

810 Invoice

Functional Group ID=**IN**

Introduction:

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

Heading:

	<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>
M	010	ST	Transaction Set Header	M		1	
M	020	BIG	Beginning Segment for Invoice	M		1	
	030	NTE	Note/Special Instruction	O		100	
	050	REF	Reference Identification	O		12	
LOOP ID - N1						200	
	070	N1	Name	O		1	
	080	N2	Additional Name Information	O		2	
	090	N3	Address Information	O		2	
	100	N4	Geographic Location	O		1	
	120	PER	Administrative Communications Contact	O		3	
	130	ITD	Terms of Sale/Deferred Terms of Sale	O		>1	
	212	BAL	Balance Detail	O		>1	

Detail:

	<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>
LOOP ID - IT1						200000	
	010	IT1	Baseline Item Data (Invoice)	O		1	
	040	TXI	Tax Information	O		10	
	059	MEA	Measurements	O		40	
LOOP ID - PID						1000	
	060	PID	Product/Item Description	O		1	
	120	REF	Reference Identification	O		>1	
	150	DTM	Date/Time Reference	O		10	
LOOP ID - SLN						1000	
	200	SLN	Subline Item Detail	O		1	
	230	SAC	Service, Promotion, Allowance, or Charge Information	O		25	
LOOP ID - N1						200	
	240	N1	Name	O		1	
	260	N3	Address Information	O		2	
	270	N4	Geographic Location	O		1	

Summary:

	<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>
810CS40100 (004010)							

M	010	TDS	Total Monetary Value Summary	M	1	
			LOOP ID - SAC			25
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
	070	CTT	Transaction Totals	O	1	n1
M	080	SE	Transaction Set Trailer	M	1	

Transaction Set Notes

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

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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	329	Transaction Set Control Number 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: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:

Semantic Notes: 1 BIG01 is the invoice issue date.
 2 BIG03 is the date assigned by the purchaser to purchase order.
 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BIG01	373	Date Invoice Date. This is the date that the invoice data was generated by the sending application system.	M DT 8/8
M	BIG02	76	Invoice Number Identifying number assigned by issuer This number is defined as the PacifiCorp Account number and the invoice date (YYMMDD).	M AN 1/22
O	BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser 'UTILITY'	O AN 1/22
O	BIG07	640	Transaction Type Code Code specifying the type of transaction This invoice contains new, original, previously unbilled charges. Use with BIG08 '00'.	O ID 2/2
O	BIG08	353	Transaction Set Purpose Code Code identifying purpose of transaction set PR Product (or Service) 00 Original	O ID 2/2

Segment: **NTE** Note/Special Instruction
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Syntax Notes:

Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes: The NTE segment is used to convey messages at the account level. It also conveys the message whether it is an Opening or Closing bill.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
O	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			ADD Additional Information	
M	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

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 Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
O	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier The PacifiCorp Account number.	X AN 1/30

Segment: **N1** Name
Position: 070
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			BT	Bill-to-Party
			RE	Party to receive commercial invoice remittance
				Pacific Power
				Utah Power
O	N102	93	Name	X AN 1/60
			Free-form name	
O	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			91	Assigned by Seller or Seller's Agent
				PacifiCorp Account Number
			92	Assigned by Buyer or Buyer's Agent
				Customer supplied identification
O	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			If N103 is '91' this will contains the PacifiCorp Account Number	
			If N103 is '92' this will contain identifying information that has been supplied by the customer.	

Segment: N2 Additional Name Information
Position: 080
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	N201	93 Name Free-form name	M AN 1/60
O	N202	93 Name Free-form name	O AN 1/60

Segment: N3 Address Information
Position: 090
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	N301	166	Address Information Address information	M AN 1/55

Segment: **N4 Geographic Location**
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 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.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
O	N401	19	City Name Free-form text for city name	O AN 2/30
O	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
O	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15

Segment: **PER** Administrative Communications Contact
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named CR Customer Relations	M ID 2/2
O	PER02	93	Name Free-form name	O AN 1/60
O	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
O	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **ITD** Terms of Sale/Deferred Terms of Sale
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify terms of sale
Syntax Notes:

- 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
- 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantic Notes:

- 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
O	ITD06 446	Terms Net Due Date	O DT 8/8
		Date when total invoice amount becomes due expressed in format CCYYMMDD	
		This is the date payment is due.	

Segment: **BAL** Balance Detail
Position: 212
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:
Notes:

PacifiCorp will include four BAL segments to display invoice balance information:

BAL*M*J9 - Beginning balance
 BAL*M*TP - Total payments
 BAL*P*YB - Previous balance
 BAL*M*YB - Total outstanding balance

Data Element Summary

Ref.	Data Element	Name	Attributes
M	BAL01	951 Balance Type Code	M ID 1/2
		Code indicating the type of balance	
		M Current Month	
		Billed, payment and balance shown in the BAL03 are in this billing period.	
		P Previous Month	
		Balance of previous period charges prior to applying payments and adjustments for the previous period billing	
		Balance of previous period charges prior to applying payments and adjustments for the previous period billing.	
		Billed, payment and balance amounts shown in the BAL03 are for the period prior to this billing period.	
M	BAL02	522 Amount Qualifier Code	M ID 1/3
		Code to qualify amount	
		J9 Beginning Balance	
		BAL*M*J9 is used to display the amount the customer owed prior to the current billing with payments and adjustments applied.	
		TP Total payment amount	
		BAL*M*TP is used to display the total payments made. This will be the same amount in the SAC05 for SAC04 types 'PAY000' Total Payments	
		YB Actual Unpaid Principal Balance	
		BAL*P*YB is used to display the amount the customer owed as a result of the previous bill, prior to applying payments and adjustments for the previous billing period. This will be the same amount in the SAC05 for SAC04 types 'PRB000'.	
		BAL*M*YB is used to display the customer's total outstanding balance. This is what the customer owes from previous billing period plus the current billing charges. This will be the same as the amount in the TDS01 segment.	
M	BAL03	782 Monetary Amount	M R 1/18
		Monetary amount	

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 010
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

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

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

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

Notes: A single 810 may contain more that one IT1 loop.

PacifiCorp will provide one IT1 loop qualified with 'ACCOUNT' in IT109 to convey account level information.

IT1 loops qualified with 'METER' in IT109 conveys measurement and reading information attributed to a single meter.

IT1 loops qualified with 'RATE' in IT109 conveys all charges attributed to a single meter for a period.

IT1 loops qualified with 'UNMET' in IT109 conveys that the service is Non-electric and does not have a meter.

Each IT1 loop will include the REF/LU segment to indicate the Account Agreement Number for which the line item belongs to.

For all IT1-METER, TOU and non-TOU will convey whether the meter is Time Of Use or Non- Time Of Use. Same information will be conveyed by MEA segment also.

Value in IT109 provides the information about what the IT1 loop is for. If IT109 = METER, It conveys all the meter related information in MEA segments inside the IT1-METER loop. If IT109 = UNMET, It conveys that the particular service is Non-electric and hence it will not have MEA segments to show meter details.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
O	IT101	350 Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		Line item counter	
O	IT106	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	

			SV	Service Rendered		
O	IT107	234	Product/Service ID		X	AN 1/48
			Identifying number for a product or service			
			'ELECTRIC'			
O	IT108	235	Product/Service ID Qualifier		X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			C3	Classification		
O	IT109	234	Product/Service ID		X	AN 1/48
			Identifying number for a product or service			
			ACCOUNT			
			METER			
			RATE			
			UNMET			
O	IT110	235	Product/Service ID Qualifier		X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
			MB	Measurement Type Code		
O	IT111	234	Product/Service ID		X	AN 1/48
			Identifying number for a product or service			
			Examples: NT, TOU (Time Of Use measurement)			

Segment: **TXI Tax Information**
Position: 040
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 1 TXI02 is the monetary amount of the tax.
- 2 TXI03 is the tax percent expressed as a decimal.
- 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax CA City Tax Service Tax imposed by City CT County Tax ET Energy Tax Tax applied to the utility and petroleum industries FR Franchise Tax Tax imposed by municipality for the right to provide service MP Municipal Tax Service tax imposed by a municipality SL State and Local Tax State and Local tax funds, exclusive of State and Local Sales tax	M ID 2/2
O	TXI02	782	Monetary Amount Monetary amount	X R 1/18
O	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
O	TXI04	955	Tax Jurisdiction Code Qualifier Code identifying the source of the data used in tax jurisdiction code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
O	TXI05	956	Tax Jurisdiction Code Code identifying the taxing jurisdiction	X AN 1/10
O	TXI06	441	Tax Exempt Code Code identifying exemption status from sales and use tax Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
O	TXI07	662	Relationship Code Code indicating the relationship between entities Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
O	TXI08	828	Dollar Basis For Percent Dollar basis to be used in the percent calculation of the allowance, charge or tax	O R 1/9
O	TXI09	325	Tax Identification Number	O AN 1/20

O	TXI10	350	Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
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Segment: **MEA** Measurements

Position: 059

Loop: IT1 Optional

Level: Detail

Usage: Optional

Max Use: 40

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

- Syntax Notes:**
- 1 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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
O	MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies AA Meter reading-beginning actual/ending actual AE Meter reading-beginning actual/ending estimated BO Meter Reading as Billed Used when billing charges are based on contractual agreements or pre-established usage and not on actual usage DT Dimensional Tolerance EA Meter reading-beginning estimated/ending actual EE Meter reading-beginning estimated/ending estimated	O ID 2/2
O	MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies MU Multiplier ZA Power Factor Relationship between watts and volt - amperes necessary to supply electric load	O ID 1/3
O	MEA03	739	Measurement Value The value of the measurement	X R 1/20
O	MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken K1 Kilowatt Demand Represents potential power load measured at predetermined intervals K2 Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter K3 Kilovolt Amperes Reactive Hour	M ID 2/2

				Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
			KH	Kilowatt Hour
			QH	Quarter Hours
				Number of 15 minute increments of usage handled
			UN	Unit
O	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
O	MEA05	740	Range Minimum	X R 1/20
			The value specifying the minimum of the measurement range	
			Beginning read	
O	MEA06	741	Range Maximum	X R 1/20
			The value specifying the maximum of the measurement range	
			Ending read of single reading (on demand)	
O	MEA07	935	Measurement Significance Code	O ID 2/2
			Code used to benchmark, qualify or further define a measurement value	
			41	Off Peak
			42	On Peak
			43	Intermediate
			88	Adjusted

Segment: **PID** Product/Item Description

Position: 060

Loop: PID Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To describe a product or process in coded or free-form format

Syntax Notes:

- 1 If PID04 is present, then PID03 is required.
- 2 At least one of PID04 or PID05 is required.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

Semantic Notes:

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1
O	PID05	352	Description A free-form description to clarify the related data elements and their content The PID segment is used for all the Agreement level messages if it is in the IT1-ACCOUNT loop. IT1-RATE contains 3 PID segments. One PID conveys the Invoicing Period and the other PID segment conveys the message "Closing Charges" or "Connect On" or "Disconnect on" messages. The third PID segment is used to convey message "ADJUSTMENTS"	X AN 1/80

Segment: **REF** Reference Identification
Position: 120
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			LU	Location Number This is Customer Account and Agreement number. The value in the REF/LU segment is the customer agreement number. The reason we are always populating the agreement number instead of the site/service ID is because we don't display the customer's service ID on most of the statements except for Irrigation and selective general service agreements.
			MG	Meter Number
			RB	Rate code number
O	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: **DTM** Date/Time Reference
Position: 150
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

IT1 loops qualified with 'UNMET' will include the DTM segments to indicate the Invoice Period Start and End dates (Non-metered Services)

IT1 loops qualified with 'METER' - the DTM segments will be present to indicate the beginning and ending read dates except in the following cases:

The DTM/186 will not be provided for Demand Meter reading. The DTM/187 will be the only read date present.

The DTM/186 will not be provided for Fixed KWH Registers. The DTM/187 will be the only read date present.

The DTM segments will not be provided for Power Factor Meters.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			186 Invoice Period Start	
			When the billing period covered by an invoice begins	
			187 Invoice Period End	
			When the billing period covered by an invoice ends	
O	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

Segment: **SLN** Subline Item Detail

Position: 200

Loop: SLN Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify product subline detail item data

Syntax Notes:

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

Semantic Notes:

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

Comments:

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

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

Data Element Summary

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

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 230
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

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

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 3 SAC08 is the allowance or charge rate per unit.
 - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 7 SAC16 is used to identify the language being used in SAC15.

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge The amount in the SAC05 should be ignored when summing the invoice total.	M ID 1/1
O	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities	X ID 2/2
O	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge The Utility Industry Group maintains this code list. PacifiCorp will use the codes listed as allowed by the UIG. ADJ000 Adjustment ADJ006 Franchise Fee Adjustment	X AN 1/10

BAS001	Basis Customer Charge
COL001	Collection Charge
CRE001	Credit
CRE010	Credit - Off Peak
DAB001	Deposit
DAB002	Deposit - Interest
DMD001	Demand Charge
DMD002	Demand Charge - Contract
DMD004	Demand Charge - Reactive
DSC001	Discount
DSC005	Discount - Energy
DSC009	Discount - Energy Assistance
DSC010	Discount - Multi-family
DSC012	Discount - Demand Voltage
DSC013	Discount - Energy Voltage
DSC014	Discount - Courtesy
ENC001	Energy Charge
ENC002	Energy Tier Charge
ENC003	Energy Charge - Off Peak
ENC004	Energy Charge - Summer Off Peak
ENC005	Energy Charge - Summer On Peak
ENC006	Energy Charge - Summer Mid Peak
ENC009	Energy Charge - Winter On Peak
ENC010	Energy Charge - Winter Mid Peak
ENC011	Energy Charge - Winter Off Peak
ENC017	Energy Charge - Summer
ENC018	Energy Charge - Winter
ENC036	Energy Charge - ESP
ENC037	Energy Charge - Baseline
ENC039	Energy Charge - On Peak
ENC040	Energy Charge - Block 1
ENC041	Energy Charge - Block 2
ENC042	Energy Charge - Shoulder
FAC002	Facilities Rental Charge
FFR001	Flat Rate Non metered Service
FUE001	Fuel Adjustment
HOC001	Service Connection Charge
LPC001	Late Payment Charge
MAD001	Minimum Bill Charge
MAD003	Minimum Contract Charge
MAD004	Minimum Demand Charge
MSC001	Miscellaneous Charges
MSC005	Miscellaneous Charges - Benefits/Insurance
MSC024	Miscellaneous Charges - Public Purpose
MSC035	Miscellaneous Charges - Special Billing Services
ODL001	Outdoor Lighting
ODL002	Street Lighting
ODL005	Outdoor Lighting Facilities
RCS001	Reconnect Charge
RRR008	Merger Savings Credit
RTC001	Return Check Fee

SER014	Service Charge - Connection Charge Self Contained Meter
SER019	Service Charge - Connection Charge
SER024	Service Charge - Disconnect at Meter
SER025	Service Charge - Disconnect Visit Charge
SER026	Service Charge - Disconnect at Pole
SER028	Service Charge - Reconnect
SER032	Service Charge - Reconnect Outside Regular Hours Non Holiday
SER034	Service Charge - Reconnect at Pole
SER058	Service Charge - Meter Test
SER070	Service Charge - Service Call
SER071	Service Charge - Service Call After Hours
SER135	Service Charge - Meter Change
SMD004	Sales - Contract Installment
SMD008	Sales - Home Wiring Inspection
SMD011	Sales - Other
SUR007	Low Income Surcharge
TEM001	Temporary Service Charge
VCR001	Charitable Contribution

O SAC05 610 Amount O N2 1/15
Monetary amount

The code in the SAC01 does not indicate the sign of the amount in the SAC05. The amount may be either positive or negative. If negative, the minus sign must be transmitted.

O SAC08 118 Rate O R 1/9
Rate expressed in the standard monetary denomination for the currency specified

This amount may be either positive or negative. If negative, the minus sign will be transmitted.

O SAC09 355 Unit or Basis for Measurement Code X ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

EA	Each
HR	Hours
K1	Kilowatt Demand Represents potential power load measured at predetermined intervals
K2	Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter
K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters
KH	Kilowatt Hour
UN	Unit

O SAC10 380 Quantity X R 1/15
Numeric value of quantity

O SAC15 352 Description X AN 1/80
A free-form description to clarify the related data elements and their content

Segment: **N1** Name
Position: 240
Loop: N1 Optional
Level: Detail
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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual MQ Metering Location	M ID 2/3
O	N102	93	Name Free-form name	X AN 1/60
O	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	X ID 1/2
O	N104	67	Identification Code Code identifying a party or other code Identification information supplied by the Trading Partner.	X AN 2/80

Segment: N3 Address Information
Position: 260
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4 Geographic Location**
Position: 270
Loop: N1 Optional
Level: Detail
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.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
O	N401	19	City Name Free-form text for city name	O AN 2/30
O	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
O	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15

Segment: **TDS** Total Monetary Value Summary
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts
Syntax Notes:
Semantic Notes:

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

Comments:

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

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> TDS01	<u>Element</u> 610 <u>Name</u> Amount	M N2 1/15

Monetary amount

TDS01 is the total amount due for this invoice and must equal the sum of the TXI02 and SAC05 segments. If this amount is negative, the minus sign will be present.

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 040
Loop: SAC Optional
Level: Summary
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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge The amount in the SAC05 should be ignored when summing the invoice total.	M ID 1/1
O	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values EU Electric Utilities	X ID 2/2
O	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge ADJ000 Adjustments MSC000 Miscellaneous Charges PAY000 Payments and Credits PRB000 Previous Balances	X AN 1/10

PRB001 Previous Balances

O SAC05 610 Amount **O N2 1/15**

Monetary amount

The code in the SAC01 does not indicate the sign of the amount in the SAC05. The amount may be either positive or negative. If negative, the minus sign must be transmitted.

O SAC15 352 Description **X AN 1/80**

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

If SAC04 is: SAC15 Description:

ADJ000 "TOTAL ADJUSTMENTS"

MSC000 "TOTAL NEW CHARGES" or "CURRENT ACCOUNT BALANCE"

PAY000 "TOTAL PAYMENTS/CREDITS" or "PAYMENT RECEIVED"

PRB000 "PREVIOUS ACCOUNT BALANCE"

PRB001 "PAST DUE BALANCE"

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

Semantic Notes:
Comments:

- 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

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

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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number 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