

# 830 Planning Schedule with Release Capability

Functional Group ID=**PS**

## Introduction:

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

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	030	NTE	Note/Special Instruction	F	100		
Not Used	040	CUR	Currency	O	1		
Not Used	050	REF	Reference Numbers	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		
<b>LOOP ID - N1</b>						<b>200</b>	
M	090	N1	Name	M	1		
Not Used	100	N2	Additional Name Information	O	2		
Not Used	110	N3	Address Information	O	2		
Not Used	120	N4	Geographic Location	O	1		
Not Used	130	REF	Reference Numbers	O	12		
	140	PER	Administrative Communications Contact	O	3		
Not Used	150	FOB	F.O.B. Related Instructions	O	1		
Not Used	160	CTP	Pricing Information	O	25		
Not Used	170	SSS	Special Services	O	25		
Not Used	180	CSH	Header Sale Condition	O	1		
Not Used	190	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
Not Used	200	DTM	Date/Time/Period	O	10		
Not Used	210	PID	Product/Item Description	O	200		
Not Used	220	MEA	Measurements	O	40		
Not Used	230	PWK	Paperwork	O	25		
Not Used	240	PKG	Marking, Packaging, Loading	O	25		

Not Used	250	TD1	Carrier Details (Quantity and Weight)	O	2
Not Used	260	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
Not Used	270	TD3	Carrier Details (Equipment)	O	12
Not Used	280	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
Not Used	290	MAN	Marks and Numbers	O	10

### Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN					10000	
M	010	LIN	Item Identification	M	1	
M	020	UIT	Unit Detail	M	1	
Not Used	021	DTM	Date/Time/Period	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	
	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	
Not Used	120	PO4	Item Physical Details	O	1	
Not Used	130	PRS	Part Release Status	O	1	
Not Used	140	REF	Reference Numbers	O	12	
Not Used	150	PER	Administrative Communications Contact	O	3	
Not Used	160	SSS	Special Services	O	25	
Not Used	170	ITA	Allowance, Charge or Service	O	10	
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	205	LDT	Lead Time	O	12	
Not Used	206	QTY	Quantity	O	>1	n1
LOOP ID - SLN					100	
Not Used	207	SLN	Subline Item Detail	O	1	
Not Used	208	PID	Product/Item Description	O	1000	
LOOP ID - N1					200	
M	210	N1	Name	M	1	
Not Used	220	N2	Additional Name Information	O	2	
Not Used	230	N3	Address Information	O	2	
Not Used	240	N4	Geographic Location	O	1	
Not Used	250	REF	Reference Numbers	O	12	
Not Used	260	PER	Administrative Communications Contact	O	3	
Not Used	270	FOB	F.O.B. Related Instructions	O	1	
LOOP ID - FST					260	
Not Used	280	FST	Forecast Schedule	O	1	n2
Not Used	281	SDQ	Destination Quantity	O	50	

			LOOP ID - SDP			260
M	290	SDP	Ship/Delivery Pattern	M		1
M	300	FST	Forecast Schedule	M		260
M	320	ATH	Resource Authorization	M		20
			LOOP ID - SHP			25
M	330	SHP	Shipped/Received Information	M		1
M	340	REF	Reference Numbers	M		5
Not Used	350	TD1	Carrier Details (Quantity and Weight)	O		1
Not Used	360	TD5	Carrier Details (Routing Sequence/Transit Time)	O		12
Not Used	370	TD3	Carrier Details (Equipment)	O		12
Not Used	380	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O		5
Not Used	390	MAN	Marks and Numbers	O		10

### Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	CTT	Transaction Totals	M	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:**  
**Comments:** 1 The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
M	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set 830 X12.14 Planning Schedule	
M	ST02	329	<b>Transaction Set Control Number</b>	M AN 4/9
			Identifying control number assigned by the originator for a transaction set.	

