

**861****Receiving Advice/Acceptance Certificate****Functional Group=RC**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Receiving Advice/Acceptance Certificate Transaction Set (861) 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 notification of receipt or formal acceptance of goods and services.

**Notes:**

- 1/020 This transaction set is a Receiving Advice unless BRA04 contains a value of "8". When BRA04 contains a value of "8", the transaction set is an Acceptance Certificate and the units received is the units accepted.
- 3/010 The number of line items (CTT01) is the accumulation of the number of RCD segments. If used, hash total (CTT02) is the sum of the value of quantities received (RCD02) for each RCD segment.

**User:**

*There is one header area per Meter Ticket Transaction Set. The detail area of the Meter Ticket Transaction Set consists of sequentially numbered line items. Each line item transmits one meter ticket. Each transaction set may send 200,000 tickets.*

**Heading:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Req
020	BRA	Beginning Segment for Receiving Advice or Acceptance Certificate	M	1		N1/020	Req
070	DTM	Date/Time Reference	M	10			Req
<b>LOOP ID - N1</b>					<b>200</b>		
130	N1	Name	O	1			Req
140	N2	Additional Name Information	O	2			Used
150	N3	Address Information	O	2			Used
160	N4	Geographic Location	O	1			Used

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - RCD</b>					<b>200000</b>		
010	RCD	Receiving Conditions	O	1			Req
040	LIN	Item Identification	O	100			Req
050	PID	Product/Item Description	O	1000			Used
070	REF	Reference Identification	O	12			Used
090	DTM	Date/Time Reference	O	10			Req
110	MEA	Measurements	O	>1			Used
170	SAC	Service, Promotion, Allowance, or Charge Information	O	10			Used
<b>LOOP ID - SLN</b>					<b>100</b>		
190	SLN	Subline Item Detail	O	1			Used
203	NM1	Individual or Organizational Name	O	1			Used
<b>LOOP ID - N1</b>					<b>200</b>		
210	N1	Name	O	1			Used
250	REF	Reference Identification	O	100			Used
260	PER	Administrative Communications Contact	O	3			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Req
020	SE	Transaction Set Trailer	M	1			Req

# ST

## Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

**Semantics:**

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Req				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>861</td> <td>Receiving Advice/Acceptance Certificate</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	861	Receiving Advice/Acceptance Certificate				
<u>Code</u>	<u>Name</u>									
861	Receiving Advice/Acceptance Certificate									
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</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	Req				
		<b>User:</b> <i>The control number is assigned by the sender. It is sequentially assigned within each functional group. Sequential numbering aids in error recovery and research. ST02 must equal SE02.</i>								

# BRA Beginning Segment for Receiving Advice or Acceptance Certificate

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

To indicate the beginning of a Receiving Advice or Acceptance Certificate Transaction Set and transmit an identifying number, date, and time

**Semantics:**

- BRA02 is the date that the receiving advice transaction set is created.
- BRA05 is the time that the receiving advice transaction set is created.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>														
BRA01	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>User: This data field must contain a code value of "M" to denote "Meter Ticket".</i>	M	AN	1/30	Req														
BRA02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD <i>User: For example, January 1, 1999 would be expressed as 19990101.</i>	M	DT	8/8	Req														
BRA03	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set  <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>00</td><td>Original</td></tr> <tr><td>01</td><td>Cancellation</td></tr> <tr><td>04</td><td>Change</td></tr> <tr><td>05</td><td>Replace</td></tr> <tr><td>07</td><td>Duplicate</td></tr> <tr><td>22</td><td>Information Copy</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	01	Cancellation	04	Change	05	Replace	07	Duplicate	22	Information Copy	M	ID	2/2	Req
<u>Code</u>	<u>Name</u>																			
00	Original																			
01	Cancellation																			
04	Change																			
05	Replace																			
07	Duplicate																			
22	Information Copy																			
BRA04	962	<b>Receiving Advice or Acceptance Certificate Type Code</b> <b>Description:</b> Code specifying type of receiving advice <i>User: This data field must contain a code value of "2" to denote "Post Receipt Advice".</i>  <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>2</td><td>Post Receipt Advice</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	2	Post Receipt Advice	M	ID	1/1	Req										
<u>Code</u>	<u>Name</u>																			
2	Post Receipt Advice																			

# DTM Date/Time Reference

Pos: 070	Max: 10
Heading - Mandatory	
Loop: N/A	Elements: 3

To specify pertinent dates and times

## Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

## User:

*The date is identical to the date contained in BRA02. Use of this segment is mandatory according to the syntactical rules of ASC X12 as well as for PIPENET. DTM01- DTM03 must be sent.*

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Req				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>009</td> <td>Process</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	009	Process				
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009	Process									
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Req				
		<b>User:</b> <i>For example, January 1, 1999 would be expressed as 19990101.</i>								
DTM03	337	<b>Time</b> <b>Description:</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)	C	TM	4/8	Req				

# N1

## Name

Pos: 130	Max: 1
Heading - Optional	
Loop: N1	Elements: 4

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

**Syntax:**

- R0203 -- At least one of N102 or N103 is required.
- P0304 -- If either N103 or N104 are present, then the others are required.

**Comments:**

- 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.

**User:**

PIPENET allows for three (3) iterations of the N1 loop. They are to relay the carrier name, the ticket transaction set destination and the account identification information. The use of codes CA - Carrier and UC - Ultimate Consignee are MANDATORY. The use of code AO - Account of is optional for PIPENET.

