

# 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:**

| <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                 | BIA       | Beginning Segment for Inventory Inquiry/Advice | M          | 1              |                 |              | Req          |
| 050                 | DTM       | Date/Time Reference                            | O          | 10             |                 |              | Used         |
| <b>LOOP ID - N1</b> |           |  |            |                | <b><u>5</u></b> |              |              |
| 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:**

| <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 - LIN</b> |           |                          |            |                | <b><u>10000</u></b> |              |              |
| 010                  | LIN       | Item Identification      | M          | 1              |                     |              | Req          |
| <b>LOOP ID - LM</b>  |           |                          |            |                | <b><u>10</u></b>    |              |              |
| 260                  | LM        | Code Source Information  | O          | 1              |                     |              | Used         |
| 270                  | LQ        | Industry Code            | M          | 100            |                     |              | Used         |
| <b>LOOP ID - QTY</b> |           |                          |            |                | <b><u>99</u></b>    |              |              |
| 320                  | QTY       | Quantity                 | O          | 1              |                     |              | Req          |
| <b>LOOP ID - SCH</b> |           |                          |            |                | <b><u>25</u></b>    |              |              |
| 360                  | SCH       | Line Item Schedule       | O          | 1              |                     |              | Used         |
| <b>LOOP ID - N1</b>  |           |                          |            |                | <b><u>200</u></b>   |              |              |
| 450                  | N1        | Name                     | O          | 1              |                     |              | Used         |
| 490                  | REF       | Reference Identification | O          | 12             |                     |              | 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       | Used         |



# 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><br><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>846</td> <td>Inventory Inquiry/Advice</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | 846            | Inventory Inquiry/Advice |  |  |  |  |
| <u>Code</u> | <u>Name</u>              |   |             |             |                |                          |  |  |  |  |
| 846         | Inventory Inquiry/Advice |   |             |             |                |                          |  |  |  |  |
| ST02        | 329                      | <b>Transaction Set Control Number</b><br><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                      |  |  |  |  |
|             |                          | <p><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 be the same as SE02.</i></p> |             |             |                |                          |  |  |  |  |

**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:**

| <u>Ref</u>  | <u>Id</u>                           | <u>Element Name</u>  | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>                        |  |  |  |  |
|-------------|-------------------------------------|--|-------------|-------------|----------------|-------------------------------------|--|--|--|--|
| BIA01       | 353                                 | <b>Transaction Set Purpose Code</b><br><b>Description:</b> Code identifying purpose of transaction set   | 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>08</td> <td>̄ Status</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | 08             | ̄ Status                            |  |  |  |  |
| <u>Code</u> | <u>Name</u>                         |  |             |             |                |                                     |  |  |  |  |
| 08          | ̄ Status                            |  |             |             |                |                                     |  |  |  |  |
| BIA02       | 755                                 | <b>Report Type Code</b><br><b>Description:</b> Code indicating the title or contents of a document, report or supporting item  | 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>PS</td> <td>̄ Pipeline/Shipper Inventory Report</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | PS             | ̄ Pipeline/Shipper Inventory Report |  |  |  |  |
| <u>Code</u> | <u>Name</u>                         |  |             |             |                |                                     |  |  |  |  |
| PS          | ̄ Pipeline/Shipper Inventory Report |  |             |             |                |                                     |  |  |  |  |
| BIA03       | 127                                 | <b>Reference Identification</b><br><b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier   | M           | AN          | 1/30           | Req                                 |  |  |  |  |
| BIA04       | 373                                 | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD<br><b>User:</b> For example, January 1, 1999 would be expressed as 19990101.   | M           | DT          | 8/8            | Req                                 |  |  |  |  |
| BIA05       | 337                                 | <b>Time</b><br><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) | O           | TM          | 4/8            | Used                                |  |  |  |  |

# DTM Date/Time Reference

|                    |             |
|--------------------|-------------|
| Pos: 050           | Max: 10     |
| Heading - Optional |             |
| Loop: N/A          | Elements: 4 |

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 to indicate the beginning of the inventory transaction set and transmit identifying numbers and dates.*

