



An EIDX Convention for Electronic Data Interchange

Transaction Set

830

Response to Forecast

Functional Group ID = PS
X12 Version 004 Release 010

September 2002

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|----------------|----------------------------------|
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INTRODUCTION

This section provides the necessary information to enable trading partners to utilize the ASC X12 standards for the exchange of electronic business documents within the electronics industry.

Hyperlinks in this document

This document contains hyperlinks to pages on the EIDX web site as well as hyperlinks to off-site web pages.

EIDX Site Pages. EIDX makes every effort to keep the structure of the site stable and to keep hyperlinks working. However, content does change, and some hyperlinks to www.eidx.org in this document may not work; hyperlinks may not work in the Portable Document Format (.pdf) representations. Navigation aids are provided on the site that may help you to find what you are looking for, as well as a search form. Go to the Publications link on the home page to get started. Use the link on the web site to contact EIDX for further information.

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Abbreviations and Notations

The navigation menu in the EIDX web site Publications area includes links to [Methodology and Legends for EIDX Models](#), the [EIDX Glossary](#) and the [EIDX Acronyms and Abbreviations](#)¹ collection.

General Recommendations and Best Practices

Recommendations and best practices that apply to all business processes, including recommendations for product identification and partner identification, are found in [EIDX Business Models – General Support](#)

Additional References

EIDX Scenarios and Component Models index at <http://www.eidx.org/publications/>:

- [Replenishment Scenarios](#)
- [EIDX Forecast Model 1 – Planning Forecast](#)
- [EIDX Forecast Model 2 – Material Release Schedule \(Embedded Release Forecast\)](#)
- [EIDX Forecast Model 3 – Consumption Schedule \(Supplier-Managed Inventory Forecast\)](#)
-

EIDX Supporting Documentation:

- [EIDX Forecast Models: General Information and Considerations](#)
- [Data Requirements](#)
- [Business Documents and Document Cross-Reference](#)

¹ <http://www.eidx.org/publications/abbrev/>

OVERVIEW

1. FUNCTIONAL DEFINITION

This 830 Planning Schedule with Release Capability standard provides the format and establishes the data contents of a planning schedule with release capability transaction set. This guideline convention provides the recommended standardized format and establishes the data contents of the Response to Forecast (RTF) for use within the context of an Electronic Data Interchange (EDI) environment.

Response to Forecast is a business process designed to link customer procurement and planning systems with the supplier's order and scheduling systems.

2. CONSIDERATIONS

See [EIDX Forecast Models: General Information and Considerations](#).

3. TRADING PARTNERS

1. Any buyer to any seller.

4. EIDX BUSINESS MODELS

The business models referenced in this document are from the EIDX Forecast/Planning Business Models. Refer to the listing below for business models used in this document.

| Model Number | EIDX Business Model | Supported by this Guideline | |
|--------------|--|-----------------------------|----|
| | | Yes | No |
| (1) | Planning Forecast (Set BFR04 to 'DL', 'PD', 'PS' or 'SH') | X | |
| (2) | Material Release Schedule (Embedded Release Forecast) (Set BFR04 to 'AD' or 'AS') | X | |
| (3) | Consumption Schedule (Supplier-Managed Inventory Forecast) (Set BFR04 to 'PR') | X | |

Business Model Examples

The Planning Schedule with Release Capability is best understood in the context of Replenishment Scenarios. The examples in this document depict the following business models:

Replenishment Scenario 1 – Planning Schedule with Discrete Purchase Order, uses Forecast Model 1 – Planning Forecast: This forecast is informational only, for capacity or lead-time planning purposes only. It is to convey anticipated demand or run rates. There is no authorization to build or ship except per trading partner agreement.

Replenishment Scenario 2 – Classic Material Release, uses Forecast Model 1 – Planning Forecast: A net rolling forecast is generated by the buying party to the selling party supported by a blanket order or contract which commits resources for a stated period, e.g., one year. The 862 Shipping Schedule transaction is sent as a release mechanism to provide daily or hourly Just-In-Time (JIT) releases.

Replenishment Model 3 – Embedded Release, uses Forecast Model 2 – Material Release Schedule: A net rolling forecast is generated by the buying party to the selling party supported by a blanket order or contract which commits resources for a stated period, e.g., one year. Firm requirements are explicitly marked. When requirement dates enter a pre-negotiated lead-time ship window they are released. Requirements falling outside of the lead-time ship window are marked as planned, i.e., resources are committed but cannot be released.

Replenishment Model 4 – Forecast-based Supplier-Managed Inventory (SMI), uses Forecast Model 3 – Consumption Schedule – Buyer sends planning schedule containing gross requirements(planned consumption), inventory levels, and min/max inventory targets. Seller nets forecast data to determine ship requirements based on buyer's inventory levels and min/max targets.

5. FIELD OF APPLICATION

This transaction may be applied for both national and international trade. It is based on universal commercial practice and is not dependent on the type of business or industry.

6. FORMAT

The transmission in the ASC X12 format uses two required envelopes. One is the ISA Interchange Control Header Segment, which starts and identifies an interchange of zero or more functional groups and interchange-related control segments. The ISA includes the sender's mailbox address and a receiver's mailbox address, and specifies which delimiter (a/k/a control, service) characters (data element separator, component element separator and data segment terminator) are being used.

There are no default service characters reserved for use in ASC X12. Allowable service characters should be discussed between trading partners.

The second required envelope is GS Functional Group Header, which indicates the beginning of a functional group and provides group level control information. The GS segment includes functional group level sender and receiver addresses, typically used by the trading partner(s) for internal routing. The GS also includes the GS08 ASC X12 Version/Release/Industry Identifier Code. EIDX does not recommend the use of an Industry Identifier code.

The functional groups are analogous to batches of like documents, i.e. purchase orders, invoices, etc. Each functional group contains one or more transaction sets (electronic documents).

Each transaction set is an ordered collection of segments.

Each segment is an ordered collection of data elements. Each segment has been assigned a two or three character identifier. This identifier marks the beginning of each segment. Each element within the segment is separated by a data element delimiter. EIDX recommends the use of the asterisk (*) character as a data element delimiter. A segment terminator character is used to mark the end of a segment.

Any shaded areas indicate EIDX recommended usage and comment.

