**Plex Systems**

IMPLEMENTATION GUIDELINES FOR
ANSI X12 EDI CONVENTIONS

830 TRANSACTION SET
MATERIAL RELEASE
Version 004010
Revised November 18, 2009

# 830 Material Release

**Functional Group ID=PS**

## Introduction:

This Standard 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:

|  | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
| M | 010 | ST | Transaction Set Header | M | 1 | | |
| M | 020 | BFR | Beginning Segment for Planning Schedule | M | 1 | | |
|  | 130 | DTM | Date/Time Reference | O | 10 | | |
|  | | | LOOP ID - N1 | | | 200 | |
| M | 230 | N1 | Name | M | 1 | | |
| M | 250 | N3 | Address Information | M | 2 | | |
| M | 260 | N4 | Geographic Location | M | 1 | | |
|  | 280 | PER | Administrative Communications Contact | O | 2 | | |

## Detail:

|  | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
|  | | | LOOP ID - LIN | | | >1 | |
| M | 010 | LIN | Item Identification | M | 1 | | |
|  | 020 | UIT | Unit Detail | O | 1 | | |
|  | 080 | PID | Product/Item Description | O | 1000 | | |
|  | 150 | PER | Administrative Communications Contact | O | 3 | | |
|  | 230 | ATH | Resource Authorization | O | 20 | | |
|  | 678 | SDP | Ship/Delivery Pattern | M | 1 | | |
|  | | | LOOP ID - FST | | | >1 | |
|  | 410 | FST | Forecast Schedule | O | 1 | | n1 |
|  | | | LOOP ID - SHP | | | 25 | |
|  | 470 | SHP | Shipped/Received Information | O | 1 | | |

## Summary:

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

## Transaction Set Notes

1.  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.
2.  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**

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

| | | | |
|---|---|---|---|
| **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. | |
| | **6** | BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.) | |
| **Comments:** | | | |

## Data Element Summary

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| **M** | **BFR01** | **353** | **Transaction Set Purpose Code** | **M   ID 2/2** |
| | | | Code identifying purpose of transaction set | |
| | | | 05             Replace | |
| | **BFR02** | **127** | **Reference Identification** | **X   AN   1/30** |
| | | | | **X   AN   1/20** |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| | | | If a release number is not used this field is mandatory - either BFR02 or BFR03 must be used | |
| | **BFR03** | **328** | **Release Number** | **X   AN   1/30** |
| | | | | **X   AN   1/10** |
| | | | Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction | |
| | | | If a Reference ID is not used this field is mandatory - either BPR02 or BPR03 must be used | |
| **M** | **BFR04** | **675** | **Schedule Type Qualifier** | **M   ID 2/2** |
| | | | Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast | |
| | | | DL             Delivery Based | |
| | | | SH             Shipment Based | |
| **M** | **BFR05** | **676** | **Schedule Quantity Qualifier** | **M   ID 1/1** |
| | | | Code identifying the type of quantities used when defining a schedule or forecast | |
| | | | A             Actual Discrete Quantities | |
| | | | C             Cumulative Quantities | |
| **M** | **BFR07** | **373** | **Date** | **M   DT 8/8** |
| | | | Date expressed as CCYYMMDD | |

| | | | | | |
|---|---|---|---|---|---|
| | | | Forecast start date | | |
| **M** | **BFR08** | **373** | **Date** | **M** | **DT 8/8** |
| | | | Date expressed as CCYYMMDD | | |
| | | | Date forecast created | | |
| **O** | **BFR09** | **373** | **Date** | **M** | **DT 8/8** |
| | | | Date expressed as CCYYMMDD | | |
| | | | Date forecast updated | | |
| **M** | **BFR11** | **324** | **Purchase Order Number** | **O** | **AN 1/22** |
| | | | Purchase order | | |

| | | | |
|---|---|---|---|
| **Segment:** | **PER** Administrative Communications Contact | | |
| **Position:** | 060 | | |
| **Loop:** | N1 | | |
| **Level:** | Heading | | |
| **Usage:** | Optional | | |
| **Max Use:** | 2 | | |
| **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**

