

846 RAPID Inventory Inquiry/Advice Standard

Functional Group ID=**IB**

Introduction:

This Standard 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.

Heading:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|--------------|-----------------|----------------|--|------------------|----------------|--------------------|---------------------------|
| Must Use | 010 | ST | Transaction Set Header | M | 1 | | |
| Must Use | 020 | BIA | Beginning Segment for Inventory Inquiry/Advice | M | 1 | | |
| Not Used | 040 | CUR | Currency | O | 1 | | |
| | 050 | DTM | Date/Time Reference | O | 10 | | |
| Not Used | 060 | REF | Reference Identification | O | 12 | | |
| Not Used | 070 | PER | Administrative Communications Contact | O | 3 | | |
| Not Used | 075 | MEA | Measurements | O | 20 | | |
| LOOP ID - N1 | | | | | | 5 | |
| | 080 | N1 | Name | O | 1 | | |
| | 090 | N2 | Additional Name Information | O | 2 | | |
| | 100 | N3 | Address Information | O | 2 | | |
| | 110 | N4 | Geographic Location | O | 1 | | |
| Not Used | 120 | REF | Reference Identification | O | 12 | | |
| Not Used | 130 | PER | Administrative Communications Contact | O | 3 | | |
| LOOP ID - LM | | | | | | 10 | |
| Not Used | 140 | LM | Code Source Information | O | 1 | | |
| Not Used | 150 | LQ | Industry Code | M | 100 | | |

Detail:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---------------|-----------------|----------------|-----------------------------|------------------|----------------|--------------------|---------------------------|
| LOOP ID - LIN | | | | | | 10000 | |
| Must Use | 010 | LIN | Item Identification | M | 1 | | |
| Not Used | 030 | PID | Product/Item Description | O | 200 | | |
| Not Used | 040 | MEA | Measurements | O | 40 | | |
| Not Used | 050 | PKG | Marking, Packaging, Loading | O | 25 | | |
| Not Used | 100 | DTM | Date/Time Reference | O | 10 | | |

| | | | | | | |
|---------------|-----|-----|--|---|------|----|
| Not Used | 110 | CTP | Pricing Information | O | 25 | |
| Not Used | 120 | CUR | Currency | O | 1 | |
| Not Used | 130 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 | |
| Not Used | 140 | REF | Reference Identification | O | >1 | |
| Not Used | 150 | PER | Administrative Communications Contact | O | 3 | |
| Not Used | 220 | SDQ | Destination Quantity | O | 500 | |
| Not Used | 230 | MAN | Marks and Numbers | O | 1 | |
| Not Used | 235 | UIT | Unit Detail | O | 5 | |
| Not Used | 240 | CS | Contract Summary | O | 1 | |
| Not Used | 250 | DD | Demand Detail | O | >1 | |
| Not Used | 255 | G53 | Maintenance Type | O | 1 | |
| Not Used | 256 | PCT | Percent Amounts | O | >1 | |
| Not Used | 257 | LDT | Lead Time | O | 12 | |
| LOOP ID - LM | | | | | 10 | |
| Not Used | 260 | LM | Code Source Information | O | 1 | |
| Not Used | 270 | LQ | Industry Code | M | 100 | |
| LOOP ID - SLN | | | | | 1000 | |
| Not Used | 280 | SLN | Subline Item Detail | O | 1 | |
| Not Used | 290 | PID | Product/Item Description | O | 200 | |
| Not Used | 300 | MEA | Measurements | O | 40 | |
| Not Used | 310 | PKG | Marking, Packaging, Loading | O | 25 | |
| LOOP ID - MAN | | | | | 100 | |
| Not Used | 312 | MAN | Marks and Numbers | O | 1 | |
| Not Used | 314 | MEA | Measurements | O | 40 | |
| LOOP ID - QTY | | | | | 99 | |
| | 320 | QTY | Quantity | O | 1 | |
| Not Used | 330 | UIT | Unit Detail | O | 12 | |
| Not Used | 340 | MEA | Measurements | O | 25 | |
| Not Used | 350 | LDT | Lead Time | O | 12 | |
| Not Used | 355 | DTM | Date/Time Reference | O | 10 | |
| LOOP ID - SCH | | | | | 25 | |
| Not Used | 360 | SCH | Line Item Schedule | O | 1 | |
| Not Used | 370 | MEA | Measurements | O | 25 | |
| LOOP ID - LM | | | | | >1 | |
| Not Used | 375 | LM | Code Source Information | O | 1 | |
| Not Used | 376 | LQ | Industry Code | M | 100 | |
| Not Used | 380 | LS | Loop Header | O | 1 | |
| LOOP ID - REF | | | | | >1 | |
| Not Used | 390 | REF | Reference Identification | O | 1 | n1 |
| Not Used | 400 | DTM | Date/Time Reference | O | >1 | |
| Not Used | 410 | N1 | Name | O | 1 | |
| LOOP ID - LM | | | | | 10 | |
| Not Used | 420 | LM | Code Source Information | O | 1 | |
| Not Used | 430 | LQ | Industry Code | M | 100 | |
| Not Used | 440 | LE | Loop Trailer | O | 1 | |

