

EDI Transaction Set 830 Planning Schedule with Release CapabilityX12 Version 4010

September 2013

ECIA's EDI Committee has reviewed this transaction set and made modifications that will benefit the electronics industry by simplifying the transaction focusing on industry specific needs.

NOTICE

ECIA Industry Guidelines and Publications contain material that has been prepared, progressively reviewed, and approved through various ECIA-sponsored industry task forces, comprised of ECIA member distributors, manufacturers, and manufacturers' representatives. After adoption, efforts are taken to ensure widespread dissemination of the guidelines. ECIA reviews and updates the guidelines as needed.

ECIA Industry Guidelines and Publications are designed to serve the public interest, including electronic component distributors, manufacturers and manufacturers' representatives through the promotion of uniform and consistent practices between manufacturers, distributors, and manufacturers' representatives resulting in improved efficiency, profitability, product quality, safety, and environmentally responsible practices. Existence of such guidelines shall not in any respect preclude any member or non-member of ECIA from adopting any other practice not in conformance to such guidelines, nor shall the existence of such guidelines preclude their voluntary use by those other than ECIA members, whether the guideline is to be used either domestically or internationally.

ECIA does not assume any liability or obligation whatever to parties adopting ECIA Industry Guidelines and Publications. Each company must independently assess whether adherence to some or all of the guidelines is in its own best interest.

Inquiries, comments, and suggestions relative to the content of this ECIA Industry Guideline should be addressed to ECIA headquarters.

Published by

ELECTRONIC COMPONENTS INDUSTRY ASSOCIATION
1111 Alderman Dr., Suite 400
Alpharetta, GA 30005
678-393-9990

Copyright 2013 Printed in U.S.A. All rights reserved

830 version 4010 1 September 2013

830 Planning Schedule with Release Capability

Functional Group ID=PS

Introduction:

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:

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
Must Use	020	BFR	Beginning Segment for Planning Schedule	M	1		
			LOOP ID - N1			200	
Must Use	230	N1	Name	M	1		
	280	PER	Administrative Communications Contact	O	1		

Detail:

	Pos.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			>1	
Must Use	010	LIN	Item Identification	M	1		
Must Use	020	UIT	Unit Detail	M	1		
			LOOP ID - FST			>1	
Must Use	030	FST	Forecast Schedule	M	1		n1
			LOOP ID - SHP			25	
Must Use	470	SHP	Ship Delivery Pattern	M	1		
	480	REF	Reference Identification	О	1		

Summary:

	Pos.	Seg.		Req.		Loop	Notes and
	No.	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments
Must Use	010	CTT	Transaction Totals	M	1		n2
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- **1.** At least one occurrence of segment FST is required.
- 2. 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.

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use:

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) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

Comments:

Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction S	et Identifier Code	Attı M	ributes ID 3/3
		Code uniquely 830	identifying a Transaction Set Planning Schedule with Release Capa	ability	
ST02	329	Identifying cor	tet Control Number atrol number that must be unique within the p assigned by the originator for a transaction		AN 4/9 etion set

Segment: \mathbf{BFR} Beginning Segment for Planning Schedule

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use:

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: 1 Does not apply.

2 BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.

3 Does not apply.4 Does not apply.

5 Does not apply.

6 Does not apply.

Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>		<u>ributes</u>
	BFR01	353	Transaction Set Purpose Code	M	ID 2/2
			Code identifying purpose of transaction set		
			05 Replace		
	BFR02	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Tra specified by the Reference Identification Qualifier	nsaction Set	or as
	BFR03	328	Release Number	X	AN 1/30
			Number identifying a release against a Purchase Orde the parties involved in the transaction	er previously	placed by
>>	BFR04	675	Schedule Type Qualifier	M	ID 2/2
			Code identifying the type of dates used when defining	g a shipping	or delivery
			time in a schedule or forecast		
			DL Delivery Based		
			SH Shipment Based		
	BFR05	676	Schedule Quantity Qualifier	M	ID 1/1
			Code identifying the type of quantities used when det	fining a sche	dule or
			forecast		
	DED 0 (252	A Actual Discrete Quantities	3.6	DT 0/0
	BFR06	373	A Actual Discrete Quantities Date	M	DT 8/8
	BFR06	373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD	M	DT 8/8
	BFR06	373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date.		DT 8/8
			A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins	s.	
	BFR06 BFR07	373 373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date		DT 8/8 DT 8/8
			A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date