

Louisville Gas & Electric Kentucky Utilities 810 Implementation Guide

VERSION: 4010

(Draft)

810	Invoice
	Functional Group=IN

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.

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Used
	GS	Functional Group Header	M	1			Used

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
030	NTE	Note/Special Instruction	O	100			Used
040	REF	Reference Identification	O	12			Used
LOOP ID - N1					200		
050	N1	Name	O	1			Used
060	N3	Address Information	O	2			Used
070	N4	Geographic Location	O	1			Used
080	PER	Administrative Communications Contact	O	3			Used
090	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
100	BAL	Balance Detail	O	>1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					200000		
110	IT1	Baseline Item Data (Invoice)	O	1			Used
120	TXI	Tax Information	O	10			Used
LOOP ID - PID					1000		
130	MEA	Measurements	O	10			Used
140	REF	Reference Identification	O	>1			Used
150	DTM	Date/Time Reference	O	10			Used
LOOP ID - SAC					25		
160	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - N1					200		
240	N1	Name	O	1			Used
250	N3	Address Information	O	2			Used
260	N4	Geographic Location	O	1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
300	TDS	Total Monetary Value Summary	M	1			Must use
LOOP ID - SAC					25		
310	CTT	Transaction Totals	O	1		N3/070	Used
320	SE	Transaction Set Trailer	M	1			Must use

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>										
	GE	Functional Group Trailer	M	1			Must Use										
	IEA	Interchange Control Trailer	M	1			Must Use										

Notes:

Number of line items (CTT01) is the accumulation of the number of IT1 segments.

ISA	Interchange Control Header	Pos:	Max: 1
		- Mandatory Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use	
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use	
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use	
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use	
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 12	M	ID	2/2	Must use	
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element 5026274096FCD	M	AN	15/15	Must use	
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use	

		<i>Recipient's EDI Id qualifier</i>					
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them <i>Recipient's EDI Id</i>	M	AN	15/15	Must use	
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use	
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use	
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer <i>U</i>	M	ID	1/1	Must use	
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments <i>00401</i>	M	ID	5/5	Must use	
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use	
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	Must use	
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	Must use	
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use	

GS	Functional Group Header	Pos:	Max: 1
		- Mandatory	
Loop: N/A		Elements: 8	

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>		
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						<u>Usage</u>	
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets All valid standard codes are used.	M	ID	2/2	Must use	
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners <i>5026274096FCD</i>	M	AN	2/15	Must use	
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners <i>Recipient's GS Id</i>	M	AN	2/15	Must use	
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use	
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use	
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use	
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	M	ID	1/2	Must use	
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed <i>004010</i>	M	AN	1/12	Must use	

ST	Transaction Set Header	Pos: 010	Max:
		Heading - Mandatory	Elements:
		Loop: N/A	

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set All valid standard codes are used.	M	ID	3/3	Must use	
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use	

BIG	Beginning Segment for Invoice	Pos: 020	Max:
		Heading - Mandatory	Elements: 1
		Loop: N/A	

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
BIG01	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use	
BIG02	76	Invoice Number Description: Identifying number assigned by issuer Identifying Number assigned by issuer (LGE and KU Energy passes account number paired with run date to create this value) Please see REF*IN for the actual invoice number, should you want to inquire about a specific invoice with LGE and KU Energy Account Representatives.	M	AN	1/22	Must use	
BIG07	640	Transaction Type Code Description: Code specifying the type of transaction Code Description <i>FB</i> <i>Final Bill</i> <i>PR</i> <i>Product</i>	O	ID	2/2	Used	
BIG08	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set Code Description <i>CO</i> <i>Corrected</i> <i>00</i> <i>Original</i>	O	ID	2/2	Used	

NTE	Note/Special Instruction	Pos: 030	Max: 1
		Heading - Optional	Elements:
		Loop: N/A	

To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	Note Reference Code Description: Code identifying the functional area or purpose for which the note applies 'ADD'	O	ID	3/3	Used
NTE02	352	Description Description: A free-form description to clarify the related data elements and their content	M	AN	1/80	Must use

Comments:

- Links for bill inserts will be sent on the NTE segment

REF	Reference Identification	Pos: 040	Max: 1
		Heading - Optional	Elements:
		Loop: N/A	

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used. Code Description 12 <i>Billing Account</i> IN <i>Invoice #</i> 45 <i>Old Account Number</i>	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

N1	Name	Pos: 050	Max:
		Heading - Optional	Elements:
		Loop: N1	

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Description <i>BT Bill To Party</i> <i>RE Remit To Party</i>	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	C	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) Code Description <i>1 DUNS #</i> <i>91 Mutually defined</i>	C	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code <i>If N101 = RE this will be PSE's DUNS #</i> <i>If N101 = BT this will be the customer's Id # assigned by PSE</i>	C	AN	2/80	Used

N3	Address Information	Pos: 060	Max:
		Heading - Optional	Elements:
		Loop: N1	

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4	Geographic Location	Pos: 070	Max:
		Heading - Optional	
		Loop: N1	Elements:

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used	
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used	
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used	
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used	

PER	Administrative Communications Contact	Pos: 080	Max:
		Heading - Optional	
		Loop: N1	Elements:

To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named Code Description <i>CR</i> <i>Customer Relations</i> <i>IC</i> <i>Information Contact</i>	M	ID	2/2	Must use	
PER02	93	Name Description: Free-form name	O	AN	1/60	Used	
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Description	C	ID	2/2	Used	

		<i>TE Telephone</i>					
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used	
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number Code Description <i>FX Fax #</i>	C	ID	2/2	Used	
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used	

Comments:

PER01=IC will be used when N101=BT
 PER01=CR will be used when N101=RE

ITD	Terms of Sale/Deferred Terms of Sale	Pos: 090	Max: >
		Heading - Optional	Elements: 1
		Loop: N/A	

To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
ITD01	336	Terms Type Code Description: Code identifying type of payment terms Code Description <i>05 Discount not applicable</i>	O	ID	2/2	Used	
ITD06	446	Terms Net Due Date Description: Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used	

BAL	Balance Detail	Pos: 100	Max: >
		Heading - Optional	Elements: 1
		Loop: N/A	

To identify the specific monetary balances associated with a particular account.
 Negative amounts are allowed to represent payments received

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Nam</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BAL01	951	Balance Type Code Description: Code identifying type of balance Code Description <i>M Current Month - Billed, Payment, and balance amounts shown in BAL03 are in this billing period</i> <i>P Preious Month - Balance of Previous period charges prior to applying any adjustments for the previous period billing</i> <i>Y Year to Date - Deferred plan balance</i>	M	ID	1/2	Used
BAL02	522	Amount Qualifier Code Description: Code to qualify amount Code Description <i>PB Billed Amount - Total amount due on the period bill</i> <i>TP Total Payment Amount</i> <i>YB Actual Unpaid Principal Balance</i> <i>BAL *P*YB is used to display the amount the customer owed as a result of the previous bill, prior to applying payments and adjustments for the previous billing period</i> <i>BAL *M*YB s used to display the customer's total outstanding balance. This is what the customer owes from the previous billing periods plus the curent billing charges.</i> <i>BAL *Y*YB is used to display the customer's current outstanding budget balance</i> <i>J9 Beginning Balance</i> <i>BAL *M*J9 is used to display the amount the customer owed prior to the current billing with payments and adjustments applied</i>	M	ID	1/3	Used
BAL03	782	Monetary Amount Description: Monetary amount	M	R	1/18	Used

IT1	Baseline Item Data (Invoice)	Pos: 110	Max:
		Detail - Optional	
		Loop: IT1	Elements: 1

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for	O	AN	1/20	Used

		differentiation within a transaction set					
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Description SV Service Rendered	C	ID	2/2	Used	
IT107	234	Product/Service ID Description: Identifying number for a product or service Code Description GAS Gas ELECTRIC Electric	C	AN	1/48	Used	
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used. Code Description C3 Classification	C	ID	2/2	Used	
IT109	234	Product/Service ID Description: Identifying number for a product or service Code Description ACCOUNT Account Info loop METER Mete info loop UNMET Unmetered services loop BILLDET Bill Detail and Charges	C	AN	1/48	Used	
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) Code Description MB Meter Type	C	ID	2/2	Not used	
IT111	234	Product/Service ID Description: Identifying number for a product or service Code Description NT Non-TOU Measurement TOU Time of Use Measurement	C	AN	1/48	Not used	

Comments:

1. ACCOUNT loop will contain overall account level info; charges not associated with a commodity, premise address
2. METER loop will contain all info related to a meter; meter #, rate schedule, delivery pt, meter read dates, meter reads, etc.
3. UNMET loop will contain all info related to unmetered svcs; billed usage, delivery pt, svc dates, etc.
4. BILLDET loop will contain all charge data associated with a service (meter or unmetered svcs); charges, charge dates

TXI	Tax Information	Pos: 120	Max: 1
		Detail - Optional	Elements: 1
		Loop: IT1	

To specify tax information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI01	963	Tax Type Code Description: Code specifying the type of tax Code Description MP <i>Municipal Tax</i>	M	ID	2/2	Must use
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Used
TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax Code Description 1 Yes 2 No	C	ID	1/1	Not used
TXI07	662	Relationship Code Description: Code indicating the relationship between entities Code Description A <i>Add</i> O <i>Information Only</i>	O	ID	1/1	Not used

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
P0405 -- If either TXI04 or TXI05 are present, then the others are required.
C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

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.

