# Massachusetts Electronic Business Transactions Standard

For

# Electronic Data Interchange

TRANSACTION SET

810

Usage and Billing Invoice
Ver/Rel 004010

**Outbound to Energy Supplier** 

#### **Summary of Changes**

MARCH 29, 1999

Initial Release - Version 99.1

JULY 14, 2004

- Added Billed Determinants to the MEA Segments in the MEA\*01 element field.
- Added the DUNS + 4 option to the N1\*SJ segment.

DECEMBER 3, 2013

- Added possible values for REFBE Business Activity Code
- Removed notes for use of NTE and PID segments.

November 4, 2015 Version 2.0

• Updates in support of POR

January 30, 2024 Version 2.1

- Incorporated CC 020
- Added notes on SAC04 that Late Payment Charges (LPC001), Supplier Arrears (PRB001) not included when calculating POR
- Incorporated CC 025
  - o Added REF\*KY for net meter indicator for Eversource
- Incorporated CC 029
  - o Added back the REF\*QY segment
- Incorporated CC 030
  - o remove the K2 code, which represents kVAR and add the K4 code, which is the proper representation for kVA

## **Purpose**

This Massachusetts EBT Implementation Standard contains the format and establishes the data contents of the Usage and Billing Transaction Set (810) as prescribed by the EBT for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set will be used to provide a detailed statement of usage and billing charges due for utility services for a customer account.

#### **Notes**

This Implementation Guideline was designed to address the business processes that occur between a local distribution utility (LDC) and a third-party energy service provider (ESP) in a deregulated, alternative energy supply environment.

The principal parties involved in this Transaction Set 810 implementation are:

- The utility (Code 8S) which provides services to the end use customer on behalf of the ESP
- The ESP (Code SJ) which supplies energy to the end use customer
- The end use customer (Code 8R)

The primary processes addressed by this Transaction Set 810 are:

- Advising the ESP of metered consumption by the customer
- Advising the ESP of amounts billed by the utility on the ESP's behalf

# 810 Invoice Best Practices

#### **Global Best Practices**

#### Use of ZZ Qualifier

• The use of data fields to transmit uncoded or textual information should be avoided. This practice is usually associated with the use of the ZZ qualifier as a normal course of doing business.

#### 997 - Functional Acknowledgment

• □The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document. For example, the acceptance of a purchase order (850) is accomplished through the use of the purchase order acknowledgment transaction (855).

#### **Interchange Control Number**

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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.

#### Use of Dun & Bradstreet (D-U-N-S) Number

• □Dun & Bradstreet assigns a nine-digit identification number to every business entity. This number, known as the D-U-N-S number, should be used to identify the trading partners. A trading partner may append a four-digit suffix to the D-U-N-S number to uniquely identify a specific location within the entity; this number is referred to as a D-U-N-S + 4 number

#### **Banking Transactions**

• Guidelines that outline the use of transactions relating to interactions between a sender and the sender's financial institution are available from the Bankers EDI Council and the NACHA EDI Council. Other publications that address the use of financial payment transactions include Technical Report 1 (TR1) and Technical Report 2 (TR2); both of these publications are available from DISA.

#### Capitalization

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

## **Document-Specific Best Practices**

#### **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. Massachusetts Electric's account structure allows for only one service per account number. Therefore, the Supplier will receive a separate 810 usage or usage and billing transaction per customer account.
- □Each 810 usage or usage and billing transaction can have a maximum of two IT1 Loops. The first IT1 Loop will contain the ACCOUNT level charge/credit information that is not attributed to the specific meter or service and will have the literal 'ACCOUNT' in the IT109 field. The second IT1 Loop will contain the usage information for the account and will have either the literal 'METER' or 'UNMET' in the IT109 field.

(Note: Each 810 Transaction Set will have a maximum of two IT1 Segments).

#### **Use of the MEA Segment**

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

#### **Definitions for MEA07 Measurement Significance Codes**

• □The metering characteristics of the utility industry require measurement definitions in addition to those found in Data Element 935, Measurement Significance Code. The UIG has submitted data maintenance (DM) requests to have these additional definitions added to DE 935 in a future version of the X12 standards. In order to provide these measurement definitions for version 4010 implementations, the UIG has provided UIG-specific definitions for valid DE 935 codes. To assist application developers, who may wish to include the requested future codes in their application logic, the list of non-standard definitions found in MEA07 includes references to the requested codes.

#### Use of the Detail IT1/REF Segment, Position 120

• This segment is used only when the IT1 loop is used to present account information. Trading partners using the meter model (where an IT1 conveys meter charges and usage) should provide the account reference information in the Header REF, position 050.

#### **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. If and when the 810 are revised to permit more than 25 IT1/SAC loops, this 810 Guideline will be revised to remove the SLN segment.

#### Values in Element SAC01 and SAC05

• □ Previous editions of this guideline stated that the amount shown in SAC05 will always be positive and that the code used in SAC01 will indicate whether to add or subtract the SAC05 amount to or from the TDS. As a result of a clarification provided by X12F, it has been determined that the above statement is incorrect; future versions of the UIG guidelines will no longer contain the above statement. The code used in SAC01 does not indicate the sign of the amount in SAC05. The amount shown in SAC05 may be either positive or negative; if negative, the minus sign, " – ", must be transmitted.

Trading partners who have implemented the former guidance regarding SAC01 and SAC05 may continue to follow that guidance or may elect to revise their implementation to conform to the current guidance. New implementations should follow the guidance contained herein.

# 810 Invoice

# Functional Group ID= $\overline{IN}$

#### **Heading:**

	Pos.	Seg.		Req.		Loop
	<u>No.</u>	<u>ID</u>	<u>Name</u>	Des.	Max.Use	<u>Repeat</u>
M	010	ST	Transaction Set Header	M	1	
M	020	BIG	Beginning Segment for Invoice	M	1	
Must Use	050	REF	Reference Identification - Activity Code	O	1	
Must Use	050	REF	Reference Identification - Billing Option	O	1	
	050	REF	Reference Identification - Billing Cycle	O	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Distribution Company	О	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Supplier	0	1	
Widst Osc	070	111	Tunic Supplier	0	1	
Must Use	140	DTM	Date/Time Reference - Billing Date	O	1	

#### **Detail:**

	Pos.	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>
			LOOP ID - IT1			200000
Must Use	010	IT1	Baseline Item Data (Invoice)	O	1	
	040	TXI	Tax Information - Current Sales Tax	O	1	
	059	MEA	Measurements - Total Non TOU	O	1	
	059	MEA	Measurements - Peak kwh	O	1	
	059	MEA	Measurements - Peak kw	O	1	
	059	MEA	Measurements - Peak Kva	O	1	
	059	MEA	Measurements - Offpeak kwh	O	1	
	059	MEA	Measurements - Offpeak kw	O	1	
	059	MEA	Measurements - Offpeak Kva	O	1	
	059	MEA	Measurements - Shoulder kwh	O	1	
	059	MEA	Measurements - Shoulder kw	O	1	
	059	MEA	Measurements - Shoulder Kva	O	1	
	059	MEA	Measurements - Demand Value	O	1	
	059	MEA	Measurements - Number Non-Metered Units	O	1	
Must Use	120	REF	Reference Identification - Disco Account	O	1	
Must Use	120	REF	Reference Identification - Supplier Account	O	1	
	120	REF	Reference Identification - Type of Service	O	1	
	120	REF	Reference Identification - Supplier Rate	O	1	
	120	REF	Reference Identification - Service Identifier	O	1	
	120	REF	Reference Identification - Pricing Structure	O	1	
	120	REF	Reference Identification - Primary Metering	O	1	

			Indicator			
	128	REF	Reference Identification - Special Meter Configuration	О	1	
Must Use	150	DTM	Date/Time Reference - Current Read	O	1	
Must Use	150	DTM	Date/Time Reference - Previous Read	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Non TOU	О	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	0	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Peak	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Off-Peak	О	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	О	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Shoulder	О	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Demand	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Supplier Arrears	O	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Arrears Interest	О	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	0	1	
			LOOP ID - SLN			1
	200	SLN	Subline Item Detail - Current Customer Charge	О	1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O	1	

### **Summary:**

	Pos.	Seg.		Req.		Loop
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat
M	010	TDS	Total Monetary Value Summary	M	1	
	070	CTT	Transaction Totals	O	1	
M	080	SE	Transaction Set Trailer	M	1	

Segment: ST Transaction Set Header

**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: 1 The transaction set identifier (ST01) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code	Attrib M	outes ID 3/3
			Code uniquely identifying a Transaction Set 810 Invoice		
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the t functional group assigned by the originator for a transaction		ion 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.

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

3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI,

BIG10 is not used.

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

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
M	BIG01	373	Date		M	<b>DT 8/8</b>
			Date express	sed as CCYYMMDD		
M	BIG02	76	Invoice Nun	nber	M	AN 1/22
			Identifying n	number assigned by issuer		
			The Utility w	vill send a unique reference identifier.		
>>	BIG07	640	Transaction	Type Code	O	ID 2/2
			Code specify	Code specifying the type of transaction		
			BD	Statement of Balance Due		
			PR	Product (or Service)		

Segment: REF Reference Identification - Activity Code

**Position:** 050

Loop:

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

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

	Ref.	Data	Data	a Element Summary		
	Des.	<b>Element</b>	Name			utes
M	REF01	128	Reference Io	dentification Qualifier	M	ID 2/3
			Code qualify	ing the Reference Identification		
			$\mathbf{BE}$	Business Activity		
>>	REF02	127	Reference Id	lentification	X	AN 1/30
				formation as defined for a particular Transacthe Reference Identification Qualifier Normal On-Cycle Bill Cancellation Manual Bill Final Bill Off-Cycle Bill Balance Only Bill Estimated On-Cycle Bill Estimated Off-Cycle Bill Late Lead / Late Booked	ction Set o	or as

Segment: **REF** Reference Identification - Billing Option

**Position:** 050

Loop:

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

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

			Dutu	Element Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
$\mathbf{M}$	REF01	128	Reference Ide	entification Qualifier	M	ID 2/3
			Code qualifyir	ng the Reference Identification		
			BLT	Billing Type		
				Identifies whether the bill is consolid	lated by	the LDC or
				ESP or whether each party will rende	er their o	wn bill.
>>	REF02	127	Reference Ide	entification	X	AN 1/30
			Reference info	ormation as defined for a particular Transact	ion Set o	or as
			specified by th	ne Reference Identification Qualifier		
			DUAL	Each party bills the customer for its p	ortion.	
				(PASSTHROUGH BILLING)		
			LDC	LDC bills the customer. (COMPLET	E BILL	ING)

Segment: REF Reference Identification - Billing Cycle

**Position:** 050

Loop:

Level: Heading Usage: Optional ax Use: 1

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	cation Qualifier  Reference Identification	Attrib M	utes ID 2/3
			BF	Billing Center Identification		
				Billing Cycle. Cycle number when the rendered.	he billing	g will be
>>	REF02	127	Reference Identifi	cation	X	AN 1/30
				ion as defined for a particular Transact ference Identification Oualifier	ion Set o	or as

Segment: N1 Name - Distribution Company

**Position:** 070

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		Attrib	utes
M	N101	98	<b>Entity Identifier Code</b>		M	ID 2/3
			Code identifying an orgindividual	ganizational entity, a physical locatio	n, prop	erty or an
			8S Co	onsumer Service Provider (CSP)		
			Ut	tility		
	N102	93	Name		X	AN 1/60
			Free-form name			
>>	N103	66	<b>Identification Code Q</b>	ualifier	X	ID 1/2
			Code designating the sy Code (67)	vstem/method of code structure used	for Ide	ntification
			1 D-	-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>		X	AN 2/80
			Code identifying a part	y or other code		

Segment: N1 Name - Supplier

**Position:** 070

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** 

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>
M	N101	98	<b>Entity</b> Identifier Co	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	n, prop	perty or an
			SJ	Service Provider		
				Identifies name and address information service provider for which billing is be		_
				Energy Service Provider		
	N102	93	Name		X	AN 1/60
			Free-form name			
>>	N103	66	<b>Identification Code</b>	Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>	•	X	AN 2/80
			Code identifying a p	arty or other code		

Segment: DTM Date/Time Reference - Billing Date

**Position:** 140

Loop:

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

			_ ******	,		
	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
M	DTM01	374	Date/Time Qualifie	er	M	ID 3/3
			Code specifying typ	e of date or time, or both date and time		
			434	Statement		
				Date on which billing document was o	reated	
>>	DTM05	1250	Date Time Period	Format Qualifier	X	ID 2/3
			Code indicating the	date format, time format, or date and time	me fori	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	<b>DTM06</b>	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date	e, a time, or range of dates, times or date	es and t	times

Segment: IT1 Baseline Item Data (Invoice)

**Position:** 010

**Loop:** IT1 Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use:

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

**Syntax Notes:** 

- 1 If any of IT102 IT103 or IT104 is present, then all are required.
- 2 If either IT106 or IT107 is present, then the other is required.
- 3 If either IT108 or IT109 is present, then the other is required.
- 4 If either IT110 or IT111 is present, then the other is required.
- 5 If either IT112 or IT113 is present, then the other is required.
- 6 If either IT114 or IT115 is present, then the other is required.
- 7 If either IT116 or IT117 is present, then the other is required.
- 8 If either IT118 or IT119 is present, then the other is required.
- 9 If either IT120 or IT121 is present, then the other is required.
- 10 If either IT122 or IT123 is present, then the other is required.
- 11 If either IT124 or IT125 is present, then the other is required.

# **Semantic Notes:** Comments:

- 1 IT101 is the purchase order line item identification.
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

The typical usage of the IT1 entails including all usage and charges attributed to one meter; in this case, the IT1 loop is qualified with "METER" in the IT108/IT109 pair. In the case where some charges are not attributed to a specific meter, for example, basic customer charge or late payment charge the IT1 loop is qualified with "ACCOUNT" in the IT108/IT109 pair. An 810 invoice may contain both "METER" and "ACCOUNT" IT1 loops.

A Meter IT1 loop can be mapped differently, depending on whether Time-of-Use (TOU) or straight meter measurement is employed. With a TOU measurement, multiple MEA segments will convey the usage, with the MEA07 in each MEA providing the TOU classification. The IT1 loop for a non-TOU or straight meter measurement will contain a single MEA segment with no MEA07.

#### **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	Name		<u>Attributes</u>	
>>	IT101	350	Assigned Identification	O	AN 1/20	
			Alphanumeric characters assigned for differentiation within	n a tran	saction set	
			Line item counter			
>>	IT106	235	Product/Service ID Qualifier	X	ID 2/2	
			Code identifying the type/source of the descriptive number Product/Service ID (234)  SV Service Rendered	r used in	1	
>>	IT107	234	Product/Service ID	$\mathbf{X}$	AN 1/48	
			Identifying number for a product or service ELECTRIC			
>>	IT108	235	Product/Service ID Qualifier	$\mathbf{X}$	ID 2/2	
			Code identifying the type/source of the descriptive number Product/Service ID (234)	r used ir	1	

17

			C3	Classification		
>>	IT109	234	Product/Service II	)	X	AN 1/48
			Identifying number for a product or service			
			ACCOUNT	Account Model		
			METER	Meter Model		
			UNMET	Unmetered Services		
D	IT110	235	Product/Service II	O Qualifier	X	ID 2/2
			Code identifying the Product/Service ID	ed in		
				re used only if IT109 = METER		
			MB	Measurement Type Code		
D	IT111	234	Product/Service II	D	X	AN 1/48
			Identifying number	for a product or service		
			NT	Non-Time of Use Measurement		
			TOU	Time of Use Measurement		
>>	IT112	235	Product/Service II	O Qualifier	X	ID 2/2
			Product/Service ID			
				re used to indicate that consumption will be gs will not be provided.	e pro	vided but the
			EQ	Equipment Type		
>>	IT113	234	Product/Service II	O	X	AN 1/48
			Identifying number	for a product or service		
			NR = No reads will	be presented		
			NR	No Reads		

Segment: TXI Tax Information - Current Sales Tax

**Position:** 040

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify tax information

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

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

3 If TXI08 is present, then TXI03 is required.

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

2 TXI03 is the tax percent expressed as a decimal.

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

segment.

**Comments:** 

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>
M	TXI01	963	Tax Type Code		$\mathbf{M}$	ID 2/2
			Code specifying the	type of tax		
			Use any valid Data l partners.	Element 963 codes as mutually agreed	betwee	n the trading
			SU	Sales and Use Tax		
				Tax on Equipment and Service provide	led	
>>	TXI02	782	<b>Monetary Amount</b>		X	R 1/18
			Monetary amount			
>>	<b>TXI07</b>	662	<b>Relationship Code</b>		0	<b>ID</b> 1/1
			Code indicating the	relationship between entities		
			A	Add		
				The amount in TXI02 should be added the invoice total.	d when	summing

Segment: MEA Measurements - Total Non TOU

**Position:** 059

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
	MEA01	737	Measurement Ref	Measurement Reference ID Code		ID 2/2
			Code identifying th	ne broad category to which a measurem	ent appli	ies
			AA	Meter reading-beginning actual/endir	ng actua	1
			AE	Meter reading-beginning actual/endin	ng estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement Val	E	X	R 1/20
			The value of the me	easurement		
	MEA04	C001	Composite Unit of	f Measure	X	
			To identify a comp of use)	osite unit of measure (See Figures App	oendix fo	or examples
$\mathbf{M}$	C00101	355	· · · · · · · · · · · · · · · · · · ·	Measurement Code	$\mathbf{M}$	ID 2/2
			Code specifying the which a measurement KH	e units in which a value is being expresent has been taken Kilowatt Hour	sed, or n	nanner in
>>	<b>MEA07</b>	935	Measurement Sign	nificance Code	O	ID 2/2
			Code used to bench	nmark, qualify or further define a measu	ırement	value
			51	Total		

MEA Measurements - Peak kwh **Segment:** 

**Position:** 059

> Loop: IT1 Optional (Must Use)

Level: Detail Usage: Optional Max Use: 1

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

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

**Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

> If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required.

If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or **Comments:** any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

			Duta Li	ement summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attril</u>	<u>outes</u>
	MEA01	737	Measurement Reference ID Code		O	ID 2/2
			Code identifying	g the broad category to which a measurem	nent appl	ies
			AA	Meter reading-beginning actual/endi	ing actua	.1
			AE	Meter reading-beginning actual/endi	ing estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement V	E	X	R 1/20
			The value of the	measurement		
	MEA04	C001	Composite Uni	t of Measure	X	
			To identify a corof use)	mposite unit of measure (See Figures Ap	pendix f	or examples
$\mathbf{M}$	C00101	355	Unit or Basis fo	or Measurement Code	M	ID 2/2
				the units in which a value is being expresement has been taken Kilowatt Hour	ssed, or 1	nanner in
>>	<b>MEA07</b>	935	Measurement S	Significance Code	O	ID 2/2
			Code used to be	nchmark, qualify or further define a meas	urement	value
			42	On Peak		

Segment: MEA Measurements - Peak kw

**Position:** 059

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
	MEA01	737	Measurement Refe	erence ID Code	O	ID 2/2
			Code identifying th	e broad category to which a measurem	ent appl	ies
			AA	Meter reading-beginning actual/endi	ng actua	1
			AE	Meter reading-beginning actual/endi	ng estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement Val	ue	X	R 1/20
			The value of the me	easurement		
	MEA04	C001	<b>Composite Unit of</b>	Measure	$\mathbf{X}$	
			To identify a composition of use)	osite unit of measure (See Figures App	endix fo	or examples
M	C00101	355	/	Aeasurement Code	$\mathbf{M}$	ID 2/2
			Code specifying the which a measurement K1	e units in which a value is being expresent has been taken Kilowatt Demand	sed, or n	nanner in
				Represents potential power load mea predetermined intervals	sured at	
>>	MEA07	935	Measurement Sign	nificance Code	O	ID 2/2
			Code used to bench	mark, qualify or further define a measu	ırement	value
			42	On Peak		

MEA Measurements - Peak Kva **Segment:** 

**Position:** 059

> Loop: IT1 Optional (Must Use)

Level: Detail Usage: Optional Max Use: 1

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

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

**Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

> 2 If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

1 **Comments:** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

			Data Lici	inchi Summai y		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
	MEA01 737		Measurement Re	ference ID Code	O	ID 2/2
			Code identifying t	the broad category to which a measuren	nent appl	ies
			AA	Meter reading-beginning actual/end	ing actua	.1
			AE	Meter reading-beginning actual/end	ing estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement Va	S	X	R 1/20
			The value of the n	neasurement		
	MEA04	C001	Composite Unit o	of Measure	X	
			To identify a compof use)	posite unit of measure (See Figures Ap	pendix fo	or examples
$\mathbf{M}$	C00101	355	Unit or Basis for	Measurement Code	M	ID 2/2
				he units in which a value is being expre nent has been taken Kilovolt Amperes	essed, or r	nanner in
				Measure of electrical power		
>>	<b>MEA07</b>	935	Measurement Sig	gnificance Code	O	ID 2/2
			Code used to benc	chmark, qualify or further define a meas	surement	value
			42	On Peak		

Segment: MEA Measurements - Offpeak kwh

**Position:** 059

Dof

Doto

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attr</u> i	<u>ibutes</u>
	MEA01	737	<b>Measurement Reference ID Co</b>	ode O	ID 2/2
			Code identifying the broad categories	gory to which a measurement app	olies
			AA Meter read	ing-beginning actual/ending actu	al
			AE Meter read	ing-beginning actual/ending estir	mated
			BO Meter Read	ding as Billed	
				billing charges are based on consor pre-established usage and no	
>>	MEA03	739	Measurement Value	X	R 1/20
			The value of the measurement		
	MEA04	C001	<b>Composite Unit of Measure</b>	X	
			To identify a composite unit of r of use)	measure (See Figures Appendix	for examples
$\mathbf{M}$	C00101	355	Unit or Basis for Measuremen	t Code M	ID 2/2
			Code specifying the units in whi which a measurement has been t KH Kilowatt H		manner in
>>	<b>MEA07</b>	935	<b>Measurement Significance Coo</b>	de O	ID 2/2
			Code used to benchmark, qualify	y or further define a measuremen	t value
			41 Off Peak		

Segment: MEA Measurements - Offpeak kw

**Position:** 059

**Comments:** 

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
	MEA01	737	Measurement Refer	rence ID Code	O	ID 2/2
			Code identifying the	broad category to which a measurement	ent appl	ies
			AA	Meter reading-beginning actual/endin	g actua	1
			AE	Meter reading-beginning actual/endin	ig estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage a usage		
>>	MEA03	739	Measurement Value	=	X	R 1/20
			The value of the mea	surement		
	MEA04	C001	<b>Composite Unit of I</b>	Measure	X	
			To identify a composition of use)	site unit of measure (See Figures App	endix fo	or examples
M	C00101	355	Unit or Basis for M	easurement Code	M	ID 2/2
			Code specifying the which a measuremen K1	units in which a value is being express at has been taken Kilowatt Demand	sed, or n	manner in
				Represents potential power load measuredetermined intervals	sured at	
>>	MEA07	935	Measurement Signi	ficance Code	O	ID 2/2
			Code used to benchn	nark, qualify or further define a measu	rement	value
			41	Off Peak		

Segment: MEA Measurements - Offpeak Kva

**Position:** 059

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
	MEA01	737	Measurement R	eference ID Code	O	ID 2/2
			Code identifying	the broad category to which a measurer	ment appl	ies
			AA	Meter reading-beginning actual/end	ding actua	ıl
			AE	Meter reading-beginning actual/end	ding estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are base agreements or pre-established usagusage		
>>	MEA03	739	Measurement V		X	R 1/20
			The value of the	measurement		
	MEA04	C001	Composite Unit of Measure		X	
			To identify a com of use)	nposite unit of measure (See Figures A	ppendix fo	or examples
M	C00101	355	Unit or Basis for	r Measurement Code	M	ID 2/2
				the units in which a value is being expro ment has been taken Kilovolt Amperes	essed, or r	nanner in
				Measure of electrical power		
>>	MEA07	935	Measurement Si	ignificance Code	O	ID 2/2
			Code used to ben	chmark, qualify or further define a mea	surement	value
			41	Off Peak		

MEA Measurements - Shoulder kwh **Segment:** 

**Position:** 059

> Loop: IT1 Optional (Must Use)

Level: Detail Usage: Optional Max Use: 1

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

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

**Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

> If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required.

If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or **Comments:** any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

			Duta	Acincia Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attril</u>	<u>outes</u>
	MEA01	737	Measurement Reference ID Code		O	ID 2/2
			Code identifyin	ng the broad category to which a measuren	nent appl	ies
			AA	Meter reading-beginning actual/end	ing actua	ıl
			AE	Meter reading-beginning actual/end	ing estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement	E	X	R 1/20
			The value of the	e measurement		
	MEA04	C001	Composite Un	it of Measure	X	
			To identify a coof use)	omposite unit of measure (See Figures Ap	pendix f	or examples
$\mathbf{M}$	C00101	355	Unit or Basis f	or Measurement Code	$\mathbf{M}$	ID 2/2
				g the units in which a value is being expre rement has been taken Kilowatt Hour	essed, or 1	manner in
>>	<b>MEA07</b>	935	Measurement	Significance Code	O	ID 2/2
			Code used to be	enchmark, qualify or further define a meas	surement	value
			66	Sales		

**Comments:** 

Segment: MEA Measurements - Shoulder kw

**Position:** 059

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
	MEA01	737	Measurement Ref	ference ID Code	O	ID 2/2
			Code identifying th	ne broad category to which a measurem	ent appl	ies
			AA	Meter reading-beginning actual/endi	ng actua	1
			AE	Meter reading-beginning actual/endi	ng estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement Val	lue	X	R 1/20
			The value of the m	easurement		
	MEA04	C001	Composite Unit o	f Measure	X	
			To identify a comp of use)	posite unit of measure (See Figures App	pendix fo	or examples
M	C00101	355	· · · · · · · · · · · · · · · · · · ·	Measurement Code	$\mathbf{M}$	ID 2/2
			Code specifying the which a measurem K1	e units in which a value is being expresent has been taken Kilowatt Demand	ssed, or n	manner in
				Represents potential power load mea predetermined intervals	sured at	
>>	<b>MEA07</b>	935	Measurement Sig	nificance Code	O	ID 2/2
			Code used to bench	hmark, qualify or further define a meas	urement	value
			66	Sales		

Segment: MEA Measurements - Shoulder Kva

**Position:** 059

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
	MEA01	737	Measurement Ro	eference ID Code	O	ID 2/2
			Code identifying	the broad category to which a measurer	ment appl	ies
			AA	Meter reading-beginning actual/end	ding actua	.1
			AE	Meter reading-beginning actual/end	ding estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are base agreements or pre-established usage usage		
>>	MEA03	739	Measurement Va	2	X	R 1/20
			The value of the r	neasurement		
	MEA04	C001	<b>Composite Unit</b>	of Measure	$\mathbf{X}$	
			To identify a com of use)	aposite unit of measure (See Figures Ap	ppendix fo	or examples
M	C00101	355	Unit or Basis for	Measurement Code	M	ID 2/2
				the units in which a value is being expression that has been taken Kilovolt Amperes	essed, or r	nanner in
				Measure of electrical power		
>>	<b>MEA07</b>	935	Measurement Si	gnificance Code	O	ID 2/2
			Code used to bene	chmark, qualify or further define a mea	surement	value
			66	Sales		

MEA Measurements - Demand Value **Segment:** 

**Position:** 059

**Comments:** 

Loop: IT1 Optional (Must Use)

Level: Detail Usage: Optional Max Use: 1

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

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

**Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

> If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required.