The preferred method for sending the name is to use the N103 and N104 data elements. If the name is sent in the N103 and N104, do not send N102. However, if the name is sent as alpha-numeric in N102, do not send N103 and N104.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																								
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Req																								
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AO</td> <td>Account Of</td> </tr> <tr> <td>CA</td> <td>Carrier</td> </tr> <tr> <td>CN</td> <td>Consignee</td> </tr> <tr> <td>OP</td> <td>Operator of property or unit</td> </tr> <tr> <td>SH</td> <td>Shipper</td> </tr> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>TF</td> <td>Tank Farm</td> </tr> <tr> <td>UC</td> <td>Ultimate Consignee</td> </tr> <tr> <td colspan="2"><b>User:</b> Use this code value to designate the Ticket Transaction Set Destination.</td> </tr> <tr> <td>WF</td> <td>Tank Farm Owner</td> </tr> <tr> <td colspan="2"><b>Description:</b> Use this code value to designate the destination terminal.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AO	Account Of	CA	Carrier	CN	Consignee	OP	Operator of property or unit	SH	Shipper	SU	Supplier/Manufacturer	TF	Tank Farm	UC	Ultimate Consignee	<b>User:</b> Use this code value to designate the Ticket Transaction Set Destination.		WF	Tank Farm Owner	<b>Description:</b> Use this code value to designate the destination terminal.					
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N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Used																								
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used																								
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>-</td> <td></td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	-																									
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	1	D-U-N-S Number,Dun & Bradstreet				
	9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix				
	22	Council of Petroleum Accounting Societies code (COPAS)				
	TL	Transport4 Location Code <b>User:</b> Refer to Code Source 841 in the Appendix.				
	TS	Transport4 Shipper Code <b>User:</b> Refer to Code Source 841 in the Appendix.				
<b>N104</b>	<b>67</b>	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	<b>C</b>	<b>AN</b>	<b>2/80</b>	<b>Used</b>

**N2****Additional Name Information**

Pos: 140	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

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

**User:**

*Do not send this segment if the entity has been identified by using N103 (DE 66 - Identification Code Qualifier) and N104 (DE 67 - Identification Code).*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name <b>Description:</b> Free-form name	M	AN	1/60	Req
N202	93	Name <b>Description:</b> Free-form name	O	AN	1/60	Used

**N3****Address Information**

Pos: 150	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

**User:**

*Do not send this segment if the entity has been identified by using N103 (DE 66 - Identification Code Qualifier) and N104 (DE 67 - Identification Code).*

**Element Summary:**

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

**N4****Geographic Location**

<b>Pos: 160</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

To specify the geographic place of the named party

**Syntax:**

C0605 -- If N406 is present, then N405 is required

**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.

**User:**

*Do not send this segment if the entity has been identified by using N103 (DE 66 - Identification Code Qualifier) and N104 (DE 67 - Identification Code).*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency <b>User:</b> Refer to API Bulletin D12A and Code Source 22 in the Appendix.	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States) <b>User:</b> Refer to API Bulletin D12A and Code Source 22 in the Appendix.  <i>If N404 is used, then the use of N401 - N403 is required.</i>	O	ID	3/15	Used
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used

# RCD Receiving Conditions

Pos: 010	Max: 1
Detail - Optional	
Loop: RCD	Elements: 3

To report receiving conditions and specify contested quantities

**Syntax:**

- R020406 -- At least one of RCD02, RCD04 or RCD06 is required.
- P0203 -- If either RCD02 or RCD03 are present, then the others are required.
- P0405 -- If either RCD04 or RCD05 are present, then the others are required.
- P060708 -- If either RCD06, RCD07 or RCD08 are present, then the others are required.
- P091011 -- If either RCD09, RCD10 or RCD11 are present, then the others are required.
- P121314 -- If either RCD12, RCD13 or RCD14 are present, then the others are required.
- P151617 -- If either RCD15, RCD16 or RCD17 are present, then the others are required.
- P181920 -- If either RCD18, RCD19 or RCD20 are present, then the others are required.

**Semantics:**

1. RCD01 is the receiving advice line item identification.
2. RCD21 is the cumulative quantity of goods received for a specific time period.

**Comments:**

1. See the Data Element Dictionary for a complete list of receiving condition IDs.
2. RCD06 through RCD20 provide for five different quantities whose condition upon receipt is under question.

**User:**

*The RCD segment is used to define the start of a meter ticket. For PIPENET, if RCD02 is sent, then RCD03 is required.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
RCD01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <i>User: This data field must contain the pipeline number assigned by the carrier.</i>	O	AN	1/20	Req
RCD02	663	<b>Quantity Units Received or Accepted</b> <b>Description:</b> Number of Units Received or Accepted <i>User: This data field must be used to relay the ticket net volume.</i>	C	R	1/9	Req
RCD03	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure (See Figures Appendix for examples of use) <i>User: PIPENET permits the user to implement other valid Unit of Measure code values (DE 355) published in version/release 4010. Code values not listed below that are needed for implementations should be submitted to the PIPENET User Group for inclusion in the implementation guide.</i>  <i>The Unit of Measure composite data element allows for reporting a unit of measure that does not appear in the DE 355 code list but is composed of entries published in the list by implementing the composite Unit of</i>	C	Comp		Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
		<p><i>Measure syntax.</i></p> <p><i>PIPENET will accommodate 2 levels of Unit of Measure:</i></p> <ul style="list-style-type: none"> <li>· C001-01 Unit of Measure (published code) == (usage is Mandatory)</li> <li>· C001-02 Exponent == (usage is Optional)</li> <li>· C001-03 Multiplier == (usage is Optional)</li> <li>· C001-04 Unit of Measure (published code) == (usage is Optional)</li> <li>· C001-05 Exponent == (usage is Optional)</li> <li>· C001 06 Multiplier == (usage is optional)</li> </ul> <p><i>EXAMPLES OF USE:</i></p> <ul style="list-style-type: none"> <li>· C001: BR for barrels</li> <li>· C001: BR C004: HT C005: -1 for barrels per half hour</li> </ul> <p><i>NOTE:</i></p> <p><i>Also refer to the Appendix in this publication for more information about using the composite unit of measure.</i></p>																
355		<p><b>Unit or Basis for Measurement Code</b></p> <p><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>Cubic Meters (Net)</td> </tr> <tr> <td>GN</td> <td>Gross Gallons</td> </tr> <tr> <td>ND</td> <td>Net Barrels</td> </tr> <tr> <td>NG</td> <td>Net Gallons</td> </tr> <tr> <td>PN</td> <td>Pounds Net</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CO	Cubic Meters (Net)	GN	Gross Gallons	ND	Net Barrels	NG	Net Gallons	PN	Pounds Net	M	ID	2/2	Req
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GN	Gross Gallons																	
ND	Net Barrels																	
NG	Net Gallons																	
PN	Pounds Net																	
1018		<p><b>Exponent</b></p> <p><b>Description:</b> Power to which a unit is raised</p>	O	R	1/15	Not used												
649		<p><b>Multiplier</b></p> <p><b>Description:</b> Value to be used as a multiplier to obtain a new value</p>	O	R	1/10	Not used												
355		<p><b>Unit or Basis for Measurement Code</b></p> <p><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</p> <p>All valid X12 codes are used.</p>	O	ID	2/2	Not used												
1018		<p><b>Exponent</b></p> <p><b>Description:</b> Power to which a unit is raised</p>	O	R	1/15	Not used												
649		<p><b>Multiplier</b></p> <p><b>Description:</b> Value to be used as a multiplier to obtain a new value</p>	O	R	1/10	Not used												

