



***EDI X12 004010 830
Implementation Guide***

Planning Schedule with Release Capability

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| 2.0 Added to IG 1. REF – Item level segment - added - This segment is required for Warehouse& Storage details. 2. PO4– Item level segment - added - This segment is required for Package details. 3. FST – Item level segment - modified - This segment now includes Firm, Trade Off, and Planning. 2.1 Corrected errors in BFR - Header level segment 1. BFR03 – This element is not mandatory. 2. BFR11 – This element has been added to segment. | | | |

830 Planning Schedule with Release Capability

Functional Group ID=**PS**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business practice relative to the transfer of forecasting/material release information between organizations. The planning schedule transaction may be used in various ways or in a combination of ways, such as: (1) a simple forecast; (2) a forecast with the buyer's authorization for the seller to commit to resources, such as labor or material; (3) a forecast that is also used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may also contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

Heading:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|--------------|-----------------|----------------|---|------------------|----------------|--------------------|---------------------------|
| M | 010 | ST | Transaction Set Header | M | 1 | | |
| M | 020 | BFR | Beginning Segment for Planning Schedule | M | 1 | | |
| O | 140 | PID | Product/Item Description | O | 200 | | |
| LOOP ID - N1 | | | | | | 200 | |
| M | 230 | N1 | Name | O | 1 | | |
| M | 250 | N3 | Address Information | O | 2 | | |
| M | 260 | N4 | Geographic Location | O | 1 | | |
| M | 280 | PER | Administrative Communications Contact | O | 3 | | |

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 | | | | | | >1 | |
| M | 010 | LIN | Item Identification | M | 1 | | |
| M | 020 | UIT | Unit Detail | O | 1 | | |
| O | 080 | PID | Product/Item Description | O | 1000 | | |
| M | 120 | PO4 | Item Physical Details | O | 1 | | |
| M | 140 | REF | Reference Identification | O | 12 | | |
| LOOP ID - FST | | | | | | >1 | |
| M | 410 | FST | Forecast Schedule | O | 1 | | n2 |
| M | 415 | QTY | Quantity | O | >1 | | |
| LOOP ID - SHP | | | | | | 25 | |
| M | 470 | SHP | Shipped/Received Information | O | 1 | | |
| M | 480 | REF | Reference Identification | O | 5 | | |

Summary:

| | <u>Pos.</u> <u>No.</u> | <u>Seg.</u> <u>ID</u> | <u>Name</u> | <u>Req.</u> <u>Des.</u> | <u>Max.Use</u> | <u>Loop</u> <u>Repeat</u> | <u>Notes and</u> <u>Comments</u> |
|---|---------------------------|--------------------------|-------------------------|----------------------------|----------------|------------------------------|-------------------------------------|
| M | 010 | CTT | Transaction Totals | O | 1 | | n3 |
| M | 020 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes

1. QTY is used to specify supplemental quantities relevant to the forecast function. However, QTY is not related to the actual forecast quantity in the FST segments.
2. At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
3. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

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

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|---|-------------------|
| M | ST01 | 143 | Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability | M ID 3/3 |
| M | ST02 | 329 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9 |

Segment: **BFR** Beginning Segment for Planning Schedule
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

Syntax Notes: 1 At least one of BFR02 or BFR03 is required.

Semantic Notes: 1 If BFR01 contains the value "04" (Net Change), BFR09 is required.
 2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
 3 BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
 4 BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
 5 BFR08 is the date forecast generated: The date the forecast data was generated.

