

Implementation Guideline

for

Electronic Data Interchange

TRANSACTION SET

810

Customer Bill Information

Ver/Rel 004010

Summary of Changes

June 27, 2000

- Added REF segment in Header for Bill Period
- IT1 Loop in the Detail will map Meter Measurements and Un-metered
- Added QTY segment in Detail for Reading Differences
- Added REF segment in Detail for Un-metered Description
- On and Off Peak Date and Time will be mapped in a DTM segment in the Detail
- Added DTM segment in the IT1 Loop

July 14, 2000

Late Charge Percent will map to SAC13 in the summary section

July 25, 2000

 The demand on and off peak time will be mapped to DTM06 with 'TM' in DTM05 as the qualifier for the format (HHMM)

April 24, 2001

Added REF segment in Header for Price to Compare information

March 10, 2003

 Removed N402 from Bill to, Service Location, and Energy Service Provider address segments

May 20, 2005

- Removed references to unused data elements in all Syntax Notes, Semantic Notes, Comments and Notes
- Added BIG10 Data Element in Header to identify type of account
- Removed MEA19, MEA20, MEA 21 in the IT1 loop.
- Added MEA05, MEA06, MEA07 in the IT1 loop.
- Corrected DTM814 and DTM 634 segments to show that they are provided in the N1 loop, Position 140 per ANSI X12 Standards.
- Updated code list for SAC04.
- Added notes to IT1 loop: IT112 and IT113 are used only if IT109 = METER and IT110 and IT111 are used only if IT109 = RATE

June 14, 2005

Added SAC13 to Summary Section

June 24, 2005

Updated code list for SAC04 used in Summary Section.

June 15, 2007

Updated code list for SAC04.

Focus Implementation November 2014

- Changed reference to account number to Supplier Agreement ID
- Added REF*45 for old Supplier Agreement ID (formerly known as account number)
- ADJ000 All DLC Adjustments (See SAC15)
- MSC001 All DLC Current Bill Charges (See SAC15)

Added N1 segment for ESP name

Off-cycle switching February 2015

Version 4010 2 REVISED May 2011

810 Invoice

Notes

997 - Functional Acknowledgment

 The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document.

Interchange Control Number

 A unique and sequential interchange control number should be used on every envelope that is transmitted to a trading partner. This approach will allow the receiver to audit the interchange for any duplicate or missing transmissions.

Capitalization

 The use of all upper case (capital) letters is preferred over the use of mixed upper and lower case letters.

Use of The IT1 Segment

 An IT1 loop is used to accumulate all consumption and charge detail for a single meter or service. Each meter or service will be detailed in a separate IT1 loop.

Use of the MEA Segment

 The MEA segment is used to convey consumption readings for one metering period.

Use of the SLN Segment

 The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops. In some environments, more than 25 separate charges or allowances are associated with one IT1. Use of the SLN segment provides for a maximum of 1,000 individual SAC and TXI iterations

Use of the DTM Segment

 The DTM Segment is used in the N1 Loop, incompliance with ANSI X12 standards

810 Invoice

Functional Group ID=

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. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Base <u>Status</u> M	User <u>Status</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
020	BIG	Beginning Segment for Invoice	M	M	1		
030	NTE	Note/Special Instruction (DLC Bill Messages)	O		100		
030	NTE	Note/Special Instruction (ESP Bill Message)	O		100		
050	REF	Reference Identification (DLC Supplier Agreement ID.)	О		12		
050	REF	Reference Identification (ESP Account Num.)	О		12		
050	REF	Reference Identification (Rate Code)	О		12		
050	REF	Reference Identification (Rider Code)	O		12		
050	REF	Reference Identification (Bill Method)	O		12		
050	REF	Reference Identification (Bill Period)	O		12		
050	REF	Reference Identification (Price to Compare)					
050	REF	Reference Identification (Old Account Number	O		12		
		LOOP ID - N1				200	
070	N1	Name - (Bill To Info)	О		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
		LOOP ID - N1				200	
070	N1	Name - (Service Location Info)	О		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
		LOOP ID - N1				200	
070	N1	Name - (Energy Service Provider)	О		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		
120	PER	Administrative Communications Contact	O		3		
		LOOP ID - N1				200	
070	N1	Name - (Remit To Info)	О		1		
080	N2	Additional Name Information	O		2		
090	N3	Address Information	O		2		
100	N4	Geographic Location	O		1		

120 PER Marketing Contact O 3

140	DTM	Date/Time Reference (Due Date)	O	10
140	DTM	Date/Time Reference (Next Schedule Read	O	10

Detail:

Pos. <u>No.</u>	Seg. <u>ID</u>	Name LOOP ID - IT1 (Meter Measurements or	Base Status	User <u>Status</u>	Max.Use	Loop Repeat 200000	Notes and Comments
010	IT1	Unmetered) Baseline Item Data (Meter Readings per Meter)	O		1		
015	QTY	Quantity (Readings Difference)	O		5		
059	MEA	Measurements (Readings & Consumption)	O		10		
120	REF	Reference Identification (Meter Number)	O		>1		
120	REF	Reference Identification (Un-metered Desc)	O		>1		
150	DTM	Date/Time Reference (Service Period Start)	O		10		
150	DTM	Date/Time Reference (Service Period End)	O		10		
150	DTM	Date/Time Reference (Demand Peak Period)	O		10		
		LOOP ID - IT1 (DLC Charges Loop)				200000	
010	IT1	Baseline Item Data	O		1		
		LOOP ID – SLN				1000	
200	SLN	Subline Item Detail	О		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge	O		25		
237	TXI	Information (DLC Information) Tax Information (Sales Tax)	O		10		
		LOOP ID - IT1 (ESP Charges Loop)				200000	
010	IT1	Baseline Item Data	О		1		
		LOOP ID – N1				200	
240	N1	Name (ESP)	О		1		
		LOOP ID – SLN				1000	
200	SLN	Subline Item Detail	O		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge	O		25		
237	TXI	Information (ESP Information) Tax Information (Sales Tax)	O		10		
		LOOP ID - IT1 (Non-Basic Charges Loop)				200000	
010	IT1	Baseline Item Data	O		1		
		LOOP ID – SLN				1000	
200	SLN	Subline Item Detail	O		1		
205	DTM	Date/Time Reference	O		1		
230	SAC	Service, Promotion, Allowance, or Charge	O		25		
237	TXI	Information Tax Information (Sales Tax)	O		10		

Summary:

Pos. <u>No.</u> 010	Seg. <u>ID</u> TDS	Name Total Monetary Value Summary	Base Status M	User <u>Status</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
		LOOP ID - SAC				25	
040	SAC	Service, Promotion, Allowance, or Charge Information	О		1		
050	TXI	Tax Information (PA Sales Tax)	O		10		

070	CTT	Transaction Totals	O		1	n1
080	SE	Transaction Set Trailer	M	M	1	

Transaction Set Notes

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

 ${\bf ST}$ Transaction Set Header **Segment:**

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

Purpose:

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

Syntax Notes: Semantic Notes:

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:

DLC Use: Required **Notes:**

Data Element Summary

			Duta Element Summing				
Ref.	Data Element	Name			Base ributes	User Attributes	
Des.	Element	Name		Au	1 ibutes	Attibutes	
ST01	143	Transaction	Set Identifier Code	$\overline{\mathbf{M}}$	ID 3/3	M	
		Code uniquely	y identifying a Transaction Set				
		810	Invoice				
ST02	329	Transaction S	Set Control Number	M	AN 4/9	M	
			ntrol number that must be unique	e within the tr	ansaction se	et 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:

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.

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

Notes: DLC Use: Required

Data Element Summary

		Data Element Summary			
Ref.	Data		H	Base	User
Des.	Element	Name	Attı	<u>ributes</u>	<u>Attributes</u>
$\overline{\text{BIG0}}$ 1	373	Date	$\overline{\mathbf{M}}$	DT 8/8	M
		Date expressed as CCYYMMDD			
		Date expressed as CCTTWIMDD			
BIG02	76	Invoice Number	M	AN 1/22	M
		Identifying number assigned by issuer			
		This will be a concatenation of the Supplier Agreen	nent ID ar	nd the invoice	ce date to create a
		unique number.			
		umque numeen			
BIG07	640	Transaction Type Code	0	ID 2/2	M
DIGUT	040	Code specifying the type of transaction	O	110 2/2	171
		FB Final Bill			
		PR Regular Bill			
BIG08	353	Transaction Set Purpose Code	0	ID 2/2	M
		Code identifying purpose of transaction set			
		00 Original			
		07 Duplicate			
		CO Corrected			
		Co Conceica			
BIG10	76	Transaction Set Purpose Code	0	AN 1/22	M
DIGIO	70	Identifying number assigned by issuer	U	1111 1/22	141
		This identifies the type of account			
		I Industrial			
		C Commercial			
		R Residential			
		U Unmetered			

Segment: NTE Note/Special Instruction

Position: 030

Loop:

Level: Heading Usage: Optional Max Use: 100

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

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations. The use of the NTE segment should be avoided, if at all

possible.

Notes: DLC Use: Optional

Data Element Summary

Ref.	Data			F	Base	User	
Des.	Element	<u>Name</u>		Attı	<u>ributes</u>	Attributes	
NTE01	363	Note Reference Cod	e	M	ID 3/3	M	
		Code identifying the	functional area or purpose for whic	h the	note applie	es	
		ADD	Additional Information				
			Utility-required messages or notice	ces.			
NTE02	352	Description		M	AN 1/80	M	

A free-form description to clarify the related data elements and their content

Segment: REF Reference Identification (Billing Account)

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:

Comments:

Notes: DLC Use: Required

			Data Element Summary			
Ref.	Data]	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	<u>Attributes</u>
REF01	128	Reference Identific	ation Qualifier	M	ID 2/3	M
		Code qualifying the	Reference Identification			
		11	ESP Account Number, when ava	ilable)	
		12	Billing Account			
			Supplier Agreement ID for service	ce loc	ation	
			Please return this number on pay	ment	remittance/	
		RB	Rate Code			
		TS	Tariff NumberRider Code			
		BLT	Billing Type/Method			
		XY	Billing Period			
		ZZ	Price to Compare			
		45	Old Supplier Agreement ID			
REF02	127	Reference Identific	ation	X	AN 1/30	M
		Reference information Reference Identification	on as defined for a particular Transition Qualifier	action	n Set or as sp	pecified by the
REF03	352	Description		X	AN 1/80	X
		A free-form descript	ion to clarify the related data			
		elements and their co	ontent			

Segment: N1 Name - (Bill To)

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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.

Notes: DLC Use: Required

Ref.	Data	·	I	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>
N101	98	Entity Identifier Code	M	ID 2/3	M
		Code identifying an organizational entity, a physical	location	, property o	r an individual
		BT Bill To Customer Name			
N102	93	Name	\mathbf{M}	AN 1/60	M
		Free-form name			
N103	66	Identification Code Qualifier	O	ID 1/2	
		Code designating the system/method of code structur	re used f	or Identifica	tion Code (67)
		92 Assigned by Buyer or Buyer's	Agent		
N104	67	Identification Code	O	AN 2/80	
		Code identifying a party or other code			

Segment: N2 Additional Name Information

Position: 080

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use: Optional

Data Element Summary

Ref.DataBaseUserDes.ElementNameAttributesAttributesN20193NameMAN 1/60M

Free-form name

Segment: N3 Address Information

Position: 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use: Required if a street address exists for the service address

Ref. Des.	Data Element	Name		Base ributes	User Attributes
N301	166	Address Information	$\overline{\mathbf{M}}$	AN 1/55	M
		Address information			
N302	166	Address Information	O	AN 1/55	
		Address information			

Segment: N4 Geographic Location

Position: 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax Notes:

Semantic Notes: Comments:

1 A combination of either N401 through N404 may be adequate to specify a location.

N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: DLC Use: Required if a city/state address exists for the Bill To address

N401 will contain city and state

		Data Element Summary			
Ref.	Data		I	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	Attributes
N401	19	City Name	\mathbf{M}	AN 2/30	M
		Free-form text for city name			
N403	116	Postal Code	M	ID 3/15	M
		Code defining international postal zone code excluding	punc	tuation and	blanks (zip code
		for United States)			

Segment: N1 Name - (Service Location)

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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:

Notes: DLC Use: Required

Ref.	Data		-	E	Base	User
Des.	Element	Name		Attı	<u>ibutes</u>	<u>Attributes</u>
N101	98	Entity Identifier Co	de	\mathbf{M}	ID 2/3	M
		Code identifying an o	organizational entity, a physical loc	ation	, property o	r an individual
		ST	Customer—Service Location			
N102	93	Name		M	AN 1/60	M
		Free-form name				
N103	66	Identification Code	Qualifier	\mathbf{X}	ID 1/2	O
		'92'	ID Code Qualifier			
N104	67	Identification Code		\mathbf{X}	AN 2/20	O
		Customer cross-refer	ence number			

Segment: N2 Additional Name Information

Position: 080

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use: Optional

Data Element Summary

Ref.DataBaseUserDes.ElementNameAttributesAttributesN20193NameMAN 1/60M

Free-form name

N3 Address Information **Segment:**

Position: 090

> Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

To specify the location of the named party **Purpose:**

Syntax Notes: Semantic Notes:

Comments:

Notes: DLC Use: Optional

Ref.	Data		l	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>
N301	166	Address Information	M	AN 1/55	M
		Address information			
N302	166	Address Information	M	AN 1/55	M
		Address information			

Segment: N4 Geographic Location

Position: 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax Notes: Semantic Notes:

Comments: 1 A combination of either N401 through N404,

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: DLC Use: Required

N401 will contain city and state

Ref. Des.	Data <u>Element</u>	<u>Name</u>		Base <u>ributes</u>	User <u>Attributes</u>
N401	19	City Name	M	AN 2/30	M
		Free-form text for city name			
N403	116	Postal Code	M	ID 3/15	M
		Code defining international postal zone code excluding for United States)	punc	tuation and	blanks (zip code

 ${\bf Segment:} \qquad {\bf N1} \ \ {\bf Name - (Energy \, Service \, Provider)}$

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

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

.

Semantic Notes:

Comments:

Notes: DLC Use: Required if customer has selected an Energy Service Provider

Data Element Summary

Ref.	Data			I	Base	User
Des.	Element	Name		Att	<u>ributes</u>	<u>Attributes</u>
N101	98	Entity Identifier Co	de	M	ID 2/3	M
		Code identifying an o	organizational entity, a physical loc	cation	, property o	r an individual
		SJ	Service Provider			
			Energy Service Provider			
N102	93	Name		M	AN 1/60	M

Free-form name

Segment: N2 Additional Name Information

Position: 080

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use: Optional

Data Element Summary

Ref.DataBaseUserDes.ElementNameAttributesAttributesN20193NameMAN 1/60M

Free-form name

Segment: N3 Address Information

Position: 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use: Required if customer has selected an Energy Service Provider

Ref. Des.	Data Element	Name		Base ributes	User Attributes
N301	166	Address Information	$\overline{\mathbf{M}}$	AN 1/55	M
		Address information			
N302	166	Address Information	O	AN 1/55	
		Address information			

Segment: N4 Geographic Location

Position: 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

Purpose: To specify the geographic place of the named party

Syntax Notes:. Semantic Notes:

Comments: 1 A combination of either N401 through N404 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: DLC Use: Required if customer has selected an Energy Service Provider

N401 will contain city and state

Ref. Des.	Data <u>Element</u>	Name		Base <u>ributes</u>	User <u>Attributes</u>
N401	19	City Name	M	AN 2/30	M
		Free-form text for city name			
N403	116	Postal Code	M	ID 3/15	M
		Code defining international postal zone code excluding for United States)	punc	tuation and	blanks (zip code

Segment: PER Administrative Communications Contact

Position: 120

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 3

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

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

.

Semantic Notes:

Comments:

Notes: DLC Use: Optional

			2 404 2101110110 241111141			
Ref.	Data]	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes
PER01	366	Contact Func	tion Code	\mathbf{M}	ID 2/2	M
		Code identifying	ng the major duty or responsibility of the	perso	on or group	named
		IC	Information Contact			
PER02	93	Name		M	AN 1/60	M
		Free-form nam	ne			
PER03	365	Communicati	on Number Qualifier	M	ID 2/2	M
		Code identifying	ng the type of communication number			
		TE	Telephone			
PER04	364	Communicati	on Number	M	AN 1/80	\mathbf{M}
		Complete com	munications number including country of	or area	code when	applicable
		Energy Service	e Provider (ESP) Contact Number			

 $\textbf{Segment:} \qquad \textbf{N1} \ \ \textbf{Name - (Remit\ To)}$

Position: 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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.

Notes: DLC Use: Required

TD 0	-		Data Element Summary	_	_	- -
Ref.	Data			ŀ	Base	User
Des.	Element	<u>Name</u>		Attı	<u>ributes</u>	<u>Attributes</u>
N101	98	Entity Identifier Co	ode	M	ID 2/3	M
		Code identifying an	organizational entity, a physical loc	ation	, property or	an individual
		RE	Remit To			
N102	93	Name		M	AN 1/60	M
		Free-form name				
			Duquesne Light Company			
N103	66	Identification Code	Qualifier	X	ID 1/2	0
		'9'	Duns Number			
N104	67	Identification Code	:	X	AN 2/20	O
		'007915606' – EDC	Duns Number			

Segment: N3 Address Information

Position: 090

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 2

Purpose: To specify the location of the named party

Syntax Notes: Semantic Notes:

Comments:

Notes: DLC Use: Required

Ref.	Data		Bas	e	User
Des.	Element	<u>Name</u>	Attrib	<u>ates</u>	Attributes
N301	166	Address Information	$\overline{\mathbf{M}}$ A	N 1/55	M
		Address information			
N302	166	Address Information	O A	N 1/55	
		Address information			

Segment: N4 Geographic Location

Position: 100

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax Notes:

Semantic Notes: Comments:

1 A combination of either N401 through N404, may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: DLC Use: Required if customer has selected an Energy Service Provider

N401 will contain city and state

Ref.	Data]	Base	User	
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>	
N401	19	City Name	M	AN 2/30	M	
		Free-form text for city name				
N402	156	State or Province Code	\mathbf{M}	ID 2/2	M	
		Code (Standard State/Province) as defined by appropri	iate go	vernment ag	gency	
N403	116	Postal Code	\mathbf{M}	ID 3/15	M	
		Code defining international postal zone code excluding	g punc	tuation and	blanks (zip code	
		for United States)				

Segment: PER Administrative Communications Contact

Position: 120

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 3

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

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

Semantic Notes:

Comments:

Notes: DLC Use: Optional

Ref.	Data	•	J	Base	User
Des.	Element	<u>Name</u>	<u>Att</u>	<u>ributes</u>	Attributes
PER01	366	Contact Function Code	M	ID 2/2	M
		Code identifying the major duty or responsibilit	ty of the perso	on or group	named
		IC Information Contact			
PER02	93	Name	M	AN 1/60	M
		Free-form name			
PER03	365	Communication Number Qualifier	M	ID 2/2	M
		Code identifying the type of communication nu	mber		
		TE Telephone			
PER04	364	Communication Number	M	AN 1/80	M
		Complete communications number including co	ountry or area	code when	applicable

Position: 140

Loop: N1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes:

Comments:

Notes: DLC Use: Required

Ref.	Data			I	Base	User	
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes	
DTM01	374	Date/Time Qualifie	er	M	ID 3/3	M	
		Code specifying typ	e of date or time, or both date and ti	me			
		814	Payment Due Date				
DTM02	373	Date		M	DT 8/8	M	
		Date expressed as C	CYYMMDD				

Position: 140

Loop: N1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes:

Comments:

Notes: DLC Use: Required for residential accounts only

Ref.	Data			I	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	r	M	ID 3/3	M
		Code specifying type	e of date or time, or both date and ti	me		
		634	Next Schedule Read Date			
DTM02	373	Date		M	DT 8/8	M
		Date expressed as CO	CYYMMDD			

Segment: IT1 Baseline Item Data (Meter Measurements and Unmetered)

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

Semantic Notes: 1 IT101 is the 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.

Notes: DLC Use: Required as follows

		Data Element Summary			
Ref.	Data]		Base	User
Des.	Element	<u>Name</u> <u>Attributes</u>		<u>ributes</u>	Attributes
IT101	350	Assigned Identification	M	AN 1/20	M
		Alphanumeric characters assigned for differentiation v	within a	a transaction	set
		Line item counter			
IT106	235	Product/Service ID Qualifier	M	ID 2/2	M
		Code identifying the type/source of the descriptive num (234)	mber u	sed in Produ	act/Service ID
		SV Service Rendered			
IT107	234	Product/Service ID	M	AN 1/48	M
		Identifying number for a product or service			
		ELECTRIC			
IT108	235	Product/Service ID Qualifier	M	ID 2/2	M
		Code identifying the type/source of the descriptive num (234)	mber u	sed in Produ	act/Service ID
		C3 Classification			
IT109	234	Product/Service ID	\mathbf{M}	AN 1/48	M
		Identifying number for a product or service			
		METER			
TT:110	225	D 1 (//) 1 TD 0 1/0*		TD 0/0	3.6
IT112	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive nur	M mbor u	ID 2/2	M
		(234)	iiioei u	seu III F Iout	ict/service id
		IT112 and IT113 are used only if IT109 = METER			
		BS Bill Sub Group Code			
IT113	234	Product/Service ID	M	AN 1/48	M
		Identifying number for a product or service			
		MeasurementMEA			
		DistributorDLC			
		SupplierESP			
		Non-BasicNBC			

QTY Quantity **Segment:**

Position: 015

> IT1 Loop: Optional

Level: Detail Optional Usage:

Max Use:

Purpose: To specify quantity information 1 QTY02 is required.

Syntax Notes: Semantic Notes:

Ref.

Des.

QTY01

Comments:

Data

Element

673

DLC Use: Optional **Notes:**

	Base	User
<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
Quantity Qualifier	M ID 2/2	M

D1	Billed
KA	Estimated
QD	Actual Quantity Delivered
P6	Unmetered

Data Element Summary

QTY02	380	Quantity	X	R 1/15	X

Difference in Readings

OTY03 C001 Composite Unit of Measure	O
--------------------------------------	---

K1 Kilowatt Demand

Represents potential power load measured at predetermined intervals

Kilowatt Hour KH

K3 Kilovolt_Amperes_Reactive_Demand KVARH

99 Watt Segment: MEA Measurements (Broad Category ID)

Position: 059

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

Syntax Notes: 1 MEA03 is required.

C0504 – If MEA05 is present, then MEA04 is required.
 C0604 – If MEA06 is present, then MEA04 is required.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, MEA06.

Notes: DLC Use: Optional

Data Element Summary

		L	Pata Element Summary			
Ref.	Data			I	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes
MEA01	737	Measurement Refer	ence ID Code	O	ID 2/2	
		Code identifying the	broad category to which a measure	ement	applies	
		AA	Meter reading-beginning actual/e	nding	g actual	
		AE	Meter reading-beginning actual/e	nding	g estimated	
		EA	Meter reading-beginning estimate	ed/end	ding actual	
		EE	Meter reading-beginning estimate	ed/end	ding estimat	ed
MEA02	738	Measurement Quali	fier	O	ID 1/3	
		Code identifying a sp	ecific product or process character	istic 1	to which a n	neasurement
		applies				
		PRQ	Product Reportable Quantity			
		MU	Multiplier			
		ZA	Power Factor Multiplier			
MEA03	739	Measurement Value		X	R 1/20	
		The value of the mea	surement			
		Represents quantity of	of consumption delivered for service	e per	riod	
MEA04	C001	Composite Unit of N	Aeasure	O		
		To identify a compos	ite unit of measure (See Figures A	Appen	dix for exan	nples of use)
C00101	355	Unit or Basis for Mo	easurement Code	M	ID 2/2	M
		Code specifying the u	units in which a value is being exp	ressec	d, or manner	in which a
		measurement has bee				
		K1	Kilowatt Demand			
			Represents potential power load	meası	ared at prede	etermined intervals
		KH	Kilowatt Hour			
		K3	Kilovolt_Amperes_Reactive_Der	mand	KVARH	
		99	Watt			
MEA05	740	Range Minimum		X	R 1/20	
	7-10			41	A 1/#U	

The value specifying the minimum of the measurement range

Beginning reading

MEA06	741	Range Maximum The value specifying the maximum of the measurement			M R 1/20 M nent range			
		Ending reading	g or single reading (e.g., demand)					
MEA07	935	Measurement	Significance Code	0	ID 2/2			
		Code used to b	ne a measure	ement value				
		41	Off Peak					
		42	On Peak					
		51	Total					

 $Segment: \qquad MEA \quad \text{Measurements (Specific Product/Process ID)}$

Position: 059

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances,

and weights (See Figures Appendix for example of use of C001)

Syntax Notes: 1 MEA03 is required.

Semantic Notes:.

Notes: DLC Use: Required for a meter that has a meter multiplier other than 1

MEA**MU*2\

Data Element Summary

 Ref. Data
 Base User

 Des. Element MEA02
 Name Measurement Qualifier
 Attributes O ID 1/3

Code identifying a specific product or process characteristic to which a measurement

applies MU

MU Multiplier

MEA03 739 Measurement Value X R 1/20

The value of the measurement

Represents the meter constant when MEA02 equals "MU"

Segment: REF Reference Identification

Position: 120

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 REF02 is required.

Comments:

Notes: DLC Use: Required

There will be 1 REF*MG segment per IT1 METER loop

Data Element Summary

Ref.	Data]	Base	User	
Des.	Element	Name		Att	<u>ributes</u>	Attributes	
REF01	128	Reference Ide	ntification Qualifier	M	ID 2/3	M	
		Code qualifyin	g the Reference Identification				
		MG	Meter Number				
REF02	127	Reference Ide	ntification	M	AN 1/30	M	
		D - f : f-			C-4	: C: . J 1 41	

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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Segment: REF Reference Identification

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.

Semantic Notes: Comments:

Notes:

DLC Use: Required only when account is unmetered

Ref.	Data		•	I	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes
REF01	128	Reference Iden	tification Qualifier	M	ID 2/3	M
		Code qualifying	the Reference Identification			
		QQ	Unit Number			
REF02	127	Reference Iden	tification	X	AN 1/30	
			mation as defined for a particular ification Qualifier Un-metered	Transaction	Set or as s	pecified by the
REF03	352	Description		X	AN 1/80	
		A free-form des	cription to clarify the related data	elements as	nd their con	itent

Position: 150

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes:

Comments:

Notes: DLC Use: Required

Ref.	Data]	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	<u>Attributes</u>
$\overline{DTM01}$	374	Date/Time Qualific	er	M	ID 3/3	M
		Code specifying typ	e of date or time, or both date and ti	me		
		150	Service Period Start			
DTM02	373	Date		M	DT 8/8	M
		Date expressed as C	CYYMMDD			

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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 DTM02 is required.

Semantic Notes:

Comments:

Notes: DLC Use: Required

Ref.	Data]	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifi	er	M	ID 3/3	M
		Code specifying typ	be of date or time, or both date and ti	ime		
		151	Service Period End			
DTM02	373	Date		M	DT 8/8	M
		Date expressed as C	CCYYMMDD			

Segment: DTM Date/Time Reference (Peak Period)

Position: 150

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

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

Semantic Notes:

Comments:

Notes: DLC Use: Kilowatt Demand On and Off Peak Date and Time

Ref.	Data		•	_	Base	User
Des.	<u>Element</u>	<u>Name</u>		Att	<u>ributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifie	r	M	ID 3/3	M
		Code specifying type	e of date or time, or both date and the	ime		
		PPP	Peak Period			
DTM02	373	Date		\mathbf{X}	DT 8/8	
		Date expressed as Co	CYYMMDD			
DTM05	1250	Date Time Period F	ormat Qualifier	X	ID 2/3	
		TM	Time			
DTM06	1251	Date Time Period		\mathbf{X}	AN 1/35	
		Time expressed as H	HMM			

 $Segment: \qquad IT1 \; \text{Baseline Item Data (DLC Charges/ Rates)}$

Position: 010

Loop: IT1 Optional

Level: Detail Usage: Optional

Max Use:

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

transactions

Syntax Notes: 1

If either IT106 or IT107 is present, then the other is required.
If either IT108 or IT109 is present, then the other is required.
If either IT110 or IT111 is present, then the other is required.

Semantic Notes: 1 IT101 is the 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.

Notes: DLC Use: Required as follows

		Data Element Summary	7	
Ref.	Data		Base	User
Des.	Element	Name		<u>Attributes</u>
IT101	350	Assigned Identification	M AN 1/20	M
		Alphanumeric characters assigned for differe	ntiation within a transaction se	et
IT106	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descr (234)	ptive number used in Product	/Service ID
		SV Service Rendered		
IT107	234	Product/Service ID	M AN 1/48	M
		Identifying number for a product or service		
		ELECTRIC		
IT108	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descr (234)	ptive number used in Product	/Service ID
		C3 Classification		
IT109	234	Product/Service ID	M AN 1/48	M
		Identifying number for a product or service		
		RATE		
IT110	235	Product/Service ID Qualifier	M ID 2/2	M
		Code identifying the type/source of the descr (234)	ptive number used in Product	/Service ID
		BS Bill Sub Group Code		
		IT110 and IT111 are used only if IT109 =RA		
IT111	234		M AN 1/48	M
		Product/Service ID Identifying number for a product or service		
		MeasurementMEA		
		DistributorDLC		
		SupplierESP		
		Non-BasicNBC		

Segment: SLN Subline Item Detail

Position: 200

Loop: SLN Optional

Level: Detail Usage: Optional

Max Use:

Purpose: To specify product subline detail item data

Syntax Notes:

Semantic Notes:

1 SLN01 is the identifying number for the subline item.

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

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

DLC Use: Required

Notes:

Ref.	Data		I	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>
SLN01	350	Assigned Identification	\mathbf{M}	AN 1/20	\mathbf{M}
		Alphanumeric characters assigned for differentiation w	ithin a	transaction	set
		Used as a loop counter			
SLN03 662		Relationship Code	M	ID 1/1	M
		Code indicating the relationship between entities			
		A Add			

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Segment: DTM Date/Time Reference

Position: 205

Loop: SLN Optional

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes: Comments:

Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Qualifier			Base ributes ID 3/3	User <u>Attributes</u> M
DIMIUI	374	-	e of date or time, or both date and ti		ID 3/3	141
		733	Date of last payment received			
		AAG	Due Date of Previous Bill			
DTM02	373	Date		M	DT 8/8	M
		Date expressed as Co	CYYMMDD			

Sema	Segment: Position: Loop: Level: Usage: Max Use: Purpose: ntax Notes:	230 SLN Optional Detail Optional 25 To request or ident or percentage for tl 1 At least one of 2 If either SACC 4 If either SACC 1 If SACO1 is "A 2 SACO5 is the tl If SACO5 is po 3 SACO8 is the a 1 SACO4 may b	ify a service, promotion, allowance, or service, promotion, allowance, or SAC02 or SAC03 is required. Of SAC04 is present, then the oth the or SAC10 is present, then the oth the or "C", then at least one of SAC0 total amount for the service, promotives the service of SAC05 allowance or charge rate per unit.	e, or content of the	harge; to sperge required. required. SAC08 is reallowance, o	ecify the amount . equired. r charge.
		charge	Data Element Summary			
Ref.	Data		oata Element Summary	1	Base	User
Des.	Element	Name			ributes	<u>Attributes</u>
SAC01	248	Allowance or Char	ge Indicator	M	ID 1/1	M
		Code which indicate	s an allowance or charge for the ser	rvice	specified	
		A	Allowance			
		С	Charge			
		N	No Allowance or Charge			
			The amount in the SAC05 should	l be i	gnored when	summing the
G 1 G02		A 0 1161 C	invoice total.	3.5	TD 0/0	3.6
SAC03	559	Agency Qualifier C		M	ID 2/2	M
			agency assigning the code values			
		EU	Electric Utilities			
			Use this code until the DM for coapproved.	ode U	T to indicate	e the UIG is
SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge	M	AN 1/10	M
		Code				
			code identifying the service, promo			•
		-	Group maintains this code list. See			
			or contact a UIG member for implementation be available on the web site.	menta	ation details.	The most current
		ADJ000	Adjustment – All DLC Adjustme	ents (See SAC15)	
		ADJ002	Adjustment - See SAC15	(,,	
		BAS001	DLC Customer Charge			
		CRE001	Credit - See SAC15			
		CRE007	Energy Assistance Credit			
		CRE009	DLC Rider 7 Credit			
		CRE014	Customer Choice Credit			
		CRE021	Monthly Metering Credit			
		CRE022	Meter Reading Credit			
		CRE023	Billing & Payment Credit			
		DAB001	Security Deposit Amount			
		DAB002	Security Deposit Interest Refund			
		DAB003	Security Deposit Refund			
		DCS001	Disconnect Charge			
		DIS001	Distribution Charge			
		DMD032	Fixed Monthly Charge			

		DSC001	Discount - See SAC15
		DSC004	Rider Credit
		ENCO01	Energy Charge
		FAC001	Facility Charge
		FFR001 FUE001	Flat Rate Marketing Program Charge Fuel Adjustment
		GEN001	Generation Charge
		GTC001	Generation & Transmission Charge Combined
		HOC001 IBC016	Service Connection Charge DLC Surcharge
		INT003	Interest on Refund
		LPC001	Late Payment Charge
		MSC001	Miscellaneous Charge - All DLC Current Bill Charges (See SAC15)
		MSC022	Competitive Transition Charge (CTC)
		MSC026	Interruptible Penalty Charge
		MSC041	PA Energy Efficiency Surcharge – See SAC15
		PRB000	Amount Previous Bill
		PAY001	Payment Date
		PRB001	Amount Owed from Last Bill
		PRB002	Unpaid Balance
		RCS001	Reconnect Charge
		RRR006	Refund - Regulatory Commission
		RRR007	Interest on Refund
		RTC001	Returned Check Fee
		RTC002	Returned Check Amount
		SER001	Service Charge
		SMD000	Go to SAC15 for text description
		SMD019	DLC Meter Charge
		SUR009 TPI002	Capacity Credit Energy Capacition Symplics Charges
		TRN001	Energy Generation Supplier Charges Transmission Charge
			Transferred Amount
		TRS001	
CACOF	(10	VCR001	Dollar Energy Fund Donation
SAC05	610	Amount	M N2 1/15 M
		Monetary amount	annuanistaly signed CACO1 is not to be used to determine the sign of
		the value in SAC05.	appropriately signed. SAC01 is not to be used to determine the sign of
SAC08	118	Rate	O R 1/9
		Rate expressed in th	e standard monetary denomination for the currency specified
		*	or negative and may contain up to 8 decimal positions.
SAC09	355	Unit or Basis for M	Ieasurement Code O ID 2/2
		Code specifying the	units in which a value is being expressed, or manner in which a
		measurement has be	en taken
		99	Watt
		BL	Block
			Baseline usage for a predetermined period of time
		K1	Kilowatt Demand
			Represents potential power load measured at predetermined intervals
		KH	Kilowatt Hour
		UN	Unit
SAC10	380	Quantity	O R 1/15
		Numeric value of qu	antity

SAC15 352 Description O AN 1/80

A free-form description to clarify the related data elements and their content

Segment: TXI Tax Information

Position: 237

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify tax information

Syntax Notes: 1 At least one of TXI02 or 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: DLC Use: Required as follows-

State sales tax does not apply to tax exempt accounts

STAS is not a sales tax but is a tax on ratethis state tax is applicable to ALL accounts

Ref.	Data		•	F	Base	User
Des.	Element	<u>Name</u>		Attı	<u>ributes</u>	Attributes
TXI01	963	Tax Type Code		M	ID 2/2	M
		Code specifying the t	type of tax			
		GR	Gross Receipts Tax			
		SP	State/Provincial Tax			
			State tax levied which excludes sa	ales o	r excise taxe	es
			State Tax Adjustment Surcharge	(STA	S)	
		ST	State Sales Tax			
TXI02	782	Monetary Amount		M	R 1/18	M
		Monetary amount				
TXI03	954	Percent		O	R 1/10	
		Percentage expressed	l as a decimal			
		Present as a decimal,	e.g., 65% should be expressed as	65		
TXI07	662	Relationship Code		M	ID 1/1	M
		Code indicating the re	elationship between entities			
		A	Add			
			Tax amount in TXI02 is added in	to the	e TDS01 invo	oice total
		O	Information Only			
			Charges which relate to but may i	ot be	e included in	or added to the
			unit price of the SLN. (i.e., compo	ute W	ATS calcula	ation based upon
			usage amounts)		1 mp.go.	
			Tax amount in TXI02 is not adde	d into	the TDS01	invoice total

 $Segment: \qquad IT1 \;\; Baseline \; Item \; Data \; (ESP \; Charges/ \; Rates)$

Position: 010

Loop: IT1 Optional

Level: Detail
Usage: Optional

Max Use:

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

transactions

Syntax Notes:

If either IT106 or IT107 is present, then the other is required.
If either IT108 or IT109 is present, then the other is required.
If either IT110 or IT111 is present, then the other is required.

Semantic Notes:

1 IT101 is the 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.

Notes:

DLC Use: Required as follows

		Data Element Summary					
Ref.	Data		_	Base	User		
Des.	Element	<u>Name</u>		<u>ributes</u>	<u>Attributes</u>		
IT101	350	Assigned Identification	M	AN 1/20	M		
		Alphanumeric characters assigned for differentiation	within	a transaction	ı set		
IT106	235	Product/Service ID Qualifier	M	ID 2/2	M		
		Code identifying the type/source of the descriptive nu (234)	ımber u	ised in Produ	act/Service ID		
		SV Service Rendered					
IT107	234	Product/Service ID	M	AN 1/48	M		
		Identifying number for a product or service					
		ELECTRIC					
IT108	235	Product/Service ID Qualifier	M	ID 2/2	M		
		Code identifying the type/source of the descriptive nu (234) C3 Classification	ımber u	ised in Produ	act/Service ID		
IT109	234	Product/Service ID	М	AN 1/48	M		
11109	254		IVI	AN 1/40	IVI		
		Identifying number for a product or service					
		RATE					
IT110	235	Product/Service ID Qualifier	M	ID 2/2	M		
		Code identifying the type/source of the descriptive nu (234)	ımber u	ised in Produ	act/Service ID		
		BS Bill Sub Group Code					
IT111	234	Product/Service ID	M	AN 1/48	M		
		Identifying number for a product or service					
		MeasurementMEA					
		DistributorDLC					
		SupplierESP					
		Non-BasicNBC					

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Segment: N1 Name - (ESP Name)

Position: 240

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 N102 required.