# LIN

## Item Identification

Pos: 040	Max: 100
Detail - Optional	
Loop: RCD	Elements: 11

To specify basic item identification data

### Syntax:

- P0405 -- If either LIN04 or LIN05 are present, then the others are required.
- P0607 -- If either LIN06 or LIN07 are present, then the others are required.
- P0809 -- If either LIN08 or LIN09 are present, then the others are required.
- P1011 -- If either LIN10 or LIN11 are present, then the others are required.
- P1213 -- If either LIN12 or LIN13 are present, then the others are required.
- P1415 -- If either LIN14 or LIN15 are present, then the others are required.
- P1617 -- If either LIN16 or LIN17 are present, then the others are required.
- P1819 -- If either LIN18 or LIN19 are present, then the others are required.
- P2021 -- If either LIN20 or LIN21 are present, then the others are required.
- P2223 -- If either LIN22 or LIN23 are present, then the others are required.
- P2425 -- If either LIN24 or LIN25 are present, then the others are required.
- P2627 -- If either LIN26 or LIN27 are present, then the others are required.
- P2829 -- If either LIN28 or LIN29 are present, then the others are required.
- P3031 -- If either LIN30 or LIN31 are present, then the others are required.

### Semantics:

1. LIN01 is the line item identification

### Comments:

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.

### User:

The following rules supercede the attributes outlined by ASC X12:

LIN06 and LIN07 are optional, but may ONLY be used to send the Primary Movement Identifier.

LIN08 and LIN09 are optional, but may ONLY be used to send the Transaction Code.

LIN10 and LIN11 are optional, but may ONLY be used to send the Ticket Type.

### Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID	2/2	Req

Code      Name

PQ      Product ID Attribute Code  
**Description:** Required by PIPENET

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
LIN03	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>User:</b> <i>PRODUCT ID ATTRIBUTE CODE LIST</i>  <i>C Crude Oil</i> <i>P Product</i> <i>N Natural Gas Liquids</i>	M	AN	1/48	Req						
LIN04	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>User:</b> <i>Use of this data element is required. Refer to the Appendix for information about the API Product Code List and the Transport4 Commodity Code.</i>	C	ID	2/2	Used						
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>DH</td> <td>Transport4 Commodity Code <b>Description:</b> Refer to Code Source 841 in the Appendix.</td> </tr> <tr> <td>TP</td> <td>Product Type Code <b>Description:</b> Use of this data element is required. Refer to the Appendix for information about the API Product Code List and the Transport4 Commodity Code.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	DH	Transport4 Commodity Code <b>Description:</b> Refer to Code Source 841 in the Appendix.	TP	Product Type Code <b>Description:</b> Use of this data element is required. Refer to the Appendix for information about the API Product Code List and the Transport4 Commodity Code.				
<u>Code</u>	<u>Name</u>											
DH	Transport4 Commodity Code <b>Description:</b> Refer to Code Source 841 in the Appendix.											
TP	Product Type Code <b>Description:</b> Use of this data element is required. Refer to the Appendix for information about the API Product Code List and the Transport4 Commodity Code.											
LIN05	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used						
LIN06	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GC</td> <td>Grade Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GC	Grade Code	C	ID	2/2	Used		
<u>Code</u>	<u>Name</u>											
GC	Grade Code											
LIN07	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used						
LIN08	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)  <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TA</td> <td>Pipeline Transaction Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	TA	Pipeline Transaction Code	C	ID	2/2	Used		
<u>Code</u>	<u>Name</u>											
TA	Pipeline Transaction Code											
LIN09	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <b>User:</b> <i>PIPELINE TRANSACTION CODE</i>  <i>10 Receipt - Custody (into tanks)</i> <i>11 Receipt - Custody (into line)</i>	C	AN	1/48	Used						

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

12 Receipt - Gathering Location  
 17 Receipt - Transfer Record  
 21 Delivery - Custody (from line)  
 22 Delivery - Custody (from tanks)  
 24 Transmix Delivery (out of tanks)  
 31 Water Adjustment Record  
 32 Inventory - Adjustment  
 33 Void Ticket  
 35 In-tank Transfer

LIN10	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used
-------	-----	--	---	----	-----	------

<u>Code</u>	<u>Name</u>
-------------	-------------

MO	Movement Type Code <b>Description:</b> The code value MO - Movement Type Code is used to declare the Ticket Type Qualifier Code.
----	---

LIN11	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	C	AN	1/48	Used
-------	-----	--	---	----	------	------

**User:**  
 TICKET TYPE QUALIFIER CODE LIST

BU Bulk  
 LE Lease  
 PL Pipeline  
 TE Terminal Representative  
 PF Pipeline Facility  
 CR Credit  
 SK Skid Ticket  
 UT Underground Tanks  
 TR Truck Rack

# PID Product/Item Description

Pos: 050	Max: 1000
Detail - Optional	
Loop: RCD	Elements: 5

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

**Syntax:**

- C0403 -- If PID04 is present, then PID03 is required
- R0405 -- At least one of PID04 or PID05 is required.
- C0703 -- If PID07 is present, then PID03 is required
- C0804 -- If PID08 is present, then PID04 is required
- C0905 -- If PID09 is present, then PID05 is required

**Semantics:**

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.