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| M | PER03 | 365 | **Communication Number Qualifier** | M ID 2/2 |
| | | | Code identifying the type of communication number. | |
| | | | FX       Facsimile | |
| | | | TE       Telephone | |
| M | PER04 | 364 | **Communication Number** | X  AN  1/80 |
| | | | | M  AN  1/15 |
| | | | Complete communications number including country or area code when applicable. | |

**Segment:DTM** Date/Time Reference

| | |
|---|---|
| **Position:** | 130 |
| **Loop:** | |
| **Level:** | Heading |
| **Usage:** | Optional |
| **Max Use:** | 10 |
| **Purpose:** | To specify identifying information |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Comments:** | |

### Data Element Summary

| | Ref. Des. | Data Element | Name | | Attributes ANSI / BW Features |
|---|---|---|---|---|---|
| M | DTM01 | 374 | **Date/Time Qualifier** | | M ID 3/3 |
| | | | Date Code | | |
| | | | 168 | Release | |
| | DTM02 | 373 | **Date** | | X DT 8/8 |
| | | | CCCCMMDD | | |
| | DTM03 | 337 | **Time** | | X TM 6/6 |
| | | | HHMMSS | | |

| | | | |
|---|---|---|---|
| **Segment:** | **N1** Name | | |
| **Position:** | 230 | | |
| **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

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| **M** | **N101** | **98** | **Entity Identifier Code** | **M ID 4/4** |
| | | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | | MI Planning Schedule/Material Release Issuer | |
| | | | ST Ship To | |
| | | | SU Supplier/Manufacturer | |
| | | | SF Ship From | |
| | **N102** | **93** | **Name** | **X AN 1/60** |
| | | | Free-form name | |
| | **N103** | **66** | **Identification Code Qualifier** | **X ID ½** |
| | | | Code designating the system/method of code structure used for Identification Code (67) | |
| | | | 1 D-U-N-S Number, Dun & Bradstreet | |
| | | | 92 Assigned by Buyer or Buyer's Agent | |
| | **N104** | **67** | **Identification Code** | **X AN 2/80** |
| | | | | **X AN 2/30** |
| | | | Code identifying a party or other code | |

| | | | | | |
|---|---|---|---|---|---|
| **Segment:** | | **N3** Address Information | | | |
| **Position:** | | 250 | | | |
| **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.<br>Des. | Data<br>Element | Name | Attributes<br>ANSI /<br>BW Features |
|---|---|---|---|---|
| M | N301 | 166 | **Address Information** | M AN 1/55 |
| | | | | M AN 1/40 |
| | | | Address information | |
| | N302 | 166 | **Address Information** | O AN 1/55 |
| | | | | O AN 1/40 |
| | | | Address information | |

| | **N4** Geographic Location |
|---|---|
| **Segment:** | |
| **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. |

**Data Element Summary**

| Ref. Des. | Data Element | Name | Attributes ANSI / BW Features | | |
|---|---|---|---|---|---|
| **N401** | **19** | **City Name** | **O** | **AN** | **2/30** |
| | | | O | AN | 2/10 |
| | | Free-form text for city name | | | |
| **N402** | **156** | **State or Province Code** | O | ID | 2/2 |
| | | Code (Standard State/Province) as defined by appropriate government agency | | | |
| **N403** | **116** | **Postal Code** | O | ID | 3/15 |
| | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) | | | |
| **N404** | **26** | **Country Code** | O | ID | 2/3 |
| | | Code identifying the country | | | |

| | | |
|---|---|---|
| **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. Des. | Data Element | Name | Attributes ANSI / BW Features | |
|---|---|---|---|---|---|
| | **LIN 01** | **350** | **Assigned Identification** | **O  AN  1/20** | |
| | | | | **O  AN  1/10** | |
| | | | Not Used | | |
| **M** | **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) | | |
| | | | <mark>Buyers part number is mandatory and will always be in LIN04.</mark> | | |
| | | | BP             Buyer's Part Number | | |
| **M** | **LIN03** | **234** | **Product/Service ID** | **M  AN  1/48** | |
| | | | | **M  AN  1/25** | |
| | | | Identifying number for a product or service | | |
| | **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) | | |
| | | | PO            Purchase Order Number | | |
| | **LIN05** | **234** | **Product/Service ID** | **X  AN  1/48** | |
| | | | | **X  AN  1/15** | |
| | | | Identifying number for a product or service | | |

