

CAMACO, LLC

IMPLEMENTATION GUIDELINES FOR ANSI X12 EDI CONVENTIONS

830 TRANSACTION SET

Delivery/Planning Schedule

Version 03060

Revised March 31, 2008

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:
Comments: **1** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		830 X12.14 Planning Schedule	
>> ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a Transaction Set.	
		Also see: Data Interchange Control Number (28.)	

Segment: **BFR** Beginning Segment for Planning Schedule
Position: 020
Loop:
Level:
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:
Comments: 2 BFR02 is the identifying number for a forecast.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	BFR01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 05 Replace	M ID 2/2
>>	BFR02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Also see Reference Number Qualifier, (128). 830	C AN 1/30
>>	BFR03	373	Date Date (YYMMDD)	M DT 6/6
>>	BFR04	675	Schedule Type Qualifier Code which qualifies the type of dates used in the forecast. DL Delivery Based	M ID 2/2
>>	BFR05	676	Schedule Quantity Qualifier Code which qualifies the types of quantities. A Actual Discrete Quantities	M ID 1/1
>>	BFR07	373	Date Date (YYMMDD) Forecast Start Date	M DT 6/6
>>	BFR08	373	Date Date (YYMMDD) Forecast End Date	M DT 6/6
>>	BFR09	373	Date Date (YYMMDD) Date Forecast Created	M DT 6/6
>>	BFR11	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	O AN 1/16

Segment: **N1** Name
Position: 090
Loop: N1 Optional (Must Use)
Level:
Usage: Optional (Must Use)
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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
			ST Ship To SU Supplier/Manufacturer	
>>	N102	93	Name Free-form name	C AN 1/35
>>	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 DUNS number 92 Assigned by Buyer	C ID 1/2
>>	N104	67	Identification Code Code identifying a party.	C ID 2/17

Segment: **LIN** **Item Identification**
Position: 300
Loop: LIN Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If LIN04 is present, then LIN05 is required.
- 2 If LIN06 is present, then LIN07 is required.
- 3 If LIN08 is present, then LIN09 is required.
- 4 If LIN10 is present, then LIN11 is required.

Data Element Summary

	Ref.		Data			
	<u>Des.</u>		<u>Element</u>	<u>Name</u>		<u>Attributes</u>
>>	LIN01	350	Assigned Identification		O	AN 1/6
				Alphanumeric characters assigned for differentiation within a transaction set		
>>	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		M	AN 1/30
				Identifying number for buyer's part number		
>>	LIN04	235	Product/Service ID Qualifier		O	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
				VP Vendor's Part Number		
>>	LIN05	234	Product/Service ID		C	AN 1/30
				Identifying number for Vendor's Part Number,		
>>	LIN06	235	Product/Service ID Qualifier		O	ID 2/2
				Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
				PO Purchase Order Number		
>>	LIN07	234	Product/Service ID		C	AN 1/30
				Identifying number for buyer's Purchase Order number		

Segment: **UIT** **Unit Detail**
Position: 310
Loop: LIN Mandatory
Level:
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>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>
>>	UIT01	355	Unit or Basis for Measurement Code Code identifying the basic unit of measurement.

M ID 2/2

Segment: **PID** Ship/Delivery Pattern
Position: 570
Loop: LIN Mandatory
Level:
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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	PID01	349	Item Description Type Code indicating the format of a description. F Free-Form	M ID 1/1
>>	PID02	750	Product/Process Characteristic Code identifying the general class of a product or process characteristic	O ID 2/3
>>	PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values	X ID 2/2
>>	PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic	X 1/12
>>	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: 600
Loop: LIN Mandatory
Level:
Usage: Optional (Must Use)
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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	ATH01	672	Resource Authorization Code Code identifying the resource which the buyer is authorizing the seller to commit to FI Finished MT Material PQ Cumulative Quantity Required Prior to First Schedule	M ID 2/2
>>	ATH02	373	Date	C DT8/8
>>	ATH03	380	Quantity	C R 1/15
>>	ATH05	373	Date	C DT 8/8

Segment: **SDP** Ship/Delivery Pattern
Position: 570
Loop: SDP Mandatory
Level:
Usage: Mandatory
Max Use: 1
Purpose: To identify specific ship/delivery requirements

Data Element Summary

	Ref.	Data	Name	Attributes
	<u>Des.</u>	<u>Element</u>		
>>	SDP01	678	Ship/Delivery or Calendar Pattern Code Code which specifies the days for routine shipments or deliveries. N As Directed	M ID 1/2
>>	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: 580

Loop: SDP Mandatory

Level:

Usage: Mandatory

Max Use: 104

Purpose: To specify the forecasted dates and quantities

Syntax Notes:

- 1 If FST06 is present, then FST07 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, quarterly, etc.) or the start date of a flexible interval.
- 2 FST06 - To qualify 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 "AM" or "PM".

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	FST01	380	Quantity Numeric value of Quantity. Also see: Unit of Measurement Code (355).	M R 1/10
>>	FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data. A Immediate 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	Date Date (YYMMDD)	M DT 6/6

Segment: **SHP** Shipped/Received Information

Position: 610

Loop: SHP Optional (Must Use)

Level:

Usage: Optional (Must Use)

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:

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 = "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.
- 3 SHP04 - The date shipped, delivered, received, or the cumulative quantity start date (as qualified by SHP03).
- 4 SHP06 - The cumulative quantity end date.

Data Element Summary				
Ref.	Data			
	<u>Des.</u>	<u>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. Also see: Unit of Measurement Code (355).	C R 1/10
>>	SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped 050 Received 051 Cumulative Quantity Start	O ID 3/3
>>	SHP04	373	Date Date (YYMMDD)	C DT 6/6
>>	SHP06	373	Date Date (YYMMDD)	C DT 6/6

Segment: **REF** **Reference Numbers**
Position: 430
Loop: LIN Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying numbers.
Syntax Notes: 1 At least one of REF02 or REF03 is required.
Semantic Notes:
Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	REF01	128	Reference Number Qualifier Code qualifying the Reference Number. SI Shipper Number (SID)	M ID 2/2
>>	REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. Also see Reference Number Qualifier, (128).	C AN 1/30

Segment: **CTT** Transaction Totals
Position: 680
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If CTT03 is present, then CTT04 is required.
2 If CTT05 is present, then CTT06 is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> CTT01	354	Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	

Segment: **SE** Transaction Set Trailer
Position: 690
Loop:
Level:
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>Des.</u>	<u>Data</u> <u>Element</u> <u>Name</u>	<u>Attributes</u>
>>	SE01	96 Number of Included Segments	M N0 1/6
		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 assigned by the originator for a Transaction Set. Also see: Data Interchange Control Number (28.)	