**User:**

*PIPENET allows for multiple iterations of the PID segment to relay quality control data, regulatory statements and previous movement identifier.*

*The use of the PID segment allows quality control data items to be sent using alpha-numeric descriptions.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																		
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Req																		
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Free-form</td> </tr> <tr> <td>X</td> <td>Semi-structured (Code and Text)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	F	Free-form	X	Semi-structured (Code and Text)																
<u>Code</u>	<u>Name</u>																							
F	Free-form																							
X	Semi-structured (Code and Text)																							
PID02	750	<b>Product/Process Characteristic Code</b> <b>Description:</b> Code identifying the general class of a product or process characteristic	O	ID	2/3	Used																		
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>35</td> <td>Color</td> </tr> <tr> <td>40</td> <td>Shade</td> </tr> <tr> <td></td> <td><b>Description:</b> Used to declare the Millipore Qualifier Code.</td> </tr> <tr> <td>56</td> <td>Special Processing</td> </tr> <tr> <td></td> <td><b>Description:</b> Use this code value to declare the CFR Part 80 statements and other governing jurisdiction statements.</td> </tr> <tr> <td>84</td> <td>Special Specification</td> </tr> <tr> <td></td> <td><b>Description:</b> Use this code value to declare the RVP statement.</td> </tr> <tr> <td>SYN</td> <td>Synonym</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	35	Color	40	Shade		<b>Description:</b> Used to declare the Millipore Qualifier Code.	56	Special Processing		<b>Description:</b> Use this code value to declare the CFR Part 80 statements and other governing jurisdiction statements.	84	Special Specification		<b>Description:</b> Use this code value to declare the RVP statement.	SYN	Synonym				
<u>Code</u>	<u>Name</u>																							
35	Color																							
40	Shade																							
	<b>Description:</b> Used to declare the Millipore Qualifier Code.																							
56	Special Processing																							
	<b>Description:</b> Use this code value to declare the CFR Part 80 statements and other governing jurisdiction statements.																							
84	Special Specification																							
	<b>Description:</b> Use this code value to declare the RVP statement.																							
SYN	Synonym																							

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
		<p><b>Description:</b> Used to declare the previous movement identifier defined by a connecting carrier or other associated party.</p> <p>WD Warranty Description</p> <p><b>Description:</b> Use this code value to declare the CARB statement.</p>								
PID03	559	<p><b>Agency Qualifier Code</b></p> <p><b>Description:</b> Code identifying the agency assigning the code values</p>	C	ID	2/2	Used				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AP</td> <td>American Petroleum Institute</td> </tr> </tbody> </table> <p><b>Description:</b> This code value MUST BE USED when a code value of 84, WD or 56 is used in PID02.</p>	<u>Code</u>	<u>Name</u>	AP	American Petroleum Institute				
<u>Code</u>	<u>Name</u>									
AP	American Petroleum Institute									
PID04	751	<p><b>Product Description Code</b></p> <p><b>Description:</b> A code from an industry code list which provides specific data about a product characteristic</p> <p><b>User:</b> <i>If PID02 = 56 use:</i></p> <p>00 - Implies statement of EPA CFR 40 Part 80 paragraph 80.106 (a) (7)</p> <p>01- First part of statement of EPA CFR Part 80 paragraph 80.106 (a) (7) follows in PID05</p> <p>02 - Second part of statement of EPA CFR 40 Part 80 paragraph 80.106 (a) (7) follows in PID05</p> <p>03 - Implies statement of EPA CFR 40 Part 80 paragraph 80.106 (b) follows in PID05</p> <p>04 - First part of statement in EPA CFR 40 Part 80 paragraph 80.106 (b) follows in PID05.</p> <p>05 - Second part of statement of EPA CFR 40 Part 80 paragraph 80.106 (b) follows in PID05.</p> <p>06 - Third part of statement of EPA CFR 40 Part 80 paragraph 80.106 (b) follows in PID05.</p> <p>07 - implies oxygen content statement</p> <p>08 - First part of low sulfur diesel statement</p> <p>09 - Second part of low sulfur diesel statement</p> <p>10 - First part of RVP statement</p> <p>11 - Second part of RVP statement</p>	C	AN	1/12	Used				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<p><i>If PID02=84 use:</i></p> <p><i>00 - Implies SFPP RVP statement</i></p> <p><i>01- First part of SFPP RVP statement follows in PID05</i></p> <p><i>02 - Second part of SFPP RVP statement follows in PID05</i></p> <p><i>03 - Implies statement of base gasoline</i></p> <p> </p> <p><i>If PID02 = WD use:</i></p> <p><i>00 - implies statement of CARB Non-OPRG</i></p> <p><i>01- implies statement of CARB OPRG</i></p>				

<b>PID05</b>	<b>352</b>	<b>Description</b>	<b>C</b>	<b>AN</b>	<b>1/80</b>	<b>Used</b>
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**Description:** A free-form description to clarify the related data elements and their content

**User:** *If PID02 equals "84" and PID04 equals "01", "Verification received from supplier and SFPP pipeline oversight program indicate"*

*If PID02 equals "84" and PID04 equals "02", "this product meets federal and state RVP regulations."*

*If PID02 equals "84" and PID04 equals "03", "Base gasoline not for sale to the ultimate consumer"*

*If PID02 equals "WD" and PID04 equals "00", "This gasoline is not Oxygenate Fuels Program Reformulated Gasoline (NON-OPRG)"*

*If PID02 equals "WD" and PID04 equals "01", "This gasoline is Oxygenate Fuels Program Reformulated Gasoline (ORPG)"*

*If PID02 equals "56" and PID04 equals "01", "This product does not meet the requirements for reformulated gasoline,"*

*If PID02 equals "56" and PID04 equals "02", "and may not be used in any reformulated gasoline covered area."*