**LIN06**       **235**       **Product/Service ID Qualifier**

EC                    Engineering Change Level

**LIN07**       **234**       **Product/Service ID**

Identifying number for product

| Segment: | **UIT** Unit Detail |
|---|---|
| **Position:** | 020 |
| **Loop:** | LIN        Mandatory |
| **Level:** | Detail |
| **Usage:** | Optional |
| **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

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| M | UIT01 | 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

| | |
|---|---|
| CH | Container |
| DZ | Dozen |
| EA | Each |
| FT | Foot |
| GA | Gallon |
| LB | Pound |
| PR | Pair |
| ST | Set |
| UN | Unit |
| YD | Yard |

| | | |
|---|---|---|
| **Segment:** | **PID** Product/Item Description | |
| **Position:** | 080 | |
| **Loop:** | LIN Mandatory | |
| **Level:** | Detail | |
| **Usage:** | Optional | |
| **Max Use:** | 1000 | |
| **Purpose:** | To describe a product or process in coded or free-form format | |
| **Syntax Notes:** | | |
| **Semantic Notes:** | | |
| **Comments:** | | |
| **Notes:** | | |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| M | 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 |
| | | | | X AN 1/25 |
| | | | A free-form description to clarify the related data elements and their content | |

| Segment: | **PER** Administrative Communications Contact |
|---|---|
| **Position:** | 150 |
| **Loop:** | LIN          Mandatory |
| **Level:** | Detail |
| **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**

| | Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|---|
| O | PER01 | 366 | **Contact Function Code** | **M    ID 2/2** |
| | | | Code identifying the major duty or responsibility of the person or group named | |
| | | | EX                    Expeditor | |
| | | | BD                    Buyer Name or Department | |
| | | | Buyer or material scheduler name | |
| | PER02 | 93 | **Name** | **O    AN   1/60** |
| | | | | **O    AN   1/20** |
| | | | 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** |
| | | | | **X   AN   1/15** |
| | | | Complete communications number including country or area code when applicable | |

| | |
|---|---|
| **Segment:** | **ATH** Resource Authorization |
| **Position:** | 230 |
| **Loop:** | LIN        Mandatory |
| **Level:** | Detail |
| **Usage:** | Optional |
| **Max Use:** | 20 |
| **Purpose:** | To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule |
| **Syntax Notes:** | 1    At least one of ATH02 or ATH03 is required. |
| | 2    If ATH03 is present, then ATH05 is required. |
| | 3    If ATH04 is present, then ATH05 is required. |
| **Semantic Notes:** | 1    ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01. |
| | 2    ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). |
| | 3    ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other. |
| **Comments:** | 1    It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller. |
| | 2    ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease. |

**Data Element Summary**

| | Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|---|
| M | ATH01 | 672 | **Resource Authorization Code** | M | ID 3/3 |
| | | | Code identifying the resource which the buyer is authorizing the seller to commit to | | |
| | | | FI        Finished (Labor, Material, and Overhead/Burden) | | |
| | | | MT        Material | | |
| | | | PQ        Previous Quantity Authorized | | |
| | ATH02 | 373 | **Date** | X | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | | | Authorization through date | | |
| | ATH03 | 380 | **Quantity** | X | R 1/15 |
| | | | Numeric value of quantity | | |
| | | | Authorization cumulated quantity | | |
| | ATH05 | 373 | **Date** | X | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | | | Start date for cumulative quantity authorization | | |

**Segment:** **SDP** Ship/Delivery Pattern

| | |
|---|---|
| **Position:** | 678 |
| **Loop:** | LIN Mandatory |
| **Level:** | Detail |
| **Usage:** | Mandatory |
| **Max Use:** | 1000 |
| **Purpose:** | To identify specific ship/delivery requirements |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Comments:** | |
| **Notes:** | |

