



**Inbound 830  
(Planning Schedule with Release Capability)  
X12 Specification  
for  
Release 003040**

**The purpose of this document is to describe the suggested X12 specification to be used to transport Planning Schedule data to *EMJ* from its Trading Partners.**

# 1830 X12 - Planning Schedule with Release Capability

## Purpose:

The segment set described in this document comprises the necessary information to submit a planning schedule to the Earle M. Jorgensen Co. via EDI in one of three ways: 1. a basic forecast; 2. a forecast with a buyers authorization for the seller to commit to resources; 3. a forecast that is also used as an order release device, having such elements as resource authorization, period-to-date cumulative quantities, and specific ship/delivery patterns for conditions 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, because the order release capability eliminates the need for the generation of a purchase order document. Record sets will be created in lieu of paper planning schedules for Trading Partners creating ANSI X12 830 EDI documents.

## General Conventions:

**Bold format** indicates literal values. *Italicized format* indicates specific field layout.

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## Segment Set Structure

**Table 1**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	ST	Transaction Set Header	M	1		
020	BFR	Beginning Segment for Planning Schedule	M	1		
050	REF	Reference Numbers	O	12		
050	FOB	F.O.B. Related Instructions	O	1		
230	N1	Name	O	1	N1	Loop N1 is optional.
250	N3	Address Information	O	2		
260	N4	Geographic Location	O	1		
280	PER	Administrative Communications Contact	O	3		

**Table 2**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	LIN	Item Identification	M	1	LIN	
020	UIT	Unit Detail	O	1		
230	ATH	Resource Authorization	O	1		
410	FST	Forecast Schedule	O	260	FST	
450	SDP	Ship/Deliver Patterns	O	1	SDP	
470	SHP	Shipped/Received Information	O	2	SHP	

**Table 3**

PO S NO	SEG. ID	NAME	REQ DES	MAX USE	LOOP	NOTES & COMMENTS
010	CTT	Transaction Totals	O	1		
020	SE	Transaction Set Trailer	M	1		

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## ST

### Transaction Set Header

To indicate the start of a transaction set and to assign a control number.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	143	Transaction Set Identifier Code	M	ID	3/3	<b>830</b>
02	329	Transaction Set Control Number	M	AN	4/9	Generated

## BFR

### Beginning Segment for Planning Schedule

To indicate the beginning of the planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	353	Transaction Set Purpose Code	M	ID	2/2	<b>00</b> Original <b>01</b> Correction <b>04</b> Change - BFR09 is required when using this qualifier. <b>05</b> Replace <b>08</b> Status
02	127	Reference Number	X	AN	1/30	At least one of the BFR02 or BFR03 is required
03	328	Release Number	X	AN	1/30	
04	675	Schedule Type Qualifier	M	ID	2/2	<b>DL</b> Delivery Based <b>SH</b> Shipment Based <b>A</b> Actual Discreet Qty. <b>C</b> Cumulative Qty.
05	676	Schedule Quantity Qualifier	M	ID	1/1	
06	373	Date	M	DT	6/6	<b>YYMMDD</b> - Forecast Start Date
07	373	Date	M	DT	6/6	<b>YYMMDD</b> - Forecast End Date
08	373	Date	M	DT	6/6	<b>YYMMDD</b> - Current Date
09	373	Date	O	DT	6/6	Date forecast updated - Used only when the BFR01 is 04 - Change
10	367	Contract Number	O	AN	1/30	
11	324	Purchase Order Number	O	AN	1/22	
12	783	Planning Schedule Type Code	O	ID	2/2	<b>PS</b> Purchaser to Seller
13	306	Action Code	O	ID	1/2	Not Used

## REF

### Reference Numbers

To specify identifying numbers.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	128	Reference Number Qualifier	M	ID	2/2	<b>BR</b> Sales Office Number
02	127	Reference Number	X	AN	1/30	At least one of REF02 or REF03 is required.
03	352	Description	X	AN	1/80	

