

# Electronic Data Interchange Implementation Guide

## Third Party Energy Service Providers

Direct Access, Community Choice Aggregation and Core Transport Agents

TRANSACTION SET

**248**

Version 4010  
Account Assignment/Inquiry and Service/Status

Last Revised: June 30, 2020





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	<b>Summary of Changes</b>
January 29, 2007	TPVS - Initial Release 810in v.4010.
June 9, 2009	Added OBF/HW
July 26, 2016	Revised and updated for consistency
January 05, 2018	Added BHT05 Time
January 08,2018	Added data elements values for REF01
January 08,2018	Added REF03 for VD03 and T303
January 08,2018	Added data element values for DTP01
January 08,2018	Added data element value for DTP01
June 30,2020	Updated All segments to reflect current 248 Mapping



**PACIFIC GAS AND ELECTRIC SET-UP AND CONTACT INFORMATION**

Internet Server File Naming Convention:

**Outbound File From PGE to Service Providers**

[VNDR\_Short\_Name]\_CCYYMMDDHHMMSSXXX.EDI248

Example: XYZ\_201912300228029478.EDI248

Recommended Delimiters:

- Data Element Delimiter | (Hex Value 7C)
- Data Segment Terminator ~ (Hex Value 7E)
- Data SubElement Separator ^ (Hex Value 5E)

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PG&E utilizes ANSI X12 version 004010 following the Utility Industry Guideline (**UIG**) for 004010. This document is subject to change based upon future UIG approved standards and regulatory mandates



# 248 Account Assignment/Inquiry and Service/Status

Functional Group ID=SU

## Introduction:

This Implementation Guideline was designed to communicate account assignment information from the utility to the collection agency and to communicate collection activity status from the agency to the utility. Any account status or maintenance information is in the context of collection activity only; this transaction is not to be used for maintenance of accounts that are not in collection status.

In the alternative energy supply environment, one of the parties (the "billing party") may provide collection services for the other party (the "non-billing" party). This transaction can also serve the secondary purpose of notifying the non-billing party that the billing party has written-off the account as uncollectible and has assigned the account to a collection agency. The non-billing party may then wish to take necessary action to obtain any amounts due to it.

### Interchange Control Header

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
11	010	ISA	Interchange Control Header	M	1		
13	020	GS	Functional Group Header	M	1		

### Heading

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
15	010	ST	Transaction Set Header	M	1		
16	020	BHT	Beginning of Hierarchical Transaction	M	1		
						LOOP ID - NM1	2
18	030	NM1	Individual or Organizational Name	M	1		n1

### Detail

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes and Comments
						LOOP ID - HL	>1
20	010	HL	Hierarchical Level	M	1		n2
22	020	NM1	Individual or Organizational Name	M	1		n3
23	030	N2	Additional Name Information	O	1		
24	040	N3	Address Information	O	1		
25	050	N4	Geographic Location	O	1		
26	060	REF	Reference Identification	O	>1		
27	110	BAL	Balance Detail	O	1		
						LOOP ID - DTP	>1
28	120	DTP	Date or Time or Period	M	1		
29	150	AMT	Monetary Amount	O	1		
30	170	REF	Reference Identification	O	1		
30	180	SE	Transaction Set Trailer	M	1		

### Interchange Control Trailer



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<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max. Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
31	030	GE	Functional Group Trailer	M	1		
32	040	IEA	Interchange Control Trailer	M	1		

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### Transaction Set Notes

1. The Header NM1 loop will contain only information pertaining to the Credit Grantor, the Collection Agency, and any third-party firms.
2. The HL loop will contain parent-child (subordinate) data relationships pertaining to the debtor and/or any association to the debtor.  
The HL/NM1 segment will contain only information pertaining to the debtor and/or any subordinate association to the debtor.

# Best Practices

## Use of Text Segments

- The UIG recommends that the note (NTE) segment be avoided because this segment is not machine-readable. Other text segments, such as MSG and PID, may be used if their use will lead to machine processable information in subsequent applications.

## Use of 01 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 01 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

- 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.

## Time Value

- PG&E transmits all information using the international standard, Universal Coordinate Time (UTC). UTC, for the purposes of this document, is simply the Pacific Standard Time (PT) without daylight savings time correction. UTC is an internationally recognized time representation and is actually used in nearly all of our modern computer systems, including desktop PCs.
- Meter readings, administrative operations, and billing transactions are all reported in UTC. Some account billing is based upon time-of-day which is normally defined in terms of local time. For those accounts, conversion from UTC to local time must be performed.
- Differences from UTC to PST is 8 hours, i.e. (480 minutes). PG&E's service territory local time is based on Pacific Standard Time (PST)..

### **Use of DTM02/03**

- Use of DTM02/03 rather than DTM05/06 allows the translator to validate on the date and time. This facilitates immediate rejection with the 997.
- While there is at present no preferred coding practice, UIG encourages the use of the DTM02/03 in new implementations, where possible.

### **Use of The HL Segment**

- The HL segment is used to identify levels of detail information using a hierarchical structure. In this transaction set, the chosen hierarchical structure (BHT01) is 0057, which provides for three levels of detail information. The highest level of detail relates to the customer that owes the debt to the utility. Other subordinate levels of detail can be provided about other parties known to the utility that may be able to provide information to the collection agency about the debtor customer.

### **Definitions for Data Element HL03**

- Code 24 (Supergroup) is used to identify the debtor customer.
- Code 25 (Subgroup) is used to identify a party one level removed from the debtor customer, such as a parent, child, or employer.
- Code 26 (Member) is used to identify a party two levels removed from the debtor customer, such as a grandparent, a parent's employer, or a child's employer.

### **Use of The Detail N3 Segment**

- The address specified in the Detail N3 segment is the mailing address of the party identified in the NM1 segment. The service address of the debtor customer is not needed by the collection agency and is already known to the Energy Service Provider (ESP).





**Segment:** **ISA** Interchange Control Header  
**Position:** 010  
**Loop:**  
**Level:**  
**Usage:** Mandatory (**PG&E Mandatory Segment**)  
**Max Use:** 1  
**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments

**Syntax Notes:** All elements in the ISA segment must be exact in length. This includes “filler whitespace”, as necessary.

**Semantic Notes:**

**Comments:**

**Notes:**

Ex: ISA|00| |00| |09|006912877 |01|999999999  
 |150424|0850|U|00401|100000061|0|P|^~

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ISA01	I01	<b>Authorization Information Qualifier</b> Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
M	ISA02	I02	<b>Authorization Information</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M AN 10/10
M	ISA03	I03	<b>Security Information Qualifier</b> Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M ID 2/2
M	ISA04	I04	<b>Security Information</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M AN 10/10
M	ISA05	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet) PG&E Sender ID 006912877	M ID 2/2
M	ISA06	I06	<b>Interchange Sender ID</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M AN 15/15
M	ISA07	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet) Vendor Receiver ID	M ID 2/2
M	ISA08	I07	<b>Interchange Receiver ID</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M AN 15/15



M	ISA09	I08	<b>Interchange Date</b> Date of the interchange	M	DT 6/6
M	ISA10	I09	<b>Interchange Time</b> Time of the interchange	M	TM 4/4
M	ISA11	I10	<b>Interchange Control Standards Identifier</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer Refer to 004010 Data Element Dictionary for acceptable code values.	M	ID 1/1
M	ISA12	I11	<b>Interchange Control Version Number</b> This version number covers the interchange control segments 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID 5/5
M	ISA13	I12	<b>Interchange Control Number</b> A control number assigned by the interchange sender	M	NO 9/9
M	ISA14	I13	<b>Acknowledgment Requested</b> Code sent by the sender to request an interchange acknowledgment (TA1) 0 No Acknowledgment Requested	M	ID 1/1
M	ISA15	I14	<b>Usage Indicator</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information P Production	M	ID 1/1
M	ISA16	I15	<b>Component Element Separator</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M	AN 1/1

PG&E recommends a caret (^, hex value 5E).



**Segment:** **GS** Functional Group Header  
**Position:** 020  
**Loop:**  
**Level:**  
**Usage:** Mandatory (PG&E Mandatory Segment)  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:**

- 1 GS04 is the group date.
- 2 GS05 is the group time.
- 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Comments:**

- 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

**Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GS01	479	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets SU Account Assignment/Inquiry (248)	M ID 2/2
M	GS02	142	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners Sender's DUNS. This should match the ISA06.	M AN 2/15
M	GS03	124	<b>Application Receiver's Code</b> Code identifying party receiving transmission; codes agreed to by trading partners Receiver's DUNS. This should match the ISA08.	M AN 2/15
M	GS04	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
M	GS05	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M TM 4/8
M	GS06	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	M NO 1/9
M	GS07	455	<b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	M ID 1/2
M	GS08	480	<b>Version / Release / Industry Identifier Code</b> Code indicating the version, release, sub release, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and sub release, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	M AN 1/12



**Version 2.1 – June 30, 2020**

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004010

Draft Standards Approved for Publication by ASC  
X12 Procedures Review Board through October  
1997

PG&E requires the use of version 4010.



**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**  
**Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set 248 Application Advice	M ID 3/3
M	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9



**Segment:** **BHT** Beginning of Hierarchical Transaction  
**Position:** 020  
**Loop:**  
**Level:** Heading:  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number and date

**Syntax Notes:**

- Semantic Notes:**
- 1 BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
  - 2 BHT04 is the date the transaction was created within the business application system.

**Comments:**

**Notes:**

**Data Element Summary**

Ref.	Data	Name		Attributes
Des.	Element			
M	BHT01	1005	<b>Hierarchical Structure Code</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0057 Supergroup, subgroup, member Supergroup= Debtor customer. Subgroup = One level removed from the Debtor; e.g., Debtor's parent, Debtor's employer.	M ID 4/4
M	BHT02	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 08 Status	M ID 2/2
	BHT03	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier A unique transaction number assigned by the originator.	M AN 1/30
	BHT04	373	<b>Date</b> Date expressed as CCYYMMDD The transaction creation date.	M DT 8/8
	BHT05	337	<b>Time</b> Time expressed as HHMISS	M TM 6/6



**Segment:** **NM1** Individual or Organizational Name  
**Position:** 030  
**Loop:** NM1  
**Level:** Heading:  
**Usage:** Mandatory  
**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.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual 8S Consumer Service Provider In the alternative energy supply environment or TPVS, this is the Utility.	M ID 2/3
M	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity 4 Corporation	M ID 1/1
	NM103	1035	<b>Name Last or Organization Name</b> PACIFIC GAS and ELECTRIC	M AN 1/35
	NM108	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet	M ID 1/2
	NM109	67	<b>Identification Code</b> 006912877 PG&E's DUNS number	M AN 2/80

**Segment:** **HL Hierarchical Level**  
**Position:** 010  
**Loop:** HL  
**Level:** Summary:  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:**

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	HL01	<b>628 Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	<b>M AN 1/12</b>
	HL02	<b>734 Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	<b>O AN 1/12</b>
M	HL03	<b>735 Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure	<b>M ID 1/2</b>
		24 Supergroup	
		25 Subgroup	
		One level removed from the Debtor; e.g., Debtor's parent, Debtor's employer.	
	HL04	<b>736 Hierarchical Child Code</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	<b>O ID 1/1</b>
		0 No Subordinate HL Segment in This Hierarchical Structure.	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure.	





**Segment:** **NM1** Individual or Organizational Name  
**Position:** 020  
**Loop:** NM1  
**Level:** Heading:  
**Usage:** Mandatory  
**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.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:**

**Data Element Summary**

Ref. Des.	Data Element	Name	Attributes
M	NM101	98 <b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		85 Billing Provider In the alternative energy supply environment, this is a third party that provides billing services; e.g. a Billing Agent.	
		8R Customer	
		8S Consumer Service Provider In the alternative energy supply environment or TPVS, this is the Utility.	
		SJ Service Provider In the alternative energy supply environment, this is the Energy Service Provider. For TPVS - Third Party Vendor.	
M	NM102	1065 <b>Entity Type Qualifier</b> Code qualifying the type of entity	M ID 1/1
		1 Person Entity	
		2 Non-Person Entity The entity name is not segmented into discrete elements and will be transmitted in NM103 only.	
		3 Unknown The entity name is not segmented into discrete elements and will be transmitted in NM103 only.	
	NM103	1035 <b>Name Last or Organization Name</b> Individual last name or organizational name	O AN 1/35
	NM108	66 <b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
		1 D-U-N-S Number, Dun & Bradstreet	
	NM109	67 <b>Identification Code</b> Code identifying a party or other code	X AN 2/80



**Segment:** REF Reference Identification  
**Position:** 060  
**Loop:** HL  
**Level:** Summary:  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		5B	Supplemental Account Number DA - XREF .	
		CR	Customer Reference Number DA - XREF	
		11	Account Number Energy Service Provider-assigned account number for the Debtor. ESP Customer ID	
		2I	Tracking Number Bill Segment ID	
		R3	Correction Number Sub SA ID	
		TS	PG&E Rate	
		RB	Service Provider Rate	
		ACC	Bseg Status Bill segment status for example – FROZEN or CANCEL or ADJUSTMENT	
		UU	Township Number Town or Territory Code	
		PRT	Product Type Service Commodity - Indicates if this is Gas (G) or Electric (E)	
		10	Customer Account Number Account ID	
		AAX	Bill ID	
		T3	Tax Code	
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X AN 1/30</b>
	<b>REF03</b>	<b>127</b>	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	<b>X AN 1/30</b>



**Segment:** **DTP** Date or Time or Period  
**Position:** 120  
**Loop:** DTP  
**Level:** Summary:  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify any or all of a date, a time, or a time period  
**Syntax Notes:**  
**Semantic Notes:** 1 DTP02 is the Date Time period format qualifier  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTP01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time The following codes are recommended by the UIG. Other codes from data element 374 may be used by agreement of the trading partners.	<b>M ID 3/3</b>
			150 Service Period Start Invoice period start date.	
			151 Service Period End Invoice period end date.	
			133 Bill Create Date Date bill was created	
			013 Bill Due Date Date bill is due.	
			472 Start and end date of the Bill Segment 20180102-20180131	
			154 Adjustment Date Date Bill Adjustment was made	
M	DTP02	1250	<b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format	<b>M ID 2/3</b>
			D8 Where ref 01 = 150 or 151 or 133 or 013	
			RD8 Where Ref 01 = 472	
M	DTP03	1251	<b>Date Time Period</b> Date Expressed in Format CCYYMMDD	<b>M AN 1/35</b>



**Segment:** **AMT** Monetary Amount  
**Position:** 150  
**Loop:** DTP  
**Level:** Summary:  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Notes:** In the initial assignment transaction, this segment may be used to itemize the components of the amount shown in the preceding BAL segment. In subsequent transactions, this segment may be used to show the original debt and the total of any payments or adjustments made to date.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount	M ID 1/2
			T ECT/UUT Charge Amount	
			PB Service Provider Charge Amount	
M	AMT02	782	<b>Monetary Amount</b> Monetary amount	M R 1/18



**Segment:** REF Reference Identification  
**Position:** 170  
**Loop:** DTP  
**Level:** Summary:  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
			VD Volume Number Usage	
			T3 Tax Code "UUT"/"ECT"	
			99 Rate Conference ID Code Adjustment Type	
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>X AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	<b>REF03</b>	<b>127</b>	<b>Reference Identification</b>	<b>X AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	



**Segment:** **SE** Transaction Set Trailer  
**Position:** 180  
**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.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	<b>M NO 1/10</b>
M	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>M AN 4/9</b>

**Segment:** **GE** Functional Group Trailer  
**Position:** 030  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:** 1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.  
**Comments:** 1 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.  
**Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GE01	97	<b>Number of Transaction Sets Included</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M NO 1/6
M	GE02	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	M NO 1/9



**Segment:** **IEA** Interchange Control Trailer  
**Position:** 040  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

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



**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	IEA01	I16	<b>Number of Included Functional Groups</b> A count of the number of functional groups included in an interchange	<b>M NO 1/5</b>
M	IEA02	I12	<b>Interchange Control Number</b> A control number assigned by the interchange sender	<b>M NO 9/9</b>





**EDI 248 Account Assignment / Inquiry and Service / Status - Example**

ST\*248\*000000001~  
BHT\*0057\*08\*24819123002000010112000000001\*20191230\*022758~  
NM1\*8S\*4\*PACIFIC GAS and ELECTRIC\*\*\*\*\*1\*006912877~  
HL\*1\*\*24\*1~  
NM1\*SJ\*2\*ESP\_ACCOUNT\_NAME\*\*\*\*\*1\*123456789~ // ESP D&B Number  
HL\*2\*1\*25\*0~  
NM1\*8R\*1\*Doe, John~ //Customer Name  
REF\*AAX\*999999990000~ //Bill ID  
REF\*10\*6666666666~ //Account ID  
REF\*11\*1122334455~ //ESP Customer ID  
REF\*CR\*1122334455~ //DA XREF  
REF\*5B\*1122334455~ //DA\_XREF  
REF\*R3\*8888888888~ //Sub SA\_ID  
REF\*2I\*44444444444444~ //Bill Segment ID  
REF\*ACC\*CANCEL~ // FT Type  
REF\*UU\*V35\*MOUNTAIN VIEW INC~ //TOT Code  
REF\*PRT\*E~ //Service Commodity  
DTP\*133\*D8\*20191230~ //Bill Date  
DTP\*472\*RD8\*20190716-20190814~ //Bill Segment Start and End Date-DTPLoop ESPCharge  
AMT\*PB\*-14.3~ //ESP Charge Amount  
REF\*VD\*184\*KWH~ //Usage in KWH for Electric  
DTP\*472\*RD8\*20190716-20190814~ //Bill Segment Start and End Date-DTPLoop UUTCharge  
AMT\*T\*-0.43~ //UUT Charge Amount  
REF\*T3\*UUT~ //UUT  
DTP\*472\*RD8\*20190716-20190814~ //Bill Segment Start and End Date-DTPLoop ECTCharge  
AMT\*T\*-0.06~ //ECT Charge Amount  
REF\*T3\*ECT~ //ECT  
SE\*28\*000000001~