

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		
						200	
	230	N1	Name	O	1		
	250	N3	Address Information	O	2		
	260	N4	Geographic Location	O	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>
						>1	
M	010	LIN	Item Identification	M	1		
	020	UIT	Unit Detail	O	1		
	080	PID	Product/Item Description	O	1000		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
						260	
	450	SDP	Ship/Delivery Pattern	O	1		
	460	FST	Forecast Schedule	O	260		
						25	
	470	SHP	Shipped/Received Information	O	1		
	480	REF	Reference Identification	O	5		

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	020	SE	Transaction Set Trailer	M	1		

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	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
M	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

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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	BFR01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
	BFR03	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	X AN 1/30
M	BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based	M ID 2/2
M	BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	M ID 1/1
M	BFR06	373	Date Date expressed as CCYYMMDD	M DT 8/8
	BFR07	373	Date Date expressed as CCYYMMDD	O DT 8/8
M	BFR08	373	Date Date expressed as CCYYMMDD	M DT 8/8

Segment: **N1** Name
Position: 230
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		MI Planning Schedule/Material Release Issuer	
		ST Ship To	
		SU Supplier/Manufacturer	
	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)	
		1 D-U-N-S Number, Dun & Bradstreet	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: N3 Address Information
Position: 250
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
M	N301	166	Address Information Address information	M 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.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
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

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	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
M	LIN03	234	Product/Service ID Identifying number for a product or service	M AN 1/48
	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	X ID 2/2
	LIN05	234	Product/Service ID Identifying number for a product or service	X AN 1/48
	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) VP Vendor's (Seller's) Part Number	X ID 2/2
	LIN09	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

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
M	UIT01	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	M
M	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 LB Pound	M ID 2/2

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.
- 3 If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID04 is required.
- 5 If PID09 is present, then PID05 is required.

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

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

Segment: **PER** Administrative Communications Contact
Position: 150
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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
	PER02	93 Name Free-form name	O AN 1/60
	PER03	365 Communication Number Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364 Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **ATH** Resource Authorization
Position: 230
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify resource authorizations (i.e., finished labor, material, etc.) in the planning schedule

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

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

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

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>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	
	ATH02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
	ATH03	380	Quantity	X R 1/15
			Numeric value of quantity	
	ATH05	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

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>
M	SDP01	678	Ship/Delivery or Calendar Pattern Code Code which specifies the routine shipments, deliveries, or calendar pattern N As Directed	M ID 1/2
M	SDP02	679	Ship/Delivery Pattern Time Code Code which specifies the time for routine shipments or deliveries F As Directed	M ID 1/1

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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	FST01	380	Quantity Numeric value of quantity	M R 1/15
M	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast D Planning	M ID 1/1
M	FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast F Flexible Interval (from Date X through Date Y) W Weekly Bucket (Monday through Sunday)	M ID 1/1
M	FST04	373	Date Date expressed as CCYYMMDD	M DT 8/8

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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative 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
SHP06	373	Date Date expressed as CCYYMMDD	O DT 8/8

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

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	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
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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