MEA	Measurements	Pos: 130	Max:
		Detail - Optional	
		Loop: PID	Elements:

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies Code Description AA <i>Meter reading beginning actual/ending actual</i>	O	ID	2/2	Used

		<p>AB Actual or Contract Demand</p> <p>AE Meter reading beginning actual/ending estimated</p> <p>AF Actual Tota</p> <p>BO Meter reading as billed</p> <p>BC Billed Actual</p> <p>BR Billed History</p> <p>CT Count</p> <p>EA Meter reading beginning estimated/ending actual</p> <p>EE Meter reading beginning estimated/ending estimated</p> <p>RG Tariff rate minimum</p>					
MEA02	738	<p>Measurement Qualifier</p> <p>Description: Code identifying a specific product or process characteristic to which a measurement applies</p> <p>Code Description</p> <p>L1 Light count</p> <p>MU Multiplier</p> <p>ZA Power Factor - Relationship between watts and volt amperes necessary to supply electric load</p> <p>All valid standard codes are used.</p>	O	ID	1/3	Used	
MEA03	739	<p>Measurement Value</p> <p>Description: The value of the measurement Multiplier</p>	C	R	1/20	Used	
MEA04	355	<p>Unit or Basis of Measure</p> <p>Description: To identify a composite unit of measure(See Figures Appendix for examples of use)</p> <p>When MEA02=CT and MEA03=L1 and MEA05=UN, MEA04 is the # of lights.</p> <p>When MEA02=CT and MEA03=L1 and MEA05=BE, MEA04 is ??? Working to get</p> <p>All valid standard codes are used.</p>	C	ID	2/2	Used	
MEA05	740	<p>Range Minimum</p> <p>Description: The value specifying the minimum of the measurement range</p> <p>Beginning Meter Reading- If this segment occurs in a METER loop, this will be starting meter reading. This segment will not be used in a UNMET loop</p>	C	R	1/20	Used	
MEA06	741	<p>Range Maximum</p> <p>Description: The value specifying the maximum of the measurement range</p> <p>Ending Meter Reading- If this segment occurs in a METER loop, this will be ending meter reading. If this segment occurs in a UNMET loop, this will be the billed value</p>	C	R	1/20	Used	
MEA07	935	<p>Measurement Significance Code</p> <p>Description: Code used to benchmark, qualify or</p>	O	ID	2/2	Used	

		further define a measurement value All valid standard codes are used.					
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REF	Reference Identification	Pos: 140	Max: 3
		Detail - Optional	Elements: 1
		Loop: IT1	

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Code Description 46 Old meter number (that was changed) CT Contract # MG Current meter number NH Utility rate class or tariff LU Service Delivery Point QQ # of non-metered units	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If REF01 is NH - this is the rate code If REF01 is QQ, valid values for REF02 are: L - Light U - Un-metered	C	AN	1/30	Used
REF03	352	Description Description: A free form description to clarify the related data elements and their content If REF01 is NH - this is the rate description	X	AN	1/80	Used

DTM	Date/Time Reference	Pos: 150	Max: 1
		Detail - Optional	Elements: 1
		Loop: IT1	

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		-				

DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Description 150 Service Period Start 151 Service Period End	M	ID	3/3	Must use	
DTM02	373	Date Description: Date expressed as CCYYMMDD	C	DT	8/8	Used	

SAC	Service, Promotion, Allowance, or Charge Information	Pos: 160	Max:
		Detail - Optional	Elements: 1
		Loop: SAC	

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified All valid standard codes are used.	M	ID	1/1	Must use	
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values All valid standard codes are used.	C	ID	2/2	Used	
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge All valid standard codes are used.	C	AN	1/10	Used	
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Used	
SAC09	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Code Description KH Kilowatt hour TD Therms EA Each	C	ID	2/2	Used	
SAC10	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used	
SAC12	331	Allowance or Charge Method of Handling Code Description: Code indicating method of handling for	O	ID	2/2	Used	

		an allowance or charge Code Description 04 <i>Credit Customer account</i> 06 <i>Charge to be paid by the customer</i>					
SAC15	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used	

N1	Name	Pos: 240 Max: Detail - Optional Loop: N1 Elements:
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To identify a party by type of organization, name, and code

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
		–					
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual Code Description <i>MQ</i> <i>Service Premise Location</i>	M	ID	2/3	Must use	
N102	93	Name Description: Free-form name	C	AN	1/60	Not used	

Comments:

This N1 loop will only be used in an Account Loop

N3	Address Information	Pos: 250 Max: Detail - Optional Loop: N1 Elements:
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To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
		–					
N301	166	Address Information Description: Address information <i>Service Address</i>	M	AN	1/55	Must use	
N302	166	Address Information Description: Address information <i>Service Address</i>	O	AN	1/55	Used	

N4	Geographic Location	Pos: 260	Max:
		Detail - Optional	
		Loop: N1	Elements:

To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used	
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used	
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used	

TDS	Total Monetary Value Summary	Pos: 300	Max:
		Summary - Mandatory	
		Loop: N/A	Elements:

To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
TDS01	610	Amount Description: Monetary amount <i>Amount of Invoice (including charges ,less allowances)</i>	M	N2	1/15	Must use	

CTT	Transaction Totals	Pos: 310	Max:
		Summary - Optional	
		Loop: N/A	Elements:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set User Note 1: No of IT1 loops included in this transaction set.	M	N0	1/6	Must use	

SE	Transaction Set Trailer	Pos: 320 Max: 1 Summary - Mandatory Loop: N/A Elements: 2
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To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use	
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use	

GE	Functional Group Trailer	Pos: 1 Max: 1 - Mandatory Loop: N/A Elements: 2
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To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use	

GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use	
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IEA	Interchange Control Trailer	Pos:	Max:
		- Mandatory	
		Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use	
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use	