included in the Monthly Invoice. |
|  |  | Required |
|  |  | SLN~1~~A |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **SLN01** | **350** | **Assigned Identification** | | | | **M** |  | **AN 1/20** | |
|  | | | Alphanumeric characters assigned for differentiation within a transaction set | | | | | | |
|  | | | Used as a loop counter | | | | | | |
| **Must Use** | **SLN03** | **662** | **Relationship Code** | | | | **M** |  | **ID 1/1** | |
|  | | | Code indicating the relationship between entities | | | | | | |
|  | | | | A |  | Add | | | |

**Segment: DTM Date/Time Reference (Service Order Completion)**

**Position:** 205

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Required for Service Order SLN loops, otherwise Not Used.  IT109 = RATE: Not used  IT109 = B2B: Not Used  Outstanding discretionary charges after Final bill: Required - date provided will be the date service(s) were performed by the TDSP. |
|  |  | DTM~198~20010204 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | |
|  | | | | 198 |  | Completion | | | |
| **Must Use** | **DTM02** | **373** | **Date** | | | | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | | | | |

**Segment: DTM Date/Time Reference (Unmetered Service Date Range)**

**Position:** 205

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Not Used.  IT109 = RATE: Required when unmetered services are prorated  IT109 = B2B: Not Used |
|  |  | DTM~944~~~~RD8~20010701-20010801 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **DTM01** | **374** | **Date/Time Qualifier** | | | | **M** |  | **ID 3/3** | | |
|  | | | Code specifying type of date or time, or both date and time | | | | | | | |
|  | | | | 944 |  | Adjustment Period | | | | |
|  | | | | | | Un-Metered Service Date Range | | | |
|  | **DTM05** | **1250** | **Date Time Period Format Qualifier** | | | | **X** |  | **ID 2/3** | | |
|  | | | Code indicating the date format, time format, or date and time format | | | | | | | |
|  | | | | RD8 |  | Range of Dates Expressed in Format CCYYMMDD-CCYYMMDD | | | | |
|  | **DTM06** | **1251** | **Date Time Period** | | | | **X** |  | **AN 1/35** | | |
|  | | | Expression of a date, a time, or range of dates, times or dates and times | | | | | | | |

**Segment: REF Reference Identification (Invoice Number)**

**Position:** 210

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Not Used  IT109 = RATE: Not Used  IT109 = B2B: Required for Late Payment Charge and Interest SLN loops, otherwise Not Used |
|  |  | REF~IK~200112310001 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | IK |  | Invoice Number | | | | |
|  | | | | | | Invoice Number related to Late Payment Charge (SAC04 = LPC001) or Interest (SAC04 = INT001 or INT003) | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | Invoice Number | | | | | | | |

**Segment: REF Reference Identification (TDSP Service Order Number)**

**Position:** 210

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:** **1** At least one of REF02 or REF03 is required.

**2** If either C04003 or C04004 is present, then the other is required.

**3** If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** **1** REF04 contains data relating to the value cited in REF02.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | IT109 = ACCOUNT: Required for Service Order SLN loops, otherwise Not Used.  IT109 = RATE: Not used  IT109 = B2B: Not Used |
|  |  | REF~OW~WO12345 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **REF01** | **128** | **Reference Identification Qualifier** | | | | **M** |  | **ID 2/3** | | |
|  | | | Code qualifying the Reference Identification | | | | | | | |
|  | | | | OW |  | Service Order Number | | | | |
|  | | | | | | TDSP Service Order Number | | | |
| **Must Use** | **REF02** | **127** | **Reference Identification** | | | | **X** |  | **AN 1/30** | | |
|  | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | | | | | | |
|  | | | TDSP Service Order Number | | | | | | | |

