

X12 Implementation Guidelines for Outbound Material Release (830 V2001)

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Date: May 1st, 2008 (830 V2001)

830 Planning Schedule with Release Capability

Functional Group ID= **PS**

Introduction:

This Standard 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.

	Pos. No.	Seq. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes
М	010	ST	Transaction Set Header	М	1		
М	020	BFR	Beginning Segment for Planning Schedule				
	030	NTE	Note / Special Instruction	F	100		
	050	REF	Reference Number	0	12		
			LOOP ID - N1			200	
	090	N1	Name	0	1		

			LOOP ID - LIN			10000
М	300	LIN	Item Identification	М	1	
М	310	UNT	Unit Detail	М	1	
	430	PRS	Part Release Status	0	1	
	440	REF	Reference Numbers	0	12	
	450	PER	Administrative Communications Contact	0	3	
			LOOP ID - SDP			104
М	580	SDP	Ship / Delivery Pattern	М	1	
М	590	FST	Forecast Schedule	М	104	
	610	ATH	Resource Authorization	0	20	
			LOOP ID - SHP			25
	620	SHP	Shipped / Received Information	0	1	
	630	REF	Reference Numbers	0	5	
М	690	CTT	Transaction Totals	М	1	
М	700	SE	Transaction Set Trailer	М	1	



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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. The

transaction set control number (ST02) in this header must match the

transaction set control number (SE02) in the transaction set trailer (SE).

Syntax Notes:

Notes: ST~830~000001>

	Ref. Des.	Data Element	Name	Attr	ibutes		
М	ST01	143	Transaction Set Identifier Code	М	ID 3/3		
			Code uniquely identifying a Transaction Set 830				
			X12.14 Planning Schedule				
М	ST02	329	Transaction Set Control Number	М	AN 4/9		
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				



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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.

Notes: The intent of this segment is to provide information for the entire

transaction. Some of this information (i.e., quantity qualifier) may be

overridden by subsequent segments in the transaction.

BFR~05~~501-1~SH~C~880801~890805~890304>

	Ref.	Data	Name	Attr	ibutes
М	Des. BFR01	Element 353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 – first release after annual cumulative reset 05 - Replace	M	ID 2/2
	BFR03	328	Release Number Number identifying a release against a Purchase Order placed by the parties involved in the transaction Program Number	C der pr	AN 1/30 eviously
М	BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when definited delivery time in a schedule or forecast BB Broadcast Based DL Delivery Based SH Shipment Based	M ng a s	ID 2/2 hipping or
М	BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when d or forecast "D" = discrete quantities	M efining	ID 1/1 g a schedule
М	BFR06	373	Date Date (YYMMDD) Date from which part quantity accumulations begin	М	DT 6/6
М	BFR07	373	Date Date (YYMMDD) Horizon End Date - Last Sunday of the Period in the	M Forec	DT 6/6
М	BFR08	373	Date Date (YYMMDD) Release Issue Date	М	DT 6/6



Date: May 1st, 2008 (830 V2001)

Segment: NTE Note / Special Instruction

Position: 030

Loop:

Level:

Usage: Floating
Max Use: 100

Purpose: To transmit information in a free-form format, if necessary, for comment or

special instruction

Syntax Notes:

Notes: This optional segment may appear anywhere within the transaction set

after the beginning segment (BFR) and before the transaction set trailer (SE). It may be used in all loops, except as the first or last in

that loop.

If used at the heading level, it will contain plant information such as scheduled shutdown. If used as the detail level, it will contain information related to a specific part, such as final release information.

NTE~GEN~THIS IS A GENERAL NOTE>

	Ref. Des.	Data Element	Name	Attr	ibutes
	NTE01	363	Note Reference Code Code identifying the functional area or purpose for vapplies GEN Entire Transaction Set LIN Line Item	O which t	ID 3/3 the note
М	NTE02	3	Free Form Message Free-form text	М	AN 1/60



Date: May 1st, 2008 (830 V2001)

Segment: **REF** Reference Numbers

Position: 050

Loop: Level:

Usage: Optional

Max Use: 12

Purpose: To specify identifying numbers.