If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:** 1

MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	utes
MEA01	737	Measurement Ref	ference ID Code	O	ID 2/2	
			Code identifying tl	ne broad category to which a measurement	ent appli	les
			AA	Meter reading-beginning actual/endir	ng actual	
			AE	Meter reading-beginning actual/endir	ng estim	ated
			ВО	Meter Reading as Billed		
				Used when billing charges are based agreements or pre-established usage usage		
>>	MEA03	739	Measurement Val	E	$\mathbf{X}$	R 1/20
			The value of the m	easurement		
	MEA04	C001	Composite Unit o	f Measure	$\mathbf{X}$	
			To identify a compof use)	posite unit of measure (See Figures App	endix fo	or examples
M	C00101	355	Unit or Basis for l	Measurement Code	M	ID 2/2
			Code specifying the which a measurem K1	e units in which a value is being express ent has been taken Kilowatt Demand	sed, or n	nanner in
			K4	Represents potential power load mean predetermined intervals Kilovolt Amperes	sured at	
				Measure of electrical power		
>>	MEA07	935	Measurement Sig	_	o	ID 2/2
			_	hmark, qualify or further define a measu	rement	value
			62	Current		

Segment: MEA Measurements - Number Non-Metered Units

**Position:** 059

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
>>	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measur	ement applies
			BC Billed Actual	
>>	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures A of use)	Appendix for examples
M	C00101	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
			Code specifying the units in which a value is being exp which a measurement has been taken UN Unit	ressed, or manner in

Segment: REF Reference Identification - Disco Account

**Position:** 120

**Loop:** IT1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identif	•	Attrib M	outes ID 2/3
			12	ne Reference Identification Billing Account		
				Account number under which billing	is rende	ered
				Utility-assigned account number for customer.	the end	use
>>	REF02	127	Reference Identif	fication	X	AN 1/30
			Reference informa	ation as defined for a particular Transact	ion Set	or as

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

Segment: REF Reference Identification - Supplier Account

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

			2			
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identi	fication Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code qualifying t	he Reference Identification		
			11	Account Number		
				Number identifies a telecommunic	ations indu	stry account
				Energy Service Provider-assigned the end use customer.	account nu	imber for
>>	REF02	127	Reference Identi	fication	X	AN 1/30
				ation as defined for a particular Transa Reference Identification Qualifier	action Set o	or as

Segment: REF Reference Identification - Type of Service

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference	e Identification Qualifier	Attrib M	outes ID 2/3
			Code qual PRT	ifying the Reference Identification  Product Type		
>>	REF02	127	Reference	e Identification	X	AN 1/30
				information as defined for a particular Transaction y the Reference Identification Qualifier	n Set o	or as

Segment: REF Reference Identification - Supplier Rate

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	ration Qualifier Reference Identification	Attrib M	utes ID 2/3
			RB	Rate code number		
				Identifies an Energy Service Provider	rate cla	iss
>>	REF02	127	Reference Identific	eation	X	AN 1/30
				on as defined for a particular Transacti erence Identification Qualifier	on Set o	or as

35

Segment: REF Reference Identification - Service Identifier

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference	e Identification Qualifier	Attrib M	outes ID 2/3
			Code qua	lifying the Reference Identification		
			MG	Meter Number		
>>	REF02	127	Reference	e Identification	X	AN 1/30
				e information as defined for a particular Transaction by the Reference Identification Qualifier	on Set o	or as

36

Segment: REF Reference Identification - Pricing Structure

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	Ref.	Data		•		
M	Des. REF01	Element 128	<u>Name</u> Reference Identific	ation Qualifier	Attrib M	outes ID 2/3
			Code qualifying the	Reference Identification		
			PR	Price Quote Number		
				Identifies a unit pricing category under	er a rate	code
>>	REF02	127	Reference Identific	ation	X	AN 1/30
				on as defined for a particular Transaction of the control of the c	on Set o	or as

Segment: **REF** Reference Identification - Primary Metering Indicator

**Position:** 120

Loop: IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes:

	Ref.	Data		·		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
M	REF01	128	Reference Iden	tification Qualifier	M	ID 2/3
			Code qualifying	the Reference Identification		
			QY	Service Performed Code		
				Number indicating the type of servic a product	e perforr	ned to repair
>>	REF02	127	Reference Iden	tification	$\mathbf{X}$	AN 1/30
				nation as defined for a particular Transact Reference Identification Qualifier	tion Set o	or as

Segment:  ${f REF}$  Reference Identification - Special Meter Configuration

**Position:** 128

**Loop:** IT1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

#### **Data Element Summary**

	Kei.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	outes
M	REF01	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		

Code qualifying the Reference Identification

KY Site Specific Procedures, Terms, and Conditions

A set of procedures, terms, and conditions, applicable to a category of procurement emanating from a specific location, which will be incorporated into all procurement actions in that category by referencing its unique number rather than by incorporating the lengthy details it

represents

Special Meter Configuration (Net Meter)

#### REF02 127 Reference Identification

X AN 1/30

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

NETMETER

Net Meter is present on account

Segment: DTM Date/Time Reference - Current Read

**Position:** 150

Loop: IT1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

	Ref.	Data	Duta Biolife Summary		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>outes</u>
M	DTM01	374	Date/Time Qualifier	$\mathbf{M}$	ID 3/3
			Code specifying type of date or time, or both date and t	ime	
			151 Service Period End		
>>	DTM05	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date an	d time form	nat
			D8 Date Expressed in Format CCYYI	MMDD	
>>	<b>DTM06</b>	1251	<b>Date Time Period</b>	X	AN 1/35
			Expression of a date, a time, or range of dates, times or	dates and t	imes

Segment: DTM Date/Time Reference - Previous Read

**Position:** 150

Loop: IT1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** This segment is required for all services.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>utes</u>
M	DTM01	374	Date/Time Qualifi	er	M	ID 3/3
			Code specifying typ	pe of date or time, or both date and time		
			150	Service Period Start		
				Recommended by UIG		
>>	<b>DTM05</b>	1250	<b>Date Time Period</b>	Format Qualifier	X	ID 2/3
			Code indicating the	date format, time format, or date and tin	ne form	nat
			D8	Date Expressed in Format CCYYMMI	DD	
>>	DTM06	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date	e, a time, or range of dates, times or dates	s and t	imes

Segment: SLN Subline Item Detail - Non TOU

**Position:** 200

Loop: SLN Optional

Level: Detail
Usage: Optional
ax Use: 1

Max Use: Purpose:

To specify product subline detail item data

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

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- 11 If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- 1 SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

- 1 See the Data Element Dictionary for a complete list of IDs.
- 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** 

Ref

Data

The IT1/SLN segment is used to overcome the limitation on the number of IT1/SAC loops.

Each SLN loop will contain only one SAC and TXI. Multiple charges/allowances require multiple SLN loops.

M	Des. SLN01	Element 350	Name Assigned Identification	Attrib M	outes AN 1/20	
			Alphanumeric characters assigned for differentiation with	hin a tran	saction set	
			Used as a loop counter			
M	SLN03	662	Relationship Code	M	ID 1/1	
			Code indicating the relationship between entities			
			A Add			

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

- 2 If either SAC03 or SAC04 is present, then the other is required.
- 3 If either SAC06 or SAC07 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.
- 5 If SAC11 is present, then SAC10 is required.
- **6** If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- 7 If SAC14 is present, then SAC13 is required.
- **8** If SAC16 is present, then SAC15 is required.

#### **Semantic Notes:**

- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.
- 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

  SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- **6** SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- SAC16 is used to identify the language being used in SAC15.

#### **Comments:**

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" Dollars in SAC09.

**Notes:** 

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
M	SAC01	248	Allowance or Cha	rge Indicator	M	ID 1/1
			Code which indicate	tes an allowance or charge for the service	e specif	ied
			C	Charge		
				The amount in SAC05 should be adde	ed when	summing
				the invoice total.		
	SAC03	559	Agency Qualifier	Code	X	ID 2/2
			Code identifying th	ne agency assigning the code values		
			EU	Electric Utilities		
				Use this code until the DM for "UT"	code is a	approved.
>>	SAC04	1301	Agency Service, P	romotion, Allowance, or Charge Cod	e X	AN 1/10
			Agency maintained	d code identifying the service, promotion	ı, allowa	ance, or

charge

The Utility Industry Group maintains this code list. See the UIG web site at http://www.uig.org or contact a UIG member for implementation details. The most current listing of codes will be available on the web site.

ENC001 Energy Charges

>> SAC05 610 Amount O N2 1/15

Monetary amount

The SAC01 will indicate whether to add or subtract from the TDS.

SLN Subline Item Detail - Current Peak **Segment:** 

200 **Position:** 

> **SLN** Loop: Optional

Level: Detail Optional Usage: 1

Max Use:

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

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

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

- See the Data Element Dictionary for a complete list of IDs.
- 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
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
171	SLINUI	330	Alphanumeric characters assigned for differentiation w		
				iuiiii a u aiii	Saction Set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

Dag

**Semantic Notes:** 

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" Dollars in SAC09.

**Notes:** Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

M	Ref. <u>Des.</u> SAC01	Data Element 248	Name Allowance or Char	S	Attrib M	ID 1/1
			Code which indicate	es an allowance or charge for the service	e specif	fied
			C	Charge		
				The amount in SAC05 should be adde the invoice total.	d when	summing
	SAC03	559	Agency Qualifier (	Code	$\mathbf{X}$	ID 2/2
			Code identifying the	e agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge Code	e X	AN 1/10
			Agency maintained charge	code identifying the service, promotion	, allow	ance, or

O N2 1/15

ENC037 Peak Charge >> SAC05 610 Amount

.

Monetary amount

SLN Subline Item Detail - Current Off-Peak **Segment:** 

200 **Position:** 

> **SLN** Loop: Optional

Level: Detail Optional Usage: 1

Max Use: **Purpose:** 

To specify product subline detail item data

**Syntax Notes:** 

- If either SLN04 or SLN05 is present, then the other is required.
- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Ref

Data

- See the Data Element Dictionary for a complete list of IDs.
- 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
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

	Kei.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>outes</u>
M	SLN01	350	Assigned Identification	M	AN 1/20
			Alphanumeric characters assigned for differentiation wi	thin a tran	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

**Semantic Notes:** 

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

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

**Notes:** 

Dag

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

M	Des. SAC01	Element 248	Name Allowance or Char	ge Indicator es an allowance or charge for the service	Attrib M	ID 1/1
			C C	Charge	c specif	iled
				The amount in SAC05 should be adde the invoice total.	d when	summing
	SAC03	559	Agency Qualifier C	Code	X	ID 2/2
			Code identifying the	agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge Code	e X	AN 1/10
			Agency maintained charge	code identifying the service, promotion	, allow	ance, or

O N2 1/15

ENC003 Off Peak Charge
>> SAC05 610 Amount

Monetary amount

Segment: SLN Subline Item Detail - Current Shoulder

**Position:** 200

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: Syntax Notes:

To specify product subline detail item data

1 If either SLN04 or SLN05 is present, then the other is required.

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- 11 If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- 1 SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

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

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
IVI	SLINUI	330			
			Alphanumeric characters assigned for differentiation w	ithin a trans	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

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

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

**Notes:** 

Dag

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

M	Des. SAC01	Element 248	Name Allowance or Char	ge Indicator es an allowance or charge for the service	Attrib M	ID 1/1
			C C	Charge	c speci	iled
				The amount in SAC05 should be adde the invoice total.	d when	summing
	SAC03	559	Agency Qualifier C	Code	X	ID 2/2
			Code identifying the	e agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained charge	code identifying the service, promotion	, allow	ance, or

O N2 1/15

ENC038 Shoulder Charge >> SAC05 610 Amount

Monetary amount

SLN Subline Item Detail - Current Demand **Segment:** 

200 **Position:** 

> **SLN** Loop: Optional

Level: Detail Optional Usage: 1

Max Use:

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

**Syntax Notes:** 

- If either SLN04 or SLN05 is present, then the other is required.
- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

- See the Data Element Dictionary for a complete list of IDs.
- 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
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
			Alphanumeric characters assigned for differentiation with	thin a trans	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

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

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

**Notes:** 

Dag

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

M	Des. SAC01	Element 248	Name Allowance or Char	ge Indicator es an allowance or charge for the service	Attrib M	ID 1/1
			C C	Charge	с вресп	ied
				The amount in SAC05 should be adde the invoice total.	d when	summing
	SAC03	559	Agency Qualifier C	Code	X	ID 2/2
			Code identifying the	e agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge Code	e X	AN 1/10
			Agency maintained charge	code identifying the service, promotion	, allow	ance, or

O N2 1/15

SLN Subline Item Detail - Supplier Arrears **Segment:** 

200 **Position:** 

> **SLN** Loop: Optional

Level: Detail Optional Usage: 1

Max Use:

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

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

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

Data

- See the Data Element Dictionary for a complete list of IDs.
- 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
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
			Alphanumeric characters assigned for differentiation with	thin a trans	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	<b>ID</b> 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

**Semantic Notes:** 

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

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

**Notes:** 

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

PRB00 not included for POR

M	Ref. <u>Des.</u> SAC01	Data Element 248	Name Allowance or Cha Code which indicat	rge Indicator tes an allowance or charge for the service	Attrib M	ID 1/1
			C	Charge	•	
				The amount in SAC05 should be adde the invoice total.	d when	summing
	SAC03	559	<b>Agency Qualifier</b>	Code	X	ID 2/2
			Code identifying th	e agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, P	romotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained	l code identifying the service, promotion	, allow	ance, or

charge

PRB001 Past Due Balance

Not included for POR

>> SAC05 610 Amount O N2 1/15

Monetary amount

Segment: SLN Subline Item Detail - Arrears Interest

**Position:** 200

Loop: SLN Optional

Level: Detail Usage: Optional

Max Use: 1

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

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

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required.
- 7 If either SLN15 or SLN16 is present, then the other is required.
- 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- 11 If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

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

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
IVI	SLINUI	330			
			Alphanumeric characters assigned for differentiation w	ithin a trans	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

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

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

**Notes:** 

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

LPC001 not included for POR

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>
M	SAC01	248	Allowance or Char	rge Indicator	M	ID 1/1
			Code which indicat	es an allowance or charge for the service	e speci	fied
			C	Charge		
				The amount in SAC05 should be adde the invoice total.	d when	n summing
	SAC03	559	Agency Qualifier (	Code	$\mathbf{X}$	ID 2/2
			Code identifying th	e agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	romotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained	code identifying the service, promotion	, allow	ance, or

charge

LPC001 Late Payment Charge

Not included for POR

>> SAC05 610 Amount O N2 1/15

Monetary amount

SLN Subline Item Detail - Current Customer Charge **Segment:** 

200 **Position:** 

> **SLN** Loop: Optional

Level: Detail Optional Usage: Max Use: 1

**Purpose:** 

To specify product subline detail item data

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

- 2 If SLN07 is present, then SLN06 is required.
- 3 If SLN08 is present, then SLN06 is required.
- 4 If either SLN09 or SLN10 is present, then the other is required.
- 5 If either SLN11 or SLN12 is present, then the other is required.
- 6 If either SLN13 or SLN14 is present, then the other is required. 7
- If either SLN15 or SLN16 is present, then the other is required. 8 If either SLN17 or SLN18 is present, then the other is required.
- 9 If either SLN19 or SLN20 is present, then the other is required.
- 10 If either SLN21 or SLN22 is present, then the other is required.
- If either SLN23 or SLN24 is present, then the other is required.
- 12 If either SLN25 or SLN26 is present, then the other is required.
- 13 If either SLN27 or SLN28 is present, then the other is required.

#### **Semantic Notes:**

- SLN01 is the identifying number for the subline item.
- SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

#### **Comments:**

Dof

- See the Data Element Dictionary for a complete list of IDs.
- 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
- 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

M	Des. SLN01	Element 350	Name Assigned Identification	<u>Attrib</u> M	outes AN 1/20
IVI	SLINUI	330			
			Alphanumeric characters assigned for differentiation w	ithin a trans	saction set
			Used as a loop counter		
M	SLN03	662	Relationship Code	M	ID 1/1
			Code indicating the relationship between entities		
			A Add		

**Position:** 230

Loop: SLN Optional

Level: Detail
Usage: Optional
Max Use: 1

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

or percentage for the service, promotion, allowance, or charge

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

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

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

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

5 If SAC11 is present, then SAC10 is required.

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

7 If SAC14 is present, then SAC13 is required.

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

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

2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

3 SAC08 is the allowance or charge rate per unit.

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

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

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

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

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

**Comments:** 

**Semantic Notes:** 

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

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

**Notes:** 

Each SLN loop will contain only one SAC an TXI. Multiple charges/allowances require multiple SLN loops.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>utes</u>
M	SAC01	248	Allowance or Char	ge Indicator	M	ID 1/1
			Code which indicate	es an allowance or charge for the service	e speci	fied
			C	Charge		
				The amount in SAC05 should be adde	d when	summing
				the invoice total.		
	SAC03	559	<b>Agency Qualifier C</b>	Code	X	ID 2/2
			Code identifying the	agency assigning the code values		
			EU	Electric Utilities		
>>	SAC04	1301	Agency Service, Pr	omotion, Allowance, or Charge Code	X	AN 1/10
			Agency maintained charge	code identifying the service, promotion	, allow	ance, or

BAS001 Basic Customer Administrative Charges

>> SAC05 610 Amount O N2 1/15

Monetary amount

TDS Total Monetary Value Summary **Segment:** 

**Position:** 

Loop:

Level: Summary Usage: Mandatory

Max Use:

Def

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

**Syntax Notes: Semantic Notes:** 

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

- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- TDS04 indicates the total amount of terms discount.

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

**Notes:** TDS01 is the total amount due for this invoice and must equal the algebraic sum of the

amounts in the TXI02 and SAC05 segments. If this amount is negative, send the minus

sign.

Data

#### **Data Element Summary**

	Kei.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attribute</u>	<u>es</u>
M	TDS01	610	Amount	M N	12 1/15

Monetary amount

Segment: CTT Transaction Totals

**Position:** 070

Loop:

Level: Summary
Usage: Optional
Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

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

**Semantic Notes:** 

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

and correctness.

#### **Data Element Summary**

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	utes
M	CTT01	354	<b>Number of Line Items</b>	M	N0 1/6
			Total number of line items in the transaction set		

The number of IT1 segments.

Segment: **SE** Transaction Set Trailer

**Position:** 080

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes: Semantic Notes:

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

M	Ref. Des. SE01	Data Element 96	Name Number of Included Segments	Attrib M	outes NO 1/10
			Total number of segments included in a transaction set included segments	luding S	T and SE
M	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio		ion set

# MASSACHUSETTS Electronic Business Transactions Standard

For

## Electronic Data Interchange

**TRANSACTION SET** 

**814 Change** Request / Response

Ver/Rel 004010

#### **Summary of Changes**

#### August 2, 1999

• Initial Release – Version 99.1

April 15, 2002

- Added REF\*LO Segment for Load Profile Codes
- Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
- Sequenced the Segments to agree with the UIG Guides
- Added Status reason code tables to REF\*7G Segment
- Added/or changes some data element descriptions for clarification
- Removed REF\*RB REF02 element table description that didn't pertain to MA

June 30, 2004

- Added Service Address N3 and N4 segments for MOVE transaction.
- Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
- Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
- Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
- Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. REF\*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE. (Remember that an ICAP VALUE can be zero as a valid

value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

January 14, 2015

Separated into own document.

January 20, 2015

Added REF03 to REF\*PRT for Net Meter Indicator

 Added REF03 to REF\*TD in NM1 loop to allow for description of change in support of Net Metering.

October 26, 2015

- Administrative corrections/updates
- Added new segment REF\*KY in support of Net Metering.

November 4, 2015 Version 2.0 Final Release

January 31, 2024 Version 2.1

- Incorporated CC 026
  - clarify the requirements for the N101 value for the N1\*8R segment
- Incorporated CC 032
  - add Rejection Response Code DIV (Date Invalid).
     Example: REF\*7G\*DIV.
- Incorporated CC 033
  - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response
- Incorporated CC 034
  - add REF\*1J segment as optional and sent by Eversource West as the Load Asset Id assigned to the Supplier by ISO New England
  - add REF02 REF1J Change ISO Asset Identifier value to REF\*TD
- Incorporated CC 035
  - Addition of AMT\*FW Segment for supplier fixed charge for Eversource Omni

### 814 General Request, Response or Confirmation

Functional Group ID=GE

#### **Heading:**

M	Pos. <u>No.</u> 010	Seg. ID ST	Name Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	О	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	О	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	О	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Old Customer Name	0	1	

#### **Detail:**

	Pos.	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	О	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	О	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Rejection Reason	О	>1	
	030	REF	Reference Identification - Reason For Change	О	>1	
	030	REF	Reference Identification - STD Point Location Code	O	>1	
	030	REF	Reference Identification - Current Budget Billing Status	О	>1	

	038	REF	Reference Identification - No ICAP Tag	O	1	
	035	REF	Reference Identification - Special Meter Configuration	O	1	
	038	REF	Reference Identification - Load Asset Identifier	O	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
	060	AMT	Monetary Amount - ICAP Tag	O	1	
	073	AMT	Monetary Amount - Supplier Fixed Charge	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	О	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Type of Service	O	1	
	130	REF	Reference Identification - Supplier Pricing Structure	О	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
	130	REF	Reference Identification - Reason for Change	O	>1	
M	150	SE	Transaction Set Trailer	M	1	

Segment: ST Transaction Set Header

**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:

1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810)

selects the Invoice Transaction Set).

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data Element 143	Name Attr Transaction Set Identifier Code M	ibutes I ID 3/3
			Code uniquely identifying a Transaction Set  814 General Request, Response or Confirmation	1
M	ST02	329	Transaction Set Control Number  Identifying control number that must be unique within the transa functional group assigned by the originator for a transaction set Unique number generated by Sender's Translator	

BGN Beginning Segment **Segment:** 

**Position:** 

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** To indicate the beginning of a transaction set **Syntax Notes:** If BGN05 is present, then BGN04 is required. **Semantic Notes:** 

BGN02 is the transaction set reference number. 1

BGN03 is the transaction set date.

3 BGN04 is the transaction set time.

BGN05 is the transaction set time qualifier.

BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

#### **Comments:**

		_	Duta Elem	cht Summar y		
	Ref.	Data	<b>3</b> .7		A • • • · ·	
M	<u>Des.</u> BGN01	Element 353	Name Transaction Set D	umasa Cada	Attributes M ID 2/2	
IVI	DGNUI	333	Transaction Set P	<del>-</del>	N1 1D 2/2	
			, , ,	rpose of transaction set		
			11	Response		
				Distribution Company to Supplier	1.0	
				Change Error Response / Successfu	il Response	
			13	Request		
			13	Distribution Company to Supplier		
				Change Enrollment Information		
				change Emonment information		
				Supplier to Distribution Company		
				Change Enrollment Information		
M	BGN02	127	Reference Identifie		M AN 1/3	30
				ion as defined for a particular Transacti	on Set or as	
			Request:	ference Identification Qualifier		
			•	entification Number assigned by the Se	nders applicatio	m
			interface	entification (value of assigned by the se	maers appround	
			Response:			
				ne originating BGN02 814 Request		
			Or		~	
				ion as defined for a particular Transacti	on Set or as	
				ference Identification Qualifier n identification number, assigned by th	e originator of th	hic
				entification number must be unique over		
				used to convey The BGN02 from the or		
			814 Request.	•		
M	BGN03	373	Date		M DT 8/8	3

Date expressed as CCYYMMDD

The transaction creation date. This is the date that the transaction was created by the sender's application system.

## BGN06 127

# **Reference Identification**

O AN 1/30

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

Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier C	ode	<u>Attrib</u> M	outes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical location  Consumer Service Provider (CSP)	n, prop	oerty or an
				Distribution Company		
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Distribution Company Name (Text)			
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>	e	X	AN 2/80
			Code identifying a p	party or other code		
			Distribution Compa	ny D-U-N-S Number		

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

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.

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		<u>Attrib</u>	
M	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			SJ	Service Provider		
				Identifies name and address informatic service provider for which billing is be Supplier		_
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Supplier Name (Tex	xt)		
>>	N103	66	<b>Identification Cod</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with F	our Ch	aracter
				Suffix		
>>	N104	67	Identification Code	e	X	AN 2/80
			Code identifying a J	party or other code		
			Supplier D-U-N-S 1	Number or D-U-N-S + 4 Number		

Segment: N1 Name - Customer

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier Co	ode	Attrib M	outes ID 2/3
			Code identifying an individual 8R	organizational entity, a physical location Consumer Service Provider (CSP) Cus		perty or an
				Customer		
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Required for Reside This field will conta	ny Customer Name Key ntial customers only. in the first four characters st name as it appears on the bill.		

Segment: N3 Address Information

**Position:** 060

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional

Max Use: 2

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

Syntax Notes: Semantic Notes:

**Comments:** 

**Notes:** Should be sent if REF02 of REF\*TD is N18R

LDC - ESP only

M	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information	Attributes M AN 1/55
			Address information	
	N302	166	Address Information	O AN 1/55
			Address information	

Segment: N4 Geographic Location

**Position:** 070

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional

Max Use:

Purpose: To specify the geographic place of the named party
ax Notes: 1 If N406 is present, then N405 is required.

Syntax Notes: Semantic Notes: Comments:

A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

**Notes:** Should be sent if REF02 of REF\*TD is N18R

LDC - ESP only

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	outes
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	0	ID 2/2
		Code (Standard State/Province) as defined by appropriate	governn	nent agency
N403	116	Postal Code	0	ID 3/15
		Code defining international postal zone code excluding pu (zip code for United States)	nctuatio	n and blanks
N404	26	Country Code	O	ID 2/3
		Code identifying the country		

Segment: N1 Name - Bill To Identifier

**Position:** 040

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.

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

**Semantic Notes:** Comments:

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

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

**Notes:** Required if REF02 of REF\*TD is N1BT

LDC - ESP only

## **Data Element Summary**

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier (	Code	Attributes M ID 2/3
			Code identifying an individual BT	n organizational entity, a physical locati Bill-to-Party	on, property or an
				Used to identify a billing address for associated with the service account id NM1/REF segment. Only sent if Ma different than the Customer's Service to Mailing addresses, including when is changed to the Service Address, sh 814 Change request using the N1*BT	lentified in the iling Address is Address. Changes Mailing Address ould be sent in an
>>	N102	93	Name		X AN 1/60
			Free-form name		

NV No Value

Segment: N3 Address Information

**Position:** 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

Syntax Notes: Semantic Notes: Comments:

**Notes:** Should be sent if REF02 of REF\*TD is N1BT

LDC - ESP only

M	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information Address information	Attributes M AN 1/55
			Bill To Address	
	N302	166	Address Information Address information Additional Address Information	O AN 1/55

Segment: N4 Geographic Location

**Position:** 070

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 If N406 is present, then N405 is required.

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

**Notes:** Should be sent if REF02 of REF\*TD is N1BT

LDC - ESP only

Ref. Des.	Data <u>Element</u>	Name	<u>Attrib</u>				
N401	19	City Name	0	AN 2/30			
		Free-form text for city name					
		Bill To City Name					
N402	156	State or Province Code	0	ID 2/2			
		Code (Standard State/Province) as defined by appropriate government agency					
		Bill To State Code					
N403	116	Postal Code	0	ID 3/15			
		Code defining international postal zone code excluding pur (zip code for United States)	ctuatio	n and blanks			
		Bill To Postal Code					
N404	26	Country Code	O	ID 2/3			
		Code identifying the country					
		Bill To Country Code (i.e. USA)					

Segment: N1 Name - Old Customer Name

**Position:** 040

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.

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

**Semantic Notes:** Comments:

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

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

**Notes:** Should be sent if REF02 of REF\*TD is N18R

LDC - ESP only

#### **Data Element Summary**

			Data Licin	ent Summary		
M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier C	code	Attrib M	utes ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	erty or an
			AO	Account Of		
				Used to identify the former name or so the current end use customer. Used we name or written service address has charely replacement name or address will be of	then the nanged.	customer The new,
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			For Residential cus	istomer Name tomers, the field will contain the first fo	um aham	actors
			For Residential cus	tomers, the neid will contain the first to	ur chara	acters

of the Customers' last name as it appears on the bill. For Commercial and Industrial customers, this field will contain the first

For Commercial and Industrial customers, this field will contain the first four characters of the Company name as it appears on the bill.

Segment: LIN Item Identification

**Position:** 010

**Loop:** LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To specify basic item identification data

Syntax Notes: 1 If either L

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 IC 'd I DIO I DIO! ' d d d d ' ' '
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:** Comments:

1 LIN01 is the line item identification

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: No

Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

#### **Data Element Summary**

	Ref.	Data		J	
	Des.	<b>Element</b>	<u>Name</u>		<b>Attributes</b>
>>	LIN01	350	Assigned Identific	cation	O AN 1/20
			Alphanumeric char	racters assigned for differentiation with	in a transaction set
			A unique sequentia	al number for each line item within this	transaction set.
M	LIN02	235	Product/Service I	D Qualifier	M ID 2/2
			Code identifying the Product/Service ID	ne type/source of the descriptive numbe 0 (234)	r used in
			SH	Service Requested	
				A numeric or alphanumeric code from available to the customer Distribution Company to Supplier Change Enrollment Information Supplier to Distribution Company Change Enrollment Information	m a list of services
			SV	Service Rendered	
				Distribution Company to Supplier Change Error Response / Success	ful Response
M	LIN03	234	Product/Service I	D	M AN 1/48
			Identifying number	r for a product or service	
			EL	Electric Service	

Indicates a customer request to obtain electric service.