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | Attributes<br>ANSI /<br>BW Features |
|---|---|---|---|---|
| M | SDP01 | 678 | Ship/Delivery Code | M ID 1/2 |
| | | | Code which specifies the delivery pattern | |
| | | | N           As Directed | |
| | SDP02 | 678 | Ship/Delivery Code | X ID 1/2 |
| | | | Code which specifies the routine delivery pattern | |

| Segment: | **FST** Forecast Schedule |
|---|---|
| **Position:** | 410 |
| **Loop:** | FST Optional |
| **Level:** | Detail |
| **Usage:** | Optional |
| **Max Use:** | 1 |
| **Purpose:** | To specify the forecasted dates and quantities |
| **Syntax Notes:** | **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:** | **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:** | **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**

| | Ref. Des. | Data Element | Name | | Attributes ANSI / BW Features |
|---|---|---|---|---|---|
| M | FST01 | 380 | **Quantity** | | M R 1/15 |
| | | | Numeric value of quantity | | |
| M | FST02 | 680 | **Forecast Qualifier** | | M ID 1/1 |
| | | | Code specifying the sender's confidence level of the forecast data or an action associated with a forecast | | |
| | | | C | Firm | |
| | | | D | Planning | |
| M | FST03 | 681 | **Forecast Timing Qualifier** | | M ID 1/1 |
| | | | Code specifying interval grouping of the forecast | | |
| | | | C | Daily | |
| | | | D | Discrete | |
| | | | F | Flexible Interval (from Date X through Date Y) | |
| | | | M | Monthly Bucket (Calendar Months) | |
| | | | Q | Quarterly (Calendar Quarters) | |
| | | | T | Four week bucket (13 buckets per year) | |
| | | | W | Weekly Bucket (Monday through Sunday) | |
| | | | X | Weekly Bucket (7 day interval) | |
| M | FST04 | 373 | **Date** | | M DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | | | Scheduled date | | |

**Segment:** **SHP** Shipped/Received Information

| | |
|---|---|
| **Position:** | 470 |
| **Loop:** | SHP |
| **Level:** | Detail |
| **Usage:** | Used |
| **Max Use:** | 2 |
| **Purpose:** | To specify shipment and/or receipt information. |
| **Syntax Notes:** | |
| **Semantic Notes:** | |
| **Comments:** | |
| **Notes:** | |

### Data Element Summary

| Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|---|---|---|---|
| SHP01 | 673 | **Quantity Qualifier** | O ID 2/2 |
| | | Code which specifies the type of quantity | |
| | | 01         Discrete Quantity | |
| | | 02         Cumulative Quantity | |
| SHP02 | 380 | **Quantity** | X R 1/15 |
| | | Numeric Value of Quantity | |
| SHP03 | 374 | **Date/Time Qualifier** | X ID 3/3 |
| | | Code which specifies the type of date. | |
| | | 011        Shipped | |
| | | 051        Cumulative Quantity Start | |
| SHP04 | 373 | **Date** | O DT 8/8 |
| | | Date received (011) or Cumulative Quantity Start Date (CCYYMMDD) | |
| SHP06 | 373 | **Date** | O DT 8/8 |
| | | Cumulative Quantity End Date (CCYYMMDD) | |

**Segment:** **REF** Reference Numbers

|                     |                                      |
|---------------------|--------------------------------------|
| **Position:**       | 480                                  |
| **Loop:**           | SHP                                  |
| **Level:**          | Detail                               |
| **Usage:**          | Used                                 |
| **Max Use:**        | 2                                    |
| **Purpose:**        | To specify indentifying information  |
| **Syntax Notes:**   |                                      |
| **Semantic Notes:** |                                      |
| **Comments:**       |                                      |
| **Notes:**          |                                      |

**Data Element Summary**

| Ref. Des. | Data Element | Name | Attributes ANSI / BW Features |
|-----------|--------------|------|-------------------------------|
| SHP01 | 128 | Reference Qualifier | M ID 2/2 |
| | | Code qualifying the reference ID | |
| | | SI             Shipper | |
| SHP02 | 127 | Reference ID | 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**

| | Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|---|
| **M** | **CTT01** | **354** | **Number of Line Items** | **M** **N0 1/6** |
| | | | Total number of line items in the transaction set | |
| | | | Total number of LIN segments | |

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