## 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><br><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>090</td> <td>Report Start</td> </tr> <tr> <td>091</td> <td>Report End</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | 090            | Report Start | 091 | Report End |  |  |  |  |
| <u>Code</u> | <u>Name</u>  |   |             |             |                |              |     |            |  |  |  |  |
| 090         | Report Start |   |             |             |                |              |     |            |  |  |  |  |
| 091         | Report End   |   |             |             |                |              |     |            |  |  |  |  |
| DTM02       | 373          | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD<br><b>User:</b> <i>For example, January 1, 1999 would be expressed as 19990101.</i>   | C           | DT          | 8/8            | Used         |     |            |  |  |  |  |
| DTM03       | 337          | <b>Time</b><br><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         |     |            |  |  |  |  |
| DTM04       | 623          | <b>Time Code</b><br><b>Description:</b> 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<br>All valid X12 codes are used. | O           | ID          | 2/2            | Used         |     |            |  |  |  |  |

# N1

## Name

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 080</b>           | <b>Max: 1</b>      |
| <b>Heading - 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:**

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:**

| <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><br><b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual  | M          | ID          | 2/3            | Req          |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            |             | <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td></td> <td>CA</td> <td>Carrier</td> </tr> <tr> <td></td> <td></td> <td><b>Description:</b> Use of this code value is required by PIPENET.</td> </tr> <tr> <td></td> <td>SH</td> <td>Shipper</td> </tr> <tr> <td></td> <td></td> <td><b>Description:</b> Use of this code value is required by PIPENET.</td> </tr> </table>  |            | <u>Code</u> | <u>Name</u>    |              | CA | Carrier                         |  |   | <b>Description:</b> Use of this code value is required by PIPENET. |  | SH | Shipper                             |  |    | <b>Description:</b> Use of this code value is required by PIPENET. |  |    |                         |  |  |  |  |
|            | <u>Code</u> | <u>Name</u>   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            | CA          | Carrier   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            |             | <b>Description:</b> Use of this code value is required by PIPENET.  |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            | SH          | Shipper   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            |             | <b>Description:</b> Use of this code value is required by PIPENET.  |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
| N102       | 93          | <b>Name</b><br><b>Description:</b> Free-form name   | C          | AN          | 1/60           | Used         |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
| N103       | 66          | <b>Identification Code Qualifier</b><br><b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)  | C          | ID          | 1/2            | Used         |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            |             | <table border="0"> <tr> <td></td> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td></td> <td>1</td> <td>D-U-N-S Number,Dun &amp; Bradstreet</td> </tr> <tr> <td></td> <td>9</td> <td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td></td> <td>20</td> <td>Standard Point Location Code (SPLC)</td> </tr> <tr> <td></td> <td>TL</td> <td>Transport4 Location Code</td> </tr> <tr> <td></td> <td>TS</td> <td>Transport4 Shipper Code</td> </tr> </table> |            | <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) |  | TL | Transport4 Location Code   |  | TS | Transport4 Shipper 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   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            | 20          | Standard Point Location Code (SPLC)   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            | TL          | Transport4 Location Code  |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
|            | TS          | Transport4 Shipper Code   |            |             |                |              |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |
| N104       | 67          | <b>Identification Code</b><br><b>Description:</b> Code identifying a party or other code  | C          | AN          | 2/80           | Used         |    |                                 |  |   |  |  |    |                                     |  |    |  |  |    |                         |  |  |  |  |

**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:**

| <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<br><b>Description:</b> Free-form name | M          | AN          | 1/60           | Req          |
| N202       | 93        | Name<br><b>Description:</b> Free-form name | O          | AN          | 1/60           | Used         |

**N3****Address Information**

|                    |             |
|--------------------|-------------|
| Pos: 100           | 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 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> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| N301       | 166       | <b>Address Information</b><br>Description: Address information | M          | AN          | 1/55           | Req          |
| N302       | 166       | <b>Address Information</b><br>Description: Address information | O          | AN          | 1/55           | Used         |

# N4

## Geographic Location

|                    |             |
|--------------------|-------------|
| Pos: 110           | Max: 1      |
| Heading - Optional |             |
| Loop: N1           | Elements: 3 |

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:**

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

# 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:**

- 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:**

| <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><br><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>TS</td> <td>Tariff Number</td> </tr> </tbody> </table>                   | <u>Code</u> | <u>Name</u> | TS             | Tariff Number |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |  |             |             |                |               |  |  |  |  |
| TS          | Tariff Number |  |             |             |                |               |  |  |  |  |
| REF02       | 127           | <b>Reference Identification</b><br><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><br><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>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.</i>              |             |             |                |               |  |  |  |  |