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## FOB

### F.O.B. Related Instructions

To specify transportation instructions related to shipment.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	146	Shipment Method of Payment	M	ID	2/2	<b>PP</b> Prepaid <b>CC</b> Collect
02	309	Location Qualifier	X	ID	1/2	<b>OR</b> Ship Point <b>DE</b> Destination <b>FE</b> Frt. Equalize Point <b>ZZ</b> Default Required if FOB03 is used.
03	352	Description	O	AN	1/80	
04	334	Transportation Terms Qualifier Code	O	ID	2/2	<b>ZZ</b> Standard Routing
05	335	Transportation Terms Code	X	ID	3/3	Required if FOB04 is used.
06	309	Location Qualifier	X	ID	1/2	Required if FOB07 is used
07	352	Description	O	AN	1/80	
08	54	Risk of Loss Qualifier	O	ID	2/2	Not Used
09	352	Description	X	AN	1/80	Not Used

## N1

### Name

To identify a party by type of organization, name and code.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	98	Entity Identifier Code	M	ID	2/2	<b>BS</b> Bill & Ship To <b>ST</b> Ship To <b>BT</b> Bill To
02	93	Name	X	AN	1/35	At least one of N102 or N103 is required.
03	66	Identification Code Qualifier	X	ID	1/2	<b>1</b> DUNS <b>9</b> DUNS+4 Required if N104 is used.
04	67	Identification Code	X	AN	2/17	Required if N103 is used.
05	706	Entity Relationship Code	O	ID	2/2	Not Used
06	98	Entity Identifier Code	M	ID	2/2	Not Used

## N3

### Address Information

To specify the location of the named party.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	166	Address Information	M	AN	1/35	
02	166	Address Information	O	AN	1/35	

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## N4

### Geographic Location

To specify the geographic place of the named party.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	567	City Name	X	AN	2/30	Required if N405 is not used.
02	156	State or Province Code	X	ID	2/2	Required if N401 is used.
03	116	Postal Code	X	ID	3/9	Required if N401 is used.
04	26	Country Code	O	ID	2/3	
05	309	Location Qualifier	X	ID	1/2	Required if N401 is not used.
06	310	Location Identifier	X	AN	1/30	Required if N405 is used.

## PER

### Administrative Communications Contact

To identify a person or office to whom administrative communications should be directed.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	366	Contact Function Code	M	ID	2/2	<b>BD</b> Buyer Name or Dept. <b>OC</b> Order Contact
02	93	Name	O	AN	1/35	
03	365	Communication Number Qualifier	X	ID	2/2	<b>TE</b> Telephone
04	364	Communication Number	X	AN	7/21	Required if PER03 is used.
05	365	Communication Number Qualifier	X	ID	2/2	<b>AP</b> Alternate Telephone
06	364	Communication Number	X	AN	7/21	Required if PER05 is used.

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## LIN

### Item Identification

To specify basic item identification data.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	350	Assigned Identification	OIZ	AN	1/11	Your P.O. line number.
02	235	Product/Service ID Qualifier	M	ID	2/2	<b>BP</b> Buyer's Part Number <b>PN</b> EMJ Part Number
03	234	Product/Service ID	M	AN	1/30	Part Number
04	235	Product/Service ID Qualifier	O	ID	2/2	<b>HN</b> Heat Number
05	234	Product/Service ID	X	AN	1/30	Heat Number
06	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
07	234	Product/Service ID	X	AN	1/30	Not Used
08	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
09	234	Product/Service ID	X	AN	1/30	Not Used
10	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
11	234	Product/Service ID	X	AN	1/30	Not Used
12	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
13	234	Product/Service ID	X	AN	1/30	Not Used
14	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
15	234	Product/Service ID	X	AN	1/30	Not Used
16	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
17	234	Product/Service ID	X	AN	1/30	Not Used
18	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
19	234	Product/Service ID	X	AN	1/30	Not Used
20	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
21	234	Product/Service ID	X	AN	1/30	Not Used
22	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
23	234	Product/Service ID	X	AN	1/30	Not Used
24	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
25	234	Product/Service ID	X	AN	1/30	Not Used
26	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
27	234	Product/Service ID	X	AN	1/30	Not Used
28	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
29	234	Product/Service ID	X	AN	1/30	Not Used
30	235	Product/Service ID Qualifier	O	ID	2/2	Not Used
31	234	Product/Service ID	X	AN	1/30	Not Used