**Segment:** **BFR** Beginning Segment for Planning Schedule

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates

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

**Semantic Notes:**

- Comments:**
- 1 If BFR01 equals "04" (Net Change) - BFR09 is required.
  - 2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
  - 3 BFR06 - Forecast Horizon Start Date: The date when the forecast horizon (envelope) begins.
  - 4 BFR07 - Forecast Horizon End Date: The date when the forecast horizon (envelope) ends.
  - 5 BFR08 - Date Forecast Generated: The date the forecast data was generated.
  - 6 BFR09 - Date Forecast Updated: The date the forecast was updated with "Net Change" data. (Used only when element 353 in BFR04 equals "04", meaning net change.)

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BFR01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 05 Replace	M ID 2/2
X	BFR02	127	<b>Reference Number</b> Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	X AN 1/30
	BFR03	328	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	X AN 1/30
M	BFR04	675	<b>Schedule Type Qualifier</b> Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based SH Shipment Based	M ID 2/2
M	BFR05	676	<b>Schedule Quantity Qualifier</b> Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	M ID 1/1
M	BFR06	373	<b>Date</b>	M DT 6/6

			Date (YYMMDD)	
			Horizon Start Date	
<b>M</b>	<b>BFR07</b>	<b>373</b>	<b>Date</b>	<b>M DT 6/6</b>
			Date (YYMMDD)	
			Stop Date	
<b>M</b>	<b>BFR08</b>	<b>373</b>	<b>Date</b>	<b>M DT 6/6</b>
			Date (YYMMDD)	
<b>X</b>	<b>BFR09</b>	<b>373</b>	<b>Date</b>	<b>O DT 6/6</b>
			Date (YYMMDD)	
<b>X</b>	<b>BFR10</b>	<b>367</b>	<b>Contract Number</b>	<b>O AN 1/30</b>
			Contract number	
<b>X</b>	<b>BFR11</b>	<b>324</b>	<b>Purchase Order Number</b>	<b>O AN 1/22</b>
			Identifying number for Purchase Order assigned by the orderer/purchaser	
	<b>BFR12</b>	<b>783</b>	<b>Planning Schedule Type Code</b>	<b>O ID 2/2</b>
			Code identifying type of planning schedule used	
			Refer to 003020 Data Element Dictionary for acceptable code values.	

**Segment:** **NTE** Note/Special Instruction  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Floating  
**Max Use:** 100  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
<b>X</b>	<b>NTE01</b>	<b>363 Note Reference Code</b>	<b>O ID 3/3</b>
		Code identifying the functional area or purpose for which the note applies Refer to 003020 Data Element Dictionary for acceptable code values.	
<b>M</b>	<b>NTE02</b>	<b>3 Free Form Message</b>	<b>M AN 1/60</b>
		Free-form text	

**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.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named Refer to 003020 Data Element Dictionary for acceptable code values.	
	PER02	93	Name	O AN 1/35
			Free-form name	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number Refer to 003020 Data Element Dictionary for acceptable code values.	
	PER04	364	Communication Number	X AN 7/25
			Complete communications number including country or area code when applicable	



**Segment:** **N1** Name

**Position:** 090

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

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

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

**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.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>M</b>	<b>N101</b> 98 <b>Entity Identifier Code</b>	<b>M ID 2/2</b>
	Code identifying an organizational entity or a physical location.	
	MI Planning Schedule/Material Release Issuer	
	SF Ship From	
	SU Supplier/Manufacturer	
	<b>N102</b> 93 <b>Name</b>	<b>X AN 1/35</b>
	Free-form name	
	<b>N103</b> 66 <b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
	Code designating the system/method of code structure used for Identification Code (67)	
	1 Dun and Bradstreet (Credit Reporting) (DUNS)	
	92 Assigned by Buyer or Buyer's Agent	
	<b>N104</b> 67 <b>Identification Code</b>	<b>X AN 2/17</b>
	Code identifying a party.	