# LIN

## Item Identification

|                           |                    |
|---------------------------|--------------------|
| <b>Pos: 010</b>           | <b>Max: 1</b>      |
| <b>Detail - Mandatory</b> |                    |
| <b>Loop: LIN</b>          | <b>Elements: 7</b> |

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 type or crude grade to be sent in multiple LIN segments. This is the case where the carrier must send inventory volumes for the product type or crude grade at various locations.*

### 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><br><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><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) | M          | ID          | 2/2            | Req          |
|            |           | <u>Code</u> <u>Name</u>  |            |             |                |              |
|            |           | PQ      Product ID Attribute Code  |            |             |                |              |
| LIN03      | 234       | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service   | M          | AN          | 1/48           | Req          |
|            |           | <b>User:</b><br>C      Crude Oil   |            |             |                |              |

| <u>Ref</u>  | <u>Id</u>                  | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>               |  |  |  |  |
|-------------|----------------------------|---|-------------|-------------|----------------|----------------------------|--|--|--|--|
|             |                            | <i>N Natural Gas</i>  |             |             |                |                            |  |  |  |  |
|             |                            | <i>P Product</i>  |             |             |                |                            |  |  |  |  |
| LIN04       | 235                        | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)                                    | C           | ID          | 2/2            | Req                        |  |  |  |  |
|             |                            | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>DH</td> <td>Transport 4 Commodity Code</td> </tr> </tbody> </table>             | <u>Code</u> | <u>Name</u> | DH             | Transport 4 Commodity Code |  |  |  |  |
| <u>Code</u> | <u>Name</u>                |   |             |             |                |                            |  |  |  |  |
| DH          | Transport 4 Commodity Code |   |             |             |                |                            |  |  |  |  |
| LIN05       | 234                        | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service<br><b>User:</b> <i>Refer to the Appendix for the API Product Code List.</i>                  | C           | AN          | 1/48           | Used                       |  |  |  |  |
| LIN06       | 235                        | <b>Product/Service ID Qualifier</b><br><b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)                                    | 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>GC</td> <td>Grade Code</td> </tr> </tbody> </table>                             | <u>Code</u> | <u>Name</u> | GC             | Grade Code                 |  |  |  |  |
| <u>Code</u> | <u>Name</u>                |   |             |             |                |                            |  |  |  |  |
| GC          | Grade Code                 |   |             |             |                |                            |  |  |  |  |
| LIN07       | 234                        | <b>Product/Service ID</b><br><b>Description:</b> Identifying number for a product or service<br><b>User:</b> <i>This data field should contain the Product/Crude Movement Identifier.</i> | C           | AN          | 1/48           | Used                       |  |  |  |  |

# LM

## Code Source Information

|                   |             |
|-------------------|-------------|
| Pos: 260          | Max: 1      |
| Detail - Optional |             |
| Loop: LM          | Elements: 2 |

To transmit standard code list identification information

**Comments:**

- LM02 identifies the applicable industry code list source information.

**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>                 |  |  |  |  |  |  |
|-------------|--|--|-------------|-------------|----------------|------------------------------|--|--|--|--|--|--|
| LM01        | 559  | Agency Qualifier Code<br><b>Description:</b> Code identifying the agency assigning the code values   | M           | ID          | 2/2            | Req                          |  |  |  |  |  |  |
|             |  | <table border="0"> <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> <tr> <td></td> <td><b>Description:</b> Responsible for American Petroleum Institute (API)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | AP             | American Petroleum Institute |  | <b>Description:</b> Responsible for American Petroleum Institute (API) |  |  |  |  |
| <u>Code</u> | <u>Name</u>  |  |             |             |                |                              |  |  |  |  |  |  |
| AP          | American Petroleum Institute   |  |             |             |                |                              |  |  |  |  |  |  |
|             | <b>Description:</b> Responsible for American Petroleum Institute (API) |  |             |             |                |                              |  |  |  |  |  |  |
| LM02        | 822  | Source Subqualifier<br><b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier   | O           | AN          | 1/15           | Used                         |  |  |  |  |  |  |