>>	LIN04	235	Product/Service II	) Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in		1	
			Product/Service ID	(234)		
			SH	Service Requested		
				A numeric or alphanumeric code from a available to the customer	a list (	of services
>>	LIN05	234	Product/Service II	)	X	AN 1/48
			Identifying number	for a product or service		
			CE	Customer Enrollment		

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

ESP - LDC request only. Responses to LDC are not supported

			Dutu Licino	int Summary		
	Ref.	Data Floment	Nomo		A ttrib	utoc
M	<u>Des.</u> ASI01	Element 306	Name Action Code		Attrib M	ID 1/2
			Code indicating type	e of action		-
			7	Request		
				Supplier To Distribution Company: Change Supplier Company Data		
			**	Distribution Company To Supplier: Change Distribution Company Dat	a	
			U	Reject		
				Inability to accept for processing due required information	to the la	nck of
				Distribution Company To Supplier: Error Response		
			WQ	Accept		
				Distribution Company To Supplier: Successful Change		
M	ASI02	875	<b>Maintenance Type</b>	Code	M	ID 3/3
			Code identifying the	specific type of item maintenance		
			001	Change		
				Supplier To Distribution Company: Change Supplier Company Data		
				Distribution Company To Supplier Successful Change Response Supplier Change Data Error Respo Distribution Company Changed Da		
				Distribution Company To Supplier: Supplier Change Data Error Response Distribution Company Changed Data	:	

Segment: REF Reference Identification - Supplier Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

If either C04005 or C04006 is present, then the other is required.
 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

Notes: Required

# **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128		ification Qualifier the Reference Identification	Attrib M	outes ID 2/3
			11	Account Number  Number identifies a telecommunicati  Supplier Account Number	ons indu	astry account
>>	REF02	127	specified by the	ification nation as defined for a particular Transacti Reference Identification Qualifier t Number for the end use customer.	X ion Set o	<b>AN 1/30</b> or as

MA\_IG\_814C\_v2-1\_20240131.docx

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

Notes: Required if REF02 of REF\*TD is REF12

A REF\*45 is also expected with Old Account Number

LDC - ESP only

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Code qualifying the	ication Qualifier e Reference Identification	Attribu M	utes ID 2/3
			12	Billing Account Account number under which billing Distribution Company Account Num		red
>>	REF02	127	specified by the Re	ication tion as defined for a particular Transacti eference Identification Qualifier any - assigned end use customer accoun		

Segment:  ${f REF}$  Reference Identification - Old Distribution Co. Acct Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

Notes:

**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:

1 REF04 contains data relating to the value cited in REF02.

Required if REF02 of REF\*TD is REF12

LDC - ESP only

				•		
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	REF01	128	Reference Io	dentification Qualifier	$\mathbf{M}$	ID $2/3$
			Code qualify	ring the Reference Identification		
			45	Old Account Number		
				Identifies accounts being changed		
				Distribution Company Old Account	Number	
>>	REF02	127	Reference Io	dentification	X	AN 1/30
				formation as defined for a particular Transac the Reference Identification Qualifier	tion Set o	or as
			Distribution	Company - Old Account Number for the en	d use cust	tomer

Segment:  ${f REF}$  Reference Identification - Billing Cycle

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Data

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is requ
 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes:

Comments: Notes:

Def

Required if REF02 of REF\*TD is REFBF

# **Data Element Summary**

M	Des. REF01	Element 128	Name Reference Iden	ntification Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code qualifying	the Reference Identification		
			BF	Billing Center Identification		
				Billing cycle.		
>>	REF02	127	Reference Iden	tification	X	AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Billing cycle number when the bill will be rendered.

Segment: REF Reference Identification - Billing Option

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

Notes:

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

**Semantic Notes:** Comments:

Required if REF02 of REF\*TD is REFBLT OR

when REF02 of REF\*TD is REFPR or REFRB

ESP - LDC only

(optional on response from LDC)

# **Data Element Summary**

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		Attrib	<u>outes</u>
M	REF01	128	Reference Identific	cation Qualifier	M	ID 2/3
			Code qualifying the	Reference Identification		
			BLT	Billing Type		
				Identifies whether the bill is consolidate	ted by	the LDC or
				whether each party will prepare their of	own bil	ll. See
				REF02 for valid values.		
>>	REF02	127	Reference Identific	cation	X	AN 1/30

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

LDC The Distribution Company bills the customer for both the

distribution company and supplier charges. (Complete Billing)

DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills.

(Pass thru Billing)

DUAL The Distribution Company and the Supplier bill the

customer their own charges with separate bills. (Pass

through biling)

LDC The Distribution Company bills the customer for both the

distribution company and supplier charges. (Complete

billing)

Segment:  ${f REF}$  Reference Identification - Public Aggregator

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

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

Comments:

M	Ref. <u>Des.</u>	Data Element	Name	insting Ougliston	Attrib	
M	REF01	128	Reference Identif	ication Quaimer	M	ID 2/3
			Code qualifying th	e Reference Identification		
			•	or private group that aggregates tracts load on their behalf.		
			PG	Product Group		
				Aggregator Code		
>>	REF02	127	Reference Identif	ication	X	AN 1/30
				tion as defined for a particular Transacti eference Identification Qualifier	on Set	or as
			Aggregator Code			

Segment:  $\operatorname{REF}$  Reference Identification - Rejection Reason

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

**Notes:** 

1 REF04 contains data relating to the value cited in REF02.

This convention of the REF segment is used primarily to convey status reason codes in

response to a Request.

Required when ASI01 is U and rejection is at account level

LDC - ESP only

			Data I	Mement Summary	
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	REF01	128	Reference Ide	ntification Qualifier	M ID 2/3
			Code qualifyin	g the Reference Identification	
			7G	Data Quality Reject Reason	
				Reject reasons associated with a rejenotification.	ect status
>>	REF02	127	Reference Ide	ntification	X AN 1/30
				rmation as defined for a particular Transac e Reference Identification Qualifier	tion Set or as
			_	codes have been identified by the UIG to c	•
				odes may be used by agreement of the trad	ling partners when
			necessary.	Account exists but is not active	
			A13	Other - (REF03 required) Send emai	il to MA EBT each
			1110	time A13 is used for a new purpose	
			A74	Invalid Supplier Account Number	
			A76	Account not found - (This includes i numbers)	nvalid account
			A77	Name specified does not match acco	ount
			A83	Unauthorized or invalid action - (Invindicator, REF*PRT)	valid type of service
			ABN	Duplicate request received	
			ACI	Action Code Invalid - (ASI01)	
			ANK	Invalid source of information	
			ANL	Service provider not licensed to prov	vide requested service
			C11	Change Reason (REF*TD) missing	or invalid
			DIV	Date Invalid	
			FRB	Incorrect Billing Option (REF*BLT)	) Requested
			I1J	Invalid load asset id number	
			M1J	Missing load asset id number	

TEI Tax Exemption Percentage (AMT\*DP) invalid UND Cannot identify Supplier

>> REF03 352 Description

X AN 1/80

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

Used to further describe the status reason code sent in REF02.

STATUS CODES

Completion Status Code (C.S.C.)

100 Successful Enrollment Transaction Received

999 Errors on Transaction

Account (A) and Service (S) Level

Error Codes

A 101 Invalid Detail Record Indicator

A 102 Invalid Supplier Account Number

A 103 Invalid Distribution Company Account Number

A 104 Invalid Distribution Company Customer Name

A 107 Invalid Billing Option

S 109 Invalid Supplier Rate Code

S 110 Invalid Supplier Pricing Option

S 111 Invalid Type of Service Indicator

S 112 Invalid Service Identifier

A 114 Invalid Sales Tax Indicator

A 153 Invalid Supplier Identifier

A 154 Invalid Distribution Company Identifier

A 164 Customer Already Enrolled

A 165 Supplier on Probation

S 166 Invalid Related Service Failed

A 167 Customer Already Enrolled for Same Supplier

A 170 Invalid Public Aggregator Code

A 177 Invalid Customer Status

A 178 No Customer History Available

Segment: REF Reference Identification - Reason For Change

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

If multiple changes are submitted on the same 814, there may be multiple REF\*TD segments identifying each field to be changed.

Required when ASI01 is 7 for any account level changes.

Optional on LDC - ESP response

Example: REF\*TD\*AMTKC

## **Data Element Summary**

			Data Ele	ement Summary
	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
$\mathbf{M}$	REF01	128	Reference Ident	ification Qualifier M ID 2/3
			Code qualifying	the Reference Identification
			TD	Reason for Change
>>	REF02	127	Reference Ident	ification X AN 1/30
			specified by the	nation as defined for a particular Transaction Set or as Reference Identification Qualifier
			AMTDP	Change Percentage of Service Tax Exemption
			AMTFW	Change Supplier Fixed Charge
			AMTKC	Change Capacity Obligation
			DTM007	Change Effective Date
			N18R	Change in Customer Name
			N1BT	Change Bill To Name/Address
			REF11	Change Supplier Assigned Account Number for the end use Customer
			REF12	Change Distributor Assigned Account Number for the end use Customer
			REF1J	Change ISO Asset Identifier
			REFBF	Change Billing Cycle
			REFBLT	Change Billing Type (Bill Presenter)
			REFKY	Change Special Meter Configuration
			REFNR	Change Budget Billing Code
			REFSPL	Change STD Point Location Code - (Zone)
>>	REF03	352	Description	C AN 1/80
			A free-form desc	ription to clarify the related data elements and their content
			Used to further d	escribe the status reason code sent in REF02.

Indicates the data element to be added

Α

D

\* Special Meter Configuration (net meter added)
Indicates the data element to be deleted

\* Special Meter Configuration (net meter removal)

M

30

MA\_IG\_814C\_v2-1\_20240131.docx

REF Reference Identification - STD Point Location Code **Segment:** 

**Position:** 

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional Max Use:

**Purpose:** To specify identifying information

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

- If either C04003 or C04004 is present, then the other is required.
- If either C04005 or C04006 is present, then the other is required. 3

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

Notes:

The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF\*SPL\*\*ZONE identified.

Required if REF02 of REF\*TD is REFSPL

LDC - ESP only

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128		tification Qualifier the Reference Identification  Attributes M ID 2/3
			SPL	Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone).
>>	REF03	352	Description	This represents the Wholesale Settlement Zone.  X AN 1/80

#### KEF 03 Description

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

ISO NE ZONES: **NEMASSBOST** 

**NEWHAMPSHIRE RHODEISLAND** 

SEMASS **WCMASS**  Segment: REF Reference Identification - Current Budget Billing Status

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

If either C04005 or C04006 is present, then the other is required.
 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

Notes: Required if REF02 of REF\*TD is REFNR.

Valid in both directions.

## **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identific	cation Qualifier	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			NR	Progress Payment Number		
				Used to convey budget billing status. valid values.	See RE	EF02 for
	REF02	127	Reference Identific	cation	X	AN 1/30

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

N The enrolling customer is not on budget billing.

Y The enrolling customer is, or will be, on budget billing.

Segment: REF Reference Identification - No ICAP Tag

**Position:** 038

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

**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:

REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identifie	•	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			Code qualifying the	Reference Identification		
			KC	Exhibit Distribution List		
				Qualifies a list of addressees to which cited contract exhibit must be made Capacity obligation/Load responsibili contribution provided to the ISO for in Obligations.	ty - Pea	k Load
	REF02	127	Reference Identifie	cation	X	AN 1/30
			specified by the Re	ion as defined for a particular Transaction of the Identification Qualifier	on Set o	or as
			Literal "NO ICAP The RFF*KC segm	ent will only be sent if the ICAP Tag va	alue in t	he
				olank. (A default value of Zero will be e		

Segment:  ${f REF}$  Reference Identification - Special Meter Configuration

**Position:** 035

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

Notes:

REF03

352

**Description** 

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

**Semantic Notes:** Comments:

Not used by NSTAR (see REFPRT). Not used by WMECO.

Example: REF\*KY\*NETMETER

Required if REF02 of REF\*TD is REFKY

# **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	ation Qualifier Reference Identification	Attrib M	utes ID 2/3
			1 , 0		C 1'4'	
			KY	Site Specific Procedures, Terms, and		
				A set of procedures, terms, and condition category of procurement emanating frolocation, which will be incorporated in actions in that category by referencing rather than by incorporating the length represents	om a sp nto all p g its uni	ecific rocurement que number
				Special Meter Configuration		
M	REF02	127	Reference Identific	ation	M	AN 1/30
				on as defined for a particular Transacti erence Identification Qualifier Net Metering Present	on Set o	r as

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

O AN 1/80

Segment:  ${f REF}$  Reference Identification - Load Asset Identifier

**Position:** 038

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

Notes: Used by Eversource West

REF\*1J\*17777

			Dutu	ziemene summur j		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Id	entification Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code qualifyi	ing the Reference Identification		
			1J	Facility ID Number		
				Load Asset Identifier		
	REF02	127	Reference Id	entification	X	AN 1/30
				ormation as defined for a particular Transa he Reference Identification Qualifier	ction Set o	or as
			Load Asset Id	lentifier assigned to Supplier by ISO New 1	England	

Segment: DTM Date/Time Reference - Effective

**Position:** 040

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

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

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

If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** 

To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the

time.

ESP - LDC Optional LDC - ESP Required

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attrib</b>	outes
M	DTM01	374	Date/Time Qualifier	r	M	ID 3/3
			Code specifying type	of date or time, or both date and time		
			007	Effective		
				Date upon which a change is requested effective or will become effective.	d to bed	come
>>	DTM05	1250	Date Time Period F	ormat Qualifier	$\mathbf{X}$	ID 2/3
			Code indicating the d	late format, time format, or date and time	me forn	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	DTM06	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date,	a time, or range of dates, times or date	es and t	imes
			Effective Date of Ser	vice in CCYYMMDD format only.		

Segment: AMT Monetary Amount - Sales Tax

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes:

**Comments:** 

**Notes:** Required if REF02 of REF\*TD is AMTDP

valid in both directions

**Data Element Summary** 

Ref. Data

Des. Element Name

M AMT01 522 Amount Qualifier Code

Attributes

M ID 1/3

Code to qualify amount

DP Exemption

This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the

percentage of the service that is tax exempt.

T Tax

This code used to identify the entire load as taxable.

M AMT02 782 Monetary Amount M R 1/18

Monetary amount

For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent.

1 100 percent

This code is used when the customer is either 100%

taxable or 100% exempt.

Segment: AMT Monetary Amount - ICAP Tag

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes:

M

**Comments:** 

**Notes:** Required if REF02 of REF\*TD is AMTKC

LDC - ESP only

**Data Element Summary** 

Ref. Data

Des. Element Name

AMT01 522 Amount Qualifier Code M ID 1/3

Code to qualify amount

KC Obligated

Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity

Obligations

M R 1/18

AMT Monetary Amount - Supplier Fixed Charge **Segment:** 

**Position:** 073

> Loop: LIN Optional (Must Use)

Level: Detail Optional **Usage:** 

Max Use:

AMT02

M

782

**Purpose:** To indicate the total monetary amount

**Syntax Notes: Semantic Notes: Comments:** 

> Used by Eversource as part of Omni system. **Notes:**

Not used by NGRID, Unitil, Liberty. ESP - LDC Request: Optional ESP - LDC Response: Optional

This segment is sent by the Supplier when the customer's bill option is Rate Ready consolidated billing and the Supplier wants to bill the customer for a fixed charge amount in addition to the rate per kwh (REF\*PR).

AMT~FW~2.00 AMT~FW~10 AMT~FW~0

#### **Data Element Summary**

M	Ref. <u>Des.</u> AMT01	Data Element 522	Name Amount Qualifier (	unt	Attribu M	utes ID 1/3
			FW	Flat Fee Paid Current Month		
				AMT02 contains the fixed charge amobilled to the Supplier's customers expression monetary amount.		

**Monetary Amount** Monetary amount

This element is a real number. See Front Matter Notes regarding the syntax for

real numbers.

Segment: NM1 Individual or Organizational Name

**Position:** 080

**Loop:** NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

If NM111 is present, then NM110 is required.

Semantic Notes: 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: Required to convey any changes to meter level information. Only NM101 and NM102

are required.

Valid in both directions

	Ref.	Data				
	Des.	<b>Element</b>	<b>Name</b>		<u>Attrib</u>	<u>outes</u>
M	NM101	98	<b>Entity Identifi</b>	er Code	M	ID 2/3
			Code identifyin individual	ng an organizational entity, a physical	l location, prop	perty or an
			MQ	Metering Location		
M	NM102	1065	<b>Entity Type Q</b>	ualifier	M	ID 1/1
			Code qualifying	g the type of entity		
			3	Unknown		
				Placeholder field only.		

Segment:  ${f REF}$  Reference Identification - Old Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Notes:** 

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

**Semantic Notes:** Comments:

Required if REF02 of REF\*TD is REFMG

LDC - ESP only

#### **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
M	REF01	128	Reference Identi	fication Qualifier	M	ID 2/3
			Code qualifying t	he Reference Identification		
			46	Old Meter Number		
				Identifies meters being removed		
				Identifies the customers' old specific	service.	
>>	REF02	127	Reference Identi	fication	X	AN 1/30
			Reference inform	ation as defined for a particular Transacti	on Set o	nr as

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

The reference identification could be an old meter number or other old service code or number.

Segment: **REF** Reference Identification - Load Profile

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

**Notes:** Required if REF02 of REF\*TD is REFLO

LDC - ESP only

**Data Element Summary** 

M	Ref. <u>Des.</u> REF01	Data Element 128		entification Qualifier	Attrib M	outes ID 2/3	
			Code qualifying	ng the Reference Identification			
			LO	Load Planning Number			
				Load Profile			
>>	REF02	127	Reference Ide	entification	X	AN 1/30	
			Reference info	ormation as defined for a particular Transacti	ion Set o	or as	

specified by the Reference Identification Qualifier

Load Profile Code

Segment:  ${f REF}$  Reference Identification - Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
1 REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

ments:
Notes: E

Eversource West and Eversource North use this field for the Service Account ID (SAID)

Required for all meter level changes.

M	Ref. <u>Des.</u> REF01	Data Element 128		lentification Qualifier	Attrib M	outes ID 2/3		
			Code qualityi	_				
			MG	Meter Number				
				Identifies a specific service.				
>>	REF02	127	Reference Id	entification	X	AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
			The reference	e identification could be a meter number or ot	her serv	rice code or		

Segment:  ${f REF}$  Reference Identification - Distribution Company Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

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

Comments:

**Notes:** Required if REF02 of REF\*TD is REFNH

LDC - ESP only

	Ref.	Data							
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	utes			
M	REF01	128	Reference Identification Qualifier M ID 2/3						
			Code qualifyi	ing the Reference Identification					
			NH	Rate Card Number					
				Rate Class or Tariff Identifier.					
>>	REF02	127	Reference Id	lentification	X	AN 1/30			
				Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
				Company Rate or Tariff Code.					

REF02

REF03

127

352

M

>>

R

**REF** Reference Identification - Type of Service **Segment: Position:** Loop: NM1 Optional (Must Use) Level: Detail Usage: Optional Max Use: **Purpose:** To specify identifying information **Syntax Notes:** At least one of REF02 or REF03 is required. If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required. 3 **Semantic Notes:** REF04 contains data relating to the value cited in REF02. **Comments:** Required for all meter level changes. Notes: **Data Element Summary** Ref. Data Des. **Element** Name **Attributes** REF01 **Reference Identification Qualifier** 128 Code qualifying the Reference Identification

REF01 128 Reference Identification Qualifier M ID 2/3

Code qualifying the Reference Identification

PRT Product Type

Identifies the type of service being provided to the customer.

Reference Identification X AN 1/30
Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer.

Α Apply to All Services C Combined Service (Multiple Meters Billed as a Summary) D Metered Service Demand & kWh E Metered Service kWh Metered Service TOU - Off Peak F Η Controlled Hot Water Lighting Service L N Non-Metered Service O Metered Service TOU - On Peak Т Metered Service TOU **Description** X AN 1/80

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

To indicate presence of Net Meter

X Net Meter

Segment:  ${f REF}$  Reference Identification - Supplier Pricing Structure

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional

Max Use:

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

**Semantic Notes:** Comments:

ments:
Notes: Required if REF02 of REF\*TD is REFPR

Required if REF02 of REF\*TD is REFRB

Required if REF02 of REF\*TD is REFBLT and REF02 of REFBLT is LDC

ESP - LDC

(optional on response from LDC)

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference I	Identification Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code qualify	ying the Reference Identification		
			PR	Price Quote Number		
				Identifies a unit price category und customer.	der a rate co	ode for the
>>	REF02	127	Reference I	Identification	X	AN 1/30
				nformation as defined for a particular Transa the Reference Identification Qualifier	action Set	or as
			Unit pricing	category code.		

Segment:  ${f REF}$  Reference Identification - Supplier Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

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

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

1 REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments: Notes:

Required if REF02 of REF\*TD is REFRB

Required if REF02 of REF\*TD is REFPR

Required if REF02 of REF\*TD is REFBLT and REF02 of REFBLT is LDC

ESP - LDC

(optional on response from LDC)

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identifi Code qualifying the	cation Qualifier e Reference Identification	Attrib M	outes ID 2/3			
			RB	Rate code number					
				Identifies the Supplier Rate Class for	this cus	tomer.			
>>	REF02	127	Reference Identifi	cation	X	AN 1/30			
				Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
			Supplier Rate Class	s code.					

Segment: REF Reference Identification - Reject Reason

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

**Notes:** Required for all meter level rejections

LDC - ESP only

			Data Elem	ient Summary		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	
M	REF01	128	Reference Identifi	cation Qualifier	M	ID 2/3
			Code qualifying the	e Reference Identification		
			7G	Data Quality Reject Reason		
				Reject reasons associated with a reject notification.	et status	
>>	REF02	127	Reference Identifi	cation	X	AN 1/30
				tion as defined for a particular Transactiference Identification Qualifier Other - (REF03 required) Send email time A13 is used for a new purpose See explanation in REF03		
			A83	Unauthorized or invalid action - (Invaindicator, REF*PRT)	alid type	of service
			C11	Change Reason (REF*TD) missing o	r invalid	l
			MNM	Invalid Service Identifier		
			PCI	Price Code invalid		
			W05	Requested Rate not found or not in educate (Rate Ready only)	ffect on t	the requested
D	REF03	352	Description		X	AN 1/80
			A free-form descrip	otion to clarify the related data elements	s and the	ir content
			STATUS CODES Completion Status		F02.	
				Enrollment Transaction Received		
			999 Errors on			
			Account (A) and So Error Codes	ervice (S) Level		
				Detail Record Indicator		
				Supplier Account Number		
				Distribution Company Account Number	r	
				Distribution Company Customer Name		
				Billing Option		
				Supplier Rate Code		
				Supplier Pricing Option		
			S 111 Invalid	Гуре of Service Indicator		

- S 112 Invalid Service Identifier
- A 114 Invalid Sales Tax Indicator
- A 153 Invalid Supplier Identifier
- A 154 Invalid Distribution Company Identifier
- A 164 Customer Already Enrolled
- A 165 Supplier on Probation
- S 166 Invalid Related Service Failed
- A 167 Customer Already Enrolled for Same Supplier
- A 170 Invalid Public Aggregator Code
- A 177 Invalid Customer Status
- A 178 No Customer History Available

Segment: REF Reference Identification - Reason for Change

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

#### Semantic Notes: Comments: Notes:

REF04 contains data relating to the value cited in REF02.

This convention of the REF segment is used for meter maintenance, to convey change reason codes. The first portion of the code identifies the segment that contains the data that has been changed; the second portion of the code identifies the relevant code qualifier for the data that has been changed; the third portion of the code allows for free text description to further explain nature of change The changed data will appear in the appropriate element of the identified segment. For example, a REF02 code of REFNH indicates that the data in the REF segment that is identified by the qualifier NH (i.e., LDC Rate Code) has been changed to the value now shown in REF02.

ex: REF\*TD\*REFNH

If multiple changes are submitted on the same 814, there may be multiple REF\*TD segments identifying each field to be changed.

Required for all meter level changes.

Valid on requests in both directions. Optional on response from LDC

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Iden	tification Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code qualifying	the Reference Identification		
			TD	Reason for Change		
>>	REF02	127	Reference Iden	tification	X	AN 1/30
				nation as defined for a particular Transac Reference Identification Qualifier Change Load Profile Rate Code	ction Set o	or as
			REFMG	Change Service Identifier		
			REFNH	Change LDC Rate Code		
			REFPR	Change Supplier Unit Pricing Cates	gory Code	•
			REFPRT	Change Type of Service		
			REFRB	Change Supplier Rate Code		

Segment: **SE** Transaction Set Trailer

**Position:** 150

Loop:

Level: Detail 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.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>utes</u>
M	SE01	96	<b>Number of Included Segments</b>	M	N0 1/10
			Total number of segments included in a transaction set inc segments	luding S	ST and SE
M	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio		ion set

# MASSACHUSETTS Electronic Business Transactions Standard

For

# Electronic Data Interchange

**TRANSACTION SET** 

814

Drop Request, Response or Confirmation

Ver/Rel 004010

#### **Summary of Changes**

August 2, 1999

Initial Release – Version 99.1

April 15, 2002

- Added REF\*LO Segment for Load Profile Codes
- Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
- Sequenced the Segments to agree with the UIG Guides
- Added Status reason code tables to REF\*7G Segment
- Added/or changes some data element descriptions for clarification
- Removed REF\*RB REF02 element table description that didn't pertain to MA

June 30, 2004

- Added Service Address N3 and N4 segments for MOVE transaction.
- Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
- Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
- Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
- Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. REF\*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

July 6, 2011

- Added new REF\*1P segment with REF02 values for use in 814 Drop Requests:
  - REF02 Code: '020', REF03 Description: 'Customer Moved / Account Closed'
  - REF02 Code: 'CHA', REF03 Description: 'Customer Changed to Another Service Provider'
  - REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service'
  - REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'

January 14, 2015

- Separated into own document.
  - Added REF03 to REF\*PRT for Net Meter Indicator

November 4, 2015

Final Release

January 31, 2024 Version 2.1

- Incorporated CC 026
  - clarify the requirements for the N101 value for the N1\*8R segment
- Incorporated CC 032
  - add Rejection Response Code DIV (Date Invalid).
     Example: REF\*7G\*DIV.
- Incorporated CC 033
  - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

# 814 General Request, Response or Confirmation

# Functional Group ID=GE

#### **Heading:**

M	Pos.	Seg. <u>ID</u> ST	Name Transfers S. & Handar	Req.	Max.Use	Loop <u>Repeat</u>
M	010	51	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	О	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	O	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	

#### **Detail:**

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	
			LOOP ID - LIN			1	
Must Use	010	LIN	Item Identification	О	1		
Must Use	020	ASI	Action or Status Indicator	O	1		
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1		
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1		
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1		
	030	REF	Reference Identification - Rejection Reason	O	>1		
	030	REF	Reference Identification - (1P Status Reason)	O	>1		
	040	DTM	Date/Time Reference - Effective	O	1		
	060	AMT	Monetary Amount - Sales Tax	O	1		
	073	AMT	Monetary Amount - ICAP Tag	O	1		
			LOOP ID - NM1			>1	
Must Use	080	NM1	Individual or Organizational Name	О	1		
	130	REF	Reference Identification - Service Identifier	O	1		
	130	REF	Reference Identification - Distribution Company Rate Code	О	1		
	130	REF	Reference Identification - Reject Reason	O	>1		
M	150	SE	Transaction Set Trailer	M	1		

Segment: ST Transaction Set Header

**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:** 1 The transaction set identifier (ST01) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data <u>Element</u> 143	Name Transaction Set Identifier Code	<u>Attrik</u> M	outes ID 3/3
			Code uniquely identifying a Transaction Set  814 General Request, Response or Con-	firmation	
M	ST02	329	Transaction Set Control Number  Identifying control number that must be unique within the functional group assigned by the originator for a transact Unique number generated by Sender's Translator		AN 4/9 tion set

Segment: BGN Beginning Segment

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

Purpose: To indicate the beginning of a transaction set
 Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
 Semantic Notes: 1 BGN02 is the transaction set reference number.

2 BGN03 is the transaction set date.

**3** BGN04 is the transaction set time.

4 BGN05 is the transaction set time qualifier.

5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:** 

#### **Data Element Summary**

M	Ref. <u>Des.</u> BGN01	Data Element 353	<u>Name</u> Transaction Set Pu	rpose Code	Attrib M	utes ID 2/2
			Code identifying pur	rpose of transaction set		
			06	Confirmation		
				Distribution company to Supplier Confirms Drop of Service Received	d	
			11	Response		
				Distribution Company to Supplier Drop Error Response		
			13	Request		
				Supplier to Distribution Company Supplier Drops Customer		
			14	Advance Notification		
				Distribution Company to Supplier Customer Drops Supplier		
M	BGN02	127	Reference Identific	ation	M	AN 1/30
			D - f : f 4:	4.6 4 6	0-4	

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

Request:

Unique Tracking Identification Number assigned by the Senders application interface

Response:

The BGN02 from the originating BGN02 814 Request

Or

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

A unique transaction identification number, assigned by the originator of this transaction. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02

			814 Request.			
M	BGN03	373	Date	M	DT 8/8	
			Date expressed as CCYYMMDD			
			The transaction creation date. This is the date that the transaction the sender's application system.	tion	was created	
	BGN06	127	Reference Identification	O	AN 1/30	
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set o	or as	
			If used, refers to the BGN02 identification number of the original Request. Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02			

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** 

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier C	Code	Attrib M	outes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical location Consumer Service Provider (CSP)	on, prop	perty or an
				Distribution Company		
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Distribution Compa	any Name (Text)		
>>	N103	66	<b>Identification Cod</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Cod</b>	e	X	AN 2/80
			Code identifying a	party or other code		
			Distribution Compa	nny D-U-N-S Number		

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** 

**Comments:** 

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u> </u>	<b>Attrik</b>	<u>outes</u>
M	N101	98	<b>Entity Identifier C</b>	code	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	, proj	perty or an
			SJ	Service Provider		
				Identifies name and address information service provider for which billing is being Supplier		_
>>	N102	93	Name	**	X	AN 1/60
			Free-form name			
			Supplier Name (Tex	xt)		
>>	N103	66	<b>Identification Cod</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used f	or Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Fo	ur Cl	naracter
				Suffix		
>>	N104	67	Identification Cod	e	X	AN 2/80
			Code identifying a j	party or other code		
			Supplier D-U-N-S 1	Number		

Segment: N1 Name - Customer

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier (	Code	Attrib M	outes ID 2/3
			Code identifying ar individual 8R	n organizational entity, a physical location  Consumer Service Provider (CSP) Cus		-
				Customer		
>>	N102	93	Name Free-form name		X	AN 1/60
			Distribution Company Customer Name Key Required for Residential customers only. This field will contain the first four characters of the Customers' last name as it appears on the bill.			

Segment: N1 Name - Bill To Identifier

**Position:** 040

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

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

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.

