

830R Planning Schedule Response

830R ANSI X12 004010

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830R Planning Schedule Response

Functional Group = PS

This Draft Standard for Trial Use 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.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>FlexReq</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	M	1			Must use
020	BFR	Beginning Segment for Planning Schedule	M	M	1			Must use
050	REF	Reference Identification	M	M	12			Must Used
LOOP ID - N1						200		
230	N1	Name	O	O	1			Used
240	N2	Additional Name Information	O	O	2			Used
250	N3	Address Information	O	O	2			Used
260	N4	Geographic Location	O	O	1			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>FlexReq</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN						>1		
010	LIN	Item Identification	M	M	1			Must use
020	UIT	Unit Detail	O	O	1			Used
110	PKG	Marking, Packaging , Loading	O	O	25			Used
140	REF	Reference Identification	O	O	12			Used
150	PER	Administrative Communications Contact	O	O	3			Used
220	QTY	Quantity	O	M	>1		N2/220	Used
LOOP ID - FST						>1	N2/410L	
410	FST	Forecast Schedule	O	M	1		N2/410	Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>FlexReq</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	M	1		N3/010	Used
020	SE	Transaction Set Trailer	M	M	1			Must use

Notes:

- 2/220 QTY is used to specify supplemental quantities relevant to the forecast function. However, QTY is not related to the actual forecast quantity in the FST segments.
- 2/410L At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
- 2/410 At least one occurrence of segment FST is required, either in the FST loop or within the SDP loop. These two loops are mutually exclusive.
- 3/010 Number of line items (CTT01) is the accumulation of the number of LIN segments. If used, hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

ST Transaction Set Header

User Option (Usage):

Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set All valid standard codes are used.	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number Description: 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	Must use

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BFR Beginning Segment for Planning Schedule

User Option (Usage):

Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BFR01	353	Transaction Set Purpose Code Description: "11" Response to Planning Schedule.	M	ID	2/2	Must use
BFR02	127	Reference Identification Description: Reference information as defined for a Particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
BFR03	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	X	AN	1/30	Used
BFR04	675	Schedule Type Qualifier Description: Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast "DL" - Delivery Based (MRP Items) "BB" - Consumption Based (SIC items)	M	ID	2/2	Must use
BFR05	676	Schedule Quantity Qualifier Description: Code identifying the type of quantities used when defining a schedule or forecast "A" - Actual Quantities.	M	ID	1/1	Must use
BFR06	373	Forecast Start Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BFR07	373	Forecast End Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Used
BFR08	373	Forecast Generation Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use

Syntax:

1. R0203 - At least one of BFR02,BFR03 is required

REF Reference Identification

User Option (Usage):

Used
To specify identifying information

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Code Name VR Supplier Code	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Supplier Code which is being sent in 830 (Original Forecast)	X	AN	1/30	Used

Loop N1

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
230	N1	Name	O	1		Used
240	N2	Additional Name Information	O	2		Used
250	N3	Address Information	O	2		Used
260	N4	Geographic Location	O	1		Used

N1 Name

User Option (Usage):

Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual "BY" - Buyer Company Number "SE" - Sellers Address "ST" - Ship To Address	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code Structure used for Identification Code (67) All valid standard codes are used.	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

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.

Loop LIN

To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	M	1		Must use
020	UIT	Unit Detail	O	1		Used
110	PKG	Marking, Packaging	O	25		Used
140	REF	Reference Identification	O	12		Used
150	PER	Administrative Communications Contact	O	3		Used
220	QTY	Quantity	O	>1		Used
410		Loop FST	O		>1	Used

LIN Item Identification

User Option (Usage):

Must use

To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>FlexReq</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Flextronics Line Item Number	O	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) “BP” - Buyer Part Number.	M	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	M	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) “VP” - Supplier Part Number.	X	M	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	M	AN	1/48	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) “PU” Customer Part Number.	X	X	ID	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service	X	X	AN	1/48	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) “KF” Order Method/Item Type.	X	O	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	X	O	AN	1/48	Used
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the Descriptive number used in Product/Service ID (234) “EC” Engineering Item Revision/Level.	X	X	ID	2/2	Used
LIN11	234	Product/Service ID Description: Identifying number for a product or service	X	X	AN	1/48	Used

UIT Unit Detail

User Option (Usage):

Used
To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
UIT01	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Must use
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken "EA".	M	ID	2/2	Must use

