

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>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BFR	Beginning Segment for Planning Schedule	M	1		
Must Use	060	PER	Administrative Communications Contact	M	3		
LOOP ID - N1						200	
Must Use	230	N1	Name	M	1		

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	
Must Use	010	LIN	Item Identification	M	1		
Must Use	020	UIT	Unit Detail	M	1		
Must Use	080	PID	Product/Item Description	M	1000		
Must Use	230	ATH	Resource Authorization	M	20		
Must Use	230	ATH	Resource Authorization	M	20		
LOOP ID - FST						>1	
Must Use	410	FST	Forecast Schedule	M	1		n1
LOOP ID - SHP						25	
Must Use	470	SHP	Shipped/Received Information	M	1		
Must Use	480	REF	Reference Identification	M	5		
Must Use	470	SHP	Shipped/Received Information	M	1		

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	M	1		n2
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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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
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BFR** Beginning Segment for Planning Schedule
Position: 020
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates
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 Code identifying purpose of transaction set (e.g. 00 = Original; 01 = Cancellation; 02 = Add; 03 = Delete; 04 = Change; 05 = Replace) Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	BFR02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Must Use	BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 1/1
Must Use	BFR06	373	Date Date (YYMMDD)	M DT 6/6
Must Use	BFR07	373	Date Date (YYMMDD)	M DT 6/6
Must Use	BFR08	373	Date Date (YYMMDD)	M DT 6/6

Segment: **PER** Administrative Communications Contact
Position: 060
Loop:
Level: Heading:
Usage: Mandatory
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
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	M ID 2/2
Must Use	PER02	93	Name Free-form name	M AN 1/35
Must Use	PER03	365	Communication Number Qualifier Code identifying the type of communication number (e.g. TE = Telephone; FX = Facsimile) Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	PER04	364	Communication Number Complete communications number including country or area code when applicable	M AN 1/80

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Segment: **N1** Name
Position: 230
Loop: N1 Mandatory
Level: Heading:
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual	M ID 2/2
			MI Planning Schedule/Material Release Issuer	
			ST Ship To	
			SU Supplier/Manufacturer	
			When SU is used, N103 = 92	
Must Use	N102	93	Name Free-form name	M AN 1/35
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	M ID 1/2
			1 D-U-N-S Number, Dun & Bradstreet	
			92 Assigned by Buyer or Buyer's Agent	
Must Use	N104	67	Identification Code Code identifying a party or other code	M AN 2/20

Segment: **LIN** Item Identification
Position: 010
Loop: LIN Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
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>		
Must Use	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	M ID 2/2
Must Use	LIN03	234	Product/Service ID Identifying number for a product or service	M AN 1/40
Must Use	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	M ID 2/2
Must Use	LIN05	234	Product/Service ID Identifying number for a product or service	M AN 1/40
Must Use	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PL Purchaser's Order Line Number	M ID 2/2
Must Use	LIN07	234	Product/Service ID Identifying number for a product or service	M AN 1/40
Must Use	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level	M ID 2/2
Must Use	LIN09	234	Product/Service ID Identifying number for a product or service	M AN 1/40

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use) (e.g. UIT = Unit Detail)	M
Must Use	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 2/2

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

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

Comments:

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

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

Segment: **ATH Resource Authorization**
Position: 230
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

Semantic Notes:

- 1 ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
- 2 ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).
- 3 ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

Comments:

- 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
- 2 ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ATH01	672	Resource Authorization Code Code identifying the resource which the buyer is authorizing the seller to commit to	M ID 2/2
			PQ	Cumulative Quantity Required Prior to First Schedule Period
Must Use	ATH03	380	Quantity Numeric value of quantity	M R 1/15
Must Use	ATH05	373	Date Date (YYMMDD)	M DT 6/6

Segment: **ATH Resource Authorization**
Position: 230
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

Semantic Notes:

- 1 ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
- 2 ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).
- 3 ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

Comments:

- 1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
- 2 ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ATH01	672	Resource Authorization Code Code identifying the resource which the buyer is authorizing the seller to commit to	M ID 2/2
			FI Finished (Labor, Material, and Overhead/Burden)	
			MT Material	
Must Use	ATH02	373	Date Date (YYMMDD)	M DT 6/6
Must Use	ATH03	380	Quantity Numeric value of quantity	M R 1/15
Must Use	ATH05	373	Date Date (YYMMDD)	M DT 6/6

Segment: **FST Forecast Schedule**
Position: 410
Loop: FST Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify the forecasted dates and quantities
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 Numeric value of quantity	M R 1/15
Must Use	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast (e.g. C = Firm; D = Planning) Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 1/1
Must Use	FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast (e.g. A = Annually (Calendar Year); C = Daily; M = Monthly Bucket (Calendar Months); W = Weekly Bucket (Monday through Sunday)) Refer to 003060 Data Element Dictionary for acceptable code values.	M ID 1/1
Must Use	FST04	373	Date Date (YYMMDD)	M DT 6/6

Segment: **SHP** Shipped/Received Information
Position: 470
Loop: SHP Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify shipment and/or receipt information
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. Des.	Data Element	Name	Attributes
Must Use	SHP01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity	M ID 2/2
Must Use	SHP02	380	Quantity Numeric value of quantity	M R 1/15
Must Use	SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received	M ID 3/3
Must Use	SHP04	373	Date Date (YYMMDD)	M DT 6/6

Segment: **REF** Reference Identification
Position: 480
Loop: SHP Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 5
Purpose: To specify identifying information
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 Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30

Segment: **SHP** Shipped/Received Information
Position: 470
Loop: SHP Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify shipment and/or receipt information
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. Des.	Data Element	Name	Attributes
Must Use	SHP01	673	Quantity Qualifier Code specifying the type of quantity	M ID 2/2
			02 Cumulative Quantity	
Must Use	SHP02	380	Quantity Numeric value of quantity	M R 1/15
Must Use	SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	M ID 3/3
			051 Cumulative Quantity Start	
Must Use	SHP04	373	Date Date (YYMMDD)	M DT 6/6
Must Use	SHP06	373	Date Date (YYMMDD)	M DT 6/6

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
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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
	CTT02	347	Hash Total 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.	O R 1/10

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
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>	
Must Use	SE01	96 Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
Must Use	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