

# 830 Planning Schedule with Release Capability

Functional Group ID=**PS**

## Introduction:

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

## Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BFR	Beginning Segment for Planning Schedule	M	1		
	050	REF	Reference Identification	O	12		

## 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		
	050	REF	Reference Identification	O	9999		
			LOOP ID - FST		>1		
	410	FST	Forecast Schedule	O	1	n1	

## Summary:

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

## Transaction Set Notes

1. At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
2. Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

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

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 3/3</b>
M	ST02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	<b>M AN 4/9</b>

**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>
M	BFR01	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set 00 Original SU Status Update ZZ Mutually Defined	M ID 2/2
	BFR02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Document Number	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 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 C Cumulative Quantities	M ID 1/1
	BFR06	373	<b>Date</b> Date expressed as CCYYMMDD Made Optional	O DT 8/8
X	BFR07	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
	BFR08	373	<b>Date</b> Date expressed as CCYYMMDD Made Optional	O DT 8/8
X	BFR09	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
X	BFR10	367	<b>Contract Number</b>	O AN 1/30

			Contract number	
X	BFR11	324	<b>Purchase Order Number</b>	O AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
X	BFR12	783	<b>Planning Schedule Type Code</b>	O ID 2/2
			Code identifying type of planning schedule used	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BFR13	306	<b>Action Code</b>	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>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
			91 Cost Element A subdivision of costs defined by the accounting structure and the level that costs are recorded at within a cost accounting system (examples are labor, material, other direct costs)	
			AG Purchasing Org BHTI or BHCM	
			AP Supplier Contact May be blank if number has not been assigned	
			DG Drawing Number	
			EK Buyer Buyer Code	
			LF Supplier Number Seller Location	
			WE Ship Location Buyer Location	
			PO GOA	
	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O

**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**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
	LIN01	350	<b>Assigned Identification</b>	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Not used	
M	LIN02	235	<b>Product/Service ID Qualifier</b>	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			PN Company Part Number	
M	LIN03	234	<b>Product/Service ID</b>	M AN 1/48
			Identifying number for a product or service	
			Part Number or Material Code	
X	LIN04	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LIN05	234	<b>Product/Service ID</b>	X AN 1/48
			Identifying number for a product or service	
X	LIN06	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LIN07	234	<b>Product/Service ID</b>	X AN 1/48
			Identifying number for a product or service	
X	LIN08	235	<b>Product/Service ID Qualifier</b>	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

X	LIN09	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
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 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN11	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
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 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN13	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
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 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN15	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
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 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN17	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
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 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN19	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN20	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN21	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN22	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN23	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN24	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN25	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN26	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2

X	LIN27	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN28	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN29	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	LIN30	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	LIN31	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48

Segment: **REF** Reference Identification

**Position:**  
**Loop:**  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 99  
**Purpose:** To specify identifying information  
**Syntax Notes:**

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

**Semantic Notes:**

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

**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 91 Cost Element A subdivision of costs defined by the accounting structure and the level that costs are recorded at within a cost accounting system (examples are labor, material, other direct costs) DG Drawing Number	M	ID 2/3
	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/30
	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X	AN 1/80
	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	

<b>Segment:</b>	<b>FST</b> Forecast Schedule
<b>Position:</b>	410
<b>Loop:</b>	FST Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the forecasted dates and quantities
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either FST06 or FST07 is present, then the other is required.</li> <li>2 If either FST08 or FST09 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>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.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol>

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	FST01	380	<b>Quantity</b> Numeric value of quantity	M R 1/15
M	FST02	680	<b>Forecast Qualifier</b> Code specifying the sender's confidence level of the forecast data or an action associated with a forecast Z Mutually Defined	M ID 1/1
M	FST03	681	<b>Forecast Timing Qualifier</b> Code specifying interval grouping of the forecast Z Mutually Defined	M ID 1/1
M	FST04	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
X	FST05	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
X	FST06	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 3/3
X	FST07	337	<b>Time</b> 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
X	FST08	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	FST09	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	FST10	783	<b>Planning Schedule Type Code</b> Code identifying type of planning schedule used Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

**Segment:** **CTT Transaction Totals**  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.  
 2 If either CTT05 or CTT06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set	M N0 1/6
	CTT02	347	<b>Hash Total</b> 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.	O R 1/10
	CTT03	81	<b>Weight</b> Numeric value of weight	X R 1/10
	CTT04	355	<b>Unit or Basis for Measurement Code</b> 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.	X ID 2/2
	CTT05	183	<b>Volume</b> Value of volumetric measure	X R 1/8
	CTT06	355	<b>Unit or Basis for Measurement Code</b> 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.	X ID 2/2
	CTT07	352	<b>Description</b> A free-form description to clarify the related data elements and their content	O AN 1/80

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