Semantic Notes:

Comments: 1 This segment, used alone, provides the most efficient method of providing

organizational identification.

Notes: DLC Use: Required

Ref.	Data			I	Base	User	
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes	
N101	98	Entity Identifier C	ode	M	ID 2/3	M	
		Code identifying an	organizational entity, a physical lo	cation	, property o	r an individual	
		SJ	ESP Name				
N102	93	Name		M	AN 1/60	M	
		Free-form name					

Segment: SLN Subline Item Detail

Position: 200

Loop: SLN Optional

Level: Detail Usage: Optional

Max Use:

Purpose: To specify product subline detail item data

Syntax Notes: .

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

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

baseline item.

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

.

Notes: DLC Use: Required

Ref.	Data		I	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>
SLN01	350	Assigned Identification	M	AN 1/20	M
		Alphanumeric characters assigned for differentiation w	ithin a	a transaction	set
		Used as a loop counter			
SLN03	662	Relationship Code	M	ID 1/1	M
		Code indicating the relationship between entities			
		A Add			

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Segment: DTM Date/Time Reference

Position: 205

Loop: SLN Optional

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes: Comments:

Ref. Des.	Data Element	Name		Base ributes	User Attributes
DTM01	374	Date/Time Qualifier	M	ID 3/3	M
		Code specifying type of date or time, or both	th date and time		
		733 Date of last payment	received		
DTM02	373	Date	M	DT 8/8	M
		Date expressed as CCYYMMDD			

	Segment:	SAC ESP	Service, Promotion, Allowance, or G	Charge Informa	ation
	Position:	230		C	
	Loop:	SLN Option	al		
	Level:	Detail			
	Usage:	Optional			
	Max Use:	25 To request or ide	antify a sarvice promotion allowance	or charge to s	pacify the emount
C	Purpose:	or percentage for	entify a service, promotion, allowance r the service, promotion, allowance, o		pechy the amount
Syn	tax Notes:		quired. C03 or SAC04 is present, then the oth C09 or SAC10 is present, then the oth		
Semai	ntic Notes:	2 SAC05 is th If SAC05 is	"A" or "C", then at least one of SAC0 to total amount for the service, promot present with SAC08, then SAC05 takes	tion, allowance,	
C	Comments:		e allowance or charge rate per unit. be used to uniquely identify the serving	ice, promotion, a	allowance, or
			Data Element Summary		
Ref.	Data			Base	User
Des.	Element 249	Name	T. 3! 4	Attributes	<u>Attributes</u>
SAC01	248	Allowance or Ch	_	M ID 1/1	M
			ates an allowance or charge for the ser	rvice specified	
		A	Allowance		
		C	Charge		
		N	No Allowance or Charge		
			The amount in the SAC05 should invoice total.	l be ignored whe	en summing the
SAC03	559	Agency Qualifier	Code	M ID 2/2	M
		Code identifying t	he agency assigning the code values		
		EU	Electric Utilities		
			Use this code until the DM for coapproved.	ode UT to indica	te the UIG is
SAC04	1301	Agency Service.	Promotion, Allowance, or Charge	M AN 1/10	M
		Code	,		
		Agency maintaine	ed code identifying the service, promo	tion, allowance,	or charge
		•	ry Group maintains this code list. See		
			g or contact a UIG member for imple	mentation details	s. The most current
		ADJ000	ill be available on the web site.	anta (Saa SAC1)	5)
		ADJ000 ADJ002	Adjustment – All DLC Adjustment – See SAC15	ems (see sact.	3)
		BAS001	DLC Customer Charge		
		CRE001	Credit - See SAC15		
		CRE007	Energy Assistance Credit		
		CRE009	DLC Rider 7 Credit		
		CRE014	Customer Choice Credit		
		CRE021	Monthly Metering Credit		
		CRE022	Meter Reading Credit		
		CRE023	Billing & Payment Credit		
		DAB001	Security Deposit Amount		
		DAB002	Security Deposit Interest Refund		
		DAB003	Security Deposit Refund		
		DCS001	Disconnect Charge		
	•	DSC004	Rider Credit		
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Version 4010			52		I	REVISED May 2011	
SAC15	352	Description		O	AN 1/80		
		Numeric value of	quantity				
SAC10	380	Quantity		O	R 1/15		
01010	200	UN	Unit	_	D 4/4 =		
		KH	Kilowatt Hour				
		Mii	Represents potential power load	ı meası	ured at prede	etermined intervals	
		K1	Kilowatt Demand	ا		otomoinedistre 1	
		V 1	Baseline usage for a predetermi	пеа ре	noa of time		
		BL	Block	n a d	mind of the		
		99 DI	Watt				
		measurement has					
			he units in which a value is being ex	presse	d, or manner	in which a	
SAC09	355	Unit or Basis for	Measurement Code	O	ID 2/2		
		Rate can be positi	ive or negative and may contain up to	8 dec	imal positio	ns.	
			the standard monetary denomination				
SAC08	118	Rate		O	R 1/9		
		the value in SAC				und organ of	
			be appropriately signed. SAC01 is n	ot to b	e used to det	termine the sign of	
511005	310	Monetary amount		171	114 1/10	272	
SAC05	610	Amount	Transferred / Infount	M	N2 1/15	M	
		TRS001	Transferred Amount				
		TRN001	Transmission Charge	500			
		TPI002	Energy Generation Supplier Ch	arges			
		SMD019 SUR009	DLC Meter Charge Capacity Credit				
		SMD000	Go to SAC15 for text description	n			
		SER001	Service Charge				
		RTC002	Returned Check Amount				
		RTC001	Returned Check Fee				
		RRR007	Interest on Refund				
		RRR006	Refund - Regulatory Commission	on			
		RCS001	Reconnect Charge				
		PRB002	Unpaid Balance				
		PRB001	Amount Owed from Last Bill				
		PAY001	Payment Date				
		PRB000	Amount Previous Bill				
		MSC020 MSC041	PA Energy Efficiency Surcharg	e – Se	e SAC15		
		MSC022 MSC026	Interruptible Penalty Charge	(010)			
		MSC022	Competitive Transition Charge			inges (See SAC13)	
		MSC001	Miscellaneous Charge - All DI	C Cur	rent Bill Ch	arges (See SAC15)	
		LPC001	Late Payment Charge				
		IBC016 INT003	DLC Surcharge Interest on Refund				
		HOC001	Service Connection Charge				
		GTC001	Generation & Transmission Cha	arge Co	ombined		
		GEN001	Generation Charge				
		FUE001	Fuel Adjustment	5-			
		FFR001	Flat Rate Marketing Program Char	ge			
		FAC001	Facility Charge				
		ENC001	Energy Charge				
		DSC001	Discount - See SAC15				
		DIS001	Distribution Charge				

A free-form description to clarify the related data elements and their content

Segment: TXI Tax Information

Position: 237

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify tax information

Syntax Notes: 1 At least one of TXI02 or TXI03 6 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: DLC Use: Required as follows-

State sales tax does not apply to tax exempt accounts

STAS is not a sales tax but is a tax on ratethis state tax is applicable to ALL accounts

Data Element Summary

Ref.	Data				Base	User
Des.	Element	<u>Name</u>		Attı	<u>ributes</u>	<u>Attributes</u>
TXI01	963	Tax Type Code		M	ID 2/2	M
		Code specifying the	type of tax			
		GR	Gross Receipts Tax			
		SP	State/Provincial Tax			
			State tax levied which excludes sa	ales o	r excise taxe	es
			State Tax Adjustment Surcharge (STA	S)	
		ST	State Sales Tax			
TXI02	782	Monetary Amount		M	R 1/18	M
		Monetary amount				
TXI03	954	Percent		O	R 1/10	
		Percentage expressed	l as a decimal			
		Present as a decimal,	e.g., 65% should be expressed as .	65		
TXI07	662	Relationship Code		M	ID 1/1	M
		Code indicating the r	elationship between entities			
		A	Add			
			Tax amount in TXI02 is added in	to the	TDS01 invo	oice total
		O	Information Only			
			Charges which relate to but may runit price of the SLN. (i.e., compu			

usage amounts)

Tax amount in TXI02 is not added into the TDS01 invoice total

 $IT1 \ \ Baseline \ Item \ Data \ (Non-Basic \ Charges/\ Rates)$ **Segment:**

Position:

Loop: IT1 Optional

Level: Detail Usage: Optional Max Use:

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

transactions

Syntax Notes:.