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

**Notes:** May be sent on LDC - ESP drop requests

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	utes
M	N101	98	<b>Entity Identifier C</b>	Code	M	ID 2/3
			Code identifying ar	n organizational entity, a physical location	on, prop	erty or an
			individual			
			BT	Bill-to-Party		
				Used to identify a billing address for tassociated with the service account id		
	N11.00	02	<b>™</b> T	NM1/REF segment.	37	A DI 1/60
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			NV	No Value		

Segment: N3 Address Information

**Position:** 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

Syntax Notes: Semantic Notes: Comments:

1/55
1/55

Segment: N4 Geographic Location

**Position:** 070

Loop: N1 Optional

Level: Heading
Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Ref.	Data					
Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>utes</u>		
N401	19	City Name	O	AN 2/30		
		Free-form text for city name				
		Bill To City Name				
N402	156	State or Province Code	O	ID 2/2		
		Code (Standard State/Province) as defined by appropriate government agency				
		Bill To State Code				
N403	116	Postal Code	O	ID 3/15		
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
		Bill To Postal Code				
N404	26	Country Code	O	ID 2/3		
		Code identifying the country				
		Bill To Country Code (i.e. USA)				

Segment:	LIN	Item Identification
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Position: 010

> Loop: LIN Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

**Purpose:** To specify basic item identification data

If either LIN04 or LIN05 is present, then the other is required. **Syntax Notes:** 

- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

#### **Semantic Notes: Comments:**

LIN01 is the line item identification

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

LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** 

Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

	Ref.	Data		•		
	Des.	<b>Element</b>	<b>Name</b>		<u>Attrib</u>	<u>outes</u>
>>	LIN01	350	Assigned Identific	cation	O	AN 1/20
			Alphanumeric cha	racters assigned for differentiation within	in a tran	saction set
			A unique sequentia	al number for each line item within this	transact	ion set.
M	LIN02	235	Product/Service I	D Qualifier	M	ID 2/2
			Code identifying the Product/Service ID SH	the type/source of the descriptive numbe O (234) Service Requested	r used ir	1
			SV	A numeric or alphanumeric code from available to the customer Supplier to Distribution Company Supplier Drops Customer Service Rendered	n a list o	of services
				Distribution Company to Supplier Drop Error Response Customer Drops Supplier Confirm Drop of Service		
M	LIN03	234	Product/Service I		M	AN 1/48
			Identifying numbe	r for a product or service		
			EL	Electric Service		
				Indicates a customer request to obtain	n electri	c service.
>>	LIN04	235	Product/Service I	D Qualifier	X	ID 2/2

Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

SH Service Requested

A numeric or alphanumeric code from a list of services

available to the customer

>> LIN05 234 Product/Service ID X AN 1/48

Identifying number for a product or service CE Customer Enrollment

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

#### **Data Element Summary**

			Data Elem	ent Summary	
M	Ref. <u>Des.</u> ASI01	Data Element 306	Name Action Code		Attributes M ID 1/2
			Code indicating typ	pe of action	
			7	Request	
				Supplier To Distribution Company: Supplier Drops Customer	
				Distribution Company To Supplier: Customer Drops Supplier	
			U	Reject	
				Inability to accept for processing due required information	to the lack of
				Distribution Company To Supplier: Error Response	
			V	Respond	
				A reply or answer	
				Distribution Company To Supplier: Confirm Drop Date	
M	ASI02	875	Maintenance Type	e Code	M ID 3/3
			Code identifying th	e specific type of item maintenance	
			024	Cancellation or Termination	
				Supplier To Distribution Company: Supplier Drops Customer	
				Distribution Company To Supplier: Customer Drops Supplier Confirm Drop Date Error on Supplier Drop Transactio	n
				Distribution Company To Supplier: Customer Drops Supplier Confirm Drop Date	

Error on Supplier Drop Transaction

Segment: REF Reference Identification - Supplier Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code gyalifying the Reference Identification	Attributes M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommunic	cations industry account
			Supplier	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Trans specified by the Reference Identification Qualifier	action Set or as
			Supplier Account Number for the end use customer.	

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attributes M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which bil	ling is rendered
			Distribution Company	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transpecified by the Reference Identification Qualifier	saction Set or as
			Distribution Company - assigned end use customer acc	count number.

Segment:  ${f REF}$  Reference Identification - Old Distribution Co. Acct Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identification Qualifier	Attributes M ID 2/3		
			Code qualifying the Reference Identification			
			45 Old Account Number			
			Identifies accounts being changed	i		
			Distribution Company			
>>	REF02	127	Reference Identification	X AN 1/30		
			Reference information as defined for a particular Transspecified by the Reference Identification Qualifier	saction Set or as		
			Distribution Company - Old Account Number for the end use customer.			

Segment:  $\operatorname{REF}$  Reference Identification - Rejection Reason

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

This convention of the REF segment is used primarily to convey status reason codes in response to a Request.

#### **Data Element Summary**

			Data Eleme	ent Summary		
	Ref.	Data				
	Des.	Element	Name		<u>Attrib</u>	
M	REF01	128	Reference Identification Qualifier		M	ID 2/3
				Reference Identification		
			7G	Data Quality Reject Reason		
				Reject reasons associated with a reject	status	
>>	REF02	127	Reference Identific	notification.	X	AN 1/30
	KLF 02	127		on as defined for a particular Transaction		
				erence Identification Qualifier	JII SCI (	or as
				s have been identified by the UIG to con	nvey sta	atus reason
			codes. Other codes	may be used by agreement of the tradir	ig partn	ers when
			necessary.			
			008	Account exists but is not active		
			A13	Other		
			A74	Invalid Supplier Account Number		
			A76	Account not found - (This includes in numbers)	valid ac	ecount
			A77	Name specified does not match account	nt	
			A83	Unauthorized or invalid action - (Invaindicator, REF*PRT)	lid type	e of service
			ABN	Duplicate request received		
			ACI	Action Code Invalid - (ASI01)		
			ANK	Invalid source of information		
			ANL	Service provider not licensed to provide	de requ	ested service
			B39	Already Dropped		
			DIV	Date Invalid		
			I1J	Invalid load asset id number		
			MNM	Invalid Service Identifier		
			UND	Cannot identify Supplier		
			UNE	Cannot identify LDC		
R	REF03	352	Description		X	AN 1/80

A free-form description to clarify the related data elements and their content Used to further describe the status reason code sent in REF02.

#### STATUS CODES

Completion Status Code (C.S.C.)

- 100 Successful Enrollment Transaction Received
- 999 Errors on Transaction

Account (A) and Service (S) Level

#### Error Codes

- A 101 Invalid Detail Record Indicator
- A 102 Invalid Supplier Account Number
- A 103 Invalid Distribution Company Account Number
- A 104 Invalid Distribution Company Customer Name
- A 107 Invalid Billing Option
- S 109 Invalid Supplier Rate Code
- S 110 Invalid Supplier Pricing Option
- S 111 Invalid Type of Service Indicator
- S 112 Invalid Service Identifier
- A 114 Invalid Sales Tax Indicator
- A 153 Invalid Supplier Identifier
- A 154 Invalid Distribution Company Identifier
- A 164 Customer Already Enrolled
- A 165 Supplier on Probation
- S 166 Invalid Related Service Failed
- A 167 Customer Already Enrolled for Same Supplier
- A 170 Invalid Public Aggregator Code
- A 177 Invalid Customer Status
- A 178 No Customer History Available

Segment:  $\mathbf{REF}$  Reference Identification - (1P Status Reason)

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

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

### **Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

**Notes:** 

This convention of the REF segment is used primarily to convey status reason codes in response to a Request.

Rules for Status Reason Codes

The codes that follow have been identified by the MAEBT to convey status reasons. Only the codes listed for each service are valid for that service. If you require additional codes, send an email to the state's listserver.

"A13" (Other) must only be used when an existing error code does not convey the reason correctly. Each time "A13" (Other) is used for a new purpose, an E-mail must be sent to the MAEBT listserver by the party sending the code, to notify the market participants about the text explanation for A13. This information will be compiled and new codes will be issued on a periodic basis.

MA EBT Working Group: MASSEBT@LISTSERV.MASSELECTRIC.COM

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	cation Qualifier	Attributes M ID 2/3		
			Code qualifying the	Reference Identification			
			1P	Accessorial Status Code			
				Qualifies a single number that describ accessorial transportation service Required field on Drop Request	es the status of an		
>>	REF02	127	Reference Identific	cation	X AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
			_	s have been identified by the UIG to co may be used by agreement of the tradin	•		
			LDC Drop	ESP Drop			
			-	Request to			
				LDC			
			X	020 Customer moved or accou	ınt closed		
			X X	A13 Other	quired in REF03		
			X X	B38 Dropped by Customer F Customer was to	Request erminated by the		
			Service	P	Provider for reasons		

			other than nonpayment X CHA Customer changed to another Service
			Provider
R	REF03	352	Description X AN 1/80
			A free-form description to clarify the related data elements and their content
			Used to further describe the status reason code sent in REF02. STATUS CODES Completion Status Code (C.S.C.) 100 Successful Enrollment Transaction Received
			999 Errors on Transaction
			Account (A) and Service (S) Level Error Codes
			A 101 Invalid Detail Record Indicator
			A 102 Invalid Supplier Account Number
			A 103 Invalid Distribution Company Account Number
			A 104 Invalid Distribution Company Customer Name
			A 107 Invalid Billing Option
			S 109 Invalid Supplier Rate Code
			S 110 Invalid Supplier Pricing Option S 111 Invalid Type of Service Indicator
			S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier
			A 114 Invalid Sales Tax Indicator
			A 153 Invalid Supplier Identifier
			A 154 Invalid Distribution Company Identifier
			A 164 Customer Already Enrolled
			A 165 Supplier on Probation
			S 166 Invalid Related Service Failed
			A 167 Customer Already Enrolled for Same Supplier
			A 170 Invalid Public Aggregator Code
			A 177 Invalid Customer Status
			A 178 No Customer History Available

Segment: DTM Date/Time Reference - Effective

**Position:** 040

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore,

if specification of a time zone is necessary, DTM06 should include only the date, not the

time. Required LDC - ESP

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
M	DTM01	374	Date/Time Qualifie	er	$\mathbf{M}$	ID 3/3
			Code specifying typ	e of date or time, or both date and time		
			007	Effective		
				Date upon which deletion is requested effective or will become effective.	to bec	ome
>>	DTM05	1250	Date Time Period 1	Format Qualifier	$\mathbf{X}$	ID 2/3
			Code indicating the	date format, time format, or date and ti	me form	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	<b>DTM06</b>	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date	e, a time, or range of dates, times or date	es and t	imes
			Effective Date of Se	ervice in CCYYMMDD format only.		

 $\textbf{Segment:} \quad \textbf{AMT} \ \ \textbf{Monetary Amount - Sales Tax}$ 

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> AMT01	Data           Element           522	<u>Name</u> Amount Qualifier (	Code	Attrib	utes ID 1/3
			Code to qualify amo	unt		
			DP	Exemption		
				This code is used when a portion of the is exempt from taxation. Element AM percentage of the service that is tax ex	TO2 ide	
			T	Tax		
				This code used to identify the entire lo	ad as ta	axable.
M	AMT02	<b>782</b>	<b>Monetary Amount</b>		$\mathbf{M}$	R 1/18
			Monetary amount			
			_	es, the whole number "1" represents 100 " represent percentages from 1 percent	-	
			1	100 percent		
				This code is used when the customer is taxable or 100% exempt.	s either	100%

Segment: AMT Monetary Amount - ICAP Tag

**Position:** 073

**Loop:** LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

### **Data Element Summary**

M	Ref. <u>Des.</u> AMT01	Data Element 522	Name Amount Qualifier ( Code to qualify amo		Attributes M ID 1/3
			KC	Obligated	
				Capacity Obligation - Load responsible contribution provided to the ISO for it Obligations.	•
M	AMT02	782	<b>Monetary Amount</b>	_	M R 1/18
			Monetary amount		

ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and

3 places to the right of the decimal.)

(To determine if a zero in this field is the ICAP TAG or the default value refer to the REF\*KC segment REF02 element description).

Segment: NM1 Individual or Organizational Name

**Position:** 080

**Loop:** NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	NM101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			MQ	Metering Location		
M	NM102	1065	<b>Entity Type Qualif</b>	ïer	M	<b>ID</b> 1/1
			Code qualifying the	type of entity		
			3	Unknown		
				Placeholder field only.		

Segment:  ${f REF}$  Reference Identification - Service Identifier

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.
 REF04 contains data relating to the value cited in REF02.

Used by Eversource West and Eversource North as Service Account Identifier

**Semantic Notes:** Comments:

Notes:

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Ide	entification Qualifier	Attrib M	outes ID 2/3
			Code qualifyir	ng the Reference Identification		
			MG	Meter Number		
				Identifies a specific service.		
>>	REF02	127	Reference Ide	entification	X	AN 1/30
				ormation as defined for a particular Transaction Reference Identification Qualifier	on Set o	or as
			The reference number	identification could be a meter number or oth	ier serv	vice code or

Segment:  ${f REF}$  Reference Identification - Distribution Company Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	cation Qualifier	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			NH	Rate Card Number		
				Rate Class or Tariff Identifier.		
>>	REF02	127	Reference Identifie	cation	X	AN 1/30
				ion as defined for a particular Transacti ference Identification Qualifier	on Set o	or as
			Distribution Compa	any Rate or Tariff Code.		

29

Segment: REF Reference Identification - Reject Reason

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

			Data Element Summary	
	Ref.	Data		
	Des.	<b>Element</b>		<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			7G Data Quality Reject Reason	
			Reject reasons associated with a reject notification.	status
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier A13 Other	n Set or as
			See explanation in REF03	
			MNM Invalid Service Identifier	
>>	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements a	and their content
			Used to further describe the status reason code sent in REFOSTATUS CODES  Completion Status Code (C.S.C.)  100 Successful Enrollment Transaction Received 999 Errors on Transaction  Account (A) and Service (S) Level  Error Codes  A 101 Invalid Detail Record Indicator  A 102 Invalid Supplier Account Number  A 103 Invalid Distribution Company Account Number  A 104 Invalid Distribution Company Customer Name  A 107 Invalid Billing Option  S 109 Invalid Supplier Rate Code  S 110 Invalid Supplier Pricing Option  S 111 Invalid Type of Service Indicator  S 112 Invalid Service Identifier  A 114 Invalid Sales Tax Indicator  A 153 Invalid Supplier Identifier  A 154 Invalid Distribution Company Identifier  A 165 Supplier on Probation  S 166 Invalid Related Service Failed  A 167 Customer Already Enrolled for Same Supplier	2.

- A 170 Invalid Public Aggregator CodeA 177 Invalid Customer Status
- A 178 No Customer History Available

Segment: **SE** Transaction Set Trailer

**Position:** 150

Loop:

Level: Detail
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.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	utes
M	SE01	96	Number of Included Segments	M	N0 1/10
			Total number of segments included in a transaction set inc segments	luding S	ST and SE
M	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transaction		ion set

# MASSACHUSETTS Electronic Business Transactions Standard

For

# Electronic Data Interchange

**TRANSACTION SET** 

**814 Enroll** Request / Response

Ver/Rel 004010

### Summary of Changes

August 2, 1999

Initial Release – Version 99.1

April 15, 2002

- Added REF\*LO Segment for Load Profile Codes
- Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
- Sequenced the Segments to agree with the UIG Guides
- Added Status reason code tables to REF\*7G Segment
- Added/or changes some data element descriptions for clarification
- Removed REF\*RB REF02 element table description that didn't pertain to MA

June 30, 2004

- Added Service Address N3 and N4 segments for MOVE transaction.
- Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
- Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
- Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
- Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. REF\*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

January 14, 2015

Separated into own document.

January 20, 2015

Added REF03 to REF\*PRT for Net Meter Indicator

October 26, 2015

 Added REF03 to REF\*TD in NM1 loop to allow for description of change in support of Net Metering.

Added new segment REF\*KY in support of Net Metering.

November 4, 2015

Administrative corrections/updates

015 • Final Release

Version 2.0

Incorporated CC 026

January 31, 2014 Version 2.1

 clarify the requirements for the N101 value for the N1\*8R segment

- Incorporated CC 032
  - add Rejection Response Code DIV (Date Invalid).
     Example: REF\*7G\*DIV.
- Incorporated CC 033
  - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response
- Incorporated CC 034
  - add REF\*1J segment as optional and sent by Eversource West as the Load Asset Id assigned to the Supplier by ISO New England
- Incorporated CC 035
  - Addition of AMT\*FW Segment for supplier fixed charge for Eversource Omni

# 814 General Request, Response or Confirmation

# Functional Group ID=GE

### **Heading:**

	Pos. <u>No.</u>	Seg. <u>ID</u> ST	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>
M	010	ST	Transaction Set Header	M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Distribution Company	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Supplier	M	1	
			LOOP ID - N1			1
M	040	N1	Name - Customer	M	1	
	060	N3	Address Information - Service Address	O	2	
	070	N4	Geographic Location - Service Address	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	О	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	O	1	

### **Detail:**

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop Repeat
		_	LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	O	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	O	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
	030	REF	Reference Identification - STD Point Location Code	О	1	
	030	REF	Reference Identification - Current Budget Billing Status	O	1	
	030	REF	Reference Identification - No ICAP Tag	O	1	
	035	REF	Reference Identification - Special Meter Configuration	О	1	
	038	REF	Reference Identification - Load Asset Identfier	O	1	

	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
	060	AMT	Monetary Amount - ICAP Tag	O	1	
	068	AMT	Monetary Amount - Supplier Fixed Charge	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	О	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	O	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Distribution Company Rate Code	О	1	
M	130	REF	Reference Identification - Type of Service	M	1	
	130	REF	Reference Identification - Supplier Pricing Structure	О	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	О	>1	
M	150	SE	Transaction Set Trailer	M	1	

Segment: ST Transaction Set Header

**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: 1 The transaction set identifier (ST01) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data <u>Element</u> 143	Name Erransaction Set Identifier Code	Attrib M	outes ID 3/3
			Code uniquely identifying a Transaction Set  814 General Request, Response or Confirma	ation	
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the tra- functional group assigned by the originator for a transaction		ion set
			Unique number generated by Sender's Translator		

Segment: BGN Beginning Segment

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a transaction set
 Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
 Semantic Notes: 1 BGN02 is the transaction set reference number.

**2** BGN03 is the transaction set date.

**3** BGN04 is the transaction set time.

4 BGN05 is the transaction set time qualifier.

BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:** 

### **Data Element Summary**

M	Ref. <u>Des.</u> BGN01	Data Element 353	Name Transaction Set Pu	rpose Code rpose of transaction set	<u>Attrib</u> M	utes ID 2/2
			06	Confirmation		
				Distribution company to Supplier Confirms Successful Enrollment R	Received	l
			11	Response		
				Distribution Company to Supplier Enrollment Error Response		
			13	Request		
				Supplier to Distribution Company Enrollment Request		
М	DCN02	127	Defenence Identifie	nation	М	A NI 1/20

### M BGN02 127 Reference Identification

M AN 1/30

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

Request:

Unique Tracking Identification Number assigned by the Senders application interface

Response:

The BGN02 from the originating BGN02 814 Request

Or

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

A unique transaction identification number, assigned by the originator of this transaction. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.

M	BGN03	373	Date	M	<b>DT 8/8</b>
			Date expressed as CCYYMMDD		
			The transaction creation date. This is the date that the transaction	ction	was created
			by the sender's application system.		
	BGN06	127	Reference Identification	O	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	Set o	or as
			Unique Tracking Identification Number sent with the original not contained in the BGN02	ting t	ransaction. If

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Mandatory

Level: Heading Usage: Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

**Comments:** 

1 At least one of N102 or N103 is required.

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier C		<u>Attrib</u> M	outes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical locatio  Consumer Service Provider (CSP)	n, prop	erty or an
				Distribution Company		
M	N102	93	Name		M	AN 1/60
			Free-form name			
			Distribution Compa	ny Name (Text)		
	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used D-U-N-S Number, Dun & Bradstreet	for Ide	entification
	N104	67	Identification Code	·	0	AN 2/80
			Code identifying a p	party or other code	-	
			Distribution Compa	ny D-U-N-S Number		

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Mandatory

Level: Heading Usage: Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

**Comments:** 

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

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	
M	N101	98	Entity Identifier Co	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical locatio	n, prop	erty or an
			SJ	Service Provider		
				Identifies name and address information service provider for which billing is be Supplier		
M	N102	93	Name		M	AN 1/60
			Free-form name			
			Supplier Name (Tex	t)		
>>	N103	66	<b>Identification Code</b>	· Qualifier	X	ID 1/2
			Code designating th Code (67)	e system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with F Suffix	our Ch	aracter
>>	N104	67	<b>Identification Code</b>		O	AN 2/80
			Code identifying a p	party or other code		
			Supplier D-U-N-S N	Number or D-U-N-S + 4 Number		

N1 Name - Customer **Segment:** 

**Position:** 

Loop: N1 Mandatory

Level: Heading Usage: Mandatory

Max Use:

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

**Syntax Notes: Semantic Notes:** 

**Comments:** 

At least one of N102 or N103 is required.

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.

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

N1\*8R\*JONE **Notes:** 

N1\*8R\*TOWN

### **Data Element Summary**

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identif	Tier Code Attributes M ID 2/3
			Code identifyi individual 8R	ing an organizational entity, a physical location, property or an  Consumer Service Provider (CSP) Customer
				Customer
M	N102	93	Name	M AN 1/60

Free-form name

Distribution Company Customer Name Key

Required for Residential customers only.

This field will contain the first four characters of the Customer's last name as it appears on the bill. For commercial customers this will be the first four characters of company name.

Segment: N3 Address Information - Service Address

**Position:** 060

Loop: N1 Mandatory

Level: Heading Usage: Optional

Max Use: 2

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

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information	Attributes M AN 1/55
			Address information	
			Customer Service Address	
	N302	166	<b>Address Information</b>	O AN 1/55
			Address information	

Segment: N4 Geographic Location - Service Address

**Position:** 070

**Loop:** N1 Mandatory

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attrib	<u>outes</u>
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate g	overnn	nent agency
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding pur (zip code for United States)	ctuatio	n and blanks
N404	26	Country Code	0	ID 2/3
		Code identifying the country		

N1 Name - Bill To Identifier **Segment:** 

**Position:** 

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

**Syntax Notes: Semantic Notes:** 

**Comments:** 

At least one of N102 or N103 is required.

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.

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

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier (	Code	Attributes M ID 2/3
			Code identifying an individual	n organizational entity, a physical location	on, property or an
			BT	Bill-to-Party	
				Used to identify a billing address for t associated with the service account id NM1/REF segment. Only sent if Mail different than the Customer's Service	entified in the ing Address is
>>	N102	93	Name		X AN 1/60
			Free-form name		
			NV	No Value	

Segment: N3 Address Information

**Position:** 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N301	Data <u>Element</u> 166	Name Address Information Address information	<u>Attrib</u> M	utes AN 1/55
			Bill To Address		
	N302	166	Address Information	0	AN 1/55
			Address information		
			Additional Address Information		

N4 Geographic Location **Segment:** 

070 **Position:** 

> Loop: N1 Optional

Level: Heading Usage: Optional 1

Max Use:

**Purpose:** To specify the geographic place of the named party **Syntax Notes:** 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

A combination of either N401 through N404, or N405 and N406 may be adequate to **Comments:** 1

specify a location.

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

Ref.	Data						
Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>outes</u>			
N401	19	City Name	O	AN 2/30			
		Free-form text for city name					
		Bill To City Name					
N402	156	State or Province Code	0	ID 2/2			
		Code (Standard State/Province) as defined by appropriate government agency					
		Bill To State Code					
N403	116	Postal Code	0	ID 3/15			
		Code defining international postal zone code excluding pur (zip code for United States)	ectuatio	n and blanks			
		Bill To Postal Code					
N404	26	Country Code	O	ID 2/3			
		Code identifying the country					
		Bill To Country Code (i.e. USA)					

LIN Item Identification **Segment:** 

010 **Position:** 

> LIN Loop: Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

**Purpose:** To specify basic item identification data

If either LIN04 or LIN05 is present, then the other is required. **Syntax Notes:** 

- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes: Comments:** 

- LIN01 is the line item identification
- 1 See the Data Dictionary for a complete list of IDs.
- LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** 

Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

### **Data Element Summary**

			Data Elem	ent Summary		
	Ref.	Data	<b>%</b> T		A 44 . 91	
	Des.	Element	Name	.•	Attrib	
>>	LIN01	350	Assigned Identifica	ation	O	AN 1/20
			Alphanumeric chara	acters assigned for differentiation within	n a trans	saction set
			A unique sequential	I number for each line item within this t	ransacti	ion set.
$\mathbf{M}$	LIN02	235	Product/Service II	) Qualifier	M	ID 2/2
			Code identifying the Product/Service ID SH	e type/source of the descriptive number (234) Service Requested	used in	l
				A numeric or alphanumeric code from available to the customer Supplier to Distribution Company Enrollment Request	n a list o	of services
			SV	Service Rendered		
				Distribution Company to Supplier Successful Enrollment Response R Enrollment Error Response	Received	i
$\mathbf{M}$	LIN03	234	Product/Service II	)	M	AN 1/48
			Identifying number	for a product or service		
			EL	Electric Service		

Indicates a customer request to obtain electric service.

>>	LIN04	235	Product/Service II	) Qualifier	X	ID 2/2
			Code identifying th	e type/source of the descriptive number u	sed ir	ı
			Product/Service ID	(234)		
			SH	Service Requested		
				A numeric or alphanumeric code from a available to the customer	list o	of services
>>	LIN05	234	Product/Service II	)	$\mathbf{X}$	AN 1/48
			Identifying number	for a product or service		
			CE	Customer Enrollment		

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

### **Data Element Summary**

	Data Element Summary							
	Ref.	Data						
M	<u>Des.</u> ASI01	Element 206	Name		Attrib			
M	ASIUI	306	Action Code		IVI	ID 1/2		
			Code indicating ty	pe of action				
			7	Request				
				Supplier To Distribution Company: Enroll Customer				
			U	Reject				
				Inability to accept for processing due required information	to the l	ack of		
				Distribution Company To Supplier:				
				Error Response				
			WQ	Accept				
				Distribution Company To Supplier: Successful Enrollment				
M	ASI02	875	Maintenance Typ	oe Code	$\mathbf{M}$	ID 3/3		
			Code identifying t	he specific type of item maintenance				
			021	Addition				
				Use when requesting or confirming a Supplier To Distribution Company: Enroll Customer	new se	rvice.		
				Distribution Company To Supplier: Successful Enrollment Error on Enrollment Transaction				
				Distribution Company To Supplier: Successful Enrollment				

Error on Enrollment Transaction

Segment: REF Reference Identification - Supplier Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

**Notes:** Required by NSTAR.

REF\*11\*0123465789

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attributes</b>	
M	REF01	128	Reference Identificati	on Qualifier	$\mathbf{M} \mathbf{ID}\ 2/3$	
			Code qualifying the Re	eference Identification		
			11 A	ccount Number		
			N	umber identifies a telecommunication	ons industry account	
			S	upplier Account Number.		
>>	REF02	127	Reference Identificati	on	X AN 1/30	
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Supplier Account Num	ber for the end use customer.		

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Notes:** 

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

For Northeast Utilities this is the BA ID.

REF\*12\*0512313131

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier Code qualifying the Reference Identification	Attributes M ID 2/3
			12 Billing Account Account number under wh	hich billing is rendered
			Distribution Company	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular specified by the Reference Identification Quality	
			Distribution Company - assigned end use custo	mer account number.

Segment:  ${f REF}$  Reference Identification - Old Distribution Co. Acct Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attributes M ID 2/3
			Code qualifying the Reference Identification	
			45 Old Account Number	
			Identifies accounts being changed	l
			Distribution Company	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transspecified by the Reference Identification Qualifier	saction Set or as
			Distribution Company - Old Account Number for the	end use customer.

Segment: REF Reference Identification - Billing Cycle

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	ation Qualifier	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			BF	Billing Center Identification		
				Billing cycle.		
>>	REF02	127	Reference Identific	ation	X	AN 1/30
				on as defined for a particular Transaction on as defined for a particular Transaction Qualifier	on Set o	or as
			Billing cycle number	r when the bill will be rendered.		

Segment: **REF** Reference Identification - Billing Option

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	ation Qualifier	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			BLT	Billing Type		
				Identifies whether the bill is consolidate whether each party will prepare their of REF02 for valid values.	_	
>>	REF02	127	Reference Identific	ation	$\mathbf{X}$	AN 1/30
				on as defined for a particular Transaction erence Identification Qualifier	on Set o	or as
			DUAL	The Distribution Company and the Su customer their own charges with separthrough billing)		
				Pass Through billing		
			LDC	The Distribution Company bills the cu distribution company and supplier cha billing)		
				Complete Billing		

Segment: REF Reference Identification - Public Aggregator

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

Notes: Used by NSTAR for Aggregated suppliers for Cape Light or Town of Ashland

REF\*PG\*CAPE REF\*PG\*ASHL

M	Ref. <u>Des.</u> REF01	Data Element 128		Identification Qualifier fying the Reference Identification	Attrib M	outes ID 2/3
				public or private group that aggregates and contracts load on their behalf.  Product Group		
				Aggregator Code		
>>	REF02	127	Reference	Identification	X	AN 1/30
				information as defined for a particular Transaction y the Reference Identification Qualifier Code	n Set (	or as

Segment: REF Reference Identification - Rejection Reason

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

This convention of the REF segment is used primarily to convey status reason codes in response to a Request.