Comments:

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | BFR01 | 353 | Transaction Set Purpose Code Code identifying purpose of transaction set 01 New 05 Replace | M ID 2/2 |
| M | BFR02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | X AN 1/30 |
| | BFR03 | 328 | Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction | X AN 1/30 |
| M | BFR04 | 675 | Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based | M ID 2/2 |
| M | BFR05 | 676 | Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities | M ID 1/1 |
| M | BFR06 | 373 | Date Date expressed as CCYYMMDD Horizon Start Date | M DT 8/8 |
| | BFR07 | 373 | Date Date expressed as CCYYMMDD Horizon End Date | O DT 8/8 |
| M | BFR08 | 373 | Date Date expressed as CCYYMMDD Generation Date | M DT 8/8 |
| | BFR09 | 373 | Date Date expressed as CCYYMMDD | O DT 8/8 |
| | BFR10 | 367 | Contract Number | O AN 1/30 |

| | | | | |
|----------|--------------|------------|--|------------------|
| M | BFR11 | 324 | Contract number | |
| | | | Purchase Order Number | O AN 1/22 |
| | | | Identifying number for Purchase Order assigned by the orderer/purchaser | |
| | | | Scheduling agreement number. Return this number in the PRF01 of the ASN. | |

| | | |
|------------------------|---|---------------------------------|
| Segment: | PID | Product/Item Description |
| Position: | 140 | |
| Loop: | | |
| Level: | Heading | |
| Usage: | Optional | |
| Max Use: | 200 | |
| Purpose: | To describe a product or process in coded or free-form format | |
| Syntax Notes: | <ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required. | |
| Semantic Notes: | <ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05. | |
| Comments: | <ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03. | |

Data Element Summary

| <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------------------------|-------------------------------|--|-------------------|
| PID01 | 349 | Item Description Type | M ID 1/1 |
| | | Code indicating the format of a description | |
| | | F Free-form | |
| PID05 | 352 | Description | X AN 1/80 |
| | | A free-form description to clarify the related data elements and their content | |
| | | Scheduling agreement header text | |

Segment: **N1** Name
Position: 220
Loop: HL-N1
Level: Detail
Usage: Mandatory
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.
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.
Notes: This segment is required for Selling Party, Ship From & Ship To

Data Element Summary

| Ref. | Data | | | |
|------|---------|---|------------|--|
| Des. | Element | Name | Attributes | |
| M | N101 | 98 Entity Identifier Code | M ID 2/3 | |
| | | Code identifying an organizational entity, a physical location, property or an individual | | |
| | | BY Buying Party (Purchaser) | | |
| | | SE Selling Party | | |
| | | SF Ship From | | |
| | | ST Ship To | | |
| M | N102 | 93 Name | X AN 1/25 | |
| | | Free-form name | | |
| | | If N101 = "BY" then N102= Buying Party | | |
| | | If N101 = " SE " then N102= Selling Party | | |
| | | If N101 = "SF" then N102= Name of the Factory Originating the Shipment | | |
| | | If N101 = "ST" then N102= Ship To Details | | |

Segment: **N3** Address Information
Position: 250
Loop: N1 Optional
Level: Heading
Usage: Optional(Must use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

This segment is required for Ship From, Selling Party, Ship From & Ship To

Data Element Summary

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

Segment: **N4** Geographic Location
Position: 260
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.
Notes: This segment is required for Ship From, Selling Party, Ship From & Ship To

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | N401 | 19 | City Name Free-form text for city name | O AN 2/30 |
| M | N402 | 156 | State or Province Code Code (Standard State/Province) as defined by appropriate government agency | O ID 2/2 |
| M | N403 | 116 | Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | O ID 3/15 |
| M | N404 | 26 | Country Code Code identifying the country | O ID 2/3 |

Segment: **PER** Administrative Communications Contact

Position: 060

Loop:

Level: Heading

Usage: Optional

Max Use: 3

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

Syntax Notes: 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Data Element Summary

| M | Ref. | Data | Name | Attributes |
|---|-------|---------|--|------------------|
| | Des. | Element | | |
| | PER01 | 366 | Contact Function Code | M ID 2/2 |
| | | | Code identifying the major duty or responsibility of the person or group named | |
| | | | BD Buyer Name or Department | |
| | PER02 | 93 | Name | O AN 1/60 |
| | | | Free-form name | |
| | PER03 | 365 | Communication Number Qualifier | X ID 2/2 |
| | | | Code identifying the type of communication number | |
| | | | TE Telephone | |
| | PER04 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |
| | PER05 | 365 | Communication Number Qualifier | X ID 2/2 |
| | | | Code identifying the type of communication number | |
| | | | EM Electronic Mail | |
| | PER06 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |

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.