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>If PID02 equals "56" and PID04 equals "04", "For purposes of the Anti-dumping requirements under 40 CFR Subpart E, "</i>				
		<i>If PID02 equals "56" and PID04 equals "05", "this blendstock has been accounted for by the refiner that produced it,"</i>				
		<i>If PID02 equals "56" and PID04 equals "06", "and must be excluded from any subsequent compliance calculations."</i>				
		<i>If PID02 equals "56" and PID04 equals "07", "The oxygen content of this product is 2.7-2.9 percent by weight with ethers"</i>				
		<i>If PID02 equals "56" and PID04 equals "08", "Shipper/refiner has certified that diesel"</i>				
		<i>If PID02 equals "56" and PID04 equals "09", "meets low sulfur diesel requirements"</i>				
		<i>If PID02 equals "56" and PID04 equals "10", "Shipper/refiner has certified that"</i>				
		<i>If PID02 equals "56" and PID04 equals "11", "gasoline tendered meets RVP requirements"</i>				

# REF Reference Identification

Pos: 070	Max: 12
Detail - Optional	
Loop: RCD	Elements: 4

To specify identifying information

**Syntax:**

R0203 -- At least one of REF02 or REF03 is required.

**Semantics:**

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

**User:**

PIPENET allows four iterations of the REF segment. They are Tariff Number, Bill of Lading Number, Tank Number and Customer Reference Number.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Req										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CR</td> <td>Customer Reference Number</td> </tr> <tr> <td>TK</td> <td>Tank Number</td> </tr> <tr> <td>TS</td> <td>Tariff Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	CR	Customer Reference Number	TK	Tank Number	TS	Tariff Number				
<u>Code</u>	<u>Name</u>															
BM	Bill of Lading Number															
CR	Customer Reference Number															
TK	Tank Number															
TS	Tariff Number															
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used										
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used										
		<b>User:</b> <i>The reference identification can be described by a numeric value than send this number in REF02. Otherwise, send the reference as alpha-numeric text in REF03.</i>														
REF04	C040	<b>Reference Identifier</b> <b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used										

# DTM Date/Time Reference

Pos: 090	Max: 10
Detail - Optional	
Loop: RCD	Elements: 3

To specify pertinent dates and times

**Syntax:**

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

**User:**

For PIPENET, at least one DTM at the detail level is mandatory.

PIPENET allows three iterations of the DTM segment. They are Ticket Date, Ticket Start Date/Time, and Ticket Stop Date/Time.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Req										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>035</td> <td>Delivered</td> </tr> <tr> <td></td> <td><b>Description:</b> Used to declare the Ticket Date DTM segment</td> </tr> <tr> <td>090</td> <td>Report Start</td> </tr> <tr> <td>091</td> <td>Report End</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	035	Delivered		<b>Description:</b> Used to declare the Ticket Date DTM segment	090	Report Start	091	Report End				
<u>Code</u>	<u>Name</u>															
035	Delivered															
	<b>Description:</b> Used to declare the Ticket Date DTM segment															
090	Report Start															
091	Report End															
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	C	DT	8/8	Req										
		<b>User:</b> For PIPENET, the format of the date must be expressed as YYYYMMDD. For example, January 1, 1999 would be expressed as 19990101.														
DTM03	337	<b>Time</b> <b>Description:</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)	C	TM	4/8	Used										
		<b>User:</b> Required for PIPENET for Ticket Start Date/Time DTM segment and Ticket Stop Date/Time DTM segment.														
		Use of this data element is optional for Ticket Date DTM segment.														

# MEA Measurements

Pos: 110	Max: >1
Detail - Optional	
Loop: RCD	Elements: 4

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

**Syntax:**

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- C0504 -- If MEA05 is present, then MEA04 is required
- C0604 -- If MEA06 is present, then MEA04 is required
- L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- E0803 -- Only one of MEA08 or MEA03 may be present.

**Semantics:**

- 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.

**User:**

*Units of measurement of PIPENET document parameters will use the codes published in the implementation guidelines. PIPENET permits the user to implement other Unit of Measure codes (DE 355) codes published in the version release. New code implementations should be submitted to the PIPENET User Group committee for inclusion in the implementation guide. The Unit of Measure data element will permit reporting a unit of measure that does not appear in the DE 355 code list but is composed of entries published in the list by implementing the composite Unit of Measure syntax. PIPENET will accommodate 2 levels of Unit of Measure:*

- C001 01 Unit of Measure (published code) – usage is Mandatory
- C001 02 Exponent (usage is optional)
- C001 03 Multiplier (usage is optional)
- C001 03 Unit of Measure (published code) – usage is optional
- C001 04 Exponent (usage is optional)
- C001 05 Multiplier (usage is optional)

*Examples:*

- C001: BR for barrels
- C001: BR C004: HT C005: -1 for barrels per half hour

*Refer to ANSI X-12 version release 4010 Composite Data Structure Figures*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code <b>Description:</b> Code identifying the broad category to which a measurement applies	O	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		AV      Average Reading				
		DT      Dimensional Tolerance				
		R1      Opening Reading				
		R2      Closing Reading				
		SH      Shipping Tolerance				
MEA02	738	Measurement Qualifier	O	ID	1/3	Used

Ref    Id    Element Name    Req    Type    Min/Max    Usage

**Description:** Code identifying a specific product or process characteristic to which a measurement applies

Code    Name

- FP    Flashpoint
- MK    Microseperometer (MSEP)
- PB    Pressure
- PY    Percent of Water
- TC    Temperature
- ZO    Oxygen
- BSW    Percent Bottom Sediment and Water
- CCF    Composite Corrected Factor
- DMF    Distributed Meter Factor
- H2O    Water Volume
- HAZ    Haze
- LPG    Liquefied Petroleum Gas Factor
- OAP    Observed American Petroleum Institute Gravity
- OBT    Observed Temperature
- ODR    Odor
- Description:** The quality of a substance that stimulates the olfactory organ
- PRF    Pressure Factor
- RVP    Reid Vapor Pressure
- SPG    Specific Gravity
- TPF    Temperature Factor
- VSO    Volume Split to Others