**Segment:** **PER** Administrative Communications Contact

**Position:** 140

**Loop:** N1 Mandatory

**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.

**Semantic Notes:**

**Comments:**

#### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	PER01	366	<b>Contact Function Code</b>	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
		BD	Buyer Name or Department	
		NT	Notification Contact	
	PER02	93	<b>Name</b>	O AN 1/35
			Free-form name	
	PER03	365	<b>Communication Number Qualifier</b>	X ID 2/2
			Code identifying the type of communication number	
		TE	Telephone	
	PER04	364	<b>Communication Number</b>	X AN 7/25
			Complete communications number including country or area code when applicable	

**Segment:** **LIN** Item Identification

**Position:** 010

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic item identification data

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

**Semantic Notes:**

- Comments:**
- 1 See the Data Dictionary for a complete list of ID's.
  - 2 LIN01 is the line item identification
  - 3 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
X	LIN01	350 <b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/11
M	LIN02	235 <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	M ID 2/2
M	LIN03	234 <b>Product/Service ID</b> Identifying number for a product or service	M AN 1/30
	LIN04	235 <b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	O ID 2/2

M	LIN05	234	<b>Product/Service ID</b> Identifying number for a product or service	M AN 1/30
X	LIN06	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN07	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN08	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN09	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN10	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN11	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN12	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN13	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN14	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN15	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN16	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2
X	LIN17	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/30
X	LIN18	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2

X	LIN19	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN20	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN21	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN22	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN23	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN24	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN25	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN26	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN27	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN28	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN29	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	
X	LIN30	235	<b>Product/Service ID Qualifier</b>	O ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 003020 Data Element Dictionary for acceptable code values.	
X	LIN31	234	<b>Product/Service ID</b>	X AN 1/30
			Identifying number for a product or service	

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

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
M	UIT01	355	<b>Unit or Basis for Measurement Code</b> Code identifying the basic unit of measurement. Refer to 003020 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>
X	UIT02	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	<b>X R 1/14</b>
X	UIT03	639	<b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item Refer to 003020 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>

**Segment:** **PID** Product/Item Description

**Position:** 080

**Loop:** LIN Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1000

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:** 1 If PID04 is present, then PID03 is required.

2 At least one of PID04 or PID05 is required.

**Semantic Notes:**

- Comments:**
- 1 If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``X", then both PID04 and PID05 are used.
  - 2 Use PID03 to indicate the organization that publishes the code list being referred to.
  - 3 PID04 should be used for industry-specific product description codes.
  - 4 Use PID06 when necessary to refer to the product surface or layer being described in the segment.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	PID01	349	<b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1
X	PID02	750	<b>Product/Process Characteristic Code</b> Code specifying the product or process characteristic being described. Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/3
X	PID03	559	<b>Agency Qualifier Code</b> Code identifying the agency assigning the code values Refer to 003020 Data Element Dictionary for acceptable code values.	X ID 2/2
X	PID04	751	<b>Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic	X AN 1/12
	PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	PID06	752	<b>Surface/Layer/Position Code</b> Code indicating the product surface, layer or position that is being described Refer to 003020 Data Element Dictionary for acceptable code values.	O ID 2/2

**Segment:** **N1** Name

**Position:** 210

**Loop:** N1 Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

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

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

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

**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.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>M</b>	<b>N101</b> 98 <b>Entity Identifier Code</b>	<b>M ID 2/2</b>
	Code identifying an organizational entity or a physical location.	
	ST Ship To	
	<b>N102</b> 93 <b>Name</b>	<b>X AN 1/35</b>
	Free-form name	
	<b>N103</b> 66 <b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
	Code designating the system/method of code structure used for Identification Code (67)	
	1 Dun and Bradstreet (Credit Reporting) (DUNS)	
	92 Assigned by Buyer or Buyer's Agent	
	<b>N104</b> 67 <b>Identification Code</b>	<b>X AN 2/17</b>
	Code identifying a party.	