| | | LOOP ID - N1 | | | 200 |
|----------|-----|--------------|---------------------------------------|---|-----|
| | 450 | N1 | Name | O | 1 |
| | 460 | N2 | Additional Name Information | O | 2 |
| | 470 | N3 | Address Information | O | 2 |
| | 480 | N4 | Geographic Location | O | 1 |
| Not Used | 490 | REF | Reference Identification | O | 12 |
| Not Used | 500 | PER | Administrative Communications Contact | O | 3 |

Summary:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|----------|-----------------|----------------|-------------------------|------------------|----------------|--------------------|---------------------------|
| | 010 | CTT | Transaction Totals | O | 1 | | n2 |
| Must Use | 020 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes

1. The REF loop conveys serial number, lot number, and inventory data.
2. 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.

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

Data Element Summary

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

Segment: **BIA** Beginning Segment for Inventory Inquiry/Advice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an Inventory Inquiry/Advice Transaction Set
Syntax Notes:
Semantic Notes:

- 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.

Comments:

Data Element Summary

| Ref. | Data | Name | Attributes |
|-------------|----------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
| >> | BIA01 | 353 Transaction Set Purpose Code | M ID 2/2 |
| | | Code identifying purpose of transaction set | |
| | | 00 Original | |
| | | 08 Status | |
| >> | BIA02 | 755 Report Type Code | M ID 2/2 |
| | | Code indicating the title or contents of a document, report or supporting item | |
| | | RAPID recognizes the value in ANSI X12 of 'IP' is 'Inventory Parameter'. For our purposes RAPID will refer to 'IP' as 'Inventory Protection'. | |
| | | AA Agent Inventory Report | |
| | | DD Distributor Inventory Report | |
| | | DM Distributor/Manufacturer Inventory Report | |
| | | IP Inventory Parameter Report | |
| | | MA Manufacturer/Agent Inventory Report | |
| >> | BIA03 | 127 Reference Identification | M AN 1/30 |
| | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| | | Trading Partner defined. | |
| >> | BIA04 | 373 Date | M DT 8/8 |
| | | Date expressed as CCYYMMDD | |
| | | As of date. | |
| X | BIA05 | 337 Time | O TM 4/8 |
| | | 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) | |

X

BIA06

306

Action Code

O ID 1/2

Code indicating type of action

Refer to 0014010846 Data Element Dictionary for acceptable code values.