Syntax Notes: 1 At least one of REF02 or REF03 is required.

	Ref. Des.	Data Element	Name	Attributes	
М	REF01	128	Reference Number Qualifier Code qualifying the Reference Number PG Product Group Release Product Group	М	ID 2/2
	REF02	127	Reference Number Reference number or identification number as defir Transaction Set, or as specified by the Reference N		



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Segment: **N1** Name

Position: 090

Loop: N1 Optional

Level:

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.

Notes: This N1 loop in the heading area will be used to identify the release

issuer (buyer), the seller (supplier) and the bill-to, ship-to and ship-

from locations.

N1~003~~92~1602A> N1~XXX~~92~M812B>

	Ref. Des.	Data Element	Name	Attr	ibutes
М	N101	98	Entity Identifier Code	М	ID 2/2
			Code identifying an organizational entity, a physical individual	locati	ion, or an
			SF Ship From (supplier code)		
			ST Ship To (site code)		
М	N103	66	Identification Code Qualifier	М	IDN 1/2
			Code designating the system/method of code struct Identification Code (67)	ture us	sed for
			92 Assigned by Buyer or Buyer's Agent		
М	N104	67	Identification Code	М	AN 5/5
			Code identifying a party or other code		



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LIN Item Identification **Segment:**

300 **Position:**

Loop: LIN Mandatory

Level:

Usage: Mandatory

Max Use:

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.

5 If LIN12 is present, then LIN13 is required.

6 If LIN14 is present, then LIN15 is required.

7

If LIN16 is present, then LIN17 is required.

8 If LIN18 is present, then LIN19 is required.

9 If LIN20 is present, then LIN21 is required.

If LIN22 is present, then LIN23 is required. 10

11 If LIN24 is present, then LIN25 is required.

12 If LIN26 is present, then LIN27 is required.

If LIN28 is present, then LIN29 is required. 13

If LIN30 is present, then LIN31 is required.

Notes:

Used for Linamar part number. This segment begins the detail loop. Linamar part number may consist of a prefix, base, suffix and control code. Any of these, except the base, may or may not be present. The portions of the part are delimited by spaces. In addition, LIN04 and LIN05 may be used to transmit a purchase order number.

LIN~~BP~E6SP 7E396 AA 040>

LIN~~BP~E6SP 7E396 AA 040~PO~FE 4397> (Part Number with

Control Number and Purchase Order Number)

LIN~~BP~7E396 AA 040> (Part Number without prefix)



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	Ref. Des.	Data Element	Name	Attr	ibutes
М	LIN02	235	Product / Service ID Qualifier	М	ID 2/2
			Code identifying the type / source of the descriptive	numb	per used in
			Product / Service ID (234)		
			BP Buyer's Part Number		
M	LIN03	234	Product / Service ID	М	AN 1/30
			Identifying number for a product or service		
			Linamar Part Number		
	LIN04	235	Product / Service ID Qualifier	0	ID 2/2
			Code identifying the type / source of the descriptive	numb	per used in
			Product / Service ID (234)		
			PO Purchase Order Number		
	LIN05	234	Product / Service ID	С	AN 1/30
			Identifying number for a product or service		
			Linamar Purchase Order Number		
	LIN06	235	Product / Service ID Qualifier	M	ID 2/2
			Code identifying the type / source of the descriptive	numb	per used in
			Product / Service ID (234)		
			LI Purchase Order Line Number		
	LIN07	234	Product / Service ID	М	AN 1/30
			Identifying number for a product or service		
			Linamar Purchase Order Line Number		



Date: May 1st, 2008 (830 V2001)

Segment: UNT Unit Detail

Position: 310

Loop: LIN Mandatory

Level:

Usage: Mandatory

Max Use: 1

Purpose: To specify item unit data.