### **Data Element Summary**

			Data Ele	ment Summary		
	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>		Attrib	<u>utes</u>
M	REF01	128	Reference Identi	fication Qualifier	$\mathbf{M}$	ID 2/3
			Code qualifying t	he Reference Identification		
			7G	Data Quality Reject Reason		
				Reject reasons associated with a reject notification.	et status	
>>	REF02	127	Reference Identi	fication	X	AN 1/30
			specified by the R	ation as defined for a particular Transact Reference Identification Qualifier		
			_	des have been identified by the UIG to co es may be used by agreement of the tradi	•	
			008	Account exists but is not active		
			A13	Other - (Ref03 required) Send email time A13 is used for a new purpose	to MA E	BT each
			A74	Invalid Supplier Account Number		
			A76	Account not found - (This includes in numbers)	ıvalid ac	count
			A77	Name specified does not match according	ant	
			ABN	Duplicate request received		
			ACI	Action Code Invalid - (ASI01)		
			ANK	Invalid source of information		
			ANL	Service provider not licensed to prov	ide reque	ested service
			B30	Currently Enrolled		
			DIV	Date Invalid		
			FRB	Incorrect Billing Option (REF*BLT)	-	
			TEI	Tax Exemption Percentage (AMT*D	P) invali	.d
			UND	Cannot identify Supplier		
			UNE	Cannot identify LDC		
			W05	Requested Rate not found or not in edute - (Rate Ready Only)	ffect on t	the requested
D	REF03	352	Description		X	AN 1/80
			A free form descr	rintian to algrify the related data elements	a and the	ir contant

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

Used to further describe the status reason code sent in REF02.

STATUS CODES

Completion Status Code (C.S.C.)

100 Successful Enrollment Transaction Received

999 Errors on Transaction

Account (A) and Service (S) Level

Error Codes

A 101 Invalid Detail Record Indicator

A 102 Invalid Supplier Account Number

A 103 Invalid Distribution Company Account Number

A 104 Invalid Distribution Company Customer Name

A 107 Invalid Billing Option

S 109 Invalid Supplier Rate Code

S 110 Invalid Supplier Pricing Option

S 111 Invalid Type of Service Indicator

S 112 Invalid Service Identifier

A 114 Invalid Sales Tax Indicator

A 153 Invalid Supplier Identifier

A 154 Invalid Distribution Company Identifier

A 164 Customer Already Enrolled

A 165 Supplier on Probation

S 166 Invalid Related Service Failed

A 167 Customer Already Enrolled for Same Supplier

A 170 Invalid Public Aggregator Code

A 177 Invalid Customer Status

**REF** Reference Identification - STD Point Location Code **Segment:** 

030 **Position:** 

> LIN Loop: Optional (Must Use)

Level: Detail Usage: Optional 1

Max Use:

**Purpose:** To specify identifying information

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

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

Notes:

The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF\*SPL\*\*ZONE identified. The zone would also be issued on a MOVE transaction and a successful response to a Historical Usage Request, 867 Document.

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier Code qualifying the Reference Identification		Attrib M	outes ID 2/3
			Identifies a public or private group that aggregates customers and contracts load on their behalf.			
			SPL	Standard Point Location Code (SPLC	Z)	
				Standard Point Location Code (SPLO Point at which the customer is conne transmission grid (ISO NE Zone). This represents the Wholesale Settler	cted to the	
>>	REF03	352	Description		X	AN 1/80
			A free-form descrip	tion to clarify the related data elements	s and the	eir content
			ISO NE ZONES: NEMASSBOST NEWHAMPSHI RHODEISLAND SEMASS WCMASS			

Segment: REF Reference Identification - Current Budget Billing Status

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

**Notes:** 

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference	· Identification Qualifier	Attrib M	utes ID 2/3
			Code qual	ifying the Reference Identification		
			NR	Progress Payment Number		
				The enrolling customer is on budget bil	lling.	
>>	REF02	127	Reference	dentification	X	AN 1/30

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

N The enrolling customer is not on budget billing.

Y The enrolling customer is, or will be, on budget billing.

**REF** Reference Identification - No ICAP Tag **Segment:** 

030 **Position:** 

> LIN Loop: Optional (Must Use)

Level: Detail Usage: Optional Max Use: 1

**Purpose:** To specify identifying information

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

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. 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes: Comments:** 

Notes:

# **Data Element Summary**

			2	••		
M	Ref. <u>Des.</u> REF01	Data Element 128	Name Poforonce Ident	tification Qualifier	Attrib M	outes ID 2/3
IVI	KETUI	120		•	IVI	110 2/3
			Code qualifying	the Reference Identification		
			KC	Exhibit Distribution List		
				Capacity obligation/Load responsibil contribution provided to the ISO for Obligations.	•	
>>	REF02	127	Reference Ident	tification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			Literal "NO ICA	P TAG"		
			The REF*KC se	gment will only be sent if the ICAP Tag v	alue in	the
			Application file	is blank. (A default value of Zero will be	entered	in the AMT

Segments AMT02 element.)

Segment: **REF** Reference Identification - Special Meter Configuration

**Position:** 035

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Notes:** 

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

Not used by NSTAR (see REFPRT). Not used by WMECO

Example: REF\*KY\*NETMETER

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identif Code qualifying the	ication Qualifier ne Reference Identification	Attrib M	outes ID 2/3
			KY	Site Specific Procedures, Terms, and	Conditi	ons
				Special Meter Configuration		
>>	REF02	127	Reference Identif	ication	X	AN 1/30
				ation as defined for a particular Transacti eference Identification Qualifier Net Metering Present	ion Set o	or as
	REF03	352	Description		0	AN 1/80
			A tree-form descr	iption to clarify the related data elements	s and the	er content

Segment: REF Reference Identification - Load Asset Identfier

**Position:** 038

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

Notes: Optional. Sent by Eversource West

REF\*1J\*17777

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identific	cation Qualifier  Reference Identification	Attrib M	outes ID 2/3
			1 J S	Facility ID Number Load Asset Identifier		
	REF02	127	Reference Identification		X	AN 1/30
			specified by the Re	ion as defined for a particular Transaction ference Identification Qualifier er assigned to Supplier by ISO New Eng		or as

Segment: DTM Date/Time Reference - Effective

**Position:** 040

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** DTM06 should include only the date, not the time.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
M	DTM01	374	Date/Time Qualifier	•	$\mathbf{M}$	ID 3/3
			Code specifying type	of date or time, or both date and time		
			007	Effective		
				Date upon which an addition, change,	or dele	tion is
				requested to become effective or will	become	e effective.
>>	DTM05	1250	Date Time Period F	ormat Qualifier	X	ID 2/3
			Code indicating the d	late format, time format, or date and time	me forn	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	<b>DTM06</b>	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date,	a time, or range of dates, times or date	es and t	imes
			Effective Date of Ser	vice in CCYYMMDD format only.		

Segment: AMT Monetary Amount - Sales Tax

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

M	Ref.           Des.           AMT01	Data Element 522	<u>Name</u> Amount Qualifier (	Code	Attributes M ID 1/3
			Code to qualify amo	unt	
			DP	Exemption	
			_	This code is used when a portion of the is exempt from taxation. Element AM percentage of the service that is tax exempts and the service that is tax exempts.	IT02 identifies the
			T	Tax	
				This code used to identify the entire lo	ad as taxable.
M	AMT02	782	<b>Monetary Amount</b>		M R 1/18
			Monetary amount		
		For percentage values, the whole number "1" represents 100 pumbers less than "1" represent percentages from 1 percent to	*		
			1	100 percent	
				This code is used when the customer is taxable or 100% exempt.	s either 100%

Segment: AMT Monetary Amount - ICAP Tag

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
ax Use: 1

Max Use: 1
Purpose: To indicate the total monetary amount

Syntax Notes: Semantic Notes:

M

**Comments:** 

AMT02

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

**782** 

# **Data Element Summary**

M	Ref. <u>Des.</u> AMT01	Data Element 522	<u>Name</u> Amount Quali	ifier Code Attributes M ID 1/3
			Code to qualify	amount
			KC	Obligated
				An amount a party has an obligation to pay upon a successful performance by another party, (e.g., funds obligated on a contract)
				Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations.

**Monetary Amount**Monetary Amount

ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal.)

(To determine if a zero in this field is the ICAP TAG or the default value refer to the REF\*KC segment REF02 element description).

 $\mathbf{M}$ 

R 1/18

Segment: AMT Monetary Amount - Supplier Fixed Charge

**Position:** 068

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

**Notes:** Used by Eversource as part of Omni system.

Not used by NGRID, Unitil, Liberty.

ESP - LDC Request: Optional ESP - LDC Response: Optional

This segment is sent by the Supplier when the customer's bill option is Rate Ready consolidated billing and the Supplier wants to bill the customer for a fixed charge amount

in addition to the rate per kwh (REF\*PR).

AMT~FW~2.00 AMT~FW~10 AMT~FW~0

# **Data Element Summary**

M	Ref. <u>Des.</u> AMT01	Data Element 522	Name Amount Qualifier Code to qualify amo		Attributes M ID 1/3
			FW	Flat Fee Paid Current Month AMT02 contains the fixed charge an billed to the Supplier's customers exp monetary amount.	

M AMT02 782 Monetary Amount

M R 1/18

Monetary amount

This element is a real number. See Front Matter Notes regarding the syntax for real numbers.

Segment: NM1 Individual or Organizational Name

**Position:** 080

Loop: NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

2 If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	outes
M	NM101	98	<b>Entity Identifi</b>	ier Code	M	ID 2/3
			Code identifyir individual	ng an organizational entity, a physical	location, proj	perty or an
			MQ	Metering Location		
$\mathbf{M}$	NM102	1065	<b>Entity Type Q</b>	ualifier	M	<b>ID</b> 1/1
			Code qualifyin	g the type of entity		
			3	Unknown		
				Placeholder field only.		

Segment:  ${f REF}$  Reference Identification - Old Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Ident	ification Qualifier	Attrib M	outes ID 2/3
			Code qualifying	the Reference Identification		
			46	Old Meter Number		
				Identifies meters being removed		
				Identifies the customers' old specific	service.	
>>	REF02	127	Reference Ident	ification	X	AN 1/30
				nation as defined for a particular Transacti Reference Identification Qualifier	ion Set o	or as
			The reference ide	entification could be an old meter number	or other	old service

Segment: REF Reference Identification - Load Profile

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	•	Attrib M	outes ID 2/3
			Code qualifying the	Reference Identification		
			LO	Load Planning Number		
				Load Profile		
>>	REF02	127	Reference Identific	cation	X	AN 1/30
				ion as defined for a particular Transacti ference Identification Qualifier	ion Set o	or as
			Load Profile Code			

Segment: REF Reference Identification - Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

REF04 contains data relating to the value cited in REF02.

**Data Element Summary** 

# Eversource West and Eversource North use this as the Service Account Identifier (SAID)

M	Ref. <u>Des.</u> REF01	Data Element 128	Reference Idea	ntification Qualifier g the Reference Identification	Attrib M	outes ID 2/3
			MG	Meter Number Identifies a specific service.		
>>	REF02	127	specified by the	ntification  rmation as defined for a particular Transace e Reference Identification Qualifier dentification could be a meter number or of		

Segment:  ${f REF}$  Reference Identification - Distribution Company Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	<u>Name</u> Reference Identific	cation Qualifier	Attrib M	outes ID 2/3
			Code qualifying the	Reference Identification		
			NH	Rate Card Number		
				Rate Class or Tariff Identifier.		
>>	REF02	127	Reference Identifie	cation	X	AN 1/30
				ion as defined for a particular Transact ference Identification Qualifier	ion Set o	or as
			Distribution Compa	ny Rate or Tariff Code.		

**REF** Reference Identification - Type of Service **Segment:** 

130 **Position:** 

Loop: NM1 Optional (Must Use)

Level: Detail Mandatory Usage:

Max Use: 1

**Purpose:** To specify identifying information

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

 $\mathbf{X}$ 

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

			Data Elem	ent Summary		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	cation Qualifier	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			PRT	Product Type		
				Identifies the type of service being procustomer.	ovided t	to the
>>	REF02	127	Reference Identific	cation	X	AN 1/30
			specified by the Ref Used to identify the	ion as defined for a particular Transaction as defined for a particular Transaction Qualifier means by which service is provided to the type of metering installed or the type ded to the customer.	the cus	tomer.
			A	Apply to All Services		
			C	Combined Service (Multiple Meters B	illed as	a Summary)
			D	Metered Service Demand & kWh		
			E	Metered Service kWh		
			F	Metered Service TOU - Off Peak		
			Н	Controlled Hot Water		
			L	Lighting Service		
			N	Non-Metered Service		
			O	Metered Service TOU - On Peak		
			T	Metered Service TOU		
R	REF03	352	Description		X	AN 1/80
				tion to clarify the related data elements	and the	eir content
			To indicate presence	e of Net Meter		

Net Meter

Segment: REF Reference Identification - Supplier Pricing Structure

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Notes:** 

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

Northeast Utilities assumes the decimal is after the first digit. Not used by NStar because

rate setup is done pre-enroll outside of EDI.

REF\*PR\*0973 = \$0.973

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identific	cation Qualifier	Attrib M	utes ID 2/3		
			Code qualifying the	Reference Identification				
			PR	Price Quote Number				
				Identifies a unit price category under a customer.	a rate co	ode for the		
>>	REF02	127	Reference Identific	cation	$\mathbf{X}$	AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
			Unit pricing categor	ry code.				

Segment: **REF** Reference Identification - Supplier Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

Northeast Utilties expects CUS. NStar requires pre-enrollment rate setup.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

REF\*RB\*CUS

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>		<u>Attributes</u>
M	REF01	128	Reference Identif	ication Qualifier	M ID 2/3
			Code qualifying th	e Reference Identification	
			RB	Rate code number	
				Identifies the Supplier Rate Class for	this customer.
>>	REF02	127	Reference Identif	ication	X AN 1/30
				tion as defined for a particular Transact eference Identification Qualifier	ion Set or as
			Supplier Rate Clas	s code.	

Segment: REF Reference Identification - Reject Reason

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

			Data Elem	chi Summary	
	Ref.	Data Element	Nome		A ttuibutas
M	<u>Des.</u> REF01	Element 128	Name Reference Identific	ation Qualifier	Attributes M ID 2/3
				Reference Identification	
			7G	Data Quality Reject Reason	
				Reject reasons associated with a reject	et status
				notification.	
	DEE04	105	D.C. 11 4'6'	Service Level Rejections	N AN 1/20
>>	REF02	127	Reference Identific		X AN 1/30
				on as defined for a particular Transacti erence Identification Qualifier	on Set or as
			A13	Other - (Ref03 required) Send email t	o MA EBT each
				time A13 is used for a new purpose	
			. 02	See explanation in REF03	1:1.
			A83	Unauthorized or invalid action - (Invaindicator, REF*PRT)	alid type of service
			MNM	Invalid Service Identifier	
			PCI	Price Code invalid	
			W05	Requested Rate not found or not in ef date - (Rate Ready Only)	fect on the requested
>>	REF03	352	Description	3/	X AN 1/80
			A free-form descrip	tion to clarify the related data elements	and their content
				ribe the status reason code sent in REF	02.
			STATUS CODES	C-1-(CCC)	
			Completion Status (	Enrollment Transaction Received	
			999 Errors on T		
			Account (A) and Se	rvice (S) Level	
			Error Codes		
				Detail Record Indicator	
				upplier Account Number Distribution Company Account Number	r
				Distribution Company Account Number	
			A 107 Invalid E		
			S 109 Invalid S	upplier Rate Code	
			S 110 Invalid S	upplier Pricing Option	
				ype of Service Indicator	
			S 112 Invalid S	ervice Identifier	

- A 114 Invalid Sales Tax Indicator
- A 153 Invalid Supplier Identifier
- A 154 Invalid Distribution Company Identifier
- A 164 Customer Already Enrolled
- A 165 Supplier on Probation
- S 166 Invalid Related Service Failed
- A 167 Customer Already Enrolled for Same Supplier
- A 170 Invalid Public Aggregator Code
- A 177 Invalid Customer Status

SE Transaction Set Trailer **Segment:** 

**Position:** 

Loop:

Level: Detail Usage: Mandatory

Max Use:

**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.

M	Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Attrib M	outes NO 1/10
171	SEUI	70	Number of included Segments	141	110 1/10
			Total number of segments included in a transaction set included segments	luding S	ST and SE
M	SE02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio		ion set

# MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

**TRANSACTION SET** 

814

Historical Request, Rejection Response Ver/Rel 004010

# **Summary of Changes**

August 2, 1999

Initial Release – Version 99.1

April 15, 2002

- Added REF\*LO Segment for Load Profile Codes
- Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
- Sequenced the Segments to agree with the UIG Guides
- Added Status reason code tables to REF\*7G Segment
- Added/or changes some data element descriptions for clarification
- Removed REF\*RB REF02 element table description that didn't pertain to MA

June 30, 2004

- Added Service Address N3 and N4 segments for MOVE transaction.
- Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
- Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
- Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
- Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. REF\*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.

(Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

July 6, 2011

- Add new REF1P segment with REF02 values for use in 814 Drop requests
  - REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed'
  - REF02 Code: CHA', REF03 Description: 'Customer Changed to Another Service Provider'
  - REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service'
  - REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'
- Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007
  - BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.

January 14, 2015

November 4, 2015 Version 2.0

January 31, 2024 Version 2.1

- Separated into own document.
- Added REF03 to REF\*PRT for Net Meter Indicator
- Final Release
- Incorporated CC 026
  - clarify the requirements for the N101 value for the N1\*8R segment
- Incorporated CC 033
  - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

# 814 General Request, Response or Confirmation

# Functional Group ID=GE

# **Heading:**

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M	010	<u>ID</u> ST	Transaction Set Header	M	1	<u></u>
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	О	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	

# **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	О	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	O	1	
	030	REF	Reference Identification - Rejection Reason	O	>1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	О	1	
	130	REF	Reference Identification - Service Identifier	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	SE	Transaction Set Trailer	M	1	<u> </u>

Segment: ST Transaction Set Header

**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:** 

M	Ref. <u>Des.</u> ST01	Data Element 143	Name A Transaction Set Identifier Code	ttrib M	outes ID 3/3
			Code uniquely identifying a Transaction Set 814 General Request, Response or Confirmat	tion	
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the transfunctional group assigned by the originator for a transaction so		ion set
			Unique number generated by Sender's Translator		

Segment: BGN Beginning Segment

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** To indicate the beginning of a transaction set

Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
 Semantic Notes: 1 BGN02 is the transaction set reference number.

2 BGN03 is the transaction set date.

**3** BGN04 is the transaction set time.

4 BGN05 is the transaction set time qualifier.

5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

### **Comments:**

			Data Elem	cht builliai y			
	Ref.	Data					
	Des.	<b>Element</b>	Name		Attrib		
M	BGN01	353	Transaction Set Pu	irpose Code	M	ID 2/2	
			Code identifying pu	rpose of transaction set			
			11	Response			
				Distribution Company to Supplier Historical Usage Request Error			
			13	Request			
				Supplier to Distribution Company Historical Usage Request			
M	BGN02	127	Reference Identific	cation	M	AN 1/30	
			Reference Identification  Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Request: Unique Tracking Identification Number assigned by the Senders applicanter and the Senders and the S				
M	BGN03	373	Date		M	<b>DT 8/8</b>	
			Date expressed as C				
				ation date. This is the date that the tran	saction	was created	
	D. 03-10-5	4	by the sender's appl			137.4/22	
	BGN06	127	Reference Identific	cation	О	AN 1/30	

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Unique Tracking Identification Number sent with the originating transaction. If not contained in the BGN02

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
M	N101	98	<b>Entity Identifier C</b>	ode	$\mathbf{M}$	ID 2/3
			Code identifying an individual 8S	organizational entity, a physical locatio Consumer Service Provider (CSP)	n, prop	erty or an
				Distribution Company		
	N102	93	Name		X	AN 1/60
			Free-form name			
			Distribution Compa	ny Name (Text)		
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used	for Ide	entification
			l	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with F Suffix	our Ch	aracter
>>	N104	67	<b>Identification Code</b>		X	AN 2/80
			Code identifying a p	party or other code		
			Distribution Compa	ny D-U-N-S Number		

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>		
M	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3		
			Code identifying an individual	organizational entity, a physical location	n, prop	perty or an		
			SJ	Service Provider				
				Identifies name and address information service provider for which billing is be Supplier	-	-		
	N102	93	Name		X	AN 1/60		
			Free-form name					
			Supplier Name (Tex	at)	on as pertaining to a eing rendered  X AN 1/60  X ID 1/2 I for Identification			
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2		
			Code designating th Code (67)	e system/method of code structure used	for Ide	entification		
			1	D-U-N-S Number, Dun & Bradstreet				
			9	D-U-N-S+4, D-U-N-S Number with Fe	our Ch	aracter		
				Suffix				
>>	N104	67	Identification Code		X	AN 2/80		
			Code identifying a party or other code					
			Supplier D-U-N-S N	Number				

Segment: N1 Name - Customer

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier Co		Attrib M	outes ID 2/3
			Code identifying an individual 8R	n, prop stomer	•	
				Customer		
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Required for Reside This field will conta	ny Customer Name Key ntial customers only. in the first four characters st name as it appears on the bill.		

Segment: N3 Address Information

**Position:** 060

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional

Max Use: 2

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

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attribi</u>	<u>ites</u>
M	N301	166	Address Information	M	AN 1/55
			Address information		
	N302	166	<b>Address Information</b>	0	AN 1/55
			Address information		

Segment: N4 Geographic Location

**Position:** 070

Loop: N1 Optional (Must Use)

Level: Heading Usage: Optional

Max Use:

**Purpose:** To specify the geographic place of the named party

Syntax Notes: Semantic Notes: Comments: 1 If N406 is present, then N405 is required.

- A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attrib	<u>outes</u>
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate	governn	nent agency
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding pu (zip code for United States)	nctuatio	n and blanks
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
N405	309	Location Qualifier	X	ID 1/2
		Code identifying type of location		
		CO County/Parish and State		
N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment:	LIN	Item	Identification
----------	-----	------	----------------

**Position:** 010

> Loop: LIN Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use:

**Purpose:** To specify basic item identification data

**Syntax Notes:** 

- If either LIN04 or LIN05 is present, then the other is required.
- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- If either LIN10 or LIN11 is present, then the other is required. 4
- 5 If either LIN12 or LIN13 is present, then the other is required.
- If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- If either LIN18 or LIN19 is present, then the other is required.
- If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

### **Semantic Notes:** LIN01 is the line item identification **Comments:**

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

LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** 

Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	outes
>>	LIN01	350	<b>Assigned Identific</b>	ation	O	AN 1/20
			Alphanumeric char	acters assigned for differentiation within	in a trans	saction set
			A unique sequentia	l number for each line item within this	transacti	ion set.
M	LIN02	235	Product/Service II	O Qualifier	M	ID 2/2
			Code identifying the Product/Service ID	e type/source of the descriptive numbe (234)	r used in	1
			SH	Service Requested		
				A numeric or alphanumeric code from available to the customer	n a list o	of services
				Supplier to Distribution Company Historical Usage Request		
			SV	Service Rendered		
				Distribution Company to Supplier Historical Usage Request Error Re	sponse	
M	LIN03	234	Product/Service II	0	M	AN 1/48
			Identifying number	for a product or service		
			EL	Electric Service		
				Indicates a customer request to obtain	n electric	c service.
>>	LIN04	235	Product/Service II	Qualifier	X	ID 2/2
			Code identifying the Product/Service ID	e type/source of the descriptive numbe (234)	r used in	1

SH Service Requested

A numeric or alphanumeric code from a list of services

available to the customer

>> LIN05 234 Product/Service ID X AN 1/48

Identifying number for a product or service

HU Historical Usage

Indicates an ESP request to obtain historical usage information for this customer. This information would be returned on an EDI 867 Transaction Set.

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

# **Data Element Summary**

M	Ref. <u>Des.</u> ASI01	Data Element 306	Name Action Code Code indicating t	type of action	Attributes M ID 1/2
			7	Request	
				Supplier To Distribution Company: Historical Usage Request	
			U	Reject	
				Inability to accept for processing due required information	to the lack of
				Distribution Company To Supplier:	
				Error Response	
$\mathbf{M}$	ASI02	875	Maintenance Ty	pe Code	M ID 3/3

Code identifying the specific type of item maintenance

066 Status Request

A status request asks for current claim information for the purposes of compliance, audit, or other claim assessment

function

Supplier To Distribution Company:

Historical Usage Request

Distribution Company To Supplier: Historical Usage Error Response Segment: REF Reference Identification - Supplier Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a tele	ecommunications industry account
			Supplier	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a partic specified by the Reference Identification Qua	
			Supplier Account Number for the end use cus	stomer.

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attributes M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which	h billing is rendered
			Distribution Company	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular specified by the Reference Identification Qualifier	
			Distribution Company - assigned end use custome	er account number.

Segment:  $\operatorname{REF}$  Reference Identification - Rejection Reason

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

If either C04005 or C04006 is present, then the other is required.
 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

**Notes:** 

This convention of the REF segment is used primarily to convey status reason codes in response to a Request.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code qualifying the Reference Identification	Attributes M ID 2/3
			7G Data Quality Reject Reason	
			Reject reasons associated with a r notification.	reject status
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Trans specified by the Reference Identification Qualifier The following codes have been identified by the UIG t codes. Other codes may be used by agreement of the transcessary.  A13 Other	o convey status reason
R	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elem	ents and their content
			Used to further describe the status reason code sent in ISTATUS CODES  Completion Status Code (C.S.C.) 999 Errors on Transaction  Account (A) and Service (S) Level  Error Codes  A 101 Invalid Detail Record Indicator  A 102 Invalid Supplier Account Number  A 103 Invalid Distribution Company Account Nur  A 104 Invalid Distribution Company Customer Na  A 153 Invalid Supplier Identifier  A 154 Invalid Distribution Company Identifier  A 165 Supplier on Probation  S 166 Invalid Related Service Failed  A 178 No Customer History Available	mber

Segment: NM1 Individual or Organizational Name

**Position:** 080

Loop: NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>
M	NM101	98	<b>Entity Identifier C</b>	ode	$\mathbf{M}$	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			MQ	Metering Location		
M	NM102	1065	<b>Entity Type Qualif</b>	ïer	M	ID 1/1
			Code qualifying the	type of entity		
			3	Unknown		
				Placeholder field only.		

 ${f REF}$  Reference Identification - Service Identifier **Segment:** 

**Position:** 

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

To specify identifying information **Purpose:** 

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

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.

REF04 contains data relating to the value cited in REF02.

**Semantic Notes: Comments:** 

> **Notes:** Eversource West and North used this as the Service Agreement Identifier (SAID)

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Element 128	<u>Name</u> Reference Ident	ification Qualifier	<u>Attrib</u> M	outes ID 2/3	
			Code qualifying	the Reference Identification			
			MG	Meter Number			
				Identifies a specific service.			
>>	REF02	127	Reference Ident	ification	X	AN 1/30	
			Reference information as defined for a particular Transaction Set or as				

specified by the Reference Identification Qualifier

The reference identification could be a meter number or other service code or

Attributes

X AN 1/80

REF Reference Identification - Reject Reason **Segment:** 

**Position:** 

NM1 Loop: Optional (Must Use)

Level: Detail Usage: Optional Max Use:

Data

**Element** 

128

127

352

**Purpose:** To specify identifying information

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

Name

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:** 

M

>>

R

Ref.

Des.

REF01

REF02

REF03

1 REF04 contains data relating to the value cited in REF02.

**Data Element Summary** 

# **Reference Identification Qualifier**

M ID 2/3 Code qualifying the Reference Identification

7G Data Quality Reject Reason

Reject reasons associated with a reject status notification.

**Reference Identification** 

X AN 1/30

Reference information as defined for a particular Transaction Set or as

See explanation in REF03

specified by the Reference Identification Qualifier

A13 Other

**Description** 

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

Used to further describe the status reason code sent in REF02.

STATUS CODES

Completion Status Code (C.S.C.) 999 Errors on Transaction

Account (A) and Service (S) Level

Error Codes

A 101 Invalid Detail Record Indicator

Invalid Supplier Account Number 102

103 Invalid Distribution Company Account Number Α

A 104 Invalid Distribution Company Customer Name

S 111 Invalid Type of Service Indicator

S 112 Invalid Service Identifier

Α 153 Invalid Supplier Identifier

154 Invalid Distribution Company Identifier Α

165 Supplier on Probation Α

166 Invalid Related Service Failed S

178 No Customer History Available

Segment: **SE** Transaction Set Trailer

**Position:** 150

Loop:

Level: Detail Usage: Mandatory

Max Use:

**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.

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

# MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

TRANSACTION SET

814

**Seamless Move Request** 

Ver/Rel 004010

August 2, 1999 April 15, 2002

June 30, 2004

Summary of Changes Initial Release – Version 99.1

transaction.

- Added REF\*LO Segment for Load Profile Codes
  - Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
  - Sequenced the Segments to agree with the UIG Guides
  - Added Status reason code tables to REF\*7G Segment
  - Added/or changes some data element descriptions for clarification
  - Removed REF\*RB REF02 element table description that didn't pertain to MA
  - didn't pertain to MA
     Added Service Address N3 and N4 segments for MOVE
  - Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
  - Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
  - Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
  - Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
  - Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. REF\*NR indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change segment and an AMT segment to carry the ICAP VALUE.
   (Remember that an ICAP VALUE can be zero as a valid

value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

July 6, 2011

- Add new REF1P segment with REF02 values for use in 814 Drop requests
  - 1. REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed'
  - 2. REF02 Code: CHA', REF03 Description: 'Customer Changed to Another Service Provider'
  - 3. REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service'
  - 4. REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'
- Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007
  - 1. BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - 2. LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - 3. ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - 4. ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - 5. DTM007: Effective Date to be included in transaction (under discussion by utilities) date of next meter read as sent on the drop that this transaction is cancelling.