Segment: **DTM** Date/Time Reference

Position: 050

Loop:

Level: Heading

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

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

Semantic Notes:

Comments:

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> | | |
| >> | DTM01 | 374 Date/Time Qualifier | M ID 3/3 |
| | | Code specifying type of date or time, or both date and time | |
| | | 090 Report Start | |
| | | 091 Report End | |
| | DTM02 | 373 Date | X DT 8/8 |
| | | Date expressed as CCYYMMDD | |
| | DTM03 | 337 Time | X TM 4/8 |
| | | 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 |
| | | 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 | |
| X | DTM05 | 1250 Date Time Period Format Qualifier | X ID 2/3 |
| | | Code indicating the date format, time format, or date and time format | |
| | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | DTM06 | 1251 Date Time Period | X AN 1/35 |
| | | Expression of a date, a time, or range of dates, times or dates and times | |

Segment: **N1** Name

Position: 080

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 1

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

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 - 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|-------------|---|-------------------|
| >> | N101 | 98 Entity Identifier Code | M ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | AG Agent/Agency | |
| | | BT Bill-to-Party | |
| | | DB Distributor Branch | |
| | | DS Distributor | |
| | | MF Manufacturer of Goods | |
| | | ST Ship To | |
| | | WH Warehouse | |
| | N102 | 93 Name | X AN 1/60 |
| | | Free-form name | |
| | N103 | 66 Identification Code Qualifier | X ID 1/2 |
| | | Code designating the system/method of code structure used for Identification Code (67) | |
| | | 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | N104 | 67 Identification Code | X AN 2/80 |
| | | Code identifying a party or other code | |
| X | N105 | 706 Entity Relationship Code | O ID 2/2 |
| | | Code describing entity relationship | |
| | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | N106 | 98 Entity Identifier Code | O ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | |

Refer to 0014010846 Data Element Dictionary for acceptable code values.

Segment: **N2 Additional Name Information**
Position: 090
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N3** Address Information
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4 Geographic Location**
Position: 110
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

| Ref. | Data | Attributes |
|-------------|--|-------------------|
| Des. | Element Name | |
| N401 | 19 City Name Free-form text for city name | O AN 2/30 |
| N402 | 156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| N403 | 116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| N404 | 26 Country Code Code identifying the country | O ID 2/3 |
| N405 | 309 Location Qualifier Code identifying type of location | X ID 1/2 |
| N406 | 310 Location Identifier Code which identifies a specific location | O AN 1/30 |

Segment: **LIN** Item Identification

Position: 010

Loop: LIN Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 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.

Data Element Summary

| Ref. | Data | | |
|-------------|----------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
| LIN01 | 350 | Assigned Identification | O AN 1/20 |
| | | Alphanumeric characters assigned for differentiation within a transaction set | |
| >> | LIN02 | 235 Product/Service ID Qualifier | M ID 2/2 |
| | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | MG Manufacturer's Part Number | |
| >> | LIN03 | 234 Product/Service ID | M AN 1/48 |
| | | Identifying number for a product or service | |
| | | Product Number. | |
| X | LIN04 | 235 Product/Service ID Qualifier | X ID 2/2 |
| | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |

| | | | | |
|---|-------|-----|---|-----------|
| X | LIN05 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN06 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN07 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN08 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN09 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN10 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN11 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN12 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN13 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN14 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN15 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN16 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN17 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN18 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |

| | | | | |
|---|-------|-----|---|-----------|
| X | LIN19 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN20 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN21 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN22 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN23 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN24 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN25 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN26 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN27 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN28 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN29 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |
| X | LIN30 | 235 | Product/Service ID Qualifier | X ID 2/2 |
| | | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | LIN31 | 234 | Product/Service ID | X AN 1/48 |
| | | | Identifying number for a product or service | |

Segment: **QTY** Quantity
Position: 320
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

| Ref. | Data | | | Attributes |
|-------------|----------------|-------------|--|-----------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | | |
| >> | QTY01 | 673 | Quantity Qualifier | M ID 2/2 |
| | | | Code specifying the type of quantity | |
| | | | 17 Quantity on Hand | |
| | | | 20 Unusable Quantity | |
| | | | 27 Committed Quantity | |
| | | | 38 Original Quantity | |
| | | | 39 Shipped Quantity | |
| | | | 75 Receipts | |
| | | | AJ Daily Adjustments | |
| | QTY02 | 380 | Quantity | X R 1/15 |
| | | | Numeric value of quantity | |
| | QTY03 | C001 | Composite Unit of Measure | O |
| | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | |
| >> | C00101 | 355 | Unit or Basis for Measurement Code | M ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| X | C00102 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| X | C00103 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| X | C00104 | 355 | Unit or Basis for Measurement Code | O ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | C00105 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |

| | | | | |
|---|--------|------|--|-----------|
| X | C00106 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O R 1/10 |
| X | C00107 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 0014010846 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | C00108 | 1018 | Exponent Power to which a unit is raised | O R 1/15 |
| X | C00109 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O R 1/10 |
| X | C00110 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 0014010846 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | C00111 | 1018 | Exponent Power to which a unit is raised | O R 1/15 |
| X | C00112 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O R 1/10 |
| X | C00113 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 0014010846 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | C00114 | 1018 | Exponent Power to which a unit is raised | O R 1/15 |
| X | C00115 | 649 | Multiplier Value to be used as a multiplier to obtain a new value | O R 1/10 |
| X | QTY04 | 61 | Free-Form Message Free-form information | X AN 1/30 |

Segment: **N1** Name

Position: 450

Loop: N1 Optional

Level: Detail

Usage: Optional

Max Use: 1

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

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 - 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

| Ref. | Data | Attributes |
|-------------|---|-------------------|
| Des. | Element Name | |
| >> | N101 98 Entity Identifier Code | M ID 2/3 |
| | Code identifying an organizational entity, a physical location, property or an individual | |
| | ST Ship To | |
| | N102 93 Name | X AN 1/60 |
| | Free-form name | |
| | N103 66 Identification Code Qualifier | X ID 1/2 |
| | Code designating the system/method of code structure used for Identification Code (67) | |
| | 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | N104 67 Identification Code | X AN 2/80 |
| | Code identifying a party or other code | |
| X | N105 706 Entity Relationship Code | O ID 2/2 |
| | Code describing entity relationship | |
| | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |
| X | N106 98 Entity Identifier Code | O ID 2/3 |
| | Code identifying an organizational entity, a physical location, property or an individual | |
| | Refer to 0014010846 Data Element Dictionary for acceptable code values. | |

Segment: **N2** Additional Name Information
Position: 460
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N3** Address Information
Position: 470
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4 Geographic Location**
Position: 480
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

| Ref. | Data | Attributes |
|-------------|--|-------------------|
| Des. | Element Name | |
| N401 | 19 City Name Free-form text for city name | O AN 2/30 |
| N402 | 156 State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| N403 | 116 Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| N404 | 26 Country Code Code identifying the country | O ID 2/3 |
| N405 | 309 Location Qualifier Code identifying type of location | X ID 1/2 |
| N406 | 310 Location Identifier Code which identifies a specific location | O AN 1/30 |

Segment: **CTT Transaction Totals**

Position: 010

Loop:

Level: Summary

Usage: Optional

Max Use: 1

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

Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.

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

Semantic Notes:

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

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Attributes</u> |
|-------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> <u>Name</u> | |
| >> CTT01 | 354 Number of Line Items | M N0 1/6 |
| | Total number of line items in the transaction set | |
| CTT02 | 347 Hash Total | O R 1/10 |
| | Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. | |
| CTT03 | 81 Weight | X R 1/10 |
| | Numeric value of weight | |
| CTT04 | 355 Unit or Basis for Measurement Code | X ID 2/2 |
| | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| CTT05 | 183 Volume | X R 1/8 |
| | Value of volumetric measure | |
| CTT06 | 355 Unit or Basis for Measurement Code | X ID 2/2 |
| | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| CTT07 | 352 Description | O AN 1/80 |
| | A free-form description to clarify the related data elements and their content | |

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

| Ref. | Data | | |
|-------------|----------------|-------------|---|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
| >> | SE01 | 96 | Number of Included Segments Total number of segments included in a transaction set including ST and SE segments M N0 1/10 |
| >> | SE02 | 329 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set M AN 4/9 |