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

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | LIN01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set | O AN 1/20 |
| M | LIN02 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number | M ID 2/2 |
| M | LIN03 | 234 | Product/Service ID Identifying number for a product or service Buyer's Part Number | M AN 1/48 |
| | LIN04 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level (Version Number Component) | X ID 2/2 |
| | LIN05 | 234 | Product/Service ID Identifying number for a product or service Engineering Change Level (Version Number Component) | X AN 1/48 |
| | LIN06 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's (Seller's) Part Number | X ID 2/2 |
| | LIN07 | 234 | Product/Service ID Identifying number for a product or service Vendor's (Seller's) Part Number | X AN 1/48 |

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes: 1 If UIT03 is present, then UIT02 is required.
Semantic Notes:
Comments:

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | UIT01 | C001 | Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use) | M |
| M | C00101 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken EA Each | M ID 2/2 |
| | UIT02 | 212 | Unit Price Price per unit of product, service, commodity, etc. | X R 1/17 |
| | UIT03 | 639 | Basis of Unit Price Code Code identifying the type of unit price for an item | O ID 2/2 |

| | | |
|------------------------|---|---------------------------------|
| Segment: | PID | Product/Item Description |
| Position: | 080 | |
| Loop: | LIN | Mandatory |
| Level: | Detail | |
| Usage: | Optional(Must Use) | |
| Max Use: | 1000 | |
| Purpose: | To describe a product or process in coded or free-form format | |
| Syntax Notes: | <ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required. | |
| Semantic Notes: | <ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05. | |
| Comments: | <ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03. | |

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|---|-------------------|
| M | PID01 | 349 | Item Description Type Code indicating the format of a description F Free-form | M ID 1/1 |
| M | PID05 | 352 | Description A free-form description to clarify the related data elements and their content Scheduling agreement line item text | X AN 1/80 |

| | |
|------------------------|--|
| Segment: | PO4 Item Physical Details |
| Position: | 120 |
| Loop: | LIN Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify the physical qualities, packaging, weights, and dimensions relating to the item |
| Syntax Notes: | <ol style="list-style-type: none"> 1 If either PO402 or PO403 is present, then the other is required. 2 If PO405 is present, then PO406 is required. 3 If either PO406 or PO407 is present, then the other is required. 4 If either PO408 or PO409 is present, then the other is required. 5 If PO410 is present, then PO413 is required. 6 If PO411 is present, then PO413 is required. 7 If PO412 is present, then PO413 is required. 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required. 9 If PO417 is present, then PO416 is required. 10 If PO418 is present, then PO404 is required. |
| Semantic Notes: | <ol style="list-style-type: none"> 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package. 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers. 3 PO417 is the ending package identifier in a range of identifiers. 4 PO418 is the number of packages in this layer. |
| Comments: | <ol style="list-style-type: none"> 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ". 2 PO413 defines the unit of measure for PO410, PO411, and PO412. |

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|--------------|---|-------------|-------------------|
| PO401 | 356 | Pack | O N0 1/6 |
| M | The number of inner containers, or number of eaches if there are no inner containers, per outer container | | |
| | Rounding value for purchase order quantity | | |