If either IT106 or IT107 is present, then the other is required. If either IT108 or IT109 is present, then the other is required. 3

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

Semantic Notes: Comments:

1 IT101 is the line item identification.

Element 235/234 combinations should be interpreted to include products and/or

services. See the Data Dictionary for a complete list of IDs.

DLC Use: Required as follows **Notes:**

		Data Element Summary			
Ref.	Data]	Base	User
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>
IT101	350	Assigned Identification	M	AN 1/20	M
		Alphanumeric characters assigned for differentiation w	ithin a	a transaction	set
IT106	235	Product/Service ID Qualifier	M	ID 2/2	M
		Code identifying the type/source of the descriptive nun (234)	nber u	sed in Produ	act/Service ID
		SV Service Rendered			
IT107	234	Product/Service ID	M	AN 1/48	M
		Identifying number for a product or service			
		ELECTRIC			
IT108	235	Product/Service ID Qualifier	M	ID 2/2	M
		Code identifying the type/source of the descriptive nun (234) C3 Classification	nber u	sed in Produ	act/Service ID
IT109	234	Product/Service ID	M	AN 1/48	M
		Identifying number for a product or service		121 (2, 10	-1-
		RATE			
IT110	235	Product/Service ID Qualifier	M	ID 2/2	M
11110	233	_			
		Code identifying the type/source of the descriptive nun (234)	iber u	sea in Produ	ict/Service ID
		BS Bill Sub Group Code			
IT111	234	Product/Service ID	M	AN 1/48	M
11111	201	Identifying number for a product or service	111	1111 1/40	171
		MeasurementMEA			
		DistributorDLC			
		SupplierESP			
		Non-BasicNBC			
		11011 24010			

Segment: SLN Subline Item Detail

Position: 200

Loop: SLN Optional

Level: Detail Usage: Optional

Max Use:

Purpose: To specify product subline detail item data

Syntax Notes:

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.

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.

Notes: DLC Use: Required

Ref.	Data		I	Base	User	
Des.	Element	<u>Name</u>	Att	<u>ributes</u>	<u>Attributes</u>	
SLN01	350	Assigned Identification	M	AN 1/20	M	
		Alphanumeric characters assigned for differentiation	within a	a transaction	set	
		Used as a loop counter				
SLN03	662	Relationship Code	M	ID 1/1	M	
		Code indicating the relationship between entities				
		A Add				

Segment: DTM Date/Time Reference

Position: 205

Loop: SLN Optional

Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: 1 DTM02 is required.

Semantic Notes: Comments:

Ref. Des.	Data Element	Name		Base ributes	User Attributes
DTM01	374	Date/Time Qualifier	M	ID 3/3	M
		Code specifying type of date or time, or both	th date and time		
		733 Date of last payment	received		
DTM02	373	Date	M	DT 8/8	M
		Date expressed as CCYYMMDD			

Segment: DTM Date/Time Reference

Position: 205

Loop: SLN Optional

Level: Detail Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

Syntax Notes: Semantic Notes: Comments:

Notes: DLC Use:

From Date – To Date

Ref.	Data			I	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes
DTM01	374	Date/Time Q	ualifier	M	ID 3/3	M
		Code specifyi	ng type of date or time, or both date	e and time		
		313	Cycle			
		Range of date	s as they pertain to a period of time			
DTM05	1250	Date time Per	riod Format Qualifier	X	ID2/3	
		Code specifyi	ng type of date or time, or both date	e and time		
		RD8	Range of Dates			
DTM06	1251	Date time Per	riod	X	AN1/35	
		Date expresse	d as CCYYMMDD-CCYYMMDD			

	Segment:	SAC Non-Ba	sic Service, Promotion, Allowanc	e or Charge In	formation
	Position:	230	sic service, i romotion, mowant	c, or charge in	noi mation
	Loop:	SLN Optional			
	Level:	Detail			
	Usage:	Optional			
	Max Use:	25			
	Purpose:		ify a service, promotion, allowance		pecify the amount
Sy	ntax Notes:	1 At least one of2 If either SAC04 If either SAC0	ne service, promotion, allowance, or SAC02 or SAC03 is required. 3 or SAC04 is present, then the oth 9 or SAC10 is present, then the oth esent, then at least one of SAC02 or SAC02 or SAC02.	er is required.	ired.
Come	ntia Natas	1 If C A CO1 : a " A	" or "C" then at least one of CACC	05 on CAC00 is	ma ayılma d
Sema	antic Notes:		A" or "C", then at least one of SACO otal amount for the service, promot		
			esent with SAC08, then SAC05 tak		or charge.
			illowance or charge rate per unit.	F	
•	a	4 0.001			.,
,	Comments:	1 SAC04 may be charge.	e used to uniquely identify the servi	ice, promotion, a	illowance, or
		I	Data Element Summary		
Ref.	Data			Base	User
Des.	Element 240	Name	T 1.	Attributes	<u>Attributes</u>
SAC01	248	Allowance or Charg	_	M ID 1/1	M
			s an allowance or charge for the ser	rvice specified	
		A	Allowance		
		С	Charge		
		N	No Allowance or Charge		
			The amount in the SAC05 should invoice total.	l be ignored whe	en summing the
SAC03	559	Agency Qualifier C		M ID 2/2	M
			agency assigning the code values		
		EU	Electric Utilities		
			Use this code until the DM for co	ode UT to indica	te the UIG is
			approved.		
SAC04	1301	Agency Service, Pro Code	omotion, Allowance, or Charge	M AN 1/10	M
		Agency maintained of	code identifying the service, promo	tion, allowance,	or charge
		The Utility Industry	Group maintains this code list. See	the UIG web si	te at
			or contact a UIG member for implei	mentation details	s. The most current
			be available on the web site.	(6, 6, 61	-
		ADJ000	Adjustment – All DLC Adjustme	ents (See SACI	5)
		ADJ002 BAS001	Adjustment - See SAC15 DLC Customer Charge		
			Credit - See SAC15		
		CRE001			
		CRE007	Energy Assistance Credit		
		CRE009 CRE014	DLC Rider 7 Credit Customer Choice Credit		
		CRE021	Monthly Metering Credit		
		CRE021 CRE022			
			Meter Reading Credit		
		CRE023	Billing & Payment Credit		
		DAB001	Security Deposit Amount		
		DAB002	Security Deposit Interest Refund		
		LAADIWY)	No consentry I Domo cost U officed		