MEA03    739    **Measurement Value**    C    R    1/20    Used  
**Description:** The value of the measurement

MEA04    C001    **Composite Unit of Measure**    C    Comp       Used  
**Description:** To identify a composite unit of measure(See Figures Appendix for examples of use)

355    **Unit or Basis for Measurement Code**    M    ID    2/2    Req  
**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code    Name

- BR    Barrel
- CE    Centigrade,Celsius
- CO    Cubic Meters (Net)
- CR    Cubic Meter
- DD    Degree
- FA    Fahrenheit
- GD    Gross Barrels
- GN    Gross Gallons
- KG    Kilogram
- ND    Net Barrels
- NG    Net Gallons
- PG    Pounds Gross
- PN    Pounds Net
- PS    Pounds per Sq. Inch
- PU    Mass Pounds
- ZZ    Mutually Defined

1018    **Exponent**    O    R    1/15    Used  
**Description:** Power to which a unit is raised

649    **Multiplier**    O    R    1/10    Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Value to be used as a multiplier to obtain a new value				
355		<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>User:</b> See C001-01 for applicable code values.	O	ID	2/2	Used
1018		<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
649		<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used

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

Pos: 170	Max: 10
Detail - Optional	
Loop: RCD	Elements: 10

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

**Syntax:**

- R0203 -- At least one of SAC02 or SAC03 is required.
- P0304 -- If either SAC03 or SAC04 are present, then the others are required.
- P0607 -- If either SAC06 or SAC07 are present, then the others are required.
- P0910 -- If either SAC09 or SAC10 are present, then the others are required.
- C1110 -- If SAC11 is present, then SAC10 is required
- L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- C1413 -- If SAC14 is present, then SAC13 is required
- C1615 -- If SAC16 is present, then SAC15 is required

**Semantics:**

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.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. 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.

**User:**

*The ITA segment has been replaced by the SAC segment. However, the functionality remains the same.*

**User Note 1:**

*For each meter used for the ticket transmit the meter number and other essential data using this SAC segment. If the meter factor is greater than or equal to 1 then SAC01 = "A". If the meter factor is less than 1 then SAC01 = "C". If the meter factor is not sent in the SAC segment then SAC01 = "N". If SAC01 is "A" or "C" then the meter factor must be sent in SAC08.*

**User Note 2:**

*If one meter is used for the ticket then this segment is used to transmit the ticket meter factor in SAC08.*

*If one meter is used for the ticket then percent distribution is implied as 100% and SAC06 and SAC07 are not included in the segment.*

**User Note 3:**

*If ending meter reading is sent then SAC10 is mandatory. If the meter reading is combined then the beginning meter reading data element is the combined beginning reading. If the meter reading is combined then the ending meter reading data element is the combined ending reading.*

*Transmit Meter Proving Reports only for the meters used for the ticket.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
SAC01	248	<b>Allowance or Charge Indicator</b> <b>Description:</b> Code which indicates an allowance or charge for the service specified	M	ID	1/1	Req										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> <tr> <td>N</td> <td>No Allowance or Charge</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Allowance	C	Charge	N	No Allowance or Charge						
<u>Code</u>	<u>Name</u>															
A	Allowance															
C	Charge															
N	No Allowance or Charge															
SAC03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values	C	ID	2/2	Used										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A4</td> <td>Assigned by Carrier</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A4	Assigned by Carrier										
<u>Code</u>	<u>Name</u>															
A4	Assigned by Carrier															
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge <b>User:</b> Use this data field to relay the meter number.	C	AN	1/10	Used										
SAC06	378	<b>Allowance/Charge Percent Qualifier</b> <b>Description:</b> Code indicating on what basis allowance or charge percent is calculated	C	ID	1/1	Used										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>Z</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	Z	Mutually Defined										
<u>Code</u>	<u>Name</u>															
Z	Mutually Defined															
SAC07	332	<b>Percent</b> <b>Description:</b> Percent expressed as a percent <b>User:</b> For PIPENET, this is the volume distribution (% distribution) for the meter defined in SAC04.	C	R	1/6	Used										
SAC08	118	<b>Rate</b> <b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified <b>User:</b> For PIPENET, this is the meter factor for the meter defined in SAC04.	O	R	1/9	Used										
SAC09	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CR</td> <td>Cubic Meter</td> </tr> <tr> <td>GD</td> <td>Gross Barrels</td> </tr> <tr> <td>GN</td> <td>Gross Gallons</td> </tr> <tr> <td>PG</td> <td>Pounds Gross</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CR	Cubic Meter	GD	Gross Barrels	GN	Gross Gallons	PG	Pounds Gross				
<u>Code</u>	<u>Name</u>															
CR	Cubic Meter															
GD	Gross Barrels															
GN	Gross Gallons															
PG	Pounds Gross															
SAC10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	C	R	1/15	Used										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>User: For PIPENET, this is the ending meter reading.</i>				
SAC11	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity <i>User: For PIPENET, this is the beginning meter reading.</i>	O	R	1/15	Used
SAC13	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>User: For PIPINET, this is the proving report number for the meter defined in SAC04.</i>	C	AN	1/30	Used

# SLN Subline Item Detail

Pos: 190	Max: 1
Detail - Optional	
Loop: SLN	Elements: 4

To specify product subline detail item data

## Syntax:

P0405 -- If either SLN04 or SLN05 are present, then the others are required.  
 C0706 -- If SLN07 is present, then SLN06 is required  
 C0806 -- If SLN08 is present, then SLN06 is required  
 P0910 -- If either SLN09 or SLN10 are present, then the others are required.  
 P1112 -- If either SLN11 or SLN12 are present, then the others are required.  
 P1314 -- If either SLN13 or SLN14 are present, then the others are required.  
 P1516 -- If either SLN15 or SLN16 are present, then the others are required.  
 P1718 -- If either SLN17 or SLN18 are present, then the others are required.  
 P1920 -- If either SLN19 or SLN20 are present, then the others are required.  
 P2122 -- If either SLN21 or SLN22 are present, then the others are required.  
 P2324 -- If either SLN23 or SLN24 are present, then the others are required.  
 P2526 -- If either SLN25 or SLN26 are present, then the others are required.  
 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

## Semantics:

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.

