

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		

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		
	150	PER	Administrative Communications Contact	O	3		
	230	ATH	Resource Authorization	O	20		
	260	N1	Name	O	200		
						260	
	410	SDP	Ship Delivery Pattern	O	1		
	410	FST	Forecast Schedule	O	260		
						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. (optional)

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.</u> <u>Des.</u>	<u>Data</u> <u>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	Name	Attributes
<<	Des.	Element	ID
>>	BFR01	353	M ID 2/2
		Transaction Set Purpose Code	
		Code identifying purpose of transaction set	
		05	Replace
			This code is used when a complete part schedule is sent.
	BFR03	328	X AN 1/30
		Release Number	
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
			Assigned during transmission
>>	BFR04	675	M ID 2/2
		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.
>>	BFR05	676	M ID 1/1
		Schedule Quantity Qualifier	
		Code identifying the type of quantities used when defining a schedule or forecast	
		A	Actual Discrete Quantities
>>	BFR06	373	M DT 8/8
		Beginning Forecast Date	
		Date expressed as CCYYMMDD	
			Earliest requirement date on this release.
	BFR07	373	O DT 8/8
		Ending Forecast Date	
		Date expressed as CCYYMMDD	
			Last requirement date on this release.
>>	BFR08	373	M DT 8/8
		Date	
		Date expressed as CCYYMMDD	
			Forecast generation date.
	BFR11	324	O AN 1/22
		Purchase Order Number	
		Identifying number for Purchase Order assigned by the orderer/purchaser	
			Purchase order number for all parts on this release.

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	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	
		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)	
		01 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: **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.

Semantic Notes:

Comments: 1 LIN02 through 07 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) PO Purchase Order Number	X ID 2/2
LIN05	234	Product/Service ID – Purchase Order 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) ZZ 3 rd party Purchase Order Number	X ID 2/2
LIN07	234	Product/Service ID – 3rd party PO Number 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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>> <u>UIT01</u>	<u>355</u>	<u>Unit or Basis for Measurement Code</u>	<u>M ID 2/2</u>
		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.	

Refer to 003020 Data Element Dictionary for acceptable code values.

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>
>>	<u>Des.</u> PRS01	<u>Element</u> 682	<u>Part Release Status Code</u> M ID 1/2
		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

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

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.
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>> PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named EX Expeditor	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: **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.

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

Segment: **N1** Name
Position: 230
Loop: N1 Optional
Level: Detail:
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	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To Location where the Material Release Issuer (MI) wants the Supplier (SU) to ship to.	M ID 2/3
N102	93	Name Free-form name Name of the ST .	X AN 1/60
N103	66	Identification Code Qualifier 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	X ID 1/2
N104	67	Identification Code Code identifying a party or other code	X AN 2/80

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.

Notes: Purpose: Indicate to Supplier that for this material release the delivery pattern is "As Directed".

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 "Y" indicating Shipment/Delivery Timing of "As Directed". Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
M	SDP02	679	Ship/Delivery Pattern Time Code Code which specifies the time for routine shipments or deliveries Always "Y" indicating Shipment/Delivery Timing of "As Directed". Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1

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			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</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 CCYYMMDD	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. Des.</u>	<u>Data Element</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 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.</u>	<u>Data</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>	<u>Element</u>		
>>	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 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 830 (Example below is provided as-is and does not preclude definitions above).

ISA*00* *00* *01*INERGYISA *01*SUPPLIERISA
*040212*1154*U*00400*000000001*0*T*}
GS*PS*INERGY GS*SUPPLIERA_GS*20040212*1154*2*X*004010
ST*830*0001
BFR*00**2004021255*SH*A*20040206*20040330*20040212***PONBR
N1*MI**01*DUNS
N1*SU**ZZ*SUPPLIERTPADDRCODE
N1*ST**ZZ*INGERYTPSITECODE
LIN**BP*TESTITEM*PO*INERGY_PO*ZZ*ULTIMATE_PO
UIT*EA
PER*EX*BUYEREXPEDITORNAME*TE*555 444 3333
REF*DK*00
ATH*FI**0**20040201
ATH*MT**0**20040201
ATH*PQ**0**20040201
SDP*Y*Y
FST*0*C*W*20040201
FST*0*C*W*20040208
FST*0*C*W*20040215
FST*0*C*W*20040222
FST*0*C*W*20040301
FST*100*C*W*20040308
FST*0*D*W*20040315
SHP*01*60*050
REF*SI*SUPPLIERPSHIPPERID
SHP*02*660*051
CTT*1*100
SE*24*0001
GE*1*2
IEA*1*000000001