**Segment: SAC Service, Promotion, Allowance, or Charge Information**

**Position:** 230

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 25

**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax Notes:** **1** At least one of SAC02 or SAC03 is required.

**2** If either SAC03 or SAC04 is present, then the other is required.

**3** If either SAC06 or SAC07 is present, then the other is required.

**4** If either SAC09 or SAC10 is present, then the other is required.

**5** If SAC11 is present, then SAC10 is required.

**6** If SAC13 is present, then at least one of SAC02 or SAC04 is required.

**7** If SAC14 is present, then SAC13 is required.

**8** If SAC16 is present, then SAC15 is required.

**Semantic Notes:** **1** If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.

**2** SAC05 is the total amount for the service, promotion, allowance, or charge.

If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

**3** SAC08 is the allowance or charge rate per unit.

**4** SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

**5** SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

**6** SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

**7** SAC16 is used to identify the language being used in SAC15.

**Comments:** **1** SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.

**2** In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Texas SET will continue to standardize the discretionary charges in the SAC04 as they are identified by the market participants. |
|  |  | Required |
|  |  | SAC~C~~EU~MSC029~2500~~~.016~RA~90.00~85.00  SAC~C~~EU~DIS001~2400~~~.016~KH~1500~85.00~~~DUOS  SAC~C~~EU~LPC001~500~~~100.00~EA~.05  SAC~C~~EU~INT001~500~~~100.00~EA~.05  SAC~C~~EU~INT003~-500~~~100.00~EA~-.05  SAC~C~~EU~SER130~2500~~~1~EA~25.00~~~~~METER SEAL REPLACEMENT CHARGE |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **SAC01** | **248** | **Allowance or Charge Indicator** | | | | **M** |  | **ID 1/1** | | |
|  | | | Code which indicates an allowance or charge for the service specified | | | | | | | |
|  | | | | C |  | Charge | | | | |
|  | | | | N |  | No Allowance or Charge | | | | |
|  | | | | | | The amount in the SAC05 will be ignored when summing the invoice total. | | | |
| **Must Use** | **SAC03** | **559** | **Agency Qualifier Code** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code identifying the agency assigning the code values | | | | | | | |
|  | | | | EU |  | Electric Utilities | | | | |
| **Must Use** | **SAC04** | **1301** | **Agency Service, Promotion, Allowance, or Charge Code** | | | | **X** |  | **AN 1/10** | | |
|  | | | Agency maintained code identifying the service, promotion, allowance, or charge | | | | | | | |
|  | | | | SAC04 Codes can be found in the SAC04 Codes list.xls that is located with the Current Texas SET Implementation Guides on ERCOT.com | | | | | | |
| **Must Use** | **SAC05** | **610** | **Amount** | | | | **O** |  | **N2 1/15** | | |
|  | | | Monetary amount | | | | | | | |
|  | | | This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05 | | | | | | | |
| **Must Use** | **SAC08** | **118** | **Rate** | | | | **O** |  | **R 1/9** | | |
|  | | | Rate expressed in the standard monetary denomination for the currency specified | | | | | | | |
|  | | | This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05. | | | | | | | |
| **Must Use** | **SAC09** | **355** | **Unit or Basis for Measurement Code** | | | | **X** |  | **ID 2/2** | | |
|  | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | | | | | | | |
|  | | | | 4A |  | 4CP - Kilowatt Demand | | | | |
|  | | | | 4B |  | 4CP - kVA Demand | | | | |
|  | | | | 4C |  | 4CP Power Factor Adjusted | | | | |
|  | | | | 4D |  | 4CP - KVAR Demand | | | | |
|  | | | | 99 |  | Watt | | | | |
|  | | | | AF |  | Actual Demand Power Factor Adjusted | | | | |
|  | | | | EA |  | Each | | | | |
|  | | | | K1 |  | Kilowatt Demand | | | | |
|  | | | | | | Kilowatt Demand Actual | | | |
|  | | | | K2 |  | Kilovolt Amperes Reactive Demand | | | | |
|  | | | | K3 |  | Kilovolt Amperes Reactive Hour | | | | |
|  | | | | K4 |  | Kilovolt Amperes | | | | |
|  | | | | | | kVA Demand Actual | | | |
|  | | | | KH |  | Kilowatt Hour | | | | |
|  | | | | MO |  | Months | | | | |
|  | | | | NA |  | NCP - Kilowatt Demand | | | | |
|  | | | | NB |  | NCP - kVA Demand | | | | |
|  | | | | NC |  | NCP Power Factor Adjusted | | | | |
|  | | | | ND |  | NCP - KVAR Demand | | | | |
|  | | | | RA |  | Ratchet - Kilowatt Demand | | | | |
|  | | | | RB |  | Ratchet - kVA Demand | | | | |
|  | | | | RC |  | Ratchet Power Factor Adjusted | | | | |
|  | | | | RD |  | Ratchet - KVAR | | | | |
| **Must Use** | **SAC10** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |
|  | | | Consumption or Quantity  This field must be signed if it is negative. The SAC08 multiplied by the SAC10 must always equal the SAC05.  Billable quantity in the 867\_03 may not match the invoice quantity in the 810\_02 because of the TDSP tariff adjustments in the 810\_02 data. | | | | | | | |
|  | **SAC11** | **380** | **Quantity** | | | | **X** |  | **R 1/15** | | |
|  | | | Numeric value of quantity | | | | | | | |
|  | | | Consumption or Quantity  This field will always be the actual registered kW or kVA Demand  Required: When sending monthly and final bill invoices that include Demand billing charges.  Not Used: When Demand is not used for billing purposes, or for discretionary charge invoice, or late payment invoice. | | | | | | | |
| **Dep** | **SAC15** | **352** | **Description** | | | | **X** |  | **AN 1/80** | | |
|  | | | A free-form description to clarify the related data elements and their content | | | | | | | |
|  | | | Required when SAC04 = SER001. Otherwise, Optional. | | | | | | | |