## User:

*For PIPENET, this segment is used to include a split ticket volume.*

*The SLN Loop accommodates split ticket volumes where the associated parties must be identified.*

*Units of measurement of PIPENET document parameters will use the codes published in the implementation guidelines.*

*PIPENET permits the user to implement other Unit of Measure codes (DE 355) codes published in the version release.*

*New code implementations should be submitted to the PIPENET User Group committee for inclusion in the implementation guide.*

*The Unit of Measure data element will permit reporting a unit of measure that does not appear in the DE 355 code list but is composed of entries published in the list by implementing the composite Unit of Measure syntax.*

*PIPENET will accommodate 2 levels of Unit of Measure:*

- C001 01 Unit of Measure (published code) – usage is Mandatory
- C001 02 Exponent (usage is optional)
- C001 03 Multiplier (usage is optional)
- C001 03 Unit of Measure (published code) – usage is optional)
- C001 04 Exponent (usage is optional)
- C001 05 Multiplier (usage is optional)

*Examples:*

- C001: BR for barrels
- C001: BR C004: HT C005: -1 for barrels per half hour

*Refer to ANSI X-12 version release 4010 Composite Data Structure Figures*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
SLN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set <b>User:</b> <i>A sequential numeric sub-line item counter.</i>	M	AN	1/20	Req												
SLN03	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Add	M	ID	1/1	Req								
<u>Code</u>	<u>Name</u>																	
A	Add																	
SLN04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity <b>User:</b> <i>The split ticket volume</i>	C	R	1/15	Used												
SLN05	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used												
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>Cubic Meters (Net)</td> </tr> <tr> <td>GN</td> <td>Gross Gallons</td> </tr> <tr> <td>ND</td> <td>Net Barrels</td> </tr> <tr> <td>NG</td> <td>Net Gallons</td> </tr> <tr> <td>PN</td> <td>Pounds Net</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CO	Cubic Meters (Net)	GN	Gross Gallons	ND	Net Barrels	NG	Net Gallons	PN	Pounds Net	M	ID	2/2	Req
<u>Code</u>	<u>Name</u>																	
CO	Cubic Meters (Net)																	
GN	Gross Gallons																	
ND	Net Barrels																	
NG	Net Gallons																	
PN	Pounds Net																	
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used												
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used												
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>User:</b> <i>Refer to C001-01 for applicable code values.</i>	O	ID	2/2	Used												
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used												
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used												

# NM1 Individual or Organizational Name

Pos: 203	Max: 1
Detail - Optional	
Loop: SLN	Elements: 9

To supply the full name of an individual or organizational entity

**Syntax:**

P0809 -- If either NM108 or NM109 are present, then the others are required.

C1110 -- If NM111 is present, then NM110 is required

**Semantics:**

- 1. NM102 qualifies NM103.

**Comments:**

- 1. NM110 and NM111 further define the type of entity in NM101.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
NM101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Req												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AO</td> <td>Account Of</td> </tr> <tr> <td>CN</td> <td>Consignee</td> </tr> <tr> <td>SH</td> <td>Shipper</td> </tr> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>UC</td> <td>Ultimate Consignee</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AO	Account Of	CN	Consignee	SH	Shipper	SU	Supplier/Manufacturer	UC	Ultimate Consignee				
<u>Code</u>	<u>Name</u>																	
AO	Account Of																	
CN	Consignee																	
SH	Shipper																	
SU	Supplier/Manufacturer																	
UC	Ultimate Consignee																	
NM102	1065	<b>Entity Type Qualifier</b> <b>Description:</b> Code qualifying the type of entity	M	ID	1/1	Req												
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Non-Person Entity</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	2	Non-Person Entity												
<u>Code</u>	<u>Name</u>																	
2	Non-Person Entity																	
NM103	1035	<b>Name Last or Organization Name</b> <b>Description:</b> Individual last name or organizational name	O	AN	1/35	Used												
NM104	1036	<b>Name First</b> <b>Description:</b> Individual first name	O	AN	1/25	Used												
NM105	1037	<b>Name Middle</b> <b>Description:</b> Individual middle name or initial	O	AN	1/25	Used												
NM106	1038	<b>Name Prefix</b> <b>Description:</b> Prefix to individual name	O	AN	1/10	Used												
NM107	1039	<b>Name Suffix</b> <b>Description:</b> Suffix to individual name	O	AN	1/10	Used												
NM108	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used	C	ID	1/2	Used												

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
		for Identification Code (67)														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number,Dun &amp; Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td>22</td> <td>Council of Petroleum Accounting Societies code (COPAS)</td> </tr> <tr> <td>TL</td> <td>Transport4 Location Code</td> </tr> </tbody> </table> <p><b>Description:</b></p> <p><b>User:</b> Refer to Code Source 841 in the Appendix.</p>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number,Dun & Bradstreet	9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix	22	Council of Petroleum Accounting Societies code (COPAS)	TL	Transport4 Location Code				
<u>Code</u>	<u>Name</u>															
1	D-U-N-S Number,Dun & Bradstreet															
9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix															
22	Council of Petroleum Accounting Societies code (COPAS)															
TL	Transport4 Location Code															
		<table border="1"> <tbody> <tr> <td>TS</td> <td>Transport4 Shipper Code</td> </tr> </tbody> </table> <p><b>User:</b> Refer to Code Source 841 in the Appendix.</p>	TS	Transport4 Shipper Code												
TS	Transport4 Shipper Code															
NM109	67	<p><b>Identification Code</b></p> <p><b>Description:</b> Code identifying a party or other code</p>	C	AN	2/80	Not used										

# N1

## Name

<b>Pos: 210</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

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

**Syntax:**

- R0203 -- At least one of N102 or N103 is required.
- P0304 -- If either N103 or N104 are present, then the others are required.

**Comments:**

- 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.