Syntax Notes: 1 If UNT03 is present, then UNT02 is required.

Notes: This is a mandatory segment and indicates the unit of measure for all

quantities relating to the line item.

UNT~PC>

	Ref. Des.	Data Element	Name	Attributes		
М	UNT01	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			



Date: May 1st, 2008 (830 V2001)

Segment: **REF** Reference Numbers

Position: 440

Loop: LIN Mandatory

Level:

Usage: Optional

Max Use: 12

Purpose: To specify identifying numbers.

Syntax Notes: 1 At least one of REF02 or REF03 is required.

Notes: Used to convey the dock code, line feed location or reserve line feed

location where the item is to be delivered.

REF~DK~B12> REF~LF~RR6>

	Ref. Des.	Data Element	Name	Attr	ibutes		
М	REF01	128	Reference Number Qualifier	М	ID 2/2		
			Code qualifying the Reference Number				
			LF Assembly Line Feed Location				
			RL Reserve Assembly Line Feed Locati	on			
	REF02	127	Reference Number	С	AN 1/30		
			Reference number or identification number as defined for a particular				
			Transaction Set, or as specified by the Reference Nu	umber	Qualifier		



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Segment: PER Administrative Communications Contact

Position: 450

Loop: LIN Mandatory

Level:

Usage: Optional

Max Use: 3

Purpose: To identify a person or office to whom administrative communications should

be directed

Syntax Notes: 1 If PER03 is present, then PER04 is required.

Notes: This segment relates to interpersonal communications, not network or

telecommunications contacts. It can be used to convey a contact

person's name and telephone number. PER~EX~PAUL MUIR~TE~313-555-1212>

	Ref. Des.	Data Element	Name	Attri	ibutes
М	PER01	366	Contact Function Code Code identifying the major duty or responsibility of to named EX Expeditor RD Receiving Dock	M the pe	ID 2/2 rson or group
	PER02	93	Name Free-form name	0	AN 1/35
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone	0	ID 2/2
	PER04	364	Communication Number Complete communications number including country applicable	O or ar	AN 7/21 ea code when



Date: May 1st, 2008 (830 V2001)

Segment: **FST** Forecast Schedule

Position: 590

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 FST08 is present, then FST09 is required.

Notes: This FST segment will show cumulative quantities for all discrete

forecast qualifiers ("D").

FST~56700~D~W~890304>

FST~58500~D~F~880801~890531>

	Ref.	Data	Name	Attri	butes
	Des.	Element			
М	FST01	380	Quantity	М	R 1/10
			Numeric value of quantity		
			Normally cumulative quantity. Net only when FST0	2="S" (
М	FST02	680	Forecast Qualifier	M	ID 1/1
			Code specifying the sender's confidence level of the	e foreca	ist data or an
			action associated with a forecast		
			C Firm		
			D Planning		
М	FST03	681	Forecast Timing Qualifier	М	ID 1/1
			Code specifying interval grouping of the forecast		
			D Discrete		
			F Flexible interval (from Date X throu	gh Dat	e Y)
			W Weekly Bucket (Monday through Su	ınday)	
M	FST04	373	Date	M	DT 6/6
			Date (YYMMDD)		
			If flexible interval cumulative quantity start date (b	eginnir	ng of
			inventory date)		
			If weekly - week starting date		
	FST05	373	Date	0	DT 6/6
			Date (YYMMDD)	00000	D)
			If flexible interval - period ending date (Sunday). (YYMMD	D)
	FCTOC	274	Not used for discrete intervals.	0	ID 3/3
	FST06	374	Date / Time Qualifier	_	-
			Code specifying type of date or time, or both date of 002 Delivery Requested	and tim	ie
	FST07	337	002 Delivery Requested Time	0	TM 4/4
	F3107	337	Time expressed in 24-hour clock time as follows:	•	
			or HHMMSSD, or HHMMSSDD, where $H = hours$ (1)		
			(00-59), S = integer seconds $(00-59)$ and DD		
			decimal seconds are expressed as follows: $D = te$		
			hundredths (00-99)	(0	5, and 55 =
	FST08	128	Release Number Qualifier	М	ID 2/2
	. = = = =		Code specifying the purchase order release number		, -
			RN Release Number		
	FST09	127	Release Number	М	AN 1/30
			Linamar Purchase Order Release Line Number		,