7. ATTRIBUTES

Each data element has three ANSI attributes: Element usage, element type and minimum/maximum length. EIDX has additional usage indicated for optional segments and elements which are noted in the following table.

| MARGIN | ATTRIBUTE | DE NOTE | MEANING |
|----------|--------------------------------------|---------------------|---|
| Must Use | M (Mandatory) | N/A | If a segment, composite, or stand alone data element is mandatory according to the standard, EIDX cannot change the mandatory status on that component. <i>DATA ELEMENT within a COMPOSITE:</i> A data element within a composite is mandatory only if the composite is used. |
| X | C or X (Conditional) or O (Optional) | No note or NOT USED | EIDX has determined no value in supplying the composite or data element; hence, it need not be generated. |
| Blank | C or X (Conditional) or O (Optional) | REQUIRED | EIDX members agree that the data concerned must be sent. |
| Blank | C or X (Conditional) or O (Optional) | No note | Indicates that EIDX makes no recommendation regarding usage. The trading partners must agree on usage. |
| Blank | C or X (Conditional) or O (Optional) | ADVISED | EIDX has determined value in supplying the data element; hence, it should be generated. |
| Blank | C or X (Conditional) or O (Optional) | DEPENDING | Data must be sent if a particular defined condition or set of conditions exist. The associated conditions must be explained at the appropriate level of detail. |

8. CHANGES FROM VERSION 3020

Only segments, elements or codes used by EIDX are listed. Because this is a recast and EIDX is not adding codes to any code lists except codes identified in EIDX's guidelines for product and other identifiers. Type ID fields which have increased in maximum length are not listed.

- Proprietary code 'ZS' (Gross Requirements) replaced by X12 code 'PR' (Planning Requirements Based) in BFR04.
- Changes made to bring transaction into conformance with Product and Other ID supporting document; miscellaneous changes to code lists and notes.
- All date fields changed from 6/6 (YYMMDD) to 8/8 (CCYYMMDD)
- Max length of DE 93 Name (used in N102) changed from 35 to 60
- Max length of DE 67 Identification Code (used in N104) changed from 17 to 80
- Max length of DE 235 Product/Service ID (used in LIN segment) changed from 30 to 48.
- Requirement of DE 234 Product/Service ID Qualifier (used in LIN segment) changed from 'O' Optional to 'X' Conditional
- Requirement of DE 380 Quantity in QTY01 changed from 'M' Mandatory to 'X' Conditional.
- Max length of DE 212 Unit Price (used in UIT02) changed from 14 to 17.
- Max use of N1 loop in detail area (LIN.N1) changed from 5 to 200.
- Requirement for CTT segment changed from 'M' Mandatory to 'O' Optional.
- Max length of DE 96 Number of Included Segments in SE01 changed from 6 to 10.

SEGMENT TABLES

830 Response to Forecast – List of Used and Not Used Segments

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 | | |
| Not Used | 025 | XPO | Preassigned Purchase Order Numbers | O | >1 | | |
| Not Used | 040 | CUR | Currency | O | 1 | | |
| | 050 | REF | Reference Identification | O | 12 | | |
| | 060 | PER | Administrative Communications Contact | O | 3 | | |
| Not Used | 070 | TAX | Tax Reference | O | 3 | | |
| Not Used | 080 | FOB | F.O.B. Related Instructions | O | 1 | | |
| Not Used | 090 | CTP | Pricing Information | O | 25 | | |
| Not Used | 100 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 | | |
| Not Used | 110 | CSH | Sales Requirements | O | 1 | | |
| Not Used | 120 | ITD | Terms of Sale/Deferred Terms of Sale | O | 2 | | |
| Not Used | 130 | DTM | Date/Time Reference | O | 10 | | |
| Not Used | 140 | PID | Product/Item Description | O | 200 | | |
| Not Used | 150 | MEA | Measurements | O | 40 | | |
| Not Used | 160 | PWK | Paperwork | O | 25 | | |
| Not Used | 170 | PKG | Marking, Packaging, Loading | O | 25 | | |
| Not Used | 180 | TD1 | Carrier Details (Quantity and Weight) | O | 2 | | |
| Not Used | 190 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | |
| Not Used | 200 | TD3 | Carrier Details (Equipment) | O | 12 | | |
| Not Used | 210 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | | |
| Not Used | 220 | MAN | Marks and Numbers | O | 10 | | |
| LOOP ID – N1 | | | | | | 200 | |
| | 230 | N1 | Name | O | 1 | | |
| | 240 | N2 | Additional Name Information | O | 2 | | |
| | 250 | N3 | Address Information | O | 2 | | |
| | 260 | N4 | Geographic Location | O | 1 | | |
| Not Used | 270 | REF | Reference Identification | O | 12 | | |
| | 280 | PER | Administrative Communications Contact | O | 3 | | |
| Not Used | 290 | FOB | F.O.B. Related Instructions | O | 1 | | |
| LOOP ID – LM | | | | | | >1 | |
| Not Used | 300 | LM | Code Source Information | O | 1 | | |
| Not Used | 310 | 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 | | | | | >1 | |