January 22, 2015

Separated into own document

November 4, 2015 Version 2.0

Final Release

January 31, 2024 Version 2.1

- Incorporated CC 026
  - clarify the requirements for the N101 value for the N1\*8R segment

# 814 General Request, Response or Confirmation

# Functional Group ID=GE

### **Heading:**

M	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	O	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	O	1	
	060	N3	Address Information	O	2	
	070	N4	Geographic Location	O	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	О	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	О	1	
			LOOP ID - N1			1
	040	N1	Name - Old Customer Name	0	1	

### **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	<u>Max.Use</u>	Loop <u>Repeat</u>
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	О	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	О	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	О	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Public Aggregator	O	1	
	030	REF	Reference Identification - Standard Point Location	О	1	
	035	REF	Reference Identification - Current Budget Billing Status	O	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	О	1	

	060	AMT	Monetary Amount - ICAP Tag	O	1		
			LOOP ID - NM1			>1	
Must Use	080	NM1	Individual or Organizational Name	O	1		
	130	REF	Reference Identification - Old Service Identifier	O	1		
	130	REF	Reference Identification - Load Profile	O	1		
	130	REF	Reference Identification - Service Identifier	O	1		
	130	REF	Reference Identification - Distribution Company Rate Code	O	1		
	130	REF	Reference Identification - Type of Service	O	1		
	130	REF	Reference Identification - Supplier Pricing Structure	O	1		
	130	REF	Reference Identification - Supplier Rate Code	O	1		
M	150	SE	Transaction Set Trailer	M	1		•

Segment: ST Transaction Set Header

**Position:** 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

**Purpose:** 

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

interchange partners to select the appropriate transaction set definition (e.g., 810

Syntax Notes:
Semantic Notes:

1 The transaction set identifier (ST01) is used by the translation routines of the

selects the Invoice Transaction Set).

**Comments:** 

			<i></i>		
	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>utes</u>
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			814 General Request, Response or Confirm	ation	
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the tra- functional group assigned by the originator for a transaction		ion set
			Unique number generated by Sender's Translator		

Segment: BGN Beginning Segment

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Data

Max Use: 1

Purpose: To indicate the beginning of a transaction set
 Syntax Notes: 1 If BGN05 is present, then BGN04 is required.
 Semantic Notes: 1 BGN02 is the transaction set reference number.

2 BGN03 is the transaction set date.

**3** BGN04 is the transaction set time.

**4** BGN05 is the transaction set time qualifier.

5 BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

**Comments:** 

Dof

M	Ref. <u>Des.</u> BGN01	Element 353	Name Transaction Set Purpose Code		Attrib M	utes ID 2/2	
			Code identifying pu	rpose of transaction set			
			14	Advance Notification			
				Distribution Company to Supplier Customer Move			
M	BGN02	127	Reference Identific	cation	M	AN 1/30	
				ion as defined for a particular Transaction ference Identification Qualifier	on Set o	or as	
			A unique transaction identification number, assigned by the original transaction. The identification number must be unique over time				
M	BGN03	373	Date		M	<b>DT 8/8</b>	
			Date expressed as C	CCYYMMDD			
			The transaction creaby the sender's appl	ation date. This is the date that the transication system.	action	was created	

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** 

Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

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

	Ref. Des.	Data <u>Element</u>	<u>Name</u>	·	Attrib	<u>outes</u>	
M	N101	98	Entity Identifier Code		M	ID 2/3	
			Code identifying an organizational entity, a physical location individual		n, proj	perty or an	
			8S Consumer Service Provider (CSP)				
				Distribution Company			
	N102	93	Name		X	AN 1/60	
			Free-form name				
			Distribution Company Name (Text)				
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2	
			Code designating the Code (67)	ne system/method of code structure used	for Ide	entification	
			1	D-U-N-S Number, Dun & Bradstreet			
>>	N104	67	<b>Identification Code</b>	e	X	AN 2/80	
			Code identifying a p	party or other code			
			Distribution Compa	ny D-U-N-S Number			

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>		Attrik	<u>outes</u>	
M	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3	
			Code identifying an individual	Code identifying an organizational entity, a physical location, pindividual		perty or an	
			SJ	Service Provider			
				Identifies name and address information service provider for which billing is be Supplier		_	
	N102	93	Name		X	AN 1/60	
			Free-form name				
			Supplier Name (Tex	xt)			
>>	N103	66	Identification Code	e Qualifier	X	ID 1/2	
	-1-00		Code designating the Code (67)	ne system/method of code structure used	for Id	entification	
			1	D-U-N-S Number, Dun & Bradstreet			
			9	D-U-N-S+4, D-U-N-S Number with Fe	our Cl	naracter	
				Suffix			
>>	N104	67	Identification Code	e	X	AN 2/80	
			Code identifying a party or other code				
			Supplier D-U-N-S N	Number			

Segment: N1 Name - Customer

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref. Des.	Data Element	Name		Attrib	outes
M	N101	98	Entity Identifier C	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	n, prop	erty or an
			8R	stomer		
				Customer		
>>	N102	93	Name		X	AN 1/60
			Free-form name			
			Required for Reside This field will conta	any Customer Name Key ential customers only.  ain the first four characters ast name as it appears on the bill.		

Segment: N3 Address Information

**Position:** 060

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional Max Use: 2

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

Syntax Notes: Semantic Notes: Comments:

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Attrib	outes
$\mathbf{M}$	N301	166	Address Information	M	AN 1/55
			Address information		
	N302	166	<b>Address Information</b>	0	AN 1/55
			Address information		

Segment: N4 Geographic Location

**Position:** 070

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

**Comments:** 

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attrib	<u>outes</u>
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate g	governn	nent agency
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding pur (zip code for United States)	nctuatio	n and blanks
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
N405	309	Location Qualifier	X	ID 1/2
		Code identifying type of location		
		CO County/Parish and State		
N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

Segment: N1 Name - Bill To Identifier

**Position:** 040

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

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

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

**Semantic Notes:** 

Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attrib</b>	<u>utes</u>
M	N101	98	<b>Entity Identifier C</b>	ode	$\mathbf{M}$	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	erty or an
			BT	Bill-to-Party		
				Used to identify a billing address for t associated with the service account ide NM1/REF segment.		
>>	N102	93	Name		$\mathbf{X}$	AN 1/60
			Free-form name			
			NV	No Value		

Segment: N3 Address Information

**Position:** 060

Loop: N1 Optional

Level: Heading Usage: Optional Max Use: 1

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

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information Address information	<u>Attrib</u> M	outes AN 1/55
			Bill To Address		
	N302	166	Address Information Address information Additional Address Information	0	AN 1/55

Segment: N4 Geographic Location

**Position:** 070

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

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

Ref.	Data						
Des.	<b>Element</b>	<u>Name</u>	<u>Attrib</u>	<u>utes</u>			
N401	19	City Name	O	AN 2/30			
		Free-form text for city name					
		Bill To City Name					
N402	156	State or Province Code	0	ID 2/2			
		Code (Standard State/Province) as defined by appropriate government agency					
		Bill To State Code					
N403	116	Postal Code	0	ID 3/15			
		Code defining international postal zone code excluding pur (zip code for United States)	nctuatio	n and blanks			
		Bill To Postal Code					
N404	26	Country Code	0	ID 2/3			
		Code identifying the country					
		Bill To Country Code (i.e. USA)					

Segment: N1 Name - Old Customer Name

**Position:** 040

Loop: N1 Optional

Level: Heading
Usage: Optional
Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier C	ode	Attributes M ID 2/3
			individual	organizational entity, a physical location	on, property or an
			AO	Account Of	
				Used to identify the former name or so the current end use customer. Used w name or written service address has ch replacement name or address will be q	then the customer nanged. The new,
>>	N102	93	Name		X AN 1/60
			Free-form name		
			of the Customers' la	omers, the field will contain the first for st name as it appears on the bill.	
				d Industrial customers, this field will come Company name as it appears on the b	

LIN Item Identification **Segment:** 

010 **Position:** 

> LIN Optional (Must Use) Loop:

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

**Purpose:** To specify basic item identification data

**Syntax Notes:** 

If either LIN04 or LIN05 is present, then the other is required.

- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required. 9
- If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required.
- If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes: Comments:** 

- LIN01 is the line item identification
- See the Data Dictionary for a complete list of IDs.
- LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attrib</b>	outes
>>	LIN01	350	Assigned Identifica	tion	0	AN 1/20
			Alphanumeric chara	cters assigned for differentiation within	a trans	saction set
			A unique sequential	number for each line item within this to	ransacti	ion set.
M	LIN02	235	Product/Service ID	Qualifier	M	ID 2/2
			Code identifying the Product/Service ID (	e type/source of the descriptive number (234) Service Rendered	used in	l
			3 V			
				Distribution Company to Supplier Customer Move		
M	LIN03	234	Product/Service ID		M	AN 1/48
			Identifying number	for a product or service		
			EL	Electric Service		
				Indicates a customer request to obtain	electric	e service.
>>	LIN04	235	Product/Service ID	Qualifier	X	ID 2/2
			Product/Service ID (	e type/source of the descriptive number (234)	used in	ı
			SH	Service Requested		
				A numeric or alphanumeric code from available to the customer	a list o	of services
>>	LIN05	234	Product/Service ID	)	X	AN 1/48

Identifying number for a product or service CE Customer Enrollment

Segment: ASI Action or Status Indicator

**Position:** 020

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

**Data Element Summary** 

 Ref. Data

 Des.
 Element Mame
 Name
 Attributes

 M
 ASI01
 306
 Action Code
 M ID 1/2

Code indicating type of action

27 Moved - Follow Up

Distribution Company To Supplier:

Used to designate a seamless transfer of ESP when a customer moves within a Utility's service territory.

M ASI02 875 Maintenance Type Code M ID 3/3

Code identifying the specific type of item maintenance

025 Reinstatement

To place in force again, without the usual probationary or service period, a group contract or an individual's group

insurance that for some reason has terminated

To place in force again, without the usual probationary

or service period.

Distribution Company To Supplier:

Customer Move

Segment:  ${f REF}$  Reference Identification - Supplier Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

			Data Element Summary	
	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
$\mathbf{M}$	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			11 Account Number	
			Number identifies a telecommu	nications industry account
			Supplier	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Tra specified by the Reference Identification Qualifier	nsaction Set or as
			Supplier Account Number for the end use customer.	

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	T. 0	<b>-</b>	Data Element Summary	
	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			12 Billing Account	
			Account number under which bill	ing is rendered
			Distribution Company	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Trans specified by the Reference Identification Qualifier	saction Set or as
			Distribution Company - assigned end use customer acc	count number.

Segment:  ${f REF}$  Reference Identification - Old Distribution Co. Acct Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualification Qualifying the Reference Identification Property Identification Qualifying the Reference Identification Property Identification Id		
			45 Old Accoun	nt Number ccounts being changed	
>>	REF02	127	specified by the Reference Identif	X AN 1/30  d for a particular Transaction Set or as iffication Qualifier count Number for the end use customer.	

Segment: REF Reference Identification - Billing Cycle

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	ation Qualifier Reference Identification	Attrib M	outes ID 2/3
			BF	Billing Center Identification Billing cycle.		
>>	REF02	127	Reference Identific	ation	X	AN 1/30
				on as defined for a particular Transacti erence Identification Qualifier	on Set	or as
			Billing cycle number	r when the bill will be rendered.		

Segment: **REF** Reference Identification - Billing Option

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Referenc	e Identification Qualifier	Attrib M	utes ID 2/3		
			Code qua	lifying the Reference Identification				
			BLT	Billing Type				
				Identifies whether the bill is consolidated whether each party will prepare their REF02 for valid values.	_			
>>	REF02	127	Referenc	e Identification	X	AN 1/30		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
			LDC	The Distribution Company bills the customer for	both the			
			dist	tribution company and supplier charges.				
			(Co	omplete Billing)				
			DUAL	The Distribution Company and the Supplier bill	the			
			cus	tomer their own charges with separate bills.				
			(Pa	ss thru Billing)				

Segment: REF Reference Identification - Public Aggregator

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	cation Qualifier  Reference Identification	Attrib M	outes ID 2/3
				or private group that aggregates racts load on their behalf. Product Group		
				Aggregator Code		
>>	REF02	127	Reference Identific	cation	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			or as
			Aggregator Code			

Segment: REF Reference Identification - Standard Point Location

**Position:** 030

**Loop:** LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

The Independent System Operator for New England (ISO-NE) has established 8 zonal areas within New England Power Pool in support of FERC's Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone would be issued on a MOVE transaction.

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128		tification Qualifier the Reference Identification  Attributes M ID 2/3
			SPL	Standard Point Location Code (SPLC) Standard Point Location Code (SPLC) Point at which the customer is connected to the transmission grid (ISO NE Zone). This represents the Wholesale Settlement Zone.
>>	REF03	352	Description	X AN 1/80

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

SO NE ZONES: NEMASSBOST

> NEWHAMPSHIRE RHODEISLAND

SEMASS WCMASS Segment:  ${f REF}$  Reference Identification - Current Budget Billing Status

**Position:** 035

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

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

**Comments:** 

			D	ata Element Summar y		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference	· Identification Qualifier	Attrib M	outes ID 2/3
			Code qual	ifying the Reference Identification		
			NR	Progress Payment Number		
				The customer is on budget billing		
	REF02	127	Reference	Identification	X	AN 1/30
			specified b	information as defined for a particular Transaction the Reference Identification Qualifier		or as
			N	The customer is not on budget billing		
			Y	The customer is on budget billing		

Segment: DTM Date/Time Reference - Effective

**Position:** 040

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore,

if specification of a time zone is necessary, DTM06 should include only the date, not the

time.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attrib</b>	<u>utes</u>
M	DTM01	374	Date/Time Qualifier	r	$\mathbf{M}$	ID 3/3
			Code specifying type	e of date or time, or both date and time		
			007	Effective		
				Date upon which an addition, change, requested to become effective or will		
>>	DTM05	1250	<b>Date Time Period F</b>	ormat Qualifier	$\mathbf{X}$	ID 2/3
			Code indicating the o	date format, time format, or date and time	me forn	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	DTM06	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date,	a time, or range of dates, times or date	es and t	imes
			Effective Date of Ser	rvice in CCYYMMDD format only.		

Segment: AMT Monetary Amount - Sales Tax

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

M	Ref.           Des.           AMT01	Data Element 522	<u>Name</u> Amount Qualifier (	Code	Attribu M	ites ID 1/3
			Code to qualify amo	unt		
			DP	Exemption		
			T.	-	led service entifies the	
			T	Tax		
				This code used to identify the entire lo	ad as tax	xable.
M	AMT02	782	<b>Monetary Amount</b>		M	R 1/18
			Monetary amount			
			For percentage values, the whole number "1" represents numbers less than "1" represent percentages from 1 percentages.		-	
			1	100 percent		
				This code is used when the customer is taxable or 100% exempt.	s either	100%

Segment: AMT Monetary Amount - ICAP Tag

**Position:** 060

**Loop:** LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

### **Data Element Summary**

M	Ref. <u>Des.</u> AMT01	Data <u>Element</u> 522	Name Amount Qualifier ( Code to qualify amo	
			KC	Obligated An amount a party has an obligation to pay upon a successful performance by another party, (e.g., funds
				obligated on a contract)
				Capacity Obligation - Load responsibility - Peak load contribution provided to the ISO for installed Capacity Obligations.
$\mathbf{M}$	AMT02	<b>782</b>	<b>Monetary Amount</b>	M R 1/18

# Monetary Amount Monetary amount

### Monetary Amount

ICAP TAG VALUE (Should never be blank. If the ICAP TAG Application file field is blank the default will be zero for this field, otherwise, it will either be zero or greater). Field format is 5.3 or 5 places to the left of the decimal and 3 places to the right of the decimal.)

(To determine if a zero in this field is the ICAP TAG or the default value refer to the REF\*KC segment REF02 element description).

Segment: NM1 Individual or Organizational Name

**Position:** 080

Loop: NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
$\mathbf{M}$	NM101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			MQ	Metering Location		
M	NM102	1065	<b>Entity Type Qualif</b>	ïer	$\mathbf{M}$	ID 1/1
			Code qualifying the	type of entity		
			3	Unknown		
				Placeholder field only.		

Segment:  ${f REF}$  Reference Identification - Old Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

code or number.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier	Attributes M ID 2/3
			Code qualifying the Reference Identification	
			46 Old Meter Number	
			Identifies meters being removed	L
			Identifies the customers' old spe	cific service.
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transpecified by the Reference Identification Qualifier	nsaction Set or as
			The reference identification could be an old meter nu	mber or other old service

814 Seamless Move (004010)

Segment: REF Reference Identification - Load Profile

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier	<u>Attrib</u> M	utes ID 2/3			
			Code qualifying the Reference Identification					
			LO Load Planning Number					
			Load Profile					
>>	REF02	127	Reference Identification	X	AN 1/30			
			Reference information as defined for a particular Transaction Set or specified by the Reference Identification Qualifier					
			Load Profile Code					

Segment: REF Reference Identification - Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

**Notes:** Eversource West and North use this as the Service Account Identifier (SAIID)

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128		lentification Qualifier	<u>Attrib</u> M	outes ID 2/3
			Code quanty	ing the Reference Identification		
			MG	Meter Number		
				Identifies a specific service.		
>>	REF02	127	Reference Id	lentification	X	AN 1/30
Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier						or as
			The reference number	e identification could be a meter number or o	ther serv	ice code or

Segment:  ${f REF}$  Reference Identification - Distribution Company Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identif	ication Qualifier	Attrib M	outes ID 2/3
			Code qualifying th	e Reference Identification		
			NH	Rate Card Number		
				Rate Class or Tariff Identifier.		
>>	REF02	127	Reference Identif	ication	X	AN 1/30
			Reference informate specified by the Reference information and the	ion Set o	or as	
			Distribution Comp	oany Rate or Tariff Code.		

Segment: REF Reference Identification - Type of Service

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

### **Data Element Summary**

M	Des. REF01	Element 128		ntification Qualifier	Attributes M ID 2/3
			Code qualifyin	g the Reference Identification	
			PRT	Product Type	
				Identifies the type of service be	eing provided to the
				customer.	
>>	REF02	127	Reference Ide	ntification	X AN 1/30

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

Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer.

### Available Values are:

A = Apply to All Services

C = Combined Service (Multiple Meters Billed as a Summary)

D = Metered Service Demand & kWh

E = Metered Service kWh

F = Metered Service TOU - Off Peak

H = Controlled Hot Water

L = Lighting Service

N = Non-Metered Service

O = Metered Service TOU - On Peak

T = Metered Service TOU

Segment: **REF** Reference Identification - Supplier Pricing Structure

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	cation Qualifier Reference Identification	Attrib M	outes ID 2/3		
			PR	Price Quote Number Identifies a unit price category under a customer.	a rate co	ode for the		
>>	REF02	127	Reference Identifie	cation	X	AN 1/30		
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier					
			Unit pricing categor	ry code.				

Segment: REF Reference Identification - Supplier Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	•	Attrib M	outes ID 2/3		
			Code qualifying the	Reference Identification				
			RB	Rate code number				
				Identifies the Supplier Rate Class fo	r this cus	tomer.		
>>	REF02	127	Reference Identifie	cation	X	AN 1/30		
			Reference information as defined for a particular Transaction Set or specified by the Reference Identification Qualifier					
			Supplier Rate Class	code.				

SE Transaction Set Trailer **Segment:** 

150 **Position:** 

Loop:

Level: Detail 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:** SE is the last segment of each transaction set.

M	Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Attrib M	<u>utes</u> N0 1/10
M	SE02	329	Total number of segments included in a transaction set incl segments  Transaction Set Control Number	uding S <b>M</b>	T and SE AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio		ion set

# MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

**TRANSACTION SET** 

814

Reinstatement Request, Response or Confirmation

Ver/Rel 004010

## **Summary of Changes**

August 2, 1999

Initial Release – Version 99.1

April 15, 2002

June 30, 2004

- Added REF\*LO Segment for Load Profile Codes
- Added REF\*TD Segments Reason for Change in the LIN and NM1 loops.
- Sequenced the Segments to agree with the UIG Guides
- Added Status reason code tables to REF\*7G Segment
- Added/or changes some data element descriptions for clarification
- Removed REF\*RB REF02 element table description that didn't pertain to MA

Added Service Address N3 and N4 segments for MOVE

- transaction. Replaced Reject Reason Codes created by the MAEBT Group in REF03 element with standard UIG reason codes in
- the REF02 element. If A13 Other code is used in the REF02 element a description must accompany it in the REF03 element.
- Confirm Change Response transaction added for transactions sent to the LDC from the Supplier only.
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.
- Dropped the requirement for the mandatory 4 character name on the N1\*8R segment for Commercial and Industrial Accounts only.
- Added new Cancel / Drop transaction for Suppliers who have a Drop pending transaction sent in.

June 27, 2006

- Added Green-Up program for National Grid's MA and RI Customers.
- This included a DTM and an additional REF\*PR segments.
- Added Budget Billing notification REF segment. indicates if a customer is on a budget billing plan or not. It is a Y / N field.
- Added the customers ICAP TAG value to outbound 814 and 867 transactions. The 814 required three segments be added.
- A REF\*KC segment to alert the supplier that the ICAP Value is blank even though a zero is reflected in the AMT segment.
- A REF\*TD\*KC has been added to the reason for change

segment and an AMT segment to carry the ICAP VALUE. (Remember that an ICAP VALUE can be zero as a valid value. This is why we needed to add a REF\*KC segment to tell folks when the zero value is actually blank or no value.

July 6, 2011

- Add new REF1P segment with REF02 values for use in 814 Drop requests
  - REF02 Code:'020', REF03 Description: 'Customer Moved / Account Closed'
  - REF02 Code: 'CHA', REF03 Description: 'Customer Changed to Another Service Provider'
  - REF02 Code: 'B38', REF03 Description: 'Customer Return to Standard Service'
  - REF02 Code: 'A13', REF03 Description: 'Other: [detailed description required]'
- Add new LDC initiated Reinstatement (Cancel Drop) transaction. Update notes/usage for ASI01, ASI02, BGN13, LIN02, DTM007
  - BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.

January 22, 2015 Version 1.0 Separated into own document

November 4, 2015 Version 2.0

Final release

January 30, 2024 Version 2.1

- Incorporated CC 019
  - BGN01 13: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
  - LIN02 SH: Update to include under Distribution Company to Supplier "Reinstate customer to

- incumbent supplier"
- ASI01 07: Update to include under Distribution Company to Supplier "Reinstate customer to incumbent supplier"
- ASI02: Update 025 to include Distribution Company to Supplier "Reinstate customer to incumbent supplier"
- DTM007: Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling.
- Incorporated CC 026
  - clarify the requirements for the N101 value for the N1\*8R segment
- Incorporated CC 033
  - to codify using either the BGN02 or BGN06 to send back the requests Reference Identification in the 814 Response

# 814 General Request, Response or Confirmation

Functional Group ID=GE

# **Heading:**

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>
M	010	<u>ID</u> ST	Transaction Set Header	<u>Des.</u> M	1	
M	020	BGN	Beginning Segment	M	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Distribution Company	О	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Supplier	О	1	
			LOOP ID - N1			1
Must Use	040	N1	Name - Customer	О	1	
			LOOP ID - N1			1
	040	N1	Name - Bill To Identifier	О	1	
	060	N3	Address Information	O	1	
	070	N4	Geographic Location	О	1	

### **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>
			LOOP ID - LIN			1
Must Use	010	LIN	Item Identification	О	1	
Must Use	020	ASI	Action or Status Indicator	O	1	
Must Use	030	REF	Reference Identification - Supplier Account Number	О	1	
Must Use	030	REF	Reference Identification - Distribution Account Number	О	1	
	030	REF	Reference Identification - Old Distribution Co. Acct Number	О	1	
	030	REF	Reference Identification - Billing Cycle	O	1	
Must Use	030	REF	Reference Identification - Billing Option	O	1	
	030	REF	Reference Identification - Status Reason	O	>1	
	035	REF	Reference Identification - Facitlity ID Number	O	1	
	038	REF	Reference Identification - Standard Point Location	О	1	
	039	REF	Reference Identification - Current Budget Billing Status	О	1	
	040	DTM	Date/Time Reference - Effective	O	1	
	060	AMT	Monetary Amount - Sales Tax	O	1	
			LOOP ID - NM1			>1
Must Use	080	NM1	Individual or Organizational Name	О	1	
	130	REF	Reference Identification - Old Service Identifier	O	1	
	130	REF	Reference Identification - Load Profile	О	1	

	130	REF	Reference Identification - Service Identifier	О	1	
	130	REF	Reference Identification - Distribution Company Rate Code	O	1	
	130	REF	Reference Identification - Type of Service	O	1	
	130	REF	Reference Identification - Supplier Pricing Structure	O	1	
	130	REF	Reference Identification - Supplier Rate Code	O	1	
	130	REF	Reference Identification - Reject Reason	O	>1	
M	150	SE	Transaction Set Trailer	M	1	

Segment: ST Transaction Set Header

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

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data <u>Element</u> 143	Name Transaction Set Identifier Code	Attrib M	outes ID 3/3
			Code uniquely identifying a Transaction Set  814 General Request, Response or Confirm	nation	
M	ST02	329	Transaction Set Control Number  Identifying control number that must be unique within the t functional group assigned by the originator for a transaction Unique number generated by Sender's Translator		AN 4/9 ion set

**BGN** Beginning Segment **Segment:** 

**Position:** 

Loop:

Level: Heading **Usage:** Mandatory

Max Use:

**Purpose:** To indicate the beginning of a transaction set **Syntax Notes:** If BGN05 is present, then BGN04 is required.

**Semantic Notes:** 1 BGN02 is the transaction set reference number.

BGN03 is the transaction set date.

3 BGN04 is the transaction set time.

BGN05 is the transaction set time qualifier.

BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

### **Comments:**

			Data Elem	ent Summary		
M	Ref. <u>Des.</u> BGN01	Data Element 353	Name Transaction Set Po	urpose Code	Attrib M	outes ID 2/2
			Code identifying pu	rpose of transaction set		
			06	Confirmation		
			11	Distribution company to Supplier Confirms Successful Reinstatemen	ıt/ Drop	cancelled
			11	Response		
				Distribution Company to Supplier Reinstatement Error response		
			13	Request		
				Distribution Company to Supplier Reinstate customer to incumbent su Supplier to Distribution Company Cancel a drop	ipplier	
$\mathbf{M}$	BGN02	127	Reference Identific	cation	$\mathbf{M}$	AN 1/30

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

Request:

Unique Tracking Identification Number assigned by the Senders application interface

Response:

The BGN02 from the originating BGN02 814 Request

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

A unique transaction identification number, assigned by the originator of this transaction. The identification number must be unique over time. In this case, the BGN06 will be used to convey The BGN02 from the originating BGN02 814 Request.

M	BGN03	373	Date	M	<b>DT 8/8</b>			
			Date expressed as CCYYMMDD					
			The transaction creation date. This is the date that the transaction was created by the sender's application system.					
	BGN06	127	Reference Identification	O	AN 1/30			
			Reference information as defined for a particular Transaction	Set o	or as			
			specified by the Reference Identification Qualifier					
			Unique Tracking Identification Number sent with the originating transaction. If					
			not contained in the BGN02					

Segment: N1 Name - Distribution Company

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	<u>Name</u> Entity Identifier C	ode	<u>Attrib</u> M	outes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical location Consumer Service Provider (CSP)	n, prop	oerty or an
				Distribution Company		
	N102	93	Name		X	AN 1/60
			Free-form name			
			Distribution Compa	ny Name (Text)		
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>	e	X	AN 2/80
			Code identifying a J	party or other code		
			Distribution Compa	ny D-U-N-S Number		

Segment: N1 Name - Supplier

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	<u>outes</u>
M	N101	98	<b>Entity Identifier C</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	n, prop	perty or an
			SJ	Service Provider		
				Identifies name and address information service provider for which billing is be Supplier	-	-
	N102	93	Name	11	X	AN 1/60
			Free-form name			
			Supplier Name (Tex	t)		
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating th Code (67)	e system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
			9	D-U-N-S+4, D-U-N-S Number with Fo	our Ch	aracter
				Suffix		
>>	N104	67	<b>Identification Code</b>	<b>è</b>	X	AN 2/80
			Code identifying a p	party or other code		
			Supplier D-U-N-S N	Jumber		

Segment: N1 Name - Customer

**Position:** 040

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

Notes: N1\*8R\*JONE

N1\*8R\*TOWN

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier Co	ode	Attrib M	outes ID 2/3
			Code identifying an individual 8R	organizational entity, a physical location		. •
			OK	Consumer Service Provider (CSP) Cus	Stomer	
				Customer		
>>	N102	93	Name		$\mathbf{X}$	AN 1/60
			Free-form name			
			Required for Reside This field will conta	ny Customer Name Key ntial customers only. in the first four characters st name as it appears on the bill.		