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

**Position:** 290

**Loop:** SDP Mandatory

**Level:** Detail

**Usage:** Mandatory

**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.</u>	<u>Data</u>		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SDP01	678	<b>Ship/Delivery or Calendar Pattern Code</b>	<b>M ID 1/2</b>
			Code which specifies the days for routine shipments or deliveries. Refer to 003020 Data Element Dictionary for acceptable code values.	
M	SDP02	679	<b>Ship/Delivery Pattern Time Code</b>	<b>M ID 1/1</b>
			Code which specifies the time for routine shipments or deliveries Z Mutually Defined	
X	SDP03	678	<b>Ship/Delivery or Calendar Pattern Code</b>	<b>O ID 1/2</b>
			Code which specifies the days for routine shipments or deliveries. Refer to 003020 Data Element Dictionary for acceptable code values.	
X	SDP04	679	<b>Ship/Delivery Pattern Time Code</b>	<b>O ID 1/1</b>
			Code which specifies the time for routine shipments or deliveries Refer to 003020 Data Element Dictionary for acceptable code values.	
X	SDP05	678	<b>Ship/Delivery or Calendar Pattern Code</b>	<b>O ID 1/2</b>
			Code which specifies the days for routine shipments or deliveries. Refer to 003020 Data Element Dictionary for acceptable code values.	
X	SDP06	679	<b>Ship/Delivery Pattern Time Code</b>	<b>O ID 1/1</b>
			Code which specifies the time for routine shipments or deliveries Refer to 003020 Data Element Dictionary for acceptable code values.	
X	SDP07	678	<b>Ship/Delivery or Calendar Pattern Code</b>	<b>O ID 1/2</b>
			Code which specifies the days for routine shipments or deliveries. Refer to 003020 Data Element Dictionary for acceptable code values.	
X	SDP08	679	<b>Ship/Delivery Pattern Time Code</b>	<b>O ID 1/1</b>

Code which specifies the time for routine shipments or deliveries  
Refer to 003020 Data Element Dictionary for acceptable code values.

**Segment:** **FST** Forecast Schedule

**Position:** 300

**Loop:** SDP Mandatory

**Level:** Detail

**Usage:** Mandatory

**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:**

- 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 If FST03 - "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.
  - 3 FST06 - To qualify 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 "AM" or "PM".

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
M	FST01	380	Quantity	M R 1/15
			Numeric value of quantity	
M	FST02	680	Forecast Qualifier	M ID 1/1
			Code specifying the sender's confidence level of the forecast data.	
			A Immediate	
			C Firm	
			D Planning	
M	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)	
			W Weekly Bucket (Monday through Sunday)	
M	FST04	373	Date	M DT 6/6
			Date (YYMMDD)	
	FST05	373	Date	O DT 6/6
			Date (YYMMDD)	
X	FST06	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time	
			Refer to 003020 Data Element Dictionary for acceptable code values.	

<b>X</b>	<b>FST07</b>	<b>337</b>	<b>Time</b>	<b>X TM 4/6</b>
			Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	
<b>X</b>	<b>FST08</b>	<b>128</b>	<b>Reference Number Qualifier</b>	<b>X ID 2/2</b>
			Code qualifying the Reference Number. Refer to 003020 Data Element Dictionary for acceptable code values.	
<b>X</b>	<b>FST09</b>	<b>127</b>	<b>Reference Number</b>	<b>X AN 1/30</b>
			Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	

**Segment:** **ATH** Resource Authorization  
**Position:** 320  
**Loop:** LIN Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 20  
**Purpose:** To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule

- Syntax Notes:**
- 1 At least one of ATH02 or ATH03 is required.
  - 2 If ATH03 is present, then ATH05 is required.
  - 3 If ATH04 is present, then ATH05 is required.