Date: May 1st, 2008 (830 V2001)

Segment: SHP Shipped/Received Information

Position: 620

Loop: SHP Optional

Level:

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.

Notes: This is based on ASN information transceived for the last shipment,

and the model year cumulative shipped value. The CUM quantity is equal to CUM receipts plus in-transit through last transceived ASN.

SHP \sim 01 \sim 2780 \sim 001 \sim 890214> (Net quantity from last ASN)

SHP ~02~18300~011~880801~~890214> (Cumulative quantity from

last ASN)

Ref. Des.	Data Element	Name	Attr	ibutes
SHP01	673	Quantity Qualifier	0	ID 2/2
		Code specifying the type of quantity		
		01 Discrete quantity		
		02 Cumulative quantity		
SHP02	380	Quantity	С	R 1/10
		Numeric value of quantity		
SHP03	374	Date / Time Qualifier	0	ID 3/3
		Code specifying type of date or time, or both dat	e and tin	ne
		011 Shipped		
SHP04	373	Date	С	DT 6/6
		Date (YYMMDD)		
		Shipped date or beginning inventory date		
SHP06	373	Date	С	DT 6/6
		Date (YYMMDD)		
		If present, will contain date of last shipment		



Date: May 1st, 2008 (830 V2001)

Segment: **REF** Reference Numbers

Position: 630

Loop: SHP Optional

Level:

Usage: Optional

Max Use: 5

Purpose: To specify identifying numbers

Syntax Notes: 1 At least one of REF02 or REF03 is required.

Notes: Used to convey the shipment ID (ASN) number of the last shipment

transceived -as much, it will follow the SHP segment with "01" in

SHP01, and will occur only once.

REF~SI~72396>

	Ref. Des.	Data Element	Name	Attri	butes
М	REF01	128	Reference Number Qualifier Code qualifying the Reference Number	М	ID 2/2
			SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment		
М	REF02	127	Reference Number	М	AN 1/30
			Reference number or identification number as defined for a particular		
			Transaction Set, or as specified by the Reference Nu	ımber	Qualifier



Date: May 1st, 2008 (830 V2001)

Segment: CTT Transaction Totals

Position: 690

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.

Notes: CTT~4~32969>

	Ref. Des.	Data Element	Name	Attr	ibutes
М	CTT01	354	Number of Line Items Total number of line items in the transaction set Total number of LIN segments	М	NO 1/6
М	CTT02	347	Hash Total Sum of values of the specified data element. All value element will be summed without regard to decimal properties implicitly or signs. Truncation will occur on the left most digits if the surface the maximum size of the hash total of the data element example: 0018 First occurrence of value being hashed18 of value being hashed. 1.8 Third occurrence of value 18.01 Fourth occurrence of value being hashed1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. Hash total of quantities released (sum of FST01s) - truncate high order	ooints im is g nent. Second being	(explicit or greater than doccurrence g hashed.



Date: May 1st, 2008 (830 V2001)

Segment: **SE** Transaction Set Trailer

Position: 700

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:

Notes: SE~1~00001>

	Ref. Des.	Data Element	Name	Attributes
М	SE01	96	Number of Included Segments Total number of segments included in a transaction and SE segments	M NO 1/6 set including ST
М	SE02	329	Transaction Set Control Number Identifying control number that must be unique with set functional group assigned by the originator for a	