Segment: N1 Name - Bill To Identifier

**Position:** 040

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data		•	
	Des.	<b>Element</b>	<u>Name</u>	<u>A</u> 1	<u>ttributes</u>
M	N101	98	<b>Entity Identifier C</b>	Code	M ID 2/3
			Code identifying ar	n organizational entity, a physical location,	property or an
			individual		
			BT	Bill-to-Party	
				Used to identify a billing address for the associated with the service account ident	
				NM1/REF segment.	
>>	N102	93	Name	<del>-</del>	X AN 1/60
			Free-form name		
			NV	No Value	

Segment: N3 Address Information

**Position:** 060

Loop: N1 Optional

Level: Heading Usage: Optional

Max Use:

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

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information Address information	<u>Attrib</u> M	<u>utes</u> AN 1/55
			Bill To Address		
	N302	166	Address Information Address information Additional Address Information	0	AN 1/55

 $\textbf{Segment:} \quad \textbf{N4} \,\, \textbf{Geographic Location}$ 

**Position:** 070

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 If N406 is present, then N405 is required.

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attrib	<u>utes</u>
N401	19	City Name	0	AN 2/30
		Free-form text for city name		
		Bill To City Name		
N402	156	State or Province Code	0	ID 2/2
		Code (Standard State/Province) as defined by appropriate g	governn	nent agency
		Bill To State Code		
N403	116	Postal Code	0	ID 3/15
		Code defining international postal zone code excluding pur (zip code for United States)	nctuatio	n and blanks
		Bill To Postal Code		
N404	26	Country Code	0	ID 2/3
		Code identifying the country		
		Bill To Country Code (i.e. USA)		

Segment: LIN Item Identification

**Position:** 010

**Loop:** LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LING
Comments: 1 See t

LIN01 is the line item identification
See the Data Dictionary for a complete list of IDs.

LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Notes:** 

Notes: A separate LIN loop is used for each meter, i.e., one LIN per meter, one meter per LIN.

### **Data Element Summary**

	Ref.	Data		•		
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	
>>	LIN01	350	Assigned Identifica	tion	O	AN 1/20
			Alphanumeric chara	cters assigned for differentiation within	n a trans	saction set
			A unique sequential	number for each line item within this	transact	ion set.
M	LIN02	235	Product/Service ID	Qualifier	M	ID 2/2
			Code identifying the Product/Service ID (	e type/source of the descriptive number (234)	used in	l
			SH	Service Requested		
				A numeric or alphanumeric code from available to the customer	n a list o	of services
				Distribution Company to Supplier Reinstate customer to incumbent su	upplier	
			SV	Supplier to Distribution Company Cancel a Drop Service Rendered		
				Distribution Company to Supplier Successful Reinstatement Reinstatement Error Response		
M	LIN03	234	Product/Service ID		M	AN 1/48

Identifying number for a product or service

EL Electric Service

Indicates a customer request to obtain electric service.

>> LIN04 235 Product/Service ID Qualifier

X ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SH Service Requested

A numeric or alphanumeric code from a list of services

available to the customer

Segment: ASI Action or Status Indicator

**Position:** 020

**Loop:** LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use:

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity

described

Syntax Notes: Semantic Notes: Comments:

**Notes:** Identifies the action to be taken or the status of a requested action for the service

identified in the LIN segment.

### **Data Element Summary**

M	Ref. <u>Des.</u> ASI01	Data Element 306	Name Action Code		Attributes M ID 1/2
			Code indicating type	e of action	
			7	Request	
				Distribution Company To Supplier: Reinstate customer to incumbent so	upplier
				Supplier To Distribution Company: Cancel a drop	
			U	Reject	
				Inability to accept for processing due required information	to the lack of
				Distribution Company To Supplier: Error Response	
			V	Respond	
				A reply or answer	
				Distribution Company To Supplier: Confirm Reinstate Date	
			WQ	Accept	
				Distribution Company To Supplier: Successful Reinstatement	

Code identifying the specific type of item maintenance

025 Reinstatement

Maintenance Type Code

To place in force again, without the usual probationary or service period, a group contract or an individual's group

insurance that for some reason has terminated

To place in force again, without the usual probationary

or service period.

Distribution Company To Supplier:

Reinstate customer to incumbent supplier

026 Correction

18

ASI02

875

M

M ID 3/3

Supplier to Distribution Company Cancel a drop Segment: REF Reference Identification - Supplier Account Number

**Position:** 030

**Loop:** LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Ide	entification Qualifier	Attrib M	outes ID 2/3
			Code qualifyin	ng the Reference Identification		
			11	Account Number		
				Number identifies a telecommunication	ns indu	stry account
				Supplier		
>>	REF02	127	Reference Ide	entification	X	AN 1/30
				ormation as defined for a particular Transaction to Reference Identification Qualifier	on Set o	or as
			Supplier Accor	unt Number for the end use customer.		

Segment: REF Reference Identification - Distribution Account Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

M	Ref. <u>Des.</u> REF01	Data Element 128		tification Qualifier the Reference Identification	Attrib M	utes ID 2/3
			1 , 0			
			12	Billing Account		
				Account number under which billing	g is rende	red
				Distribution Company		
>>	REF02	127	Reference Iden	tification	X	AN 1/30
				nation as defined for a particular Transact Reference Identification Qualifier	tion Set o	or as
			Distribution Cor	npany - assigned end use customer account	nt numbe	er.

Segment:  ${f REF}$  Reference Identification - Old Distribution Co. Acct Number

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

REF04 contains data relating to the value cited in REF02.

3.6	Ref. Des.	Data Element	Name	•	<u>Attrib</u>	
M	REF01	128	Reference Identification		M	ID 2/3
			Code qualifying the Refer	ence Identification		
			45 Old	Account Number		
			Iden	tifies accounts being changed		
			Distr	ribution Company		
>>	REF02	127	Reference Identification		X	AN 1/30
			Reference information as specified by the Reference	defined for a particular Transaction e Identification Qualifier	n Set o	or as
			Distribution Company - 0	Old Account Number for the end us	se cust	omer.

**REF** Reference Identification - Billing Cycle **Segment:** 

**Position:** 

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify identifying information

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

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

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

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

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identificate the Code qualifying the	ication Qualifier e Reference Identification	Attrib M	outes ID 2/3
			BF	Billing Center Identification		
				Billing cycle.		
>>	REF02	127	Reference Identif	ication	X	AN 1/30
				tion as defined for a particular Transact eference Identification Qualifier	ion Set o	or as
			Billing avale numb	par when the hill will be rendered		

 ${f REF}$  Reference Identification - Billing Option **Segment:** 

**Position:** 

Loop: LIN Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use:

**Purpose:** To specify identifying information

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

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

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

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

### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128		ntification Qualifier	Attrib M	outes ID 2/3
			Code qualifyin	g the Reference Identification		
			BLT	Billing Type		
				Identifies whether the bill is consolid	ated by	the LDC or
				whether each party will prepare their	own bil	1. See
				REF02 for valid values.		
>>	REF02	127	Reference Ide	ntification	X	AN 1/30
			Reference info	rmation as defined for a particular Transacti	on Set o	or as
			specified by the	e Reference Identification Qualifier		
			I DC The I	Distribution Company hills the customer for	both the	_

The Distribution Company bills the customer for both the

distribution company and supplier charges.

(Complete Billing)

DUAL The Distribution Company and the Supplier bill the customer their own charges with separate bills.

(Pass thru Billing)

Segment: REF Reference Identification - Status Reason

**Position:** 030

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

**Notes:** 

1 REF04 contains data relating to the value cited in REF02.

This convention of the REF segment is used primarily to convey status reason codes in response to a Request.

	Ref.	Data			
	Des.	<b>Element</b>		<u>Attrib</u>	
M	REF01	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		
			7G Data Quality Reject Reason		
			Reject reasons associated with a reject notification.	t status	
>>	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction	on Set o	or as
			specified by the Reference Identification Qualifier		
			The following codes have been identified by the UIG to con-		
			codes. Other codes may be used by agreement of the tradin	ig partn	ers when
			necessary.		
	DEEGA	250	A13 Other		137.4/00
>>	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements		ir content
			Used to further describe the status reason code sent in REF	02.	
			STATUS CODES		
			Completion Status Code (C.S.C.)		
			100 Successful Enrollment Transaction Received 999 Errors on Transaction		
			Account (A) and Service (S) Level		
			Error Codes		
			A 101 Invalid Detail Record Indicator		
			A 102 Invalid Supplier Account Number		
			A 103 Invalid Distribution Company Account Number		
			A 104 Invalid Distribution Company Customer Name		
			A 107 Invalid Billing Option		
			S 109 Invalid Supplier Rate Code		
			S 110 Invalid Supplier Pricing Option		
			S 111 Invalid Type of Service Indicator		
			S 112 Invalid Service Identifier A 114 Invalid Sales Tax Indicator		
			A 153 Invalid Supplier Identifier		
			A 154 Invalid Distribution Company Identifier		
			A 164 Customer Already Enrolled		
			A 165 Supplier on Probation		

- 166 Invalid Related Service Failed
- 167 Customer Already Enrolled for Same Supplier170 Invalid Public Aggregator Code
- A
- 177 Invalid Customer Status
- 178 No Customer History Available

**REF** Reference Identification - Facility ID Number **Segment:** 

**Position:** 

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify identifying information

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

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

**Comments:** 

	Ref. Des.	Data <u>Element</u>	<u>Name</u>	<u>Attrik</u>	
M	REF01	128	Reference Identification Qualifier	M	ID $2/3$
			Code qualifying the Reference Identification		
			1J Facility ID Number		
	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Set	or as
	REF03	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements	and the	eir content

Segment:  ${\bf REF}$  Reference Identification - Standard Point Location

**Position:** 038

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

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

Comments:

				••• • • • • • • • • • • • • • • • • • •		
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<u>/</u>	\ttrib	outes
M	REF01	128	Reference I	dentification Qualifier	M	ID 2/3
			Code qualif	ying the Reference Identification		
			SPL	Standard Point Location Code (SPLC)		
	REF02	127	Reference 1	dentification	X	AN 1/30
				nformation as defined for a particular Transaction the Reference Identification Qualifier	Set o	or as
	REF03	352	Description	1	X	AN 1/80
			A free-form	description to clarify the related data elements a	nd the	eir content

Segment:  ${f REF}$  Reference Identification - Current Budget Billing Status

**Position:** 039

Loop: LIN Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Iden	tification Qualifier	Attrib	utes ID 2/3
			Code qualifying	the Reference Identification		
			NR	Progress Payment Number		
				The enrolling customer is on budget b	oilling.	
	REF02	127	Reference Iden	tification	X	AN 1/30
				mation as defined for a particular Transacti Reference Identification Qualifier	on Set o	or as
			N	The enrolling customer is not on budg	get billin	ıg
			Y	The enrolling customer is, or will be,	on budg	et billing
	REF03	352	Description		X	AN 1/80
			A free-form des	cription to clarify the related data elements	and the	ir content

Segment: DTM Date/Time Reference - Effective

**Position:** 040

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

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

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

If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** 

To specify a time zone (DTM04), both DTM03 and DTM04 must be present. Therefore, if specification of a time zone is necessary, DTM06 should include only the date, not the

time.

Effective Date to be included in transaction (under discussion by utilities) – date of next meter read as sent on the drop that this transaction is cancelling

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<b>Attrib</b>	<u>utes</u>
M	DTM01	374	<b>Date/Time Qualifie</b>	r	$\mathbf{M}$	ID 3/3
			Code specifying type	e of date or time, or both date and time		
			007	Effective		
				Date upon which a reinstatement is to or will become effective.	become	e effective
>>	DTM05	1250	Date Time Period I	Format Qualifier	X	ID 2/3
			Code indicating the	date format, time format, or date and time	me forn	nat
			D8	Date Expressed in Format CCYYMM	DD	
>>	DTM06	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date	, a time, or range of dates, times or date	es and t	imes
			Effective Date of Se	rvice in CCYYMMDD format only.		

Segment: AMT Monetary Amount - Sales Tax

**Position:** 060

Loop: LIN Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

AMT02

782

**Purpose:** To indicate the total monetary amount

Syntax Notes: Semantic Notes: Comments:

M

**Data Element Summary** 

Ref. Data Des. Element Name **Attributes** M AMT01 522 **Amount Qualifier Code** M ID 1/3 Code to qualify amount DP Exemption This code is used when a portion of the provided service is exempt from taxation. Element AMT02 identifies the percentage of the service that is tax exempt. T This code used to identify the entire load as taxable.

Monetary Amount

M R 1/18

Monetary amount

For percentage values, the whole number "1" represents 100 percent. Decimal numbers less than "1" represent percentages from 1 percent to 99.99 percent.

1 100 percent

This code is used when the customer is either 100%

taxable or 100% exempt.

Segment: NM1 Individual or Organizational Name

**Position:** 080

Loop: NM1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: 1 If either NM108 or NM109 is present, then the other is required.

If NM111 is present, then NM110 is required.

**Semantic Notes:** 1 NM102 qualifies NM103.

**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

Notes: This segment is used to convey meter level information. Only NM101 and NM102 are

required.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>utes</u>
M	NM101	98	<b>Entity Identifier Co</b>	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			MQ	Metering Location		
M	NM102	1065	<b>Entity Type Qualify</b>	ier	M	ID 1/1
			Code qualifying the	type of entity		
			3	Unknown		
				Placeholder field only.		

 ${f REF}$  Reference Identification - Old Service Identifier **Segment:** 

**Position:** 

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

**Purpose:** To specify identifying information

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

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

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

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

#### **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific	•	Attrib M	utes ID 2/3
			Code qualifying the	Reference Identification		
			46	Old Meter Number		
				Identifies meters being removed		
				Identifies the customers' old specific	service.	
>>	REF02	127	Reference Identific	ation	X	AN 1/30
			Reference information	on as defined for a particular Transacti	on Set c	or as

specified by the Reference Identification Qualifier

The reference identification could be an old meter number or other old service

code or number.

Segment: **REF** Reference Identification - Load Profile

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	Ref. Des.	Data <u>Element</u>	Name	<b>Attributes</b>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			LO Load Planning Number	
			Load Profile	
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transs specified by the Reference Identification Qualifier	action Set or as
			Load Profile Code	

Segment:  ${f REF}$  Reference Identification - Service Identifier

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u> REF01	Data Element 128		lentification Qualifier ing the Reference Identification	<u>Attrib</u> M	outes ID 2/3
			MG	Meter Number Identifies a specific service.		
>>	REF02	127		*	X extion Set	AN 1/30 or as
			The reference number	e identification could be a meter number or o	other serv	rice code or

Segment:  ${f REF}$  Reference Identification - Distribution Company Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

**Semantic Notes:** Comments:

				2101110110 S 0111111W1 J		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Ide	entification Qualifier	Attrib M	outes ID 2/3
			Code qualifyir	ng the Reference Identification		
			NH	Rate Card Number		
				Rate Class or Tariff Identifier.		
>>	REF02	127	Reference Ide	entification	X	AN 1/30
				ormation as defined for a particular Transaction Reference Identification Qualifier	ction Set o	or as
			Distribution C	Company Rate or Tariff Code.		

Segment: REF Reference Identification - Type of Service

**Position:** 130

**Loop:** NM1 Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

#### **Data Element Summary**

M	Des.	Element	Name	ontification Ovalifier	Attributes
IVI.	REF01	128		lentification Qualifier ing the Reference Identification	M ID 2/3
			PRT	Product Type	
				Identifies the type of service be	eing provided to the
<b>&gt;&gt;</b>	REF02	127	Reference Id	customer.	X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Used to identify the means by which service is provided to the customer. It may also Identify the type of metering installed or the type of unmetered service being provided to the customer.

#### Available Values are:

A = Apply to All Services

C = Combined Service (Multiple Meters Billed as a Summary)

D = Metered Service Demand & kWh

E = Metered Service kWh

F = Metered Service TOU - Off Peak

H = Controlled Hot Water

L = Lighting Service

N = Non-Metered Service

O = Metered Service TOU - On Peak

T = Metered Service TOU

Segment: REF Reference Identification - Supplier Pricing Structure

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	Ref.	Data	N		4 44 93	,
	Des.	<u>Element</u>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	REF01	128	Reference Identifi	cation Qualifier	M	ID $2/3$
			Code qualifying the	e Reference Identification		
			PR	Price Quote Number		
				Identifies a unit price category under	a rate co	ode for the
				customer.		
>>	REF02	127	Reference Identifi	cation	X	AN 1/30
				tion as defined for a particular Transact ference Identification Qualifier	ion Set o	or as
			Unit pricing catego	ory code.		

Segment:  ${f REF}$  Reference Identification - Supplier Rate Code

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

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

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

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

	Ref.	Data				
	Des.	<u>Element</u>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	REF01	128	Reference Identifi	cation Qualifier	M	ID 2/3
			Code qualifying the	e Reference Identification		
			RB	Rate code number		
				Identifies the Supplier Rate Class for	this cus	stomer.
>>	REF02	127	Reference Identifi	cation	X	AN 1/30
				tion as defined for a particular Transact ference Identification Qualifier	ion Set o	or as
			Supplier Rate Class	s code.		

Segment: REF Reference Identification - Reject Reason

**Position:** 130

Loop: NM1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

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

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

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

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

Comments:

	Ref.	Data	Duta Element Summary
	Des.	Element	Name Attributes
M	REF01	128	Reference Identification Qualifier M ID 2/3
			Code qualifying the Reference Identification
			7G Data Quality Reject Reason
			Reject reasons associated with a reject status
			notification.
>>	REF02	127	Reference Identification X AN 1/30
			Reference information as defined for a particular Transaction Set or as
			specified by the Reference Identification Qualifier
			A13 Other
			See explanation in REF03
>>	REF03	352	Description X AN 1/80
			A free-form description to clarify the related data elements and their content
			Used to further describe the status reason code sent in REF02.
			STATUS CODES
			Completion Status Code (C.S.C.)
			100 Successful Enrollment Transaction Received
			999 Errors on Transaction
			Account (A) and Service (S) Level Error Codes
			A 101 Invalid Detail Record Indicator
			A 102 Invalid Supplier Account Number
			A 103 Invalid Distribution Company Account Number
			A 104 Invalid Distribution Company Customer Name
			A 107 Invalid Billing Option
			S 109 Invalid Supplier Rate Code
			S 110 Invalid Supplier Pricing Option
			S 111 Invalid Type of Service Indicator S 112 Invalid Service Identifier
			A 114 Invalid Sales Tax Indicator
			A 153 Invalid Supplier Identifier
			A 154 Invalid Distribution Company Identifier
			A 164 Customer Already Enrolled
			A 165 Supplier on Probation
			S 166 Invalid Related Service Failed
			A 167 Customer Already Enrolled for Same Supplier
			A 170 Invalid Public Aggregator Code

- A 177 Invalid Customer Status
  - A 178 No Customer History Available

Segment:  ${\bf SE}$  Transaction Set Trailer

**Position:** 150

Loop:

Level: Detail
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.

M	Ref. <u>Des.</u> SE01	Data Element 96	Name Number of Included Segments	Attrib M	outes N0 1/10
M	SE02	329	Total number of segments included in a transaction set incl segments Transaction Set Control Number	uding S <b>M</b>	ST and SE  AN 4/9
			Identifying control number that must be unique within the t functional group assigned by the originator for a transaction		tion set

Example transaction: LDC Initiated request

ST\*814\*000586192
BGN\*13\*20150304175146473023\*20150304
N1\*8S\*UTILITY\*1\*99999999
N1\*SJ\*ELECTRIC SUPPLIER\*9\*88888888
N1\*8R\*NAME
LIN\*20150304175146473048\*SV\*EL\*SH\*CE
ASI\*7\*025
REF\*11\*2222222222
REF\*12\*1111111111
DTM\*007\*\*\*\*D8\*20150304
NM1\*MQ\*3
SE\*11\*000586192

## Massachusetts Electronic Business Transactions Standard

For

### Electronic Data Interchange

TRANSACTION SET

**820** 

Payment Order/Remittance Advice

Ver/Rel 004010

**Outbound to Energy Supplier** 

#### **Summary of Changes**

March 29, 1999

Initial Release – Version 99.1

July 14, 2004

 Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.

December 4, 2012

- Administrative cleanup of notes for BPR, ENT, RMR, REF\*IK, REF\*11. DTM\*809
- Removed BPR03 value D
- Added N103 value of 9 for N1\*SJ

September 4, 2013

- Added RMR03 PR for Purchase of Receivables
- Updated RMR04 to Mandatory
- Added RMR05 Invoiced Amount for Purchase of Receivables
- Added RMR06 Discount Amount for Purchase of Receivables
- Added RMR07 16 and 26 for Purchase of Receivables
- Added REFIK for Invoice Number

May 5, 2014

 Minor corrections to REF02 codes for REFIK and REF11. Minor corrections to RMR05 and RMR06.

January 31, 2024 Version 3.3

- Incorporated CC 023 for Administrative cleanup
  - Eliminate "UIG" from footer: The organization no longer exists
  - Eliminate Best Practices section
  - BPR03 remove D
  - o BPR: Remove statement "Specific qualifiers used in data elements BPR01, BPR03, BPR04 and BPR05 need to be discussed and agreed upon between the originator and the originator's financial institution prior to using the transaction."
  - N103 for Supplier: Allow code "9" for DUNS+4
  - RMR06: Remove statement, "must be preceded by a minus sign (-) unless it is zero." Also, at the end of that paragraph, change 00.0 to simply 0.
  - DTM\*809: Indicate required for non-POR and not used for POR
  - N1\*8S: changed to simply "Utility", Add a gray box to show "DUNS"
  - N1\*SJ: changed to simply "ESP/Energy Service Provider",

- Add a gray box to show "DUNS"
- ENT: only element used is the first. add gray box showing 1 is the only possible value
- o RMR Notes: In all cases, RMR01 and RMR02 identify only the item or account in the receiving party's system to which the payment is to be applied. For example, the original invoice number for a vendor invoice or the account number for the end use customer.
- REF\*IK: When RMR01 = 12 (Billing Account) this segment required for POR (where payment type = PR)
- REF\*11: -simplified to ESP Account Number
- Incorporated CC 036
  - Add REF\*MG to RMR loop for Meter Number. Used by Eversource for POD ID or SA ID.

#### 820 Payment Order/Remittance Advice

Functional Group ID=  ${f RA}$ 

#### **Heading:**

	Pos.	Seg.		Req.		Loop
	No.	ID	Name	Des.	Max.Use	Repeat
M	010	ST	Transaction Set Header	M	1	
M	020	BPR	Beginning Segment for Payment Order/Remittance Advice	M	1	
Must Use	050	REF	Reference Identification - Tracking number	O	1	
Must Use	060	DTM	Date/Time Reference - Creation	O	1	
			LOOP ID - N1			I
Must Use	070	N1	Name - Distribution Company	О	1	
			LOOP ID - N1			1
Must Use	070	N1	Name - Supplier	О	1	

#### **Detail:**

Pos.	Seg.		Req.	Loop
No.	ID	Name	Des. Max.Use	Repeat

			LOOP ID - ENT			1
Must	010	ENT	Entity	O	1	
Use						
			LOOP ID - RMR			>1
Must	150	RMR	Remittance Advice Accounts	O	1	
Use			Receivable Open Item Reference			
Must	170	REF	Reference Identification - Invoice	C	1	
Use			Number			
	170	REF	Reference Identification -	O	1	
			Commodity			
Must	170	REF	Reference Identification - Supplier	O	1	
Use			Account			
	175	REF	Reference Identification - Service	O	1	
			Indicator			
	180	DTM	Date/Time Reference - Posting	O	1	

#### **Summary:**

	Pos.	Seg.		Req.		Loop
	No.	ID	Name	Des.	Max.Use	Repeat
M	010	SE	Transaction Set Trailer	M	1	-

Segment: **ST** Transaction Set Header

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:

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

Comments:

	Ref.	Data			
	Des.	Element	Name	Attribu	utes
M	ST01	143	Transaction Set Identifier Code	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			Payment Order/Remittance Advice		
M	ST02	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

Segment: **BPR** Beginning Segment for Payment Order/Remittance Advice

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

Purpose: To indicate the beginning of a Payment Order/Remittance Advice Transaction Set and

total payment amount, or to enable related transfer of funds and/or information from

payer to payee to occur

Syntax Notes: 1 If either BPR06 or BPR07 is present, then the other is required.

2 If BPR08 is present, then BPR09 is required.

3 If either BPR12 or BPR13 is present, then the other is required.

4 If BPR14 is present, then BPR15 is required.

5 If either BPR18 or BPR19 is present, then the other is required.

6 If BPR20 is present, then BPR21 is required.

#### Comments:

	Ref.	Data					
	Des.	Element	Name		Attrib	utes	
M	BPR01	305	Transaction Handlin	g Code	M	ID 1/2	
			Code designating the	e action to be taken by all parties			
			I	Remittance Information Only			
M	BPR02	782	Monetary Amount		M	R 1/18	
			Monetary amount				
			Must be a positive a	mount.			
M	BPR03	478	Credit/Debit Flag Co	ode	M	ID 1/1	
			Code indicating whe	Code indicating whether amount is a credit or debit			
			C	Credit			
				Due Supplier			
M	BPR04	591	Payment Method Co	ode	M	ID 3/3	
			Code identifying the	method for the movement of payment	instruc	tions	
			ACH	Automated Clearing House (ACH)			
	BPR16	373	Date		O	DT 8/8	
			Date expressed as C	CYYMMDD			
			Payer's intended settlement date				

Segment: **REF** Reference Identification - Tracking number

Position: 050

Loop:

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify identifying information

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

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

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

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

	Ref.	Data	·		
	Des.	Element	Name	Attribu	utes
M	REF01	128	Reference Identification Qualifier	M	ID 2/3
			Code qualifying the Reference Identification		
			TN Transaction Reference Number		
>>	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transactio specified by the Reference Identification Qualifier	n Set o	or as

Segment: **DTM** Date/Time Reference - Creation

Position: 060

Loop:

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify pertinent dates and times

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

2 If DTM04 is present, then DTM03 is required.

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

Semantic Notes: Comments:

	Ref.	Data		•		
	Des.	Element	Name		Attrib	utes
M	DTM01	374	Date/Time Qualifier		M	ID 3/3
			Code specifying type	of date or time, or both date and time		
			097	Transaction Creation		
>>	DTM05	1250	Date Time Period For	rmat Qualifier	X	ID 2/3
			Code indicating the d	late format, time format, or date and time	me forr	nat
			D8	Date Expressed in Format CCYYMM	1DD	
>>	DTM06	1251	Date Time Period		X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates a			imes

Segment: N1 Name - Distribution Company

Position: 070

Loop: N1 Optional (Must Use)

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

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

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

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

Semantic Notes: Comments:

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

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

Notes: Utility

			2 www 2101110111 2 william j		
	Ref.	Data			
	Des.	Element	Name	Attrib	utes
M	N101	98	Entity Identifier Code	M	ID 2/3
			Code identifying an organizational entity, a physical location individual	on, prop	perty or an
			8S Consumer Service Provider (CSP)		
	N102	93	Name	X	AN 1/60
			Free-form name		
>>	N103	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used Code (67)	l for Ide	entification
			1 D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code		
			DUNS		

N1 Name - Supplier Segment: Position: 070 Loop: N1 Optional (Must Use) Level: Heading Optional (Must Use) Usage: Max Use: Purpose: To identify a party by type of organization, name, and code Syntax Notes: 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. N105 and N106 further define the type of entity in N101. Notes: ESP/Energy Service Provider **Data Element Summary** Ref. Data Element Attributes Des. Name M N101 98 Entity Identifier Code M ID 2/3Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered In the alternative energy supply environment, this is the Energy Service Provider. N102 93 Name X AN 1/60 Free-form name >> N103 66 Identification Code Qualifier X ID 1/2 Code designating the system/method of code structure used for Identification Code (67) D-U-N-S Number, Dun & Bradstreet 1 9 D-U-N-S+4, D-U-N-S Number with Four Character N104 67 Identification Code X AN 2/80 >> Code identifying a party or other code **DUNS** 

Segment: ENT Entity

Position: 010

Loop: ENT Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To designate the entities which are parties to a transaction and specify a reference

meaningful to those entities

Syntax Notes: Semantic Notes: Comments:

Data Element Summary

Ref. Data
Des. Element Name
ENT01 554 Assigned Number

Attributes
O N0 1/6

Number assigned for differentiation within a transaction set

1

Segment: RMR Remittance Advice Accounts Receivable Open Item Reference

Position: 150

Loop: RMR Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use:

Purpose: To specify the accounts receivable open item(s) to be included in the cash application and

to convey the appropriate detail

Syntax Notes: 1 If either RMR01 or RMR02 is present, then the other is required.

2 If either RMR07 or RMR08 is present, then the other is required.

Semantic Notes: 1 If RMR03 is present, it specifies how the cash is to be applied.

2 RMR04 is the amount paid.

- 3 RMR05 is the amount of invoice (including charges, less allowance) before terms discount (if discount is applicable) or debit amount or credit amount of referenced items.
- 4 RMR06 is the amount of discount taken.
- 5 RMR08, if present, represents an interest penalty payment, amount late interest paid, or amount anticipation.

Comments:

- Parties using this segment should agree on the content of RMR01 and RMR02 prior to initiating communication.
- 2 If RMR03 is not present, this is a payment for an open item. If paying an open item, RMR02 must be present. If not paying a specific open item, RMR04 must be present.
- 3 RMR05 may be needed by some payees to distinguish between duplicate reference numbers.

Notes:

In all cases, RMR01 and RMR02 identify only the item or account in the receiving party's system to which the payment is to be applied. For example, the original invoice number for a vendor invoice or the account number for the end use customer.