Secuirty Deposit Refund

DAB003

		DCS001 DSC004	Disconnect Charge Rider Credit			
		DIS001	Distribution Charge			
		DSC001	Discount - See SAC15			
		ENC001	Energy Charge			
		FAC001	Facility Charge			
		FFR001 FUE001	Flat Rate Marketing Program Charge Fuel Adjustment			
		GEN001	Generation Charge	C	anhina d	
		GTC001 HOC001	Generation & Transmission Charge Service Connection Charge	ge Co	momea	
		IBC016	DLC Surcharge			
		INT003	Interest on Refund			
		LPC001	Late Payment Charge			
		MSC001	Miscellaneous Charge - All DLC	Curi	rent Bill Cha	arges (See SAC15)
		MSC022	Competitive Transition Charge (C	CTC)		
		MSC026	Interruptible Penalty Charge			
		MSC041 PRB000	PA Energy Efficiency Surcharge - Amount Previous Bill	– See	SAC15	
		PAY001	Payment Date			
		PRB001	Amount Owed from Last Bill			
		PRB002	Unpaid Balance			
		RCS001	Reconnect Charge			
		RRR006	Refund - Regulatory Commission			
		RRR007	Interest on Refund			
		RTC001	Returned Check Fee			
		RTC002	Returned Check Amount			
		SER001	Service Charge			
		SMD000	Go to SAC15 for text description			
		SMD019	DLC Meter Charge			
		SUR009 TPI002	Capacity Credit Energy Generation Supplier Charges			
SAC05	610	Amount		M	N2 1/15	M
		Monetary amount				
			appropriately signed. SAC01 is not	to be	e used to det	ermine the sign of
C A C 00	110	the value in SAC05.		0	D 1/0	
SAC08	118	Rate	e standard monetary denomination f	O	R 1/9	nacified
		*	or negative and may contain up to 8		•	*
SAC09	355	Unit or Basis for M	• •	O	ID 2/2	115.
BACO	333		units in which a value is being expre	•		in which a
		measurement has bee		• 555 • •	, 01 1111111101	
		99	Watt			
		BL	Block			
			Baseline usage for a predetermine	d per	riod of time	
		K1	Kilowatt Demand			
			Represents potential power load n	neası	red at prede	etermined intervals
		KH	Kilowatt Hour			
		UN	Unit			
a. ~	200	ZZ	Bill Period	_	5 4 4 =	
SAC10	380	Quantity		O	R 1/15	
CA C15	252	Numeric value of qua	antity	•	A NT 4 /00	
SAC15	352	Description		O	AN 1/80	
Margian 4010			60		т	DEVICED Mar. 2011

A free-form description to clarify the related data elements and their content

Segment: TXI Tax Information

Position: 237

Loop: IT1 Optional

Level: Detail
Usage: Optional
Max Use: 10

Purpose: To specify tax information

Syntax Notes: 1 At least one of TXI02 or 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: DLC Use: Required as follows-

State sales tax does not apply to tax exempt accounts

STAS is not a sales tax but is a tax on ratethis state tax is applicable to ALL accounts

Data Element Summary

Ref.	Data	_	Julia Ziemeni Summui y	I	Base	User
Des.	Element	<u>Name</u>		Att	<u>ributes</u>	Attributes
TXI01	963	Tax Type Code		M	ID 2/2	M
		Code specifying the t	type of tax			
		GR	Gross Receipts Tax			
		SP	State/Provincial Tax			
			State tax levied which excludes sa	ales c	or excise taxe	es
			State Tax Adjustment Surcharge	(STA	.S)	
		ST	State Sales Tax			
TXI02	782	Monetary Amount		M	R 1/18	M
		Monetary amount				
TXI03	954	Percent		O	R 1/10	
		Percentage expressed	l as a decimal			
		Present as a decimal,	e.g., 65% should be expressed as .	65		
TXI07	662	Relationship Code		M	ID 1/1	M
		Code indicating the r	elationship between entities			
		A	Add			
			Tax amount in TXI02 is added in	to the	e TDS01 inv	oice total
		O	Information Only			
			Charges which relate to but may unit price of the SLN. (i.e., comp			

usage amounts)

Tax amount in TXI02 is not added into the TDS01 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).

Comments:

Notes: DLC Use: Required

TDS01 is the total amount due for this invoice and equals the algebraic sum of the

amounts in the TXI02 and SAC05 segments If the total is negative, the minus sign is sent This amount includes any previous balances owed

Data Element Summary

 Ref.
 Data
 Base
 User

 Des.
 Element
 Name
 Attributes
 Attributes

 TDS01
 610
 Amount
 M N2 1/15
 M

Monetary amount

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

Position: 040

> SAC Optional Loop:

Level: Summary Usage: Optional

Max Use:

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 SAC03 is required.

If SAC01 is "A" or "C", then SAC05, is required. **Semantic Notes:**

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

Comments: SAC04 may be used to uniquely identify the service, promotion, allowance, or

charge..

DLC Use: Required for invoice level charges, including Prior Balance, if applicable **Notes:**

Data Element Summary								
Ref.	Data			Ba	ase	User		
Des.	Element	<u>Name</u>			<u>ibutes</u>	<u>Attributes</u>		
SAC01	248	Allowance or Charg			ID 1/1	M		
		Code which indicates	s an allowance or charge for the ser	vice s _l	pecified			
		A	Allowance					
		C	Charge					
		N	No Allowance or Charge					
			The amount in the SAC05 should invoice total.	be igr	nored when	summing the		
SAC03	559	Agency Qualifier Co	ode	M	ID 2/2	M		
		Code identifying the	agency assigning the code values					
		EU	Electric Utilities					
			Use this code until the DM for co approved.	de UT	to indicate	the UIG is		
SAC04	1301		omotion, Allowance, or Charge	M	AN 1/10	M		
		Code	ada idantifyina tha samilaa muomat	ion of	110,,,,,,,,,	u ahawaa		
		Agency maintained code identifying the service, promotion, allowance, or charge						
		The Utility Industry Group maintains this code list.						
		details.	web site at http://www.uig.org or contact a UIG member for implementation rent listing of codes will be available on the web site.					
		MSC001	Miscellaneous Charge - See SAC15 (Budget Number)					
		BUD001	Budget Amount – See SAC15 (Budget Amount)					
		LPC000	Late Charge After Due Date – See	e SAC	15 (LPC P	ercent)		
SAC05	610	Amount		M	N2 1/15	M		
		Monetary amount						
		The amount will be a	ppropriately signed.					
		SAC01 is not to be used to determine the sign of the value in SAC05.						
SAC13	127	Reference Identifica		X	AN 1/30			
			on as defined for a particular Transa					
		Set or as specified by	the Reference Identification Quali	fier				
SAC15	352	Description		0	AN 1/80			
SACIS	J34	-	. 1 10 1 1 1 1 1	_	AN 1/00			

A free-form description to clarify the related data elements and their content

Segment: TXI Tax Information

Position: 050

Loop: IT1 Optional

Level: Summary
Usage: Optional
Max Use: 10

Purpose: To specify tax information

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

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

2 TXI03 is the tax percent expressed as a decimal.

Comments:

Notes: DLC Use: Required as follows-

State sales tax does not apply to tax exempt accounts

STAS is not a sales tax but is a tax on ratethis state tax is applicable to ALL accounts

			Butu Biement Summary			
Ref.	Data]	Base	User
Des.	Element	Name		Att	<u>ributes</u>	<u>Attributes</u>
TXI01	963	Tax Type Code		M	ID 2/2	M
		Code specifying the	type of tax			
		GR	Gross Receipts Tax			
		ST	State Sales Tax			
TXI02	782	Monetary Amount		M	R 1/18	M
		Monetary amount				
TXI03	954	Percent		O	R 1/10	
		Percentage expresse	ed as a decimal			
	Present as a decimal, e.g., 65% should be expressed as .65					

Segment: CTT Transaction Totals

Position: 070

Loop:

Level: Summary Usage: Optional

Max Use:

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

Syntax Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness

and correctness.

Notes: DLC Use: Required

Data Element Summary

Ref.DataBaseUserDes.ElementNameAttributesAttributesCTT01354Number of Line ItemsMN0 1/6M

Total number of line items in the transaction set

The number of IT1 segments

Segment: ${\bf SE}$ 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: DLC Use: Required

Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Base <u>Attributes</u> M N0 1/10		User <u>Attributes</u> M	
		Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	\mathbf{M}	AN 4/9	M	
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				