**Segment: TXI Tax Information**

**Position:** 237

**Loop:** SLN Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify tax information

**Syntax Notes:** **1** At least one of TXI02 TXI03 or TXI06 is required.

**2** If either TXI04 or TXI05 is present, then the other is required.

**3** If TXI08 is present, then TXI03 is required.

**Semantic Notes:** **1** TXI02 is the monetary amount of the tax.

**2** TXI03 is the tax percent expressed as a decimal.

**3** TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required if taxes are applicable to the preceding SAC charge. |
|  |  | TXI~FR~2.5~~~~~A |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **TXI01** | **963** | **Tax Type Code** | | | | **M** |  | **ID 2/2** | | |
|  | | | Code specifying the type of tax | | | | | | | |
|  | | | | FR |  | Franchise Tax | | | | |
|  | | | | | | Franchise Fee | | | |
|  | | | | LS |  | State and Local Sales Tax | | | | |
| **Must Use** | **TXI02** | **782** | **Monetary Amount** | | | | **X** |  | **R 1/18** | | |
|  | | | Monetary amount | | | | | | | |
|  | | | Calculated Tax Amount. If negative, this amount must be preceded by a negative sign. | | | | | | | |
| **Must Use** | **TXI07** | **662** | **Relationship Code** | | | | **O** |  | **ID 1/1** | | |
|  | | | Code indicating the relationship between entities | | | | | | | |
|  | | | | A |  | Add | | | | |
|  | | | | | | The amount in the TXI02 is included when summing the invoice total. | | | |

**Segment: TDS Total Monetary Value Summary**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the total invoice discounts and amounts

**Syntax Notes:**

**Semantic Notes:** **1** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

**2** TDS02 indicates the amount upon which the terms discount amount is calculated.

**3** TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).

**4** TDS04 indicates the total amount of terms discount.

**Comments:** **1** TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | TDS~19875 (Represents $198.75 the decimal is implied) |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **TDS01** | **610** | **Amount** | **M** |  | **N2 1/15** | |
|  | | | Monetary amount | | | |
|  | | | Total  If negative, this amount must be preceded by a negative sign. Please note that this is an implied decimal field, do not send the decimal point. | | | |

**Segment: CTT Transaction Totals**

**Position:** 070

**Loop:**

**Level:** Summary

**Usage:** Optional (Must Use)

**Max Use:** 1

**Purpose:** To transmit a hash total for a specific element in the transaction set

**Syntax Notes:** **1** If either CTT03 or CTT04 is present, then the other is required.

**2** If either CTT05 or CTT06 is present, then the other is required.

**Semantic Notes:**

**Comments:** **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | CTT~1 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **CTT01** | **354** | **Number of Line Items** | **M** |  | **N0 1/6** | |
|  | | | Total number of line items in the transaction set | | | |
|  | | | The number of IT1 segments. | | | |

**Segment: SE Transaction Set Trailer**

**Position:** 080

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** **1** SE is the last segment of each transaction set.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Required |
|  |  | SE~35~000000001 |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Must Use** | **SE01** | **96** | **Number of Included Segments** | **M** |  | **N0 1/10** | |
|  | | | Total number of segments included in a transaction set including ST and SE segments | | | |
| **Must Use** | **SE02** | **329** | **Transaction Set Control Number** | **M** |  | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | |