CRH

830 Planning Schedule with Release Capability

EDI 830 X12 version 4010

Implementation Guidelines

Filename: 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

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	ST	Transaction Set Header	M	1		
Must Use	BFR	Beginning Segment for Planning Schedule	M	1		
		LOOP ID - N1			200	
	N1	Name	O	1		
	DTM	Date	O	1		

Table 2: Detail

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN			10000	
Must Use	LIN	Item Identification	M	1		
Must Use	UIT	Unit Detail	M	1		
	PID	Product/Item Description	O	1		
	PRS	Part Release Status	O	1		
	REF	Reference Identification	O	12		
	PER	Administrative Communications Contact	O	3		
	SDP	Ship/Delivery Pattern	O	1		
		LOOP ID - FST			260	
	FST	Forecast Schedule	O	1		
		LOOP ID - SHP			25	
	SHP	Shipped/Received Information	O	1		
	REF	Reference Identification	O	12		

Table 3: Summary

	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	CTT	Transaction Totals	M	1		
Must Use	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.

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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

Ref. Des.	Name	Attributes
>> ST01	**Transaction Set Identifier Code**	**M** **ID 3/3**
	Code uniquely identifying a Transaction Set	
	830 Planning Schedule with Release Capability	
>> ST02	**Transaction Set Control Number**	**M** **AN 4/9**
	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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. Des.	Name	Attributes
>>	**BFR01**	**Transaction Set Purpose Code**	**M ID 2/2**
		Code identifying purpose of transaction set	
		05 Replace	
		This code is used when a complete part schedule is sent.	
	BFR02	**Reference Identification**	**X AN 1/30**
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
		Assigned during transmission	
>>	**BFR04**	**Schedule Type Qualifier**	**M ID 2/2**
		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**	**Schedule Quantity Qualifier**	**M ID 1/1**
		Code identifying the type of quantities used when defining a schedule or forecast	
		A Actual Discrete Quantities	
>>	**BFR06**	**Beginning Forecast Date**	**M DT 8/8**
		Date expressed as CCYYMMDD	
		Earliest requirement date on this release.	
	BFR07	**Ending Forecast Date**	**O DT 8/8**
		Date expressed as CCYYMMDD	
		Last requirement date on this release.	
>>	**BFR08**	**Date**	**M DT 8/8**
		Date expressed as CCYYMMDD	
		Forecast generation date.	

Segment: # N1 Name

Loop:	
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. Des.	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	
	Party responsible for establishing the contract. Can only use 1, 12 or ZZ in the N103.	
ST	Ship To	
	Location where the Material Release Issuer (MI) wants the Supplier (SU) to ship to.	
SF	Supplier/Manufacturer	
	Party responsible for the material or service.	

	Ref. Des.	Data Element	Name		Attributes
	N102	93	**Name**		**X** AN 1/60

Free-form name

Name of the MI, ST or SU.

	Ref. Des.	Data Element	Name		Attributes
	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

	Ref. Des.	Data Element	Name		Attributes
	N104	67	**Identification Code**		**X** AN 2/80

Code identifying a party or other code

Segment:	**DTM** Date/Time reference	
Position:	230	
Loop:		
Level:	Heading:	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify pertinent dates and times	
Syntax Notes:		
Semantic Notes:		
Comments:	**1**	Use a Date/time qualifier (DTM01) value of 097 to specify the creation date of document.

Data Element Summary

	Ref.	Name	Attributes	
>>	**DTM01**	**Date/Time Qualifier**	**M**	**ID 3/3**
		Code qualifying the date		
		097 Creation Date		
	DTM02	**Date**	**X**	**DT 8/8**
		Date YYYYMMDD		
	DTM03	**Time**	**X**	**TM 6/6**
		Time expressed in HHMMSS		

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. Des.	Data Element	Name	Attributes	
>>	**LIN02**	**235**	**Product/Service ID Qualifier**	**M** **ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			BP Buyer's Part Number	
>>	**LIN03**	**234**	**Product/Service ID - Buyer's Part Number**	**M** **AN 1/48**
			Identifying number for a product or service	
	LIN04	**235**	**Product/Service ID Qualifier**	**X** **ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			RY Record Keeping or Model Year	
	LIN05	**234**	**Product/Service ID - Model Year**	**X** **AN 1/48**
			Identifying number for a product or service	

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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

Ref. Des.	Data Element	Name	Attributes
>> 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

PC for Piece / EA for Each / CS for Case

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

Ref. Des.	Data Element	Name	Attributes
>> PRS01	682	**Part Release Status Code**	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
4	Default

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

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

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. Des.	Data Element	Name	Attributes		
>>	FST01	380	**Net Quantity**	M	R 1/15
			Numeric value of quantity		
>>	FST02	680	**Forecast Qualifier**	M	ID 1/1
			Code specifying the sender's confidence level of the forecast data or an action associated with a forecast		
			C Firm		
			D Planning		
>>	FST03	681	**Forecast Timing Qualifier**	M	ID 1/1
			Code specifying interval grouping of the forecast		
			D Discrete		
			M Monthly Bucket (Calendar Months)		
			W Weekly Bucket (Monday through Sunday)		
>>	FST04	373	**Requirement Date**	M	DT 8/8
			Date expressed as CCYYMMDD		

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

Ref. Des.	Data Element	Name	Attributes	
SHP01	673	Quantity Qualifier	O	ID 2/2
		Code specifying the type of quantity		
		01　　　　Discrete Quantity		
		02　　　　Cumulative Quantity		
SHP02	380	Quantity	X	R 1/15
		Numeric value of quantity		
		When SHP01 = 01 Last received discrete quantity.		
		When SHP01 = 02 Cum received quantity.		
SHP03	374	Date/Time Qualifier	X	ID 3/3
		Code specifying type of date or time, or both date and time		
		050　　　　Received		
		When SHP01 = 01		
		051　　　　Cumulative Quantity Start		
		When SHP01 = 02		
SHP04	373	Date	X	DT 8/8
		Date (CCYYMMDD)		
		When SHP03 = 50 Last received date		
		When SHP03 = 51 Cum start date		

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Segment:	**REF** Reference Identification
Position:	150
Loop:	SHP Optional
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**	**M**	**ID 2/3**
		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		
REF02	**127**	**Reference Number - Bill of Lading**	**X**	**AN 1/30**
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

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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

Ref. Des.	Data Element	Name	Attributes
>> 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

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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

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