## UIT

### Unit Detail

To specify item unit data

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	355	Unit or Basis of Measurement Code	M	ID	2/2	<b>FT</b> Feet <b>IN</b> Inches
02	212	Unit Price	X	R	1/14	
03	639	Basis of Unit Price Code	O	ID	2/2	

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## ATH

### Resource Authorization

To specify resource authorizations (i.e., finished labor, material ect.) in the planning schedule.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	672	Resource Authorization Code	M	ID	2/2	<b>FI</b> Finished <b>MT</b> Material
02	373	Date	X	DT	6/6	<b>YMMDD</b>
03	380	Quantity	X	R	1/15	
04	380	Quantity	X	R	1/15	Not Used
05	373	Date	X	DT	6/6	

## FST

### Forecast Schedule

To specify the forecasted dates and quantities.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	380	Quantity	M	R	1/15	
02	680	Forecast Qualifier	M	ID	1/1	<b>A</b> Immediate <b>C</b> Firm <b>D</b> Planning
03	681	Forecast Timing Qualifier	M	ID	1/1	<b>C</b> Daily <b>D</b> Discrete
04	373	Date	M	DT	6/6	<b>YMMDD</b>
05	373	Date	O	DT	6/6	Not Used
06	374	Date Time Qualifier	X	ID	3/3	Not Used
07	337	Time	X	TM	4/8	Not Used
08	128	Reference Number Qualifier	X	ID	2/2	Not Used
09	127	Reference Number	X	AN	1/30	Not Used

## SDP

### Ship/Delivery Pattern

To identify specific ship/delivery requirements.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	678	Ship/Delivery or Calendar Pattern Code	M	ID	1/2	<b>N</b> As Directed
02	679	Ship/Delivery Pattern Time Code	M	ID	1/1	<b>F</b> As Directed
03	678	Ship/Delivery or Calendar Pattern Code	O	ID	1/2	Not Used



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## SHP

### Shipped/Received Information

To specify shipment and/or receipt information.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	673	Quantity Qualifier	M	ID	2/2	<b>01</b> Discrete Quantity
02	380	Quantity	X	R	1/15	<b>02</b> Cumulative Quantity Required if SHP01 is used
03	374	Date/ Time Qualifier	X	ID	3/3	<b>050</b> Received <b>051</b> Cumulative Qty. Start <b>052</b> Cumulative Qty. End
04	373	Date	O	DT	6/6	YYMMDD - Required if SHP01 is an 02 to identify the cumulative start date.
05	337	Time	O	TM	4/8	Not Used
06	373	Date	O	DT	6/6	YYMMDD - Required if SHP01 is an 02 to identify the cumulative end date.
07	337	Time	O	TM	4/8	Not Used

## CTT

### Transaction Totals

To transmit a hash total for a specific element in the transaction set.

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	354	Number of Line Items	M	NO	1/6	Count of LIN segments
02	347	Hash Total	O	R	1/10	
03	81	Weight	O	R	1/10	
04	355	Unit or Basis for Measurement Code	X	ID	2/2	Required if CTT03 is used.
05	183	Volume	O	R	1/8	
06	355	Unit or Basis for Measurement Code	X	ID	2/2	Required if CTT05 is used.
07	352	Description	O	AN	1/180	

## SE

### Transaction Set Trailer

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

REF	ID	NAME	USE	TYPE	LENGTH	COMMENT
01	96	Number of Included Segments	M	NO	1/10	
02	329	Transaction Set Control Number	M	AN	4/9	As specified on ST segment.