846 Inventory Inquiry/Advice

Functional Group=IB

This Draft Standard for Trial Use contains the format and establishes the data contents of the Inventory Inquiry/Advice Transaction Set (846) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchaser, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

Notes:

3/010   Number of line items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (QTY02) of each QTY segment.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Req
020	BIA	Beginning Segment for Inventory Inquiry/Advice	M	1			Req
050	DTM	Date/Time Reference	O	10			Used
LOOP ID - N1					**5**		
080	N1	Name	O	1			Req
090	N2	Additional Name Information	O	2			Used
100	N3	Address Information	O	2			Used
110	N4	Geographic Location	O	1			Used
120	REF	Reference Identification	O	12			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN					**10000**		
010	LIN	Item Identification	M	1			Req
LOOP ID - LM					**10**		
260	LM	Code Source Information	O	1			Used
270	LQ	Industry Code	M	100			Used
LOOP ID - QTY					**99**		
320	QTY	Quantity	O	1			Req
LOOP ID - SCH					**25**		
360	SCH	Line Item Schedule	O	1			Used
LOOP ID - N1					**200**		
450	N1	Name	O	1			Used
490	REF	Reference Identification	O	12			Used

Summary:

Pos	Id	Segment Name	Req	Max	Repeat	Notes	Usage

			Use			
010	CTT	Transaction Totals	O	1	N3/010	Used

Pos	Id	Segment Name	Req	Max	Repeat	Notes	Usage
020	SE	**Transaction Set Trailer**	M				Req

		Pos: 010	**Max: 1**

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:

1. 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	**143**	**Transaction Set Identifier Code**	**M**	**ID**	**3/3**	**Req**
		Description: Code uniquely identifying a Transaction Set				

Code	Name
846	Inventory Inquiry/Advice

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	**329**	**Transaction Set Control Number**	**M**	**AN**	**4/9**	**Req**
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

User: *The control number is assigned by the sender. It is sequntially assigned within each functional group. Sequential numbering aids in error recovery and research. ST02 must be the same as SE02.*

BIA Beginning Segment for Inventory Inquiry/Advice

Pos: 020   Max: 1
Heading - Mandatory
Loop: N/A   Elements: 5

To indicate the beginning of an Inventory Inquiry/Advice Transaction Set

Semantics:

1. BIA03 identifies the number of the inquiry/advice that is transferred.
2. BIA04 identifies the date of the inquiry/advice that is transferred.
3. BIA05 identifies the time of the inquiry/advice that is transferred.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA01	353	**Transaction Set Purpose Code**	M	ID	2/2	Req

Description: Code identifying purpose of transaction set

Code	Name
08	Status

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA02	755	**Report Type Code**	M	ID	2/2	Req

Description: Code indicating the title or contents of a document, report or supporting item

Code	Name
PS	Pipeline/Shipper Inventory Report

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA03	127	**Reference Identification**	M	AN	1/30	Req

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA04	373	**Date**	M	DT	8/8	Req

Description: Date expressed as CCYYMMDD

User: *For example, January 1, 1999 would be expressed as 19990101.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIA05	337	**Time**	O	TM	4/8	Used

Description: 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)

DTM   Date/Time Reference

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:

Use this segment is indicate the beginning of the inventory transaction set and transmit identifying numbers and dates.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	**374**	**Date/Time Qualifier**	**M**	**ID**	**3/3**	**Req**

Description: Code specifying type of date or time, or both date and time

Code	Name
090	Report Start
091	Report End

DTM02	**373**	**Date**	**C**	**DT**	**8/8**	**Used**

Description: Date expressed as CCYYMMDD

User: *For example, January 1, 1999 would be expressed as 19990101.*

DTM03	**337**	**Time**	**C**	**TM**	**4/8**	**Used**

Description: 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)

DTM04	**623**	**Time Code**	**O**	**ID**	**2/2**	**Used**

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow
All valid X12 codes are used.

N1 Name

Pos: 080   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:

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.

User:

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Req
		Description: Code identifying an organizational entity, a physical location, property or an individual				

	Code	Name
CA	Carrier	
	Description: Use of this code value is required by PIPENET.	
SH	Shipper	
	Description: Use of this code value is required by PIPENET.	

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Used
		Description: Free-form name				
N103	66	**Identification Code Qualifier**	C	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				

	Code	Name
	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)
	TL	Transport4 Location Code
	TS	Transport4 Shipper Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	C	AN	2/80	Used
		Description: Code identifying a party or other code				

N2 Additional Name Information

Pos: 090	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 and N104.

Element Summary:

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

N3   Address Information

To specify the location of the named party

User:

Do not send this segment if the entity has been identified by using N103 and N104.

Element Summary:

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

N4   Geographic Location

<table>
<tr><td>Pos: 110</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 3</td></tr>
</table>

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 and N104.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
		User: *Refer to PIDX Bulletin D12A and Code Source 22 in the Appendix.*				

If N404 is used, then the use of N401 - N404 is required.

REF   Reference Identification

Pos: 120   Max: 12
Heading - Optional
Loop: N1   Elements: 3

To specify identifying information

Syntax:

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

Semantics:

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

User:

This segment will declare the carrier tariff number. Each line item loop in the detail will refer to this tariff number. However, this tariff number will be superceded by use of the REF segment with Reference Number Information Qualifier "TS" in the line item loop in the detail area. In this case, the tariff number is declared in the REF02. This tariff number will be effective for that line item loop only.

See additional notes in the detail area related to the use of this segment.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	**128**	**Reference Identification Qualifier**	M	ID	2/3	Req
		Description: Code qualifying the Reference Identification				

	Code	Name
	TS	Tariff Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	**127**	**Reference Identification**	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF03	**352**	**Description**	C	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content				

User: *If the reference can be described by a numeric value then send the number in REF02. Otherwise, send the reference as alpha-numeric text in REF03.*

LIN   Item Identification

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 LIN segment is used to transmit data elements essential to line information of an inventory. Each LIN segment will define a product type or crude grade. PIPENET allows the same product tye or crude grade to be sent in multiple LIN segments. Ths is the case where the carrier must send inventory volumes for the product type or crude grade at various locations.

Element Summary:

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

	Code	Name
	PQ	Product ID Attribute Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN03	234	**Product/Service ID**	M	AN	1/48	Req
		Description: Identifying number for a product or service				

User:

C   Crude Oil

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		N Natural Gas				
		P Product				
LIN04	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Req

Code	Name
DH	Transport 4 Commodity Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN05	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	C	AN	1/48	Used

User: *Refer to the Appendix for the PIDX Product Code List.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN06	**235**	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used

Code	Name
GC	Grade Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN07	**234**	**Product/Service ID** **Description:** Identifying number for a product or service	C	AN	1/48	Used

User: *This data field should contain the Product/Crude Movement Identifier.*

		Pos: 260 Max: 1
LM	**Code Source Information**	**Detail - Optional** **Loop: LM Elements: 2**

To transmit standard code list identification information

Comments:

1. LM02 identifies the applicable industry code list source information.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LM01	**559**	**Agency Qualifier Code**	**M**	**ID**	**2/2**	**Req**
		Description: Code identifying the agency assigning the code values				

	Code	Name
AP	PIDX	

Description: Responsible for PIDX (PIDX)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LM02	**822**	**Source Subqualifier**	**O**	**AN**	**1/15**	**Used**
		Description: A reference that indicates the table or text maintained by the Source Qualifier				

LQ Industry Code

Pos: 270	Max: 100
Detail - Mandatory	
Loop: LM	Elements: 2

Code to transmit standard industry codes

Syntax:

C0102 -- If LQ01 is present, then LQ02 is required

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LQ01	**1270**	**Code List Qualifier Code**	O	ID	1/3	Used

Description: Code identifying a specific industry code list

Code	Name
NB	Inventory Type Code

Description: LQ01 identifies the Inventory Volume Type Code which following in LQ02

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LQ02	**1271**	**Industry Code**	C	AN	1/30	Used

Description: Code indicating a code from a specific industry code list

User: *E Beginning Inventory*

F Receipt Volume

G Ending Inventory

H Delivered Volume

I Pipeline Adjustment/Allowance

J Volume Shrinkage

K Fuel Burn

L Loss/Gain

M Sale of Product

N Purchase of Product

O Exchange of Product

P Product Transfer Order

Q InterTank Transfers

R Book Inventory

S Tariff Loss Allowance

T Grade Transfer

U Tank Allowance

V Miscellaneous Allowances

QTY   Quantity

To specify quantity information

Syntax:

R0204 -- At least one of QTY02 or QTY04 is required.
E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

User:

This QTY segment is to be used to transmit inventory quantity or type. To identify an inventory type, use the industry code values provided in QTY04.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
QTY01	673	**Quantity Qualifier**	M	ID	2/2	Req
		Description: Code specifying the type of quantity				
		All valid X12 codes are used.				
QTY02	380	**Quantity**	C	R	1/15	Used
		Description: Numeric value of quantity				
QTY03	C001	**Composite Unit of Measure**	O	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
CO	Cubic Meters (Net)
CR	Cubic Meter
GD	Gross Barrels
GN	Gross Gallons
KG	Kilogram
ND	Net Barrels
NG	Net Gallons
PG	Pounds Gross
PN	Pounds Net
PU	Mass Pounds

SCH   Line Item Schedule

Pos: 360	Max: 1
Detail - Optional	
Loop: SCH	**Elements: 9**

To specify the data for scheduling a specific line-item

Syntax:

C0304 -- If SCH03 is present, then SCH04 is required
L080910 -- If SCH08 is present, then at least one of SCH09 or SCH10 is required.
C0908 -- If SCH09 is present, then SCH08 is required
C1008 -- If SCH10 is present, then SCH08 is required

Semantics:

1.   SCH12 is the schedule identification.

Comments:

1.   SCH05 specifies the interpretation to be used for SCH06 and SCH07.

User:

The SCH segment should be used to transmit inventory date and time.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SCH01	380	**Quantity**	M	R	1/15	Req
		Description: Numeric value of quantity				
SCH02	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
CO	Cubic Meters (Net)
CR	Cubic Meter
GD	Gross Barrels
GN	Gross Gallons
ND	Net Barrels
NG	Net Gallons
PG	Pounds Gross
PN	Pounds Net
PU	Mass Pounds

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SCH05	374	**Date/Time Qualifier**	M	ID	3/3	Req
		Description: Code specifying type of date or time, or both date and time				

User: *For reporting inventory start/end dates use SCH05 code value "090" to identify inventory report start date SCH08 code "091" to identify inventory report end date.*

For reporting inventory date/next inventory date use SCH05 code value "184" to identify current inventory report date and SCH08 code value "067" to identify the next inventory report date.

Code	Name

	Ref	Id	Element Name		Req	Type
			Min/Max Usage			

090 Report Start
184 Inventory

SCH06	**373**	**Date**		M	DT	8/8	**Req**

Description: Date expressed as CCYYMMDD

User: *For example, January 1, 1999 would be expressed as 19990101.*

SCH07	**337**	**Time**	O	TM	4/8	**Used**

Description: 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)

SCH08	**374**	**Date/Time Qualifier**	C	ID	3/3	**Used**

Description: Code specifying type of date or time, or both date and time

User: *SCH08 - SCH10 are used to relay when the next scheduled inventory should be taken.*

Code   **Name**

067   Current Schedule Delivery
091   Report End

SCH09	**373**	**Date**	C	DT	8/8	**Used**

Description: Date expressed as CCYYMMDD

User: *For example, January 1, 1999 would be expressed as 19990101.*

SCH10	**337**	**Time**	C	TM	4/8	**Used**

Description: 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)

SCH11	**326**	**Request Reference Number**	O	AN	1/45	**Not used**

Description: Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)

N1   Name

Pos: 450	**Max: 1**
Detail - 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:

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.

User:

The N1 segment should be used to declare the company name for a Ship From or a Ship To invnentory line item location if the company is different than the shipper declared in the header. This segment also identifies the line inventory line item location.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	**98**	**Entity Identifier Code**	**M**	**ID**	**2/3**	**Req**

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

Code	Name
7S	Pipeline Segment
CA	Carrier
OP	Operator of property or unit
SF	Ship From
ST	Ship To
SU	Supplier/Manufacturer
TF	Tank Farm

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	**93**	**Name**	C	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	**66**	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
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)
TL	Transport4 Location Code
TS	Transport4 Shipper Code

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	**67**	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

REF   Reference Identification

Pos: 490   Max: 12
Detail - Optional
Loop: N1   Elements: 2

To specify identifying information

Syntax:

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

Semantics:

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

User:

The use of this segment in the line item detail supercedes the tariff number declared in the header area. The use of this tariff number is effective for this line item only.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Req
		Description: Code qualifying the Reference Identification				

Code	Name
TS	Tariff Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

CTT   Transaction Totals

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:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Req
		Description: Total number of line items in the transaction set				

User: *This should equal the number of line items (LIN segments) present in the transaction set.*

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:

1. SE is the last segment of each transaction set.

Element Summary:

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