Syntax:

1. P0405 - If either LIN04,LIN05 is present, then all are required

PKG Marking, Packaging, Loading

User Option (Usage):

Used
To specify item unit data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item description type Description: Code identifying the code for the description "F" - Free form	X	ID	1/1	Used
PKG02	753	Packaging Characteristic Code Description: Code specifying the marking, packaging, Loading and related characteristics being described "35" - Type of Package	O	ID	1/5	Must Used
PKG05	325	Description Description: A free-form description to clarify the related Data elements and their content	X	AN	1/80	Used

Comments:

1. If PKG02 equals "35", then PKG05 is used.
2. If PKG05 exist then PKG01 is used

REF Reference Identification

User Option (Usage):

Used
To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification “PO” - Purchase Order. “MH”- Manufacturer Order Number	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Flextronics PO Number Description: Manufacturer Order Number	X	AN	1/30	Used
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

Syntax:

1. R0203 - At least one of REF02,REF03 is required

PER Administrative Communications Contact

User Option (Usage):

Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named “BD” - Buyer Department.	M	ID	2/2	Must use
PER02	93	Name Description: Free-form name	O	AN	1/60	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number “TE” - Telephone Number.	X	ID	2/2	Used
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	X	AN	1/80	Used

Syntax:

1. P0304 - If either PER03,PER04 is present, then all are required

QTY Quantity

User Option (Usage):

Used

To specify quantity information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier Description: Code specifying the type of quantity “17” - Quantity On Hand “YW” - Reorder Point Qty (will be 0 for MRP Items) ‘72’ - Minimum stock level ‘73’ - Maximum stock level	M	ID	2/2	Must use

QTY02 380

Quantity
Description: Numeric value of quantity

X

R

1/15

Used

Syntax:

1. R0204 - At least one of QTY02,QTY04 is required
2. E0204 - Only one of QTY02,QTY04 may be presented

Loop FST

To specify the forecasted dates and quantities

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
410	FST	Forecast Schedule	O	1		Used

FST Forecast Schedule

User Option (Usage):

Used

To specify the forecasted dates and quantities

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FST01	380	Forecast Quantity Description: Numeric value of quantity	M	R	1/15	Must use
FST02	680	Forecast Qualifier Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast "D" - Planning.	M	ID	1/1	Must use
FST03	681	Forecast Timing Qualifier Description: Code specifying interval grouping of the forecast "W" - Weekly.	M	ID	1/1	Must use
FST04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use

Comments:

- 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.

CTT Transaction Totals

User Option (Usage):

Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>FlexReq</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	M	N0	1/6	Must use
CTT02	347	Hash Total Description: Sum of FST01	O	M	R	1/10	Used

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

User Option (Usage):

Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Must use
SE02	329	Transaction Set Control Number Description: 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	Must use

Comments:

1. SE is the last segment of each transaction set.

Example:

ISA*00* *00* *ZZ*NL07450001 *14*621658251168P *081202*1514*U*00401*000001631*0*P*~
GS*PS*371374TNDP*621658251168*20081202*151423*5386629*X*004010
ST*830*7012816
BFR*11*168SUP00054520081203070355-10*SUP000545168015M-2008494*DL*A*20081130*20091128*20081203
N1*BY*FLEXTRONICS TECHNOLOGY SHAH ALAM*92*168
N1*ST*FSA B1 SMA RM W/hse*92*168015
N1*SE*SUPPLIER SEMICONDUCTORS MALAYSIA SDN BHD*92*SUP000545
LIN*1*BP*SNE-1206-9562.1*VP*74LVC1G07GM*PU*CUSTOMERPARTNUMBER*KF*ORDERMETHOD*EC*ITEMREVISION
UIT*EA
PKG*F*35*BOX
REF*PO*0
REF*MH*MANORDNUM
PER*BD*Goh Ai Tee*TE*+03 5101 6469
QTY*17*10
QTY*YW*20
QTY*72*100
QTY*73*1000
FST*0*D*W*20090111
FST*5372*D*W*20090118
FST*7000*D*W*20090125
FST*8000*D*W*20090201
FST*8000*D*W*20090208
FST*8000*D*W*20090215
FST*8000*D*W*20090222
FST*7500*D*W*20090301
CTT*1*51872
SE*25*7012816
GE*1*5386629
IEA*1*000001631

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