Segment: **REF** Reference Identification
Position: 140
Loop: LIN Mandatory
Level: Detail
Usage: Mandatory
Max Use: 12
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification 98 Container Specification Number BO Bin Location Number (DLOC) LU Location Number (ULOC) 4L Location-specific Services Reference Number (ULOC2) M1 Material Storage Location WS Warehouse storage location number IR Storage Information Code 72 Schedule Reference Number | M ID 2/3 |
| M | REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier If REF01 = "98" then REF02 = Container Specification Number (Description of container requirements) If REF01 = "BO" then REF02 = Bin Location Number (DLOC) If REF01 = "LU" then REF02 = Usage Location (ULOC) If REF01 = "4L" then REF02 = Usage Location 2 Number (ULOC2) If REF01 = "M1" then REF02 = Material Storage Location If REF01 = "WS" then REF02 = Warehouse storage location number (Warehouse Number / Warehouse Complex) If REF01 = "IR" then REF02 = Storage Information Code (Storage Type) If REF01 = "72" then REF02 = Schedule Reference Number (Production scheduler (Stockkeeper code) | X AN 1/30 |

| | |
|------------------------|---|
| Segment: | FST Forecast Schedule |
| Position: | 410 |
| Loop: | FST Mandatory |
| Level: | Detail |
| Usage: | Mandatory |
| Max Use: | 1 |
| Purpose: | To specify the forecasted dates and quantities |
| Syntax Notes: | <ol style="list-style-type: none"> 1 If either FST06 or FST07 is present, then the other is required. 2 If either FST08 or FST09 is present, then the other is required. |
| Semantic Notes: | <ol style="list-style-type: none"> 1 If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval. |
| Comments: | <ol style="list-style-type: none"> 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly, quarterly, etc.) or the start date of a flexible interval. 2 FST06 qualifies the time in FST07. The purpose of the FST07 element is to express the specific time of day in a 24-hour clock to satisfy "just-in-time" requirements. As an alternative, the ship/delivery pattern segment (SDP) may be used to define an approximate time, such as a.m. or p.m. |

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | FST01 | 380 | Quantity Numeric value of quantity | M R 1/15 |
| M | FST02 | 680 | Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm Z Trade off D Planning | M ID 1/1 |
| M | FST03 | 681 | Forecast Timing Qualifier Code specifying interval grouping of the forecast D Discrete | M ID 1/1 |
| M | FST04 | 373 | Date Date expressed as CCYYMMDD | M DT 8/8 |

Segment: **QTY** Quantity
Position: 415
Loop: FST Mandatory
Level: Detail
Usage: Mandatory
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

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--------------------------------------|-------------------|
| M | QTY01 | 673 | Quantity Qualifier | M ID 2/2 |
| | | | Code specifying the type of quantity | |
| | | | 02 Cumulative Quantity | |
| M | QTY02 | 380 | Quantity | X R 1/15 |
| | | | Numeric value of quantity | |

Segment: SHP Shipped/Received Information

Position: 470

Loop: SHP Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify shipment and/or receipt information

- Syntax Notes:**
- 1 If SHP01 is present, then SHP02 is required.
 - 2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.
 - 3 If SHP04 is present, then SHP03 is required.
 - 4 If SHP05 is present, then SHP03 is required.

Semantic Notes: 1 SHP04 is the date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).

2 SHP06 is the cumulative quantity end date.

Comments: 1 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.

2 If SHP01 equals "02", "07", "08", "09", or "10" (indicating cumulative quantities), then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | SHP01 | 673 | Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity | O ID 2/2 |
| M | SHP02 | 380 | Quantity Numeric value of quantity | X R 1/15 |
| M | SHP03 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received 051 Cumulative Quantity Start | X ID 3/3 |
| M | SHP04 | 373 | Date Date expressed as CCYYMMDD | X DT 8/8 |

Segment: **REF** Reference Identification
Position: 480
Loop: SHP Mandatory
Level: Detail
Usage: Mandatory
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:

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

Semantic Notes:

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

Comments:

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|---|-------------------|
| M | REF01 | 128 | Reference Identification Qualifier Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID) | M ID 2/3 |
| M | REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Shipper's Identifying Number for Shipment (SID) | X 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

| M | Ref. | Data | Name | Attributes |
|---|-------|---------|--|------------|
| | Des. | Element | | |
| M | 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. | |

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

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