**User:**

*A typical third party transaction can be envisioned as a three link chain. The left link owns the ticket data and allows the middle link access to the ticket. The right link is granted access to the ticket by the middle link.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b>	M	ID	2/3	Req

**Description:** Code identifying an organizational entity, a physical location, property or an individual

<u>Code</u>	<u>Name</u>
AO	Account Of
CI	Consignor
CN	Consignee
DT	Destination Terminal
IK	Intermediate Carrier
	<b>Description:</b> Use this code value to denote Connecting Carrier.
NC	Cross-Town Switch
	<b>Description:</b> Local Rail Movement
OC	Origin Carrier
OP	Operator of property or unit
OV	Owner of Vessel
PP	Property
RF	Refinery
SF	Ship From
SH	Shipper
ST	Ship To
SU	Supplier/Manufacturer
TF	Tank Farm
UC	Ultimate Consignee
WF	Tank Farm Owner
	<b>User:</b> Use this code value to designate the destination terminal.
Z6	Transferring Party
	<b>Description:</b> An organization that is sending material
	<b>User:</b> This is the left link in the chain. This party "owned" the product first. This party is the transferor to the middle link in the chain. This party grants access to the ticket stored in the TPTS respository to the middle link in the chain.
Z8	Last Known Source of Supply
	<b>Description:</b> The last organization known to hold a transaction

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
		for the needed material <b>User:</b> <i>This is the right link in the chain. This party owned the product last in this three link chain of custody. This party is granted access to the ticket by the middle link. This name qualifier identifies this party as the transferee due to a change of custody from the party identified in the N1 segment with a code value of "ZL" in N101.</i>																
	ZD	Party to Receive Reports <b>Description:</b> The organization designated to receive reports <b>User:</b> <i>This is the middle link in the chain requesting a copy of the ticket stored in the TPTS respository. This party "owned" the product second. This party is the transferee to the transferor identified by the N1 segment with the code value "Z6" in N101.</i>																
	ZL	Party Passing the Transaction <b>Description:</b> The party forwarding a transaction <b>User:</b> <i>This is the middle link in the chain requesting a copy of the ticket stored in the TPTS respository. This party which transferred ownership of the product to the right link in the chain. This name qualifier identifies this party as the transferor to the right link..</i>																
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/60	Used												
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number,Dun &amp; Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td>20</td> <td>Standard Point Location Code (SPLC)</td> </tr> <tr> <td>22</td> <td>Council of Petroleum Accounting Societies code (COPAS)</td> </tr> <tr> <td>ZY</td> <td>Temporary Identification Number</td> </tr> </tbody> </table> <b>Description:</b> A data maintenance item is pending for the addition of a code value to denote "Transport 4 Identification Code". Use the code value "ZY" until the data maintenance item is approved by the ASC X12 standards-setting body.	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number,Dun & Bradstreet	9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix	20	Standard Point Location Code (SPLC)	22	Council of Petroleum Accounting Societies code (COPAS)	ZY	Temporary Identification Number				
<u>Code</u>	<u>Name</u>																	
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20	Standard Point Location Code (SPLC)																	
22	Council of Petroleum Accounting Societies code (COPAS)																	
ZY	Temporary Identification Number																	
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/80	Used												

# REF Reference Identification

Pos: 250	Max: 100
Detail - Optional	
Loop: N1	Elements: 2

To specify identifying information

**Syntax:**

R0203 -- At least one of REF02 or REF03 is required.

**Semantics:**

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

**User:**

When N101 (Table 2/210) contains the code value "OV", then REF01 will be "ABS". This identifies a vessel name (REF segment) with the owner of the vessel (N1 segment).

When N101 (Table 2/210) contains the code value "OP", then REF01 will be "LC". This identifies a lease number (REF segment) with the owner of the lease (N1 segment).

When N101 (Table 2/210) contains the code values "ST" or "SF", then Loop 200 may be include a second instance of (Table 2/250) then REF01 will be "PG". This identifies a foreign crude code and description.

When N101 (Table 2/210) contains the code values "ST" or "SF", then REF01 will be "MT". This identifies a meter ticket number associated with Ship To or Ship From location.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Req										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>LC</td> <td>Lease Number</td> </tr> <tr> <td>MT</td> <td>Meter Ticket Number</td> </tr> <tr> <td>PG</td> <td>Product Group</td> </tr> <tr> <td>ABS</td> <td>Vessel Name</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	LC	Lease Number	MT	Meter Ticket Number	PG	Product Group	ABS	Vessel Name				
<u>Code</u>	<u>Name</u>															
LC	Lease Number															
MT	Meter Ticket Number															
PG	Product Group															
ABS	Vessel Name															
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used										

# PER Administrative Communications Contact

Pos: 260	Max: 3
Detail - Optional	
Loop: N1	Elements: 2

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

**Syntax:**

- P0304 -- If either PER03 or PER04 are present, then the others are required.
- P0506 -- If either PER05 or PER06 are present, then the others are required.
- P0708 -- If either PER07 or PER08 are present, then the others are required.

**User:**

*PIPENET allows that the information contact in the PER segment of the N1 loop sending the Point of Origin (N101="SF") or Point of Delivery (N101="ST").*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
PER01	366	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Req				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IC</td> <td>Information Contact</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	IC	Information Contact				
<u>Code</u>	<u>Name</u>									
IC	Information Contact									
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used				
		<b>User:</b> <i>Use this data field to relay the name or initials of the field employee responsible for the creation of the ticket.</i>								

# CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

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

**Syntax:**

- P0304 -- If either CTT03 or CTT04 are present, then the others are required.
- P0506 -- If either CTT05 or CTT06 are present, then the others are required.

**Comments:**

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

**User:**

*This data field should contain the number of LIN segments present in the transaction set.*

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Req
<p><b>Description:</b> Total number of line items in the transaction set</p> <p><b>User:</b> <i>For PIPENET a count of the number of RCD segments present in the transaction.</i></p>						

**SE****Transaction Set Trailer**

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

**Comments:**

- SE is the last segment of each transaction set.

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Req
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <b>User:</b> SE02 must be the same number as ST02.	M	AN	4/9	Req