# 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:**

| <u>Ref</u>  | <u>Id</u>   | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>  |  |  |  |  |
|-------------|---|---|-------------|-------------|----------------|---|--|--|--|--|
| LQ01        | 1270  | <b>Code List Qualifier Code</b><br><b>Description:</b> Code identifying a specific industry code list   | O           | ID          | 1/3            | Used  |  |  |  |  |
|             |   | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>NB</td> <td>Inventory Type Code<br/><b>Description:</b> LQ01 identifies the Inventory Volume Type Code which following in LQ02</td> </tr> </tbody> </table>   | <u>Code</u> | <u>Name</u> | NB             | Inventory Type Code<br><b>Description:</b> LQ01 identifies the Inventory Volume Type Code which following in LQ02 |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |   |             |             |                |   |  |  |  |  |
| NB          | Inventory Type Code<br><b>Description:</b> LQ01 identifies the Inventory Volume Type Code which following in LQ02 |   |             |             |                |   |  |  |  |  |
| LQ02        | 1271  | <b>Industry Code</b><br><b>Description:</b> Code indicating a code from a specific industry code list   | C           | AN          | 1/30           | Used  |  |  |  |  |
|             |   | <div style="background-color: #e0e0e0; padding: 5px;"> <p><b>User:</b> E Beginning Inventory<br/>                     F Receipt Volume<br/>                     G Ending Inventory<br/>                     H Delivered Volume<br/>                     I Pipeline Adjustment/Allowance<br/>                     J Volume Shrinkage<br/>                     K Fuel Burn<br/>                     L Loss/Gain<br/>                     M Sale of Product<br/>                     N Purchase of Product<br/>                     O Exchange of Product<br/>                     P Product Transfer Order<br/>                     Q InterTank Transfers<br/>                     R Book Inventory<br/>                     S Tariff Loss Allowance<br/>                     T Grade Transfer<br/>                     U Tank Allowance<br/>                     V Miscellaneous Allowances</p> </div> |             |             |                |   |  |  |  |  |

# QTY Quantity

|                   |             |
|-------------------|-------------|
| Pos: 320          | Max: 1      |
| Detail - Optional |             |
| Loop: QTY         | Elements: 3 |

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:**

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>  | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| QTY01      | 673       | <b>Quantity Qualifier</b><br>Description: Code specifying the type of quantity<br>All valid X12 codes are used.  | M          | ID          | 2/2            | Req          |
| QTY02      | 380       | <b>Quantity</b><br>Description: Numeric value of quantity  | C          | R           | 1/15           | Used         |
| QTY03      | C001      | <b>Composite Unit of Measure</b><br>Description: To identify a composite unit of measure(See Figures Appendix for examples of use)                                       | O          | Comp        |                | Used         |
|            | 355       | <b>Unit or Basis for Measurement Code</b><br>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | M          | ID          | 2/2            | Req          |

| <u>Code</u> | <u>Name</u>        |
|-------------|--------------------|
| 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:**

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| SCH01      | 380       | <b>Quantity</b><br><b>Description:</b> Numeric value of quantity  | M          | R           | 1/15           | Req          |
| SCH02      | 355       | <b>Unit or Basis for Measurement Code</b><br><b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | M          | ID          | 2/2            | Req          |

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

- |    |                    |
|----|--------------------|
| 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        |

|       |     |   |   |    |     |     |
|-------|-----|---|---|----|-----|-----|
| SCH05 | 374 | <b>Date/Time Qualifier</b><br><b>Description:</b> Code specifying type of date or time, or both date and time | M | ID | 3/3 | Req |
|-------|-----|---|---|----|-----|-----|