Examples:

RMR\*12\*7799621539\*PO\*300.00

RMR\*12\*6687714411\*PR\*98.00\*100.00\*2.00 RMR\*12\*3965716927\*AJ\*-95.00\*\*\*CS\*-95.00

	Ref.	Data					
	Des.	Element	Name		Attrib	utes	
>>	RMR01	128	Reference Identification	tion Qualifier	X	ID 2/3	
			Code qualifying the	Reference Identification			
			12	Billing Account			
				Account number under which billing	is rend	ered	
				Utility-assigned account number for	end use	customer.	
>>	RMR02	127	Reference Identificat	tion	X	AN 1/30	
				Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
>>	RMR03	482	Payment Action Cod	le	O	ID 2/2	
			Code specifying the the cash application.	Code specifying the accounts receivable open item(s), if any, to be included in the cash application.			
			AJ	Adjustment			
				Adjustment of a previous payment.			
			PO	Payment on Account			
			PR	Progress Payment			

Purchased Receivables Only

The amount in RMR04 is the net amount of the customer receivable being purchased by the billing party for the customer account indicated in RMR02 and should equal the cash remitted in the banking transaction.

RMR03 should be populated with 'AJ' (not PR) if the amount in RMR04 is an adjustment to an amount remitted in a prior period for purchased receivables.

M RMR04

782 Line Item Amount

M R 1/18

Monetary amount

The amount paid or adjusted. This amount is algebraically summed to BPR02.

RMR05 782 Invoiced Amount

O R 1/18

Monetary amount

**Invoiced Amount** 

This element is required when the remittance is for purchase of a customer receivable (RMR01=12 and RMR03=PR); otherwise this element is not used.

The amount in RMR05 is the total amount (debit or credit) billed to the customer for E/M charges (energy charges and taxes) for the current period. This amount should equal the amount sent in the TDS segment of the 810 Invoice identified in the REF\*IK for the customer account indicated in RMR02.

This data element is a real number. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; a decimal point must be sent when decimal precision is required. When transmitting a real number it is not necessary, but is acceptable, to transmit insignificant digits such as leading and/or trailing zeros.

RMR06 782

Discount Amount

O R 1/18

Monetary amount

Discount Amount

The element is required when the remittance is for purchase of a customer receivable (RMR01=12 and RMR03=PR); otherwise this element is not used. RMR06 contains the amount of the discount applied to the current period invoiced amount (sent in RMR05). If the invoice amount (or adjustment amount) is negative, then the discount amount is positive. RMR05 plus RMR06 should equal the amount sent in RMR04. Where there is no discount, RMR06 should contain 0.

This data element is a real number. Real numbers are assumed to be positive numbers and a minus (-) sign must precede the amount when a negative number is being sent. Real numbers do NOT provide for an implied decimal position; a decimal point must be sent when decimal precision is required. When transmitting a real number it is not necessary, but is acceptable, to transmit insignificant digits such as leading and/or trailing zeros.

RMR07 426

Adjustment Reason Code

X ID 2/2

Code indicating reason for debit or credit memo or adjustment to invoice, debit or credit memo, or payment

RMR08

	Use any valid codes trading partners.	Data Element 426 codes, as mutually agreed	between the
	16	Non-Invoice Related Allowance/Charge	
		Purchased Receivables	
		This code is used to adjust amounts previous	
		transmitted for purchase of receivables (i.e. N	
		to the current period invoice for the customer indicated in RMR02) that cannot by addresse	
		codes 25, 26, 86, BD, FC or IF.	d by using
	26	Invoice Cancelled	
		Purchased Receivables	
		This code is used to adjust amounts previous	sly
		transmitted for purchase of receivables.	
	48	Service Charge	
		BAD CHECK	
	55	Tax Deducted	
		SALES TAX	
	BD	Bad Debt Adjustment	
		SUPPLIER WRITE-OFF	
	CS	Adjustment	
		ADJUSTMENT	
	D1	Transfer Between Accounts	
		TRANSFER	
	FI	Late Interest Paid	
		ARREARS INTEREST	
	IP	Incentive Premium Payment	
		LOW-INCOME DISBURSEMENT	
782	Adjustment Amount	X	R 1/18
	Monetary amount		

Monetary amount

The adjustment amount. This amount should be signed if negative. For an adjustment to this current payment, this amount is also in RMR04. For an adjustment without impacting payment, a 0 will be sent in the RMR04

14

Segment: **REF** Reference Identification - Invoice Number

Position: 170

Loop: RMR Optional (Must Use)

Level: Detail

Usage: Conditional (Must Use)

Max Use: 1

Purpose: To specify identifying information

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

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

If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes:

Conditional

When RMR01 = 12 (Billing Account) this segment required for POR (where payment

type = PR)

REF\*IK\*IN200207190001

	Ref.	Data					
	Des.	Element	Name	Attributes			
M	REF01	128	Reference Identification Qualifier	M ID 2/3			
			Code qualifying the Reference Identification				
			IK Invoice Number				
			Manufacturer's invoice nu	mber for vehicle/component			
>>	REF02	127	Reference Identification	X AN 1/30			
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
			The invoice number originally transmitted in the	e 810 - BIG02			

Segment: **REF** Reference Identification - Commodity

Position: 170

Loop: RMR Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

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.

If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes:

#### Optional

This segment may be sent to indicate the RMR04 amount pertains to electric commodity

REF\*QY\*EL

			Data Li	cificiti Suffiffat y		
	Ref.	Data				
	Des.	Element	Name		Attribi	ıtes
M	REF01	128	Reference Identi	fication Qualifier	M	ID 2/3
			Code qualifying	the Reference Identification		
			QY	Service Provided Code		
				REF02 is the commodity associaccount sent in RMR02.	ciated with the	customer
	REF02	127	Reference Identi	fication	X	AN 1/30
				nation as defined for a particular Tra Reference Identification Qualifier	ansaction Set o	or as

Segment: **REF** Reference Identification - Supplier Account

Position: 170

Loop: RMR Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify identifying information

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

2 If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.

REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes: Supplier (ESP) Account Number

**Data Element Summary** 

Ref. Data Des. Element Name Attributes M REF01 128 Reference Identification Qualifier M ID 2/3 Code qualifying the Reference Identification 11 Account Number Number identifies a telecommunications industry account Energy Service Provider-assigned account number for the end use customer. REF02 127 Reference Identification >> X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

Segment: **REF** Reference Identification - Service Indicator

Position: 175

Loop: RMR Optional (Must Use)

Level: Detail Usage: Optional

Max Use:

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.

If either C04005 or C04006 is present, then the other is required. REF04 contains data relating to the value cited in REF02.

Semantic Notes: Comments:

Notes: Conditional: Eversource North as Service Account Identifier in current system.

Required: Eversource as POD Id, in their new Omni system.

REF\*MG\*123456

Data Element Summary

Ref. Data
Des. Element Name

M REF01 128 Reference Identification Qualifier

Code qualifying the Reference Identification

Code qualifying the Reference Identification

MG Meter Number

Identifies a specific Service

REF02 127 Reference Identification X AN 1/30

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier

The reference identification could be a meter number or other service code or

number

Segment: **DTM** Date/Time Reference - Posting

Position: 180

Loop: RMR Optional (Must Use)

Level: Detail Usage: Optional

Max Use: 1

Purpose: To specify pertinent dates and times

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

2 If DTM04 is present, then DTM03 is required.

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

Semantic Notes:

Comments:

Notes: required for non-POR and not used for POR

Data Element Summary										
	Ref.	Data								
	Des.	Element	Name	Attributes						
M	DTM01	374	Date/Time Qualifier	M ID 3/3						
			Code specifying type of date or time, or both date and time							
			809 Posted							
>>	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3						
			Code indicating the date format, time format, or date and time format							
			D8 Date Expressed in 1	Format CCYYMMDD						
>>	DTM06	1251	Date Time Period	X AN 1/35						
	Expression of a date, a time, or range of dates, times or dates at									

Segment: **SE** Transaction Set Trailer

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use:

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.

	Ref.	Data				
	Des.	Element	Name	Attributes		
M	SE01	96	Number of Included Segments	M	N0 1/10	
			Total number of segments included in a transaction set included segments	luding S	ST and SE	
M	SE02	329	Transaction Set Control Number	M	AN 4/9	
			Identifying control number that must be unique within the functional group assigned by the originator for a transactio	1		

# MASSACHUSETTS Electronic Business Transactions Standard

For

Electronic Data Interchange

**TRANSACTION SET** 

867

Product Transfer and Resale Report

Ver/Rel 004010

**Outbound to Energy Supplier** 

#### **Summary of Changes**

MARCH 29, 1999 JULY 14, 2004

- Initial Release Version 99.1
- Added REF\*T0 segment for Customer Generation Source
- Added REF\*SPL segment for Standard Point Location Code
   Zone
- Added Dun's + 4 capability for Suppliers to use on the N1\*SJ Segment.

JUNE 27, 2006

 Added customers ICAP TAG value segment for suppliers. Segment PSA.

January 14, 2015

Added REF03 to REFPRT to allow for Net Meter Indicator

November 4, 2015 Version 2.0  Added new segment REF\*KY in support of Net Metering Final Release

January 30, 2024 Version 2.1

- Incorporated CC 030
  - o Corrected K2 to K4
- Incorporated CC 031
  - Added REF\*BF Bill Cycle for Eversource

# 867 Product Transfer and Resale Report

# Functional Group ID= $\mathbf{PT}$

# **Heading:**

M	Pos. No. 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>
M	020	BPT	Beginning Segment for Product Transfer and Resale	M	1	
	078	PSA	Partner Share Accounting	O	10	
			LOOP ID - N1			1
Must Use	080	N1	Name - Distribution Company	О	1	
Must Use	120	REF	Reference Identification - Distribution Company Account	О	1	
			LOOP ID - N1			1
Must Use	080	N1	Name - Supplier	O	1	
	120	REF	Reference Identification - Supplier Account	О	1	
			LOOP ID - N1			1
Must Use	080	N1	Name - Customer Name	0	1	

# **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop <u>Repeat</u>
			LOOP ID - PTD			>1
M	010	PTD	Product Transfer and Resale Detail	M	1	
	030	REF	Reference Identification - Disco Rate Code	O	1	
	030	REF	Reference Identification - Type of Service	O	1	
	030	REF	Reference Identification - Service Identifier	О	1	
	038	REF	Reference Identification - Generation Source	O	1	
	043	REF	Reference Identification - Standard Point Location Code	O	1	
	044	REF	Reference Identification - Special Meter Configuration	О	1	
	045	REF	Reference Identification - LDC Bill Cycle	O	1	
			LOOP ID - QTY			>1
Must Use	110	QTY	Quantity	O	1	
	160	MEA	Measurements - Demand	O	1	
	160	MEA	Measurements - KWH	O	1	
Must Use	210	DTM	Date/Time Reference - Period Start	O	1	
Must Use	210	DTM	Date/Time Reference - Period End	О	1	

# **Summary:**

	Pos.	Seg.		Req.	Loop
	No.	<u>ID</u>	<u>Name</u>	Des. Ma	x.Use Repeat
M	030	SE	Transaction Set Trailer	M	1

Segment: ST Transaction Set Header

**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:** 1 The transaction set identifier (ST01) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	ST01	143	Transaction	Set Identifier Code	$\mathbf{M}$	ID 3/3
			Code uniquel	y identifying a Transaction Set		
			867	Product Transfer and Resale Report		
M	ST02	329	Transaction	Set Control Number	$\mathbf{M}$	AN 4/9
				ontrol number that must be unique within the toup assigned by the originator for a transaction		ion set

Segment: **BPT** Beginning Segment for Product Transfer and Resale

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

Purpose: To indicate the beginning of the Product Transfer and Resale Report Transaction Set and

transmit identifying data

Syntax Notes:

1 If either BPT05 or BPT06 is present, then the other is required.

**Semantic Notes:** 1 BPT02 identifies the transfer/resale number.

BPT03 identifies the transfer/resale date.
BPT08 identifies the transfer/resale time.

4 BPT09 is used when it is necessary to reference a Previous Report Number.

**Comments:** 

M	Ref. <u>Des.</u> BPT01	Data Element 353	Name Transaction Set Pu	rrnose Code	Attrib M	utes ID 2/2		
141	DI IVI	333		rpose of transaction set	171	110 2/2		
			52	Response to Historical Inquiry				
				Response to a request for historical me	eter rea	ding.		
>>	BPT02	127	Reference Identific	ation	O	AN 1/30		
				Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier				
			A unique transaction request.	n identification number, assigned by the	origin	ator of		
M	BPT03	373	Date		M	<b>DT 8/8</b>		
			Date expressed as C	CYYMMDD				
			Transaction Creation	n Date				

Segment: PSA Partner Share Accounting

**Position:** 078

Loop:

Level: Heading Usage: Optional Max Use: 10

**Purpose:** To communicate the percentage share of the project that a particular owner has to pay

**Syntax Notes:** 1 If PSA05 is present, then PSA04 is required.

**Semantic Notes:** 1 PSA04 is the amount of the total partner's share of gross charges for the property, if

PSA05 is not used.

**Comments:** 1 PSA03 is expressed as a decimal amount.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Attrib	outes
M	PSA01	66	Identification Code Qualifier	M	ID 1/2
			Code designating the system/method of code structure used Code (67)		
			93 Code assigned by the organization ori transaction set	ginating	g the
M	PSA02	67	Identification Code	$\mathbf{M}$	AN 2/80
			Code identifying a party or other code		
			f the ICAP TAG is zero or greater use literal value "ICAP". If the ICAP TAG field on the Application file is blank, than use the literal value "NO ICAP TAG".	ΓAG".	
M	PSA03	826	Owners Share	M	R 1/8
			To indicate owner's share of the property		
			ICAP TAG VALUE (Should never be blank. If the ICAP file field is blank the default will be zero for this field, othe be zero or greater). Field format is 5.3 or 5 places to the le 3 places to the right of the decimal. (To determine if a zero ICAP TAG or the default value refer to the PSA02 element Example = 00001230 or 00000000	rwise it ft of the in this	will either decimal and field is the
	PSA04	782	Monetary Amount	X	R 1/18
			Monetary amount		

Segment: N1 Name - Distribution Company

**Position:** 080

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** 

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

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

M	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	<u>Name</u> Entity Identifier C	ode	Attrib M	outes ID 2/3
			Code identifying an individual 8S	organizational entity, a physical location Consumer Service Provider (CSP)	on, prop	perty or an
				Utility		
	N102	93	Name		X	AN 1/60
			Free-form name			
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	e system/method of code structure used	l for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>	e	X	AN 2/80
			Code identifying a p	party or other code		

Segment: REF Reference Identification - Distribution Company Account

**Position:** 120

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

**Notes:** 

**Purpose:** To specify identifying information

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

Required by the Utility Industry Group

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

**Data Element Summary** 

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Quality Code qualifying the Reference Identification Property in the Reference Identification Quality	
			12 Billing Acc	
			customer.	gned account number for the end use
>>	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined	d for a particular Transaction Set or as

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

Segment: N1 Name - Supplier

**Position:** 080

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		Attrib	outes
M	N101	98	<b>Entity</b> Identifier C	ode	M	ID 2/3
			Code identifying an individual	organizational entity, a physical location	on, prop	perty or an
			SJ	Service Provider		
				Identifies name and address informatiservice provider for which billing is b		
				Energy Service Provider		
	N102	93	Name		X	AN 1/60
			Free-form name			
>>	N103	66	<b>Identification Code</b>	e Qualifier	X	ID 1/2
			Code designating the Code (67)	ne system/method of code structure used	for Ide	entification
			1	D-U-N-S Number, Dun & Bradstreet		
>>	N104	67	<b>Identification Code</b>	e	X	AN 2/80
			Code identifying a	party or other code		

Segment: REF Reference Identification - Supplier Account

**Position:** 120

**Loop:** N1 Optional (Must Use)

Level: Heading Usage: Optional Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

## **Data Element Summary**

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		<u>Attrib</u>	<u>outes</u>
M	REF01	128	Reference Identifi	cation Qualifier	M	ID 2/3
			Code qualifying the	e Reference Identification		
			11	Account Number		
				Number identifies a telecommunicati	ons indu	stry account
				Energy Service Provider-assigned ac the end use customer.	count nu	ımber for
>>	REF02	127	Reference Identifi	cation	X	AN 1/30
			Reference informat	tion as defined for a particular Transact	ion Set o	or as

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

Segment: N1 Name - Customer Name

**Position:** 080

**Loop:** N1 Optional (Must Use)

Level: Heading

**Usage:** Optional (Must Use)

Max Use: 1

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

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

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

**Semantic Notes:** Comments:

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

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

M	Ref. <u>Des.</u> N101	Data Element 98	Name Entity Identifier (	<del>-</del>	Attrib M	<u>utes</u> ID 2/3
			Code identifying at individual 8R	n organizational entity, a physical location Consumer Service Provider (CSP) Cust		erty or an
				Current name of the end use customer.		
>>	N102	93	Name Free-form name		X	AN 1/60

Segment: PTD Product Transfer and Resale Detail

**Position:** 010

**Loop:** PTD Mandatory

Level: Detail Usage: Mandatory

Max Use:

**Purpose:** To indicate the start of detail information relating to the transfer/resale of a product and

provide identifying data

**Syntax Notes:** 1 If either PTD02 or PTD03 is present, then the other is required.

If either PTD04 or PTD05 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** The PTD loop conveys consumption information for one meter or register over a number

of metering intervals. Accounts that have multiple meters or registers require multiple

PTD loops.

**Data Element Summary** 

Code identifying the type of product transfer PM Physical Meter Information

Segment:  ${f REF}$  Reference Identification - Disco Rate Code

**Position:** 030

**Loop:** PTD Mandatory

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

REF04 contains data relating to the value cited in REF02.

# **Data Element Summary**

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier Code qualifying the Reference Identification			outes ID 2/3
			NH	Rate Card Number		
				Utility Rate class or tariff		
	REF02	127	Reference I	dentification	X	AN 1/30
			Reference in	nformation as defined for a particular Transact	tion Set o	or as

Reference information as defined for a particular Transaction Set specified by the Reference Identification Qualifier Segment: REF Reference Identification - Type of Service

**Position:** 030

**Loop:** PTD Mandatory

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

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

			Data Elei	nent Summary		
M	Ref. <u>Des.</u> REF01	Data Element 128	<u>Name</u> Reference Identif	iication Qualifier	Attrib M	outes ID 2/3
				ne Reference Identification		
			PRT	Product Type		
				Identifies the type of service; e.g., yar heater, etc.	d light,	water
>>	REF02	127	Reference Identif	ication	X	AN 1/30
				ation as defined for a particular Transaction eference Identification Qualifier Apply To All Services	on Set	or as
			С	Combined Service (Multiple Meters B	Billed as	s a Summary)
			D	Metered Service Demand & kWh		37
			Е	Metered Service kWh		
			F	Metered Service TOU - Off Peak		
			Н	Controlled Hot Water		
			L	Lighting Service		
			N	Non-Metered Service		
			O	Metered Service TOU - On Peak		
			T	Metered Service TOU		
R	REF03	352	Description		X	AN 1/80
			A free-form descr	iption to clarify the related data elements	and the	eir content
			To indicate presen	ice of Net Meter		
			X	Net Meter		

Segment:  ${f REF}$  Reference Identification - Service Identifier

**Position:** 030

**Loop:** PTD Mandatory

Level: Detail Usage: Optional

Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

Notes:

1 REF04 contains data relating to the value cited in REF02.

This segment is required if PTD01 equals P.M.; this segment is optional if PTD01 equals

M	Ref. <u>Des.</u> REF01	Data <u>Element</u> 128	Name Reference Identification Qualifier	Attrib M	outes ID 2/3
			Code qualifying the Reference Identification MG Meter Number		
>>	REF02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transact specified by the Reference Identification Qualifier	ion Set	or as
			Meter Number. NU uses this field to represent Service Ac	count II	)

 ${f REF}$  Reference Identification - Generation Source **Segment:** 

038 **Position:** 

PTD Loop: Mandatory

Level: Detail Optional Usage: 1

Max Use:

**Purpose:** To specify identifying information

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

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:** 

REF04 contains data relating to the value cited in REF02. 1

	Ref.	Data	Data Elei	ment Summary		
M	Des. REF01	Element 128	<u>Name</u> Reference Identif	ication Qualifier	Attrib M	outes ID 2/3
			Code qualifying th	e Reference Identification		
			T0	Dealer Type Identification		
				Generation Source. For Historical Usi identifies type of generation most rec		
	REF02	127	Reference Identif	account.	X	AN 1/30
	KEF 02	127	Reference informa	tion as defined for a particular Transacti eference Identification Qualifier Competitive Supplier		
			D	Default, Fixed Rate		
			S	Standard Offer		
			V	Default, Variable Rate		
	REF03	352	Description		X	AN 1/80
			A free-form descri	ption to clarify the related data elements	and the	eir content

**REF** Reference Identification - Standard Point Location Code **Segment:** 

**Position:** 043

PTD Loop: Mandatory

Level: Detail Usage: Optional 1

Max Use:

**Notes:** 

**Purpose:** To specify identifying information

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

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

The Independant System Operator for New England (ISO NE) has established 8 zonal areas within New England Power Pool in support of FERC'S Standard Market Design rules. Each customer will be associated to a zone within the ISO as determined by the Local Distribution Company. Energy will be delivered to these zones, for customers within the zone, by their energy suppliers. The zone is a new attribute of a customer's account that needs to be provided to the Energy Supplier to enable them to manage their supply.

The zone attribute will be returned as part of a successful enrollment response to a supplier enrollment request. If the zone is changed by the LDC, during the period served by the supplier, an 814 Change transaction will be issued by the LDC with the new REF\*SPL\*\*ZONE identified. The zone would also be issued on a MOVE transaction and a successful response to a Historical Usage Request, 867 Document.

M	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identific Code qualifying the	Reference Identification		outes ID 2/3
			SPL	Standard Point Location Code (SPLC)		
				Standard Point Location Code (SPLC) the customer is connected to the transmission grid (ISO NE Zone) This Wholesale Settlement Zone		
	REF02	127	Reference Identific	cation	X	AN 1/30
	REF03	352		on as defined for a particular Transaction  erence Identification Qualifier	on Set o	or as AN 1/80
			A free-form descrip CONNECTICUT	tion to clarify the related data elements	and the	eir content
			MAINE			
			NEMASSBOST			
			NEWHAMPSHII	RE		
			RHODEISLAND			

SEMASS VERMONT WCMASS Segment: REF Reference Identification - Special Meter Configuration

**Position:** 044

**Loop:** PTD Mandatory

Level: Detail Usage: Optional

Max Use: 1

**Notes:** 

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

Not used by NSTAR (see REF\*PRT). Not used by WMECO.

Example: REF\*KY\*NETMETER

	Ref.	Data				
	Des.	<b>Element</b>	Name		Attrib	utes
M	REF01	128	Reference Identifi	ication Qualifier	M	ID 2/3
			Code qualifying th	e Reference Identification		
			KY	Site Specific Procedures, Terms, and	Conditi	ons
				A set of procedures, terms, and condicategory of procurement emanating flocation, which will be incorporated actions in that category by referencing rather than by incorporating the length represents  Special Meter Configuration	rom a sp into all p g its uni	pecific procurement que number
3.6	DEEGA	105	D.C. T.1 4.0	1	3.6	A NI 1/20
M	REF02	127	Reference Identifi	ication	M	AN 1/30
				tion as defined for a particular Transacti eference Identification Qualifier Net Metering Present	on Set o	or as
	REF03	352	Description		O	AN 1/80
			A free-form descri	ption to clarify the related data elements	and the	ir content

Segment: REF Reference Identification - LDC Bill Cycle

**Position:** 045

**Loop:** PTD Mandatory

Level: Detail
Usage: Optional
Max Use: 1

**Purpose:** To specify identifying information

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

If either C04003 or C04004 is present, then the other is required.
 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

1 REF04 contains data relating to the value cited in REF02.

M	Ref. <u>Des.</u>	Data Element	Name D. S. H. 4161		Attrib	
M	REF01	128	Reference Identific	•	M	ID 2/3
			Code qualifying the	Reference Identification		
			BF	Billing Center Identification		
				LDC Bill Cycle		
	REF02	127	Reference Identific	eation	X	AN 1/30
				on as defined for a particular Transacti erence Identification Qualifier	on Set o	or as
			Bill Cycle as 2-digit	number (e.g. 01, 02, etc)		

Segment: QTY Quantity

**Position:** 110

**Loop:** QTY Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify quantity information

Syntax Notes: 1 At least one of QTY02 or QTY04 is required.

Only one of QTY02 or QTY04 may be present. QTY04 is used when the quantity is non-numeric.

**Semantic Notes:** 

**Comments:** 

**Notes:** 

Each QTY/MEA/DTM loop conveys consumption information about one metering

interval.

M	Ref. <u>Des.</u> QTY01	Data <u>Element</u> 673	Name Quantity Q	ualifier	<u>Attrib</u> M	outes ID 2/2
			Code specif	ying the type of quantity		
			QD	Quantity Delivered		
>>	QTY04	61	Free-Form	Message	X	AN 1/30
			Free-form in	formation		
			NV	No Value		

Segment: MEA Measurements - Demand

**Position:** 160

**Loop:** QTY Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

>>	Ref. Des. MEA03	Data Element 739	<u>Name</u> Measuremen	nt Value	Attrib X	outes R 1/20
			The value of	the measurement		
	MEA04	C001	Composite U	Unit of Measure	X	
			To identify a of use)	composite unit of measure (See Figures App	endix fo	or examples
M	C00101	355	Unit or Basi	s for Measurement Code	M	ID 2/2
				ring the units in which a value is being express surement has been taken Kilowatt Demand	sed, or n	nanner in
			K4	Represents potential power load mean predetermined intervals Kilovolt Amperes Measure of electrical power	sured at	
>>	MEA07	935	Measuremen	nt Significance Code	O	ID 2/2
			Code used to	benchmark, qualify or further define a measu	irement	value
			22	Actual		

**Comments:** 

Segment: MEA Measurements - KWH

**Position:** 160

**Loop:** QTY Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

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 At least one of MEA03 MEA05 MEA06 or MEA08 is required.

2 If MEA05 is present, then MEA04 is required.3 If MEA06 is present, then MEA04 is required.

4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

5 Only one of MEA08 or MEA03 may be present.

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

When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the

negative (-) value and MEA06 as the positive (+) value.

**Notes:** When meter readings are recorded, this segment must be is sent with the first iteration of

the QTY loop, to establish the initial measurement values and readings. For subsequent iterations of the QTY loop, this segment need not be sent because the readings can be

inferred by accumulating the QTY02 value. May not apply to summarized or historical data.

	Ref. Des.	Data Element	Name	Attribi	utos
>>	MEA03	739	Measurement Value		R 1/20
			The value of the measurement		
			Represents the meter constant when MEA02 equals "MU". is present, use a value of 1.	When	no multiplier
	MEA04	C001	Composite Unit of Measure	X	
	G00404	255	To identify a composite unit of measure (See Figures Appelof use)		_
M	C00101	355	Unit or Basis for Measurement Code		ID 2/2
			Code specifying the units in which a value is being expressor which a measurement has been taken  KH Kilowatt Hour	ed, or m	nanner in
>>	MEA07	935	Measurement Significance Code	0	ID 2/2
	TVILLIEU /	700	Code used to benchmark, qualify or further define a measur	_	
			22 Actual	· cincit v	varue
			46 Estimated		

Segment: **DTM** Date/Time Reference - Period Start

**Position:** 210

**Loop:** QTY Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

				· ~ ·		
	Ref. Des.	Data Element	Name		Attrib	nites
M	DTM01	374	Date/Time Qualifier		M	ID 3/3
		-	•	of date or time, or both date and time		
			150 S	Service Period Start		
	<b>DTM05</b>	1250	<b>Date Time Period Fo</b>	rmat Qualifier	X	ID 2/3
			Code indicating the da	te format, time format, or date and time	ne fori	nat
			D8 E	Date Expressed in Format CCYYMM	DD	
	<b>DTM06</b>	1251	<b>Date Time Period</b>		X	AN 1/35
			Expression of a date, a	time, or range of dates, times or date	s and t	imes

Segment: DTM Date/Time Reference - Period End

**Position:** 210

**Loop:** QTY Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

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

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

2 If DTM04 is present, then DTM03 is required.

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

**Semantic Notes:** Comments:

**Notes:** 

This segment must be sent with the first iteration of the QTY loop, to establish the initial interval date and time. For subsequent iterations of the QTY loop, this segment need not be sent because the dates and times can be inferred from the metering interval identified in the meter type (REF01 = MT).

M	Ref. <u>Des.</u> DTM01	Data Element 374	Name Date/Time Qualifier	Attributes M ID 3/3
			Code specifying type of date or time, or both date and	ł time
			151 Service Period End	
	<b>DTM05</b>	1250	<b>Date Time Period Format Qualifier</b>	X ID 2/3
			Code indicating the date format, time format, or date	and time format
			D8 Date Expressed in Format CCY	YMMDD
	<b>DTM06</b>	1251	Date Time Period	X AN 1/35
			Expression of a date, a time, or range of dates, times	or dates and times

SE Transaction Set Trailer **Segment:** 

**Position:** 

Loop:

Summary Level: 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:** SE is the last segment of each transaction set.

M	Ref. Des. SE01	Data Element 96	Name Number of Included Segments	Attrib M	utes N0 1/10
М	SE02	329	Total number of segments included in a transaction set included segments  Transaction Set Control Number	C	T and SE
	2232		Identifying control number that must be unique within the functional group assigned by the originator for a transaction	transact	