| | | | | | | |
|---------------|-----|-----|--|---|------|----|
| M | 010 | LIN | Item Identification | M | 1 | |
| | 020 | UIT | Unit Detail | O | 1 | |
| Not Used | 021 | DTM | Date/Time Reference | O | 10 | |
| Not Used | 030 | CUR | Currency | O | 1 | |
| Not Used | 060 | PO3 | Additional Item Detail | O | 25 | |
| Not Used | 070 | CTP | Pricing Information | O | 25 | |
| Not Used | 080 | PID | Product/Item Description | O | 1000 | |
| Not Used | 090 | MEA | Measurements | O | 40 | |
| Not Used | 100 | PWK | Paperwork | O | 25 | |
| Not Used | 110 | PKG | Marking, Packaging, Loading | O | 25 | |
| | 120 | PO4 | Item Physical Details | O | 1 | |
| Not Used | 130 | PRS | Part Release Status | O | 1 | |
| | 140 | REF | Reference Identification | O | 12 | |
| | 150 | PER | Administrative Communications Contact | O | 3 | |
| Not Used | 170 | SAC | Service, Promotion, Allowance, or Charge Information | O | 25 | |
| Not Used | 180 | ITD | Terms of Sale/Deferred Terms of Sale | O | 2 | |
| Not Used | 190 | TAX | Tax Reference | O | 3 | |
| Not Used | 200 | FOB | F.O.B. Related Instructions | O | 1 | |
| Not Used | 210 | LDT | Lead Time | O | 12 | |
| | 220 | QTY | Quantity | O | >1 | n1 |
| Not Used | 230 | ATH | Resource Authorization | O | 20 | |
| Not Used | 240 | TD1 | Carrier Details (Quantity and Weight) | O | 1 | |
| Not Used | 250 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | |
| Not Used | 260 | TD3 | Carrier Details (Equipment) | O | 12 | |
| Not Used | 270 | TD4 | Carrier Details (Special Handling, or Hazardous Materials, or Both) | O | 5 | |
| Not Used | 280 | MAN | Marks and Numbers | O | 10 | |
| Not Used | 290 | DD | Demand Detail | O | 10 | |
| LOOP ID - SLN | | | | | 100 | |
| Not Used | 300 | SLN | Subline Item Detail | O | 1 | |
| Not Used | 310 | PID | Product/Item Description | O | 1000 | |
| Not Used | 315 | NM1 | Individual or Organizational Name | O | 10 | |
| LOOP ID - N1 | | | | | 200 | |
| | 320 | N1 | Name | O | 1 | |
| | 330 | N2 | Additional Name Information | O | 2 | |
| | 340 | N3 | Address Information | O | 2 | |
| | 350 | N4 | Geographic Location | O | 1 | |
| | 360 | REF | Reference Identification | O | 12 | |
| | 370 | PER | Administrative Communications Contact | O | 3 | |
| Not Used | 380 | FOB | F.O.B. Related Instructions | O | 1 | |
| LOOP ID - LM | | | | | >1 | |
| Not Used | 390 | LM | Code Source Information | O | 1 | |
| Not Used | 400 | LQ | Industry Code | M | 100 | |
| LOOP ID - FST | | | | | >1 | |
| | 410 | FST | Forecast Schedule | O | 1 | n2 |
| Not Used | 415 | QTY | Quantity | O | >1 | |
| Not Used | 420 | SDQ | Destination Quantity | O | 50 | |
| LOOP ID - LM | | | | | >1 | |
| Not Used | 430 | LM | Code Source Information | O | 1 | |
| Not Used | 440 | LQ | Industry Code | M | 100 | |

| | | LOOP ID – SDP | 260 | |
|-----|-----|------------------------------|-----|-----|
| 450 | SDP | Ship/Delivery Pattern | O | 1 |
| 460 | FST | Forecast Schedule | O | 260 |
| | | LOOP ID – SHP | 25 | |
| 470 | SHP | Shipped/Received Information | O | 1 |
| 480 | REF | Reference Identification | O | 5 |

Summary:

| | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---------------------|--------------------|-------------------------|----------------------|----------------|------------------------|-------------------------------|
| | 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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | ST01 | 143 | Transaction Set Identifier Code | M ID 3/3 |
| | | | Code uniquely identifying a Transaction Set | |
| | | | 830 Planning Schedule with Release Capability | |
| Must Use | 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

The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction.

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | BFR01 | 353 | Transaction Set Purpose Code | M ID 2/2 |
| | | | Code identifying purpose of transaction set | |
| | | | 11 Response | |
| | | | This is the only allowable code for the 830 Response to Forecast. | |
| | BFR02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| | BFR03 | 328 | Release Number | X AN 1/30 |
| | | | Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction | |
| Must Use | 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 | |
| | | | AD Authorized Delivery Based | |
| | | | AS Authorized Shipment Based | |
| | | | DL Delivery Based | |
| | | | PD Planned Delivery Based | |
| | | | PR Planned Requirement Based | |
| | | | PS Planned Shipment Based | |
| | | | SH Shipment Based | |

| | | | | | |
|-----------------|--------------|------------|---|----------|----------------|
| Must Use | 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 | | |
| Must Use | BFR06 | 373 | Date | M | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | BFR07 | 373 | Date | O | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| Must Use | BFR08 | 373 | Date | M | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| Not Used | BFR09 | 373 | Date | O | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | BFR10 | 367 | Contract Number | O | AN 1/30 |
| | | | Contract number | | |
| | BFR11 | 324 | Purchase Order Number | O | AN 1/22 |
| | | | Identifying number for Purchase Order assigned by the orderer/purchaser | | |
| Not Used | BFR12 | 783 | Planning Schedule Type Code | O | ID 2/2 |
| | | | Code identifying type of planning schedule used | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | BFR13 | 306 | Action Code | O | ID 1/2 |
| | | | Code indicating type of action | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |

Segment: REF Reference Identification

Position: 050

Loop:

Level: Heading

Usage: Optional

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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | CG Consignee's Order Number | |
| | | | CO Customer Order Number | |
| | | | DQ Delivery Quote Number | |
| | | | GC Government Contract Number | |
| | | | GP Government Priority Number | |
| | | | PH Priority Rating | |
| | | | PO Purchase Order Number | |
| | | | PR Price Quote Number | |
| | | | RE Release Number | |
| | | | VN Vendor Order Number | |
| | REF02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | REF03 | 352 | Description | X AN 1/80 |
| | | | A free-form description to clarify the related data elements and their content | |
| Not Used | REF04 | C040 | Reference Identifier | O |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | |
| Not Used | C04001 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C04002 | 127 | Reference Identification | M AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not | C04003 | 128 | Reference Identification Qualifier | X ID 2/3 |

Used

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04004** **127** **Reference Identification** **X AN 1/30**

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

Not Used **C04005** **128** **Reference Identification Qualifier** **X ID 2/3**

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04006** **127** **Reference Identification** **X AN 1/30**

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

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | PER01 | 366 | Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department EX Expeditor IC Information Contact RD Receiving Dock | M ID 2/2 |
| | PER02 | 93 | Name Free-form name | O AN 1/60 |
| | PER03 | 365 | Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail TE Telephone | X ID 2/2 |
| | PER04 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Not Used | PER05 | 365 | Communication Number Qualifier Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| Not Used | PER06 | 364 | Communication Number Complete communications number including country or area code when applicable | X AN 1/80 |
| Not Used | PER07 | 365 | Communication Number Qualifier Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |

| | | | | |
|---------------------|--------------|------------|--|------------------|
| Not Used | PER08 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |
| Not Used | PER09 | 443 | Contact Inquiry Reference | O AN 1/20 |
| | | | Additional reference number or description to clarify a contact number | |

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.

Notes: EIDX Usage: REQUIRED

This segment is used to identify the parties involved in the transaction. It is encouraged that the trading partners codify all addresses within their system. The use of the N1 segment with Bill-To and Ship-To values is encouraged.

Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|------------------|--------------|--|------------|
| Must Use N101 | 98 | Entity Identifier Code | M ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values. | |
| 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) Refer to 004010 Data Element Dictionary for acceptable code values. | |
| N104 | 67 | Identification Code | X AN 2/80 |
| | | Code identifying a party or other code | |
| N105 | 706 | Entity Relationship Code | O ID 2/2 |
| | | Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values. | |
| N106 | 98 | Entity Identifier Code | O ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **N2 Additional Name Information**

Position: 240

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:

Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Note: Use of this segment may impede automation and application integration.

Data Element Summary

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

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:
Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Data Element Summary

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

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:** EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|----------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | | |
| 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 Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 1/2 |
| N406 | 310 | Location Identifier Code which identifies a specific location | O AN 1/30 |

Segment: PER Administrative Communications Contact

Position: 280
Loop: N1 Optional
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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | 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 | |
| | | | EX Expeditor | |
| | | | IC Information Contact | |
| | | | RD Receiving Dock | |
| | 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 | |
| | | | EM Electronic Mail | |
| | | | TE Telephone | |
| | PER04 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |
| | | | EIDX Usage: ADVISED. If Communications Number Qualifier equals "TE" (Telephone), the proposed format is: 800-555-1212X1234. | |
| Not Used | PER05 | 365 | Communication Number Qualifier | X ID 2/2 |
| | | | Code identifying the type of communication number | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PER06 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |

| | | | | | |
|---------------------|--------------|------------|---|----------|----------------|
| Not Used | PER07 | 365 | Communication Number Qualifier | X | ID 2/2 |
| | | | Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | PER08 | 364 | Communication Number | X | AN 1/80 |
| | | | Complete communications number including country or area code when applicable | | |
| Not Used | PER09 | 443 | Contact Inquiry Reference | O | AN 1/20 |
| | | | Additional reference number or description to clarify a contact number | | |

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 |
|-----------------|--------------|--|------------|
| LIN01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set Recommended in RTF if multiple line items are used in the original forecast | O AN 1/20 |
| Must Use | LIN02 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Values also used in LIN04, LIN06, LIN08, etc. Whenever there is an EC (engineering change level) specified, it should immediately follow 235/234 set with the related part number. | M ID 2/2 |
| | | AB Assembly | |
| | | BP Buyer's Part Number | |
| | | DE Design Number | |
| | | DR Drawing Revision Number | |
| | | EC Engineering Change Level | |
| | | EN European Article Number (EAN) (2-5-5-1) | |
| | | MG Manufacturer's Part Number | |
| | | PC Prime Contractor Part Number | |

| | | | | | | |
|-----------------|--------------|------------|---|--|----------|----------------|
| | | | PW | Part Drawing | | |
| | | | SW | Stock Number | | |
| | | | UI | U.P.C. Consumer Package Code (1-5-5) | | |
| | | | UP | U.P.C. Consumer Package Code (1-5-5-1) | | |
| | | | VP | Vendor's (Seller's) Part Number | | |
| Must Use | LIN03 | 234 | Product/Service ID | | M | AN 1/48 |
| | | | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN05 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN07 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN09 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN11 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN13 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN15 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |
| | 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) | | | |
| | | | See Code List Under LIN02 | | | |
| | LIN17 | 234 | Product/Service ID | | X | AN 1/48 |
| | | | Identifying number for a product or service | | | |

| | | | | |
|-------|-----|--|---|---------|
| LIN18 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN19 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN20 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN21 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN22 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN23 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN24 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN25 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN26 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN27 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN28 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN29 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |
| LIN30 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Code List Under LIN02 | X | ID 2/2 |
| LIN31 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/48 |

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | UIT01 | C001 | Composite Unit of Measure | M |
| | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | |
| Must 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 EA Each | |
| Not Used | C00102 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00103 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00105 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00106 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00107 | 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 004010 Data Element Dictionary for acceptable code values. | |

| | | | | |
|----------|--------|------|---|----------|
| Not Used | C00108 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00109 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00110 | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00111 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00112 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00113 | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00114 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00115 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| | UIT02 | 212 | Unit Price | X R 1/17 |
| | | | Price per unit of product, service, commodity, etc. UIT02 and UIT03 may be used by distributors to comment on price changes before the Order Cycle. | |
| | UIT03 | 639 | Basis of Unit Price Code | O ID 2/2 |
| | | | Code identifying the type of unit price for an item UIT02 and UIT03 may be used by distributors to comment on price changes before the Order Cycle. | |

Segment: **PO4** Item Physical Details

Position: 120
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

- Syntax Notes:**
- 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:**
- 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:**
- 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.

Notes: To specify secondary packaging on an item.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Not Used | PO401 | 356 | Pack | O N0 1/6 |
| | | | The number of inner containers, or number of eaches if there are no inner containers, per outer container | |
| Not Used | PO402 | 357 | Size | X R 1/8 |
| | | | Size of supplier units in pack | |

| | | | | |
|----------|-------|-----|---|----------|
| Not Used | PO403 | 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 Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | PO404 | 103 | Packaging Code | X AN 3/5 |
| | | | Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required | |
| | | | AMM Ammo Pack | |
| | | | BLK Bulk | |
| | | | RAL Rail (Semiconductor) | |
| | | | REL Reel | |
| | | | TRY Tray | |
| | | | 90 Standard | |
| Not Used | PO405 | 187 | Weight Qualifier | O ID 1/2 |
| | | | Code defining the type of weight Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PO406 | 384 | Gross Weight per Pack | X R 1/9 |
| | | | Numeric value of gross weight per pack | |
| Not Used | PO407 | 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 Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PO408 | 385 | Gross Volume per Pack | X R 1/9 |
| | | | Numeric value of gross volume per pack | |
| Not Used | PO409 | 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 Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PO410 | 82 | Length | X R 1/8 |
| | | | Largest horizontal dimension of an object measured when the object is in the upright position | |
| Not Used | PO411 | 189 | Width | X R 1/8 |
| | | | Shorter measurement of the two horizontal dimensions measured with the object in the upright position | |
| Not Used | PO412 | 65 | Height | X R 1/8 |
| | | | Vertical dimension of an object measured when the object is in the upright position | |

| | | | | | |
|----------|-------|------|---|---|---------|
| Not Used | PO413 | 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 Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | PO414 | 810 | Inner Pack | O | NO 1/6 |
| | | | The number of eaches per inner container | | |
| Not Used | PO415 | 752 | Surface/Layer/Position Code | O | ID 2/2 |
| | | | Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | PO416 | 350 | Assigned Identification | X | AN 1/20 |
| | | | Alphanumeric characters assigned for differentiation within a transaction set | | |
| Not Used | PO417 | 350 | Assigned Identification | O | AN 1/20 |
| | | | Alphanumeric characters assigned for differentiation within a transaction set | | |
| Not Used | PO418 | 1470 | Number | O | NO 1/9 |
| | | | A generic number | | |

Segment: REF Reference Identification

Position: 140
Loop: LIN Mandatory
Level: Detail
Usage: Optional
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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | CG Consignee's Order Number | |
| | | | CO Customer Order Number | |
| | | | DQ Delivery Quote Number | |
| | | | GC Government Contract Number | |
| | | | GP Government Priority Number | |
| | | | PH Priority Rating | |
| | | | PO Purchase Order Number | |
| | | | PR Price Quote Number | |
| | | | RE Release Number | |
| | | | VN Vendor Order Number | |
| | REF02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | REF03 | 352 | Description | X AN 1/80 |
| | | | A free-form description to clarify the related data elements and their content | |
| Not Used | REF04 | C040 | Reference Identifier | O |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | |
| Not Used | C04001 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C04002 | 127 | Reference Identification | M AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not | C04003 | 128 | Reference Identification Qualifier | X ID 2/3 |

Used

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04004** **127** **Reference Identification** **X** **AN 1/30**

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

Not Used **C04005** **128** **Reference Identification Qualifier** **X** **ID 2/3**

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04006** **127** **Reference Identification** **X** **AN 1/30**

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

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | 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 | |
| | | | EX Expeditor | |
| | | | IC Information Contact | |
| | | | RD Receiving Dock | |
| | 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 | |
| | | | EM Electronic Mail | |
| | | | TE Telephone | |
| | PER04 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |
| | | | Recommended format for telephone number is: 800-555-1212X1234. | |
| Not Used | PER05 | 365 | Communication Number Qualifier | X ID 2/2 |
| | | | Code identifying the type of communication number | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PER06 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |

| | | | | | |
|---------------------|--------------|------------|---|----------|----------------|
| Not Used | PER07 | 365 | Communication Number Qualifier | X | ID 2/2 |
| | | | Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | PER08 | 364 | Communication Number | X | AN 1/80 |
| | | | Complete communications number including country or area code when applicable | | |
| Not Used | PER09 | 443 | Contact Inquiry Reference | O | AN 1/20 |
| | | | Additional reference number or description to clarify a contact number | | |

Segment: QTY Quantity

Position: 220
Loop: LIN Mandatory
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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | QTY01 | 673 | Quantity Qualifier | M ID 2/2 |
| | | | Code specifying the type of quantity | |
| | | | 17 Quantity on Hand | |
| | | | In Original Forecast, this is the quantity the buyer has on-hand; In RTF, this is the quantity the seller has on-hand. | |
| | | | 27 Committed Quantity | |
| | | | 29 Projected Available Inventory | |
| | | | 33 Quantity Available for Sale (stock quantity) | |
| | | | 34 Noncommitted Inventory on Shelf | |
| | | | 36 Distributor Inventory | |
| | | | 63 On Order Quantity | |
| | 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) | |
| Must 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 | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00102 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00103 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |

| | | | | |
|----------|--------|------|---|-----------|
| Not Used | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00105 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00106 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00107 | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00108 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00109 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00110 | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00111 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00112 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | C00113 | 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 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C00114 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| Not Used | C00115 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| Not Used | QTY04 | 61 | Free-Form Message | X AN 1/30 |
| | | | Free-form information | |

Segment: **N1 Name**

Position: 320
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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | N101 | 98 | Entity Identifier Code | M ID 2/3 |
| | | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | | 28 Subcontractor | |
| | | | AK Party to Whom Acknowledgment Should Be Sent | |
| | | | BS Bill and Ship To | |
| | | | BT Bill-to-Party | |
| | | | BY Buying Party (Purchaser) | |
| | | | CN Consignee | |
| | | | DB Distributor Branch | |
| | | | DS Distributor | |
| | | | EN End User | |
| | | | MA Party for whom Item is Ultimately Intended | |
| | | | MF Manufacturer of Goods | |
| | | | PG Prime Contractor | |
| | | | RI Remit To | |
| | | | SE Selling Party | |
| | | | SF Ship From | |
| | | | ST Ship To | |
| | | | SU Supplier/Manufacturer | |
| | | | WH Warehouse | |
| | N102 | 93 | Name | X AN 1/60 |
| | | | Free-form name | |
| | | | EIDX Usage: OPTIONAL | |

| | | | | | |
|-----------------|-------------|------------|---|----------|----------------|
| | N103 | 66 | Identification Code Qualifier | X | ID 1/2 |
| | | | Code designating the system/method of code structure used for Identification Code (67) | | |
| | | | 1 D-U-N-S Number, Dun & Bradstreet | | |
| | | | 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix | | |
| | | | 14 UCC/EAN Location Code Prefix The first part of a 13 digit UCC/EAN Location Code within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system. A globally unique 3 to 10 digit code for the identification of a company | | |
| | | | 91 Assigned by Seller or Seller's Agent | | |
| | | | 92 Assigned by Buyer or Buyer's Agent | | |
| | N104 | 67 | Identification Code | X | AN 2/80 |
| | | | Code identifying a party or other code The number that identifies the location. | | |
| Not Used | N105 | 706 | Entity Relationship Code | O | ID 2/2 |
| | | | Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | N106 | 98 | Entity Identifier Code | O | ID 2/3 |
| | | | Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values. | | |

Segment: **N2 Additional Name Information**

Position: 330

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:

Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Note: Use of this segment may impede automation and application integration.

Data Element Summary

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

Segment: N3 Address Information

Position: 340
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Data Element Summary

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

Segment: N4 Geographic Location

- Position:** 350
- 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.
- Notes:** EIDX Usage: OPTIONAL. Use only when address information cannot be conveyed via an Identification Code on the N1 segment. See IMPLEMENTATION RECOMMENDATIONS FOR PRODUCT AND OTHER IDENTIFIERS (June 1997).

Data Element Summary

| Ref. | Data | | |
|-------------|----------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
| 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 |
| Not Used | N405 | 309 Location Qualifier Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 1/2 |
| Not Used | N406 | 310 Location Identifier Code which identifies a specific location | O AN 1/30 |

Segment: **REF** Reference Identification

Position: 360
Loop: N1 Optional
Level: Detail
Usage: Optional
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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|---|-------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | CG Consignee's Order Number | |
| | | | CO Customer Order Number | |
| | | | DQ Delivery Quote Number | |
| | | | GC Government Contract Number | |
| | | | GP Government Priority Number | |
| | | | PH Priority Rating | |
| | | | PO Purchase Order Number | |
| | | | PR Price Quote Number | |
| | | | RE Release Number | |
| | | | VN Vendor Order Number | |
| | REF02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | REF03 | 352 | Description | X AN 1/80 |
| | | | A free-form description to clarify the related data elements and their content | |
| Not Used | REF04 | C040 | Reference Identifier | O |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | |
| Not Used | C04001 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C04002 | 127 | Reference Identification | M AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not | C04003 | 128 | Reference Identification Qualifier | X ID 2/3 |

Used

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04004** **127** **Reference Identification** **X** **AN 1/30**

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

Not Used **C04005** **128** **Reference Identification Qualifier** **X** **ID 2/3**

Code qualifying the Reference Identification
Refer to 004010 Data Element Dictionary for acceptable code values.

Not Used **C04006** **127** **Reference Identification** **X** **AN 1/30**

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

Segment: PER Administrative Communications Contact

Position: 370
Loop: N1 Optional
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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | 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 | |
| | | | EX Expeditor | |
| | | | IC Information Contact | |
| | | | RD Receiving Dock | |
| | 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 | |
| | | | EM Electronic Mail | |
| | | | TE Telephone | |
| | PER04 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |
| | | | Recommended format for telephone number is: 800-555-1212X1234. | |
| Not Used | PER05 | 365 | Communication Number Qualifier | X ID 2/2 |
| | | | Code identifying the type of communication number | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | PER06 | 364 | Communication Number | X AN 1/80 |
| | | | Complete communications number including country or area code when applicable | |

| | | | | | |
|---------------------|--------------|------------|---|----------|----------------|
| Not Used | PER07 | 365 | Communication Number Qualifier | X | ID 2/2 |
| | | | Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | PER08 | 364 | Communication Number | X | AN 1/80 |
| | | | Complete communications number including country or area code when applicable | | |
| Not Used | PER09 | 443 | Contact Inquiry Reference | O | AN 1/20 |
| | | | Additional reference number or description to clarify a contact number | | |

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.

Notes: If FST segment in the SDP loop is not used, the FST segment in the FST loop must be used.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | FST01 | 380 | Quantity | M R 1/15 |
| | | | Numeric value of quantity | |
| Must Use | 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 | |
| Must Use | FST03 | 681 | Forecast Timing Qualifier | M ID 1/1 |
| | | | Code specifying interval grouping of the forecast | |
| | | | D Discrete | |
| | | | F Flexible Interval (from Date X through Date Y) | |
| | | | M Monthly Bucket (Calendar Months) | |
| | | | Q Quarterly (Calendar Quarters) | |
| | | | W Weekly Bucket (Monday through Sunday) | |
| Must Use | FST04 | 373 | Date | M DT 8/8 |
| | | | Date expressed as CCYYMMDD | |
| | FST05 | 373 | Date | O DT 8/8 |
| | | | Date expressed as CCYYMMDD | |

| | | | | |
|---------------------|--------------|------------|--|------------------|
| Not Used | FST06 | 374 | Date/Time Qualifier | X ID 3/3 |
| | | | Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | FST07 | 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) | |
| | FST08 | 128 | Reference Identification Qualifier | X ID 2/3 |
| | | | Code qualifying the Reference Identification PO Purchase Order Number | |
| | FST09 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | FST10 | 783 | Planning Schedule Type Code | O ID 2/2 |
| | | | Code identifying type of planning schedule used Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: SDP Ship/Delivery Pattern

Position: 450
Loop: SDP Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify specific ship/delivery requirements
Syntax Notes:
Semantic Notes:
Comments: 1 The intent of this segment is to define the routine ship or delivery patterns, as required, when order quantities are in "buckets", such as weekly, monthly. Ship/delivery patterns eliminate the need to transmit discrete quantities and dates for each required shipment or delivery. It is assumed that a "bucketed" quantity is to be divided equally by the ship/delivery pattern. For example, a weekly quantity of 100 with a delivery pattern of Monday and Wednesday would result in 50 to be delivered on Monday and 50 to be delivered on Wednesday.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | SDP01 | 678 | Ship/Delivery or Calendar Pattern Code | M ID 1/2 |
| | | | Code which specifies the routine shipments, deliveries, or calendar pattern Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Must Use | SDP02 | 679 | Ship/Delivery Pattern Time Code | M ID 1/1 |
| | | | Code which specifies the time for routine shipments or deliveries Y None (Also Used to Cancel or Override a Previous Pattern) | |
| | SDP03 | 678 | Ship/Delivery or Calendar Pattern Code | O ID 1/2 |
| | | | Code which specifies the routine shipments, deliveries, or calendar pattern Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | SDP04 | 679 | Ship/Delivery Pattern Time Code | O ID 1/1 |
| | | | Code which specifies the time for routine shipments or deliveries Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | SDP05 | 678 | Ship/Delivery or Calendar Pattern Code | O ID 1/2 |
| | | | Code which specifies the routine shipments, deliveries, or calendar pattern Refer to 004010 Data Element Dictionary for acceptable code values. | |

| | | | |
|--------------|------------|--|-----------------|
| SDP06 | 679 | Ship/Delivery Pattern Time Code | O ID 1/1 |
| | | Code which specifies the time for routine shipments or deliveries Refer to 004010 Data Element Dictionary for acceptable code values. | |
| SDP07 | 678 | Ship/Delivery or Calendar Pattern Code | O ID 1/2 |
| | | Code which specifies the routine shipments, deliveries, or calendar pattern Refer to 004010 Data Element Dictionary for acceptable code values. | |
| SDP08 | 679 | Ship/Delivery Pattern Time Code | O ID 1/1 |
| | | Code which specifies the time for routine shipments or deliveries Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **FST** Forecast Schedule

Position: 460
Loop: SDP Optional
Level: Detail
Usage: Optional
Max Use: 260

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | FST01 | 380 | Quantity | M R 1/15 |
| | | | Numeric value of quantity | |
| Must Use | 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 | |
| Must Use | FST03 | 681 | Forecast Timing Qualifier | M ID 1/1 |
| | | | Code specifying interval grouping of the forecast | |
| | | | D Discrete | |
| | | | F Flexible Interval (from Date X through Date Y) | |
| | | | M Monthly Bucket (Calendar Months) | |
| | | | Q Quarterly (Calendar Quarters) | |
| | | | W Weekly Bucket (Monday through Sunday) | |
| Must Use | FST04 | 373 | Date | M DT 8/8 |
| | | | Date expressed as CCYYMMDD | |
| | FST05 | 373 | Date | O DT 8/8 |
| | | | Date expressed as CCYYMMDD | |

| | | | | | |
|----------|-------|-----|---|---|---------|
| Not Used | FST06 | 374 | Date/Time Qualifier | X | ID 3/3 |
| | | | Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| Not Used | FST07 | 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) | | |
| | FST08 | 128 | Reference Identification Qualifier | X | ID 2/3 |
| | | | Code qualifying the Reference Identification PO Purchase Order Number | | |
| | FST09 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | |
| Not Used | FST10 | 783 | Planning Schedule Type Code | O | ID 2/2 |
| | | | Code identifying type of planning schedule used Refer to 004010 Data Element Dictionary for acceptable code values. | | |

Segment: SHP Shipped/Received Information

- Position:** 470
- Loop:** SHP Optional
- Level:** Detail
- Usage:** Optional
- 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

| Ref. | Data | Name | Attributes |
|-----------------|----------------|--|------------|
| <u>Des.</u> | <u>Element</u> | | |
| SHP01 | 673 | Quantity Qualifier Code specifying the type of quantity 39 Shipped Quantity | O ID 2/2 |
| SHP02 | 380 | Quantity Numeric value of quantity | X R 1/15 |
| SHP03 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped | X ID 3/3 |
| SHP04 | 373 | Date Date expressed as CCYYMMDD | X DT 8/8 |
| Not Used | SHP05 | 337 Time 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 TM 4/8 |
| | SHP06 | 373 Date Date expressed as CCYYMMDD | O DT 8/8 |

Not
Used

SHP07

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)

Segment: REF Reference Identification

Position: 480
Loop: SHP Optional
Level: Detail
Usage: Optional
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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | REF01 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification IV Seller's Invoice Number MA Ship Notice/Manifest Number PK Packing List Number | |
| | REF02 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | REF03 | 352 | Description | X AN 1/80 |
| | | | A free-form description to clarify the related data elements and their content | |
| Not Used | REF04 | C040 | Reference Identifier | O |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | |
| Not Used | C04001 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C04002 | 127 | Reference Identification | M AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | C04003 | 128 | Reference Identification Qualifier | X ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |

| | | | | |
|-------------|--------|-----|---|-----------|
| Not Used | C04004 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| Not Used | C04005 | 128 | Reference Identification Qualifier | X ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | C04006 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |

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. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | 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. | |
| | | | EIDX Usage: Required | |
| | | | It is the sum of the values of quantity (FST01) for each FST segment. Truncation will occur on the high order digits, if necessary. For example, if the hash total number is 12345678901 (11 characters) the value sent in CTT02 would be: "2345678901". | |
| Not Used | CTT03 | 81 | Weight | X R 1/10 |
| | | | Numeric value of weight | |
| Not Used | 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 Refer to 004010 Data Element Dictionary for acceptable code values. | |
| Not Used | CTT05 | 183 | Volume | X R 1/8 |
| | | | Value of volumetric measure | |
| Not | CTT06 | 355 | Unit or Basis for Measurement Code | X ID 2/2 |

Used

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
Refer to 004010 Data Element Dictionary for acceptable code values.

Not
Used

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

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-----------------|------------------|---------------------|--|-------------------|
| Must Use | SE01 | 96 | Number of Included Segments | M N0 1/10 |
| | | | Total number of segments included in a transaction set including ST and SE segments | |
| Must Use | 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 | |
| | | | The control number is assigned by the sender. It should be sequentially assigned within each functional group to aid in error recovery and research. The control number in the SE segment (SE02) must be identical to the control number in the ST segment for each transaction. | |

830 RESPONSE TO FORECAST EXAMPLES

830 Example 1 – Response to Simple Planning Forecast

This example supports Replenishment Scenario 1 (Planning Forecast). It is a response to a simple planning forecast. In this example, the SDP loop used in older versions of X12 is replaced by the FST loop.

Example 1 Summary

| HEADER SECTION: | |
|---|--|
| ST*830*000555' | This is a Planning Schedule (forecast) transaction with transaction set control number 000555. |
| BFR*11*123456**DL*A*20000501*20000930*20000501' | This is a response to a forecast. The forecast number is 123456. The schedule dates are delivery dates, and schedule quantities are discrete. The forecast horizon is May 1, 2000 through September 30, 2000, and the forecast was generated on May 1, 2000. |
| N1*BY*SANTA CLARA ELECTRONICS*1*000231776' | The buying party is Santa Clara Electronics, and their DUNS number is 000231776. |
| N1*ST*SANTA CLARA ELECTRONICS*1*000231776' | The Ship-to party is Santa Clara Electronics, and their DUNS number is 000231776. |
| N1*SE*MC, INC.*1*009124350' | The selling party is MC, Inc., and their DUNS number is 009124350. |
| DETAIL – LINE ITEM 1 | |
| LIN*01*BP*182034-233345' | The buyer's part number is 182034-233345. |
| UIT*EA' | The unit of measure is Each. |
| PO4***REL90' | The parts are packaged in tape-and-reel, standard. |
| PER*BD*KATHY GRASSO*TE*408-555-4434' | The buyer is Kathy Grasso, and her telephone number is 408-555-4434. |
| FST*330*C*D*20000509' | The planned delivery quantity for May 9, 2000 is 330. |
| FST*255*D*D*20000513' | The planned delivery quantity for May 13, 2000 is 255. |
| FST*2500*D*D*20000605' | The planned delivery quantity for June 5, 2000 is 2500. |
| FST*4332*D*D*20000615' | The planned delivery quantity for June 15, 2000 is 4332. |
| FST*3500*D*F*20000701*20000731' | The planned delivery quantity for the interval from July 1, 2000 to July 31, 2000 is 3500. |
| FST*5100*D*M*20000801' | The planned delivery quantity for the interval for the month beginning August 1, 2000 is 5100. |
| FST*5600*D*M*20000901' | The planned delivery quantity for the interval for the month beginning September 1, 2000 is 5600. |
| FST*16600*D*Q*20001001' | The planned delivery quantity for the interval for the quarter beginning October 1, 2000 is 16600. |

| | |
|--------------------------------------|--|
| SHP*39*2500*011*20000428' | 2500 units were shipped on April 28, 2000. |
| REF*IV*IV12345' | The invoice number for the shipped units is IV12345. |
| DETAIL - LINE ITEM 2 | |
| LIN*02*BP*182034-234445' | The buyer's part number is 182034-234445. |
| UIT*EA' | The unit of measure is Each. |
| PO4***REL90' | The parts are packaged in tape-and-reel, standard. |
| PER*BD*KATHY GRASSO*TE*408-555-4434' | The buyer is Kathy Grasso, and her telephone number is 408-555-4434. |
| FST*330*C*D*20000509' | The planned delivery quantity for May 9, 2000 is 330. |
| FST*255*D*D*20000513' | The planned delivery quantity for May 13, 2000 is 255. |
| FST*2500*D*D*20000605' | The planned delivery quantity for June 5, 2000 is 2500. |
| FST*4332*D*D*20000615' | The planned delivery quantity for June 15, 2000 is 4332 |
| FST*3500*D*F*20000701*20000731' | The planned delivery quantity for the interval from July 1, 2000 to July 31, 2000 is 3500. |
| FST*5100*D*M*20000801' | The planned delivery quantity for the interval for the month beginning August 1, 2000 is 5100. |
| FST*5600*D*M*20000901' | The planned delivery quantity for the interval for the month beginning September 1, 2000 is 5600. |
| FST*16600*D*Q*20001001' | The planned delivery quantity for the interval for the quarter beginning October 1, 2000 is 16600. |
| SHP*39*2500*011*20000428' | 2500 units were shipped on April 28, 2000. |
| REF*IV*IV12346' | The invoice number for the shipped units is IV12346. |
| SUMMARY SECTION: | |
| CTT*2' | CTT Transaction Totals |
| SE*35*000555' | SE TRANSACTION SET TRAILER |

830 Example 2– Response to Simple Planning Forecast with SDP Loops

This example supports Replenishment Scenario 1 (Planning Forecast). It is a response to a simple planning forecast. In this example, FST segments in the SDP loop are used.

Example 2 Summary

| HEADER SECTION: | |
|---|--|
| ST*830*000556' | This is a Planning Schedule (forecast) transaction with transaction set control number 000556. |
| BFR*11*123456**DL*A*20000501* 20000930*20000501' | This is a response to a forecast. The forecast number is 123456. The schedule dates are delivery dates, and schedule quantities are discrete. The forecast horizon is May 1, 2000 through September 30, 2000, and the forecast was generated on May 1, 2000. |
| N1*BY*SANTA CLARA ELECTRONICS*1*000231776' | The buying party is Santa Clara Electronics, and their DUNS number is 000231776. |
| N1*ST*SANTA CLARA ELECTRONICS*1*000231776' | The Ship-to party is Santa Clara Electronics, and their DUNS number is 000231776. |
| N1*SE*MC, INC.*1*009124350' | The selling party is MC, Inc., and their DUNS number is 009124350. |
| DETAIL - LINE ITEM 1 | |
| LIN*01*BP*182034-233345' | The buyer's part number is 182034-233345. |
| UIT*EA' | The unit of measure is Each. |
| PO4***REL90' | The parts are packaged in tape-and-reel, standard. |
| PER*BD*KATHY GRASSO*TE*408-555- 4434' | The buyer is Kathy Grasso, and her telephone number is 408-555-4434. |
| SDP*Y*Y' | There is no specific ship/delivery pattern. |
| FST*330*C*D*20000509' | The planned delivery quantity for May 9, 2000 is 330. |
| FST*255*D*D*20000513' | The planned delivery quantity for May 13, 2000 is 255. |
| FST*2500*D*D*20000605' | The planned delivery quantity for June 5, 2000 is 2500. |
| FST*4332*D*D*20000615' | The planned delivery quantity for June 15, 2000 is 4332. |
| FST*3500*D*F*20000701*20000731' | The planned delivery quantity for the interval from July 1, 2000 to July 31, 2000 is 3500. |
| FST*5100*D*M*20000801' | The planned delivery quantity for the interval for the month beginning August 1, 2000 is 5100. |
| FST*5600*D*M*20000901' | The planned delivery quantity for the interval for the month beginning September 1, 2000 is 5600. |
| FST*16600*D*Q*20001001' | The planned delivery quantity for the quarter beginning October 1, 2000 is 16600. |
| SHP*39*2500*011*20000428' | 2500 units were shipped on April 28, 2000. |

| | |
|--------------------------------------|---|
| REF*IV*IV12345' | The invoice number for the shipped units is IV12345. |
| DETAIL - LINE ITEM 2 | |
| LIN*02*BP*182034-234445' | The buyer's part number is 182034-234445. |
| UIT*EA' | The unit of measure is Each. |
| PO4***REL90' | The parts are packaged in tape-and-reel, standard. |
| PER*BD*KATHY GRASSO*TE*408-555-4434' | The buyer is Kathy Grasso, and her telephone number is 408-555-4434. |
| SDP*Y*Y' | There is no specific ship/delivery pattern. |
| FST*330*C*D*20000509' | The planned delivery quantity for May 9, 2000 is 330. |
| FST*255*D*D*20000513' | The planned delivery quantity for May 13, 2000 is 255. |
| FST*2500*D*D*20000605' | The planned delivery quantity for June 5, 2000 is 2500. |
| FST*4332*D*D*20000615' | The planned delivery quantity for June 15, 2000 is 4332. |
| FST*3500*D*F*20000701*20000731' | The planned delivery quantity for the interval from July 1, 2000 to July 31, 2000 is 3500. |
| FST*5100*D*M*20000801' | The planned delivery quantity for the interval for the month beginning August 1, 2000 is 5100. |
| FST*5600*D*M*20000901' | The planned delivery quantity for the interval for the month beginning September 1, 2000 is 5600. |
| FST*16600*D*Q*20001001' | The planned delivery quantity for the quarter beginning October 1, 2000 is 16600. |
| SHP*39*2500*011*20000428' | 2500 units were shipped on April 28, 2000. |
| REF*IV*IV12346' | The invoice number for the shipped units is IV12346. |
| SUMMARY SECTION: | |
| CTT*2' | CTT Transaction Totals |
| SE*37*000556' | SE TRANSACTION SET TRAILER |