

830 Planning Schedule with Release Capability

Functional Group ID=**PS**

Introduction:

This standard contains the format and establishes the data contents of a Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. 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 material; (3) a forecast that is also used as an order release mechanism. The order release forecast may also contain data related to purchase orders.

Table 1: 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		
						200	
	230	N1	Name	O	1		
	150	PER	Administrative Communications Contact	O	3		

Table 2: 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>
						10000	
Must Use	010	LIN	Item Identification	M	1		
Must Use	020	UIT	Unit Detail	M	1		
	130	PRS	Part Release Status	O	1		
	140	REF	Reference Identification	O	12		
	230	ATH	Resource Authorization	O	20		
						260	
	410	FST	Forecast Schedule	O	1		
						25	
	470	SHP	Shipped/Received Information	O	1		
	480	REF	Reference Identification	O	5		

Table 3: 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>
Must Use	010	CTT	Transaction Totals	M	1		
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. At least one occurrence of segment FST is required in the FST loop.
2. Number of line items (CTT01) is the accumulation of the number of LIN segments.
3. 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) used by the translation routines of the interchange partners to select the appropriate transaction set definition.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 830 Planning Schedule with Release Capability	M ID 3/3
>>	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:

Semantic Notes:

- 2 BFR06 Forecast Horizon Start Date: The date when the forecast horizon begins.
- 3 BFR07 Forecast Horizon End Date: The date when the forecast horizon ends.
- 4 BFR08 Date Forecast Generated: The date the forecast data was generated.

Comments:

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	BFR01	Transaction Set Purpose Code Code identifying purpose of transaction set 05 Replace This code is used when a complete part schedule is sent.	M ID 2/2
	BFR02	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Assigned during transmission	X AN 1/30
>>	BFR04	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 DL dates specify when material is scheduled to arrive at the receiving location. SH Shipment Based SH dates specify when the material is scheduled to leave the shipping location.	M ID 2/2
>>	BFR05	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	M ID 1/1
>>	BFR06	Beginning Forecast Date Date expressed as YYYYMMDD Earliest requirement date on this release.	M DT 8/8
	BFR07	Ending Forecast Date Date expressed as YYYYMMDD Last requirement date on this release.	O DT 8/8
>>	BFR08	Date Date expressed as YYYYMMDD Forecast generation date.	M DT 8/8
	BFR11	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Purchase order number for all parts on this release.	O AN 1/22

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.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N101	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	
		Party responsible for establishing the contract. Can only use 1, 12 or ZZ in the N103.	
		Location where the Material Release Issuer (MI) wants the Supplier (SU) to ship to.	
		Party responsible for the material or service.	
N102	93	Name	X AN 1/60
		Free-form name	
		Name of the MI, ST or SU.	
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	
		12 Telephone Number (Phone)	
		ZZ Mutually Defined	
N104	67	Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: **PER** Administrative Communications Contact

Position: 280
Loop: N1 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.
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer	M ID 2/2
PER02	93	Contact Name Free-form name	O AN 1/60
PER03	365	Contact Communication Qualifier Code identifying the type of communication number TE Telephone	X ID 2/2
PER04	364	Contact Communication - Telephone Number Complete communications number including country or area code when applicable	X AN 1/80

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 LIN02 or LIN03 is present, then the other is required.
- 2 If either LIN04 or LIN05 is present, then the other is required.
- 3 If either LIN06 or LIN07 is present, then the other is required.
- 4 If either LIN08 or LIN09 is present, then the other is required.

Semantic Notes:
Comments:

- 1 LIN02 through LIN09 provide for different product/service IDs for each item.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>> 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
>> LIN03	234	Product/Service ID - Buyer's Part Number 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) VP Vendor Part	X ID 2/2
>> LIN05	234	Product/Service ID - Vendor's Part Number Identifying number for a product or service	X AN 1/48
LIN06	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
LIN07	234	Product/Service ID - PO Number 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) EC Engineering Change Level	X ID 2/2
LIN09	234	Product/Service ID - Engineering Change Level Identifying number for a product or service	X AN 1/48

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>> UIT01	355	Unit or Basis for Measurement Code	M ID 2/2
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
UIT01 is a composite data element, C001, which contains 15 simple data elements. Only the first component of the composite, data element 355, is used.			
Always send "EA".			

Segment: **PRS** Part Release Status
Position: 130
Loop: LIN Mandatory
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To indicate the status of the part being ordered or forecast with respect to this material release or planning document

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	PR01	Part Release Status Code	M ID 1/2
	682	Code identifying the status of the specific part number being released or forecast or being used in an engineering change	
		7 Final Release for this Cancelled Part	
		B Balance-Out Part; Eng. Change Pending	

Segment: REF Reference Identification
Position: 140
Loop: LIN Mandatory
Level: Detail:
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary			
Ref. Des.	Data Element	Name	Attributes
>> REF01	128	Reference Number Qualifier Code qualifying the Reference Identification DK Dock Number	M ID 2/3
REF02	127	Reference Number - Dock Code Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

ATH Resource Authorization

Segment: 230
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.
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.

Data Element Summary

Ref. Des.	Data Element	Name	<u>Attributes</u>		
>>	ATH01	672 Resource Authorization Code Code identifying the resource which the buyer is authorizing the seller to commit to	FI MT	Finished (Labor, Material, and Overhead/Burden) Material	M ID 2/2
	ATH02	373 Date Date expressed as YYYYMMDD			X DT 8/8
	ATH03	380 Quantity Numeric value of quantity			X R 1/15
	ATH05	373 Date Date expressed as YYYYMMDD Cumulative Start Date.			X DT 8/8

Segment: **FST Forecast Schedule**

Position: 410
Loop: FST Optional
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify the forecasted dates and quantities

Syntax Notes:
1 If either FST06 or FST07 is present, then the other is required.
2 If either FST08 or FST09 is present, then the other is required.

Semantic Notes:
Comments:
1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly)
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	FST01	380 Net Quantity Numeric value of quantity	M R 1/15
>>	FST02	680 Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm D Planning	M ID 1/1
>>	FST03	681 Forecast Timing Qualifier Code specifying interval grouping of the forecast D Discrete M Monthly Bucket (Calendar Months) W Weekly Bucket (Monday through Sunday)	M ID 1/1
>>	FST04	373 Requirement Date Date expressed as YYYYMMDD	M DT 8/8
	FST06	374 Requirement Date/Time Qualifier Code specifying type of date or time, or both date and time 002 Delivery Requested 010 Requested Ship	X ID 3/3
	FST07	337 Requirement Time Time expressed in 24-hour clock time as follows: HHMM: where HH = hours (00-23), MM = minutes (00-59).	X TM 4/8
	FST08	128 Reference Number Qualifier Code qualifying the Reference Identification DO Delivery Order Number	X ID 2/3
	FST09	127 Reference Number - RAN Number Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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 SHP04 is required.
Semantic Notes: 1 SHP04 is the date received or the cumulative quantity start date (as qualified by SHP03).
Comments: 1 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities and dates.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Quantity Qualifier</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 When SHP01 = 01 Last received discrete quantity. When SHP01 = 02 Cum received quantity.	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received When SHP01 = 01 051 Cumulative Quantity Start When SHP01 = 02	X ID 3/3
SHP04	373	Date Date (YYMMDD) When SHP03 = 50 Last received date When SHP03 = 51 Cum start date	X DT 6/6

Segment: REF Reference Identification
Position: 480
Loop: SHP Optional
Level: Detail:
Usage: Optional
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>> REF01	128	Reference Number 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 Number - Bill of Lading Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>> 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. 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

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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	<u>Des.</u> SE01	<u>Element</u> 96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
>>	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

Example:

ST*830*0142~
BFR*05*00000001**DL*A*20041005*20050211*20041007***000000000~
N1*ST*SUMITOMO ELECTRIC WIRING SYSTEMS*92*942257585~
PER*BD*Sumitomo Electric Wiring Systems, Inc. *TE*(270) 782-7397~
LIN**BP*18003170*VP*1318332-1~
UIT*EA~
FST*189000*D*M*20041227~
FST*182000*D*M*20050103~
FST*189000*D*M*20050110~
FST*189000*D*M*20050117~
FST*49000*D*M*20050124~
FST*49000*D*M*20050131~
LIN**BP*18003174*VP*1565963-2~
UIT*EA~
FST*15000*D*M*20050117~
LIN**BP*18003176*VP*1565963-1~
UIT*EA~
FST*20000*D*M*20050110~
FST*55000*D*M*20050117~
LIN**BP*18003195*VP*1612776-1~
UIT*EA~
FST*105000*D*M*20041227~
FST*98000*D*M*20050103~
FST*98000*D*M*20050110~
FST*91000*D*M*20050117~
FST*21000*D*M*20050124~
FST*28000*D*M*20050131~
LIN**BP*18003201*VP*638551-2~
UIT*EA~
FST*28000*D*M*20041101~
FST*28000*D*M*20041129~
LIN**BP*18003343*VP*1612124-3~
UIT*EA~
FST*8000*D*M*20041227~
FST*8000*D*M*20050103~
FST*12000*D*M*20050110~
FST*12000*D*M*20050117~
LIN**BP*18003372*VP*1674311-1~
UIT*EA~
FST*590000*D*M*20041227~
FST*560000*D*M*20050103~
FST*560000*D*M*20050110~
FST*720000*D*M*20050117~
CTT*171*46185940~
SE*7*0142~