**Semantic Notes:**

- Comments:**
- 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
  - 2 ATH02 - Resource Authorization Thru-Date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
  - 3 ATH03 - Current Cumulative Requirements Quantity: The cumulative quantity that has been authorized to-date from the cumulative start-date (ATH05) through the resource authorization thru-date (ATH02).
  - 4 ATH04 - Maximum Cumulative Requirements Quantity: The maximum cumulative quantity that has been authorized to-date from the cumulative start -date (ATH05) through the resource authorization thru-date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.
  - 5 ATH05 - Cumulative Start-Date: The date where the cumulative quantity count starts. This date might be the start-date of a contract period, a calendar or fiscal year, or other.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	ATH01	672 Resource Authorization Code	M ID 2/2
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI Finished (Labor, Material, and Overhead/Burden)	
		MT Material	
		PQ Cumulative Quantity Required Prior to First Schedule Period	
X	ATH02	373 Date	X DT 6/6
		Date (YYMMDD)	
	ATH03	380 Quantity	X R 1/15
		Numeric value of quantity	
X	ATH04	380 Quantity	O R 1/15
		Numeric value of quantity	

**ATH05 373 Date**  
Date (YYMMDD)

**X DT 6/6**

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

**Position:** 330

**Loop:** SHP Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify shipment and/or receipt information

**Syntax Notes:** 1 If SHP01 is present, then SHP02 is required.

2 If SHP04 is present, then SHP03 is required.

**Semantic Notes:**

- 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 = "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.
  - 3 SHP04 - The date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
  - 4 SHP06 - The cumulative quantity end date.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element Name</u>	
SHP01	<b>673 Quantity Qualifier</b> Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	<b>O ID 2/2</b>
SHP02	<b>380 Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
SHP03	<b>374 Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 050 Received 051 Cumulative Quantity Start	<b>X ID 3/3</b>
SHP04	<b>373 Date</b> Date (YYMMDD)	<b>O DT 6/6</b>
X SHP05	<b>337 Time</b> Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	<b>O TM 4/6</b>
SHP06	<b>373 Date</b> Date (YYMMDD) Last Receipt Date	<b>O DT 6/6</b>
X SHP07	<b>337 Time</b> Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	<b>O TM 4/6</b>

**Segment:** **REF** Reference Numbers  
**Position:** 340  
**Loop:** SHP Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 5  
**Purpose:** To specify identifying numbers.  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	REF01	128	<b>Reference Number Qualifier</b> Code qualifying the Reference Number. SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/2
	REF02	127	<b>Reference Number</b> Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Last Receipt Shipper Number	X AN 1/30
X	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80



**Segment:** **CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** 1 If CTT03 is present, then CTT04 is required.

2 If CTT05 is present, then CTT06 is required.

**Semantic Notes:**

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

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354 <b>Number of Line Items</b>	M N0 1/6
		Total number of line items in the transaction set	
	CTT02	347 <b>Hash Total</b>	O R 1/10
		Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	
		Example:	
		-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	
	CTT03	81 <b>Weight</b>	O R 1/8
		Numeric value of weight	
	CTT04	355 <b>Unit or Basis for Measurement Code</b>	X ID 2/2
		Code identifying the basic unit of measurement. Refer to 003020 Data Element Dictionary for acceptable code values.	
	CTT05	183 <b>Volume</b>	O R 1/8
		Value of volumetric measure	
	CTT06	355 <b>Unit or Basis for Measurement Code</b>	X ID 2/2
		Code identifying the basic unit of measurement. Refer to 003020 Data Element Dictionary for acceptable code values.	
	CTT07	352 <b>Description</b>	O AN 1/80
		A free-form description to clarify the related data elements and their content	

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

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 SE is the last segment of each transaction set.

#### Data Element Summary

	Ref.	Data		Attributes
		<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SE01	96	Number of Included Segments	M N0 1/6
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number assigned by the originator for a transaction set.	