**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.

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

| <u>Ref</u>  | <u>Id</u>                 | <u>Element Name</u>  | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>              |     |            |  |  |  |  |
|-------------|---------------------------|--|-------------|-------------|----------------|---------------------------|-----|------------|--|--|--|--|
|             |                           | 090 Report Start<br>184 Inventory  |             |             |                |                           |     |            |  |  |  |  |
| SCH06       | 373                       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD<br><b>User:</b> <i>For example, January 1, 1999 would be expressed as 19990101.</i>  | M           | DT          | 8/8            | Req                       |     |            |  |  |  |  |
| SCH07       | 337                       | <b>Time</b><br><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) | O           | TM          | 4/8            | Used                      |     |            |  |  |  |  |
| SCH08       | 374                       | <b>Date/Time Qualifier</b><br><b>Description:</b> Code specifying type of date or time, or both date and time<br><b>User:</b> <i>SCH08 - SCH10 are used to relay when the next scheduled inventory should be taken.</i>  | C           | ID          | 3/3            | Used                      |     |            |  |  |  |  |
|             |                           | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>067</td> <td>Current Schedule Delivery</td> </tr> <tr> <td>091</td> <td>Report End</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | 067            | Current Schedule Delivery | 091 | Report End |  |  |  |  |
| <u>Code</u> | <u>Name</u>               |  |             |             |                |                           |     |            |  |  |  |  |
| 067         | Current Schedule Delivery |  |             |             |                |                           |     |            |  |  |  |  |
| 091         | Report End                |  |             |             |                |                           |     |            |  |  |  |  |
| SCH09       | 373                       | <b>Date</b><br><b>Description:</b> Date expressed as CCYYMMDD<br><b>User:</b> <i>For example, January 1, 1999 would be expressed as 19990101.</i>  | C           | DT          | 8/8            | Used                      |     |            |  |  |  |  |
| SCH10       | 337                       | <b>Time</b><br><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                      |     |            |  |  |  |  |
| SCH11       | 326                       | <b>Request Reference Number</b><br><b>Description:</b> 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)  | O           | AN          | 1/45           | Not used                  |     |            |  |  |  |  |

# N1

## Name

|                          |                    |
|--------------------------|--------------------|
| <b>Pos: 450</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:**

*The N1 segment should be used to declare the company name for a Ship From or a Ship To inventory 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:**

| <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><br><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>7S</td> <td>Pipeline Segment</td> </tr> <tr> <td>CA</td> <td>Carrier</td> </tr> <tr> <td>OP</td> <td>Operator of property or unit</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>SU</td> <td>Supplier/Manufacturer</td> </tr> <tr> <td>TF</td> <td>Tank Farm</td> </tr> </tbody> </table>    | <u>Code</u> | <u>Name</u> | 7S             | Pipeline Segment                | CA | Carrier   | OP | Operator of property or unit        | SF | Ship From                | ST | Ship To                 | SU | Supplier/Manufacturer | TF | Tank Farm |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| 7S          | Pipeline Segment                                    |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| CA          | Carrier   |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| OP          | Operator of property or unit                        |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| SF          | Ship From   |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| ST          | Ship To   |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| SU          | Supplier/Manufacturer                               |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| TF          | Tank Farm   |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| N102        | 93  | <b>Name</b><br><b>Description:</b> Free-form name   | C           | AN          | 1/60           | Used                            |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| N103        | 66  | <b>Identification Code Qualifier</b><br><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>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>TL</td> <td>Transport4 Location Code</td> </tr> <tr> <td>TS</td> <td>Transport4 Shipper Code</td> </tr> </tbody> </table> | <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) | TL | Transport4 Location Code | TS | Transport4 Shipper 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 |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| 20          | Standard Point Location Code (SPLC)                 |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| TL          | Transport4 Location Code                            |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| TS          | Transport4 Shipper Code                             |   |             |             |                |                                 |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |
| N104        | 67  | <b>Identification Code</b><br><b>Description:</b> Code identifying a party or other code  | C           | AN          | 2/80           | Used                            |    |   |    |                                     |    |                          |    |                         |    |                       |    |           |  |  |  |  |

# 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:**

- 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:**

| <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           | Reference Identification Qualifier<br><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>TS</td> <td>Tariff Number</td> </tr> </tbody> </table>            | <u>Code</u> | <u>Name</u> | TS             | Tariff Number |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |   |             |             |                |               |  |  |  |  |
| TS          | Tariff Number |   |             |             |                |               |  |  |  |  |
| REF02       | 127           | Reference Identification<br><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          |  |  |  |  |

# 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:

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

## 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       | <b>Number of Line Items</b>   | M          | N0          | 1/6            | Req          |
|            |           | <b>Description:</b> Total number of line items in the transaction set   |            |             |                |              |
|            |           | <b>User:</b> <i>This should equal the number of line items (LIN segments) present in the transaction set.</i> |            |             |                |              |

**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><br><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><br><b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set<br><b>User:</b> SE02 should equal the control number in ST02. | M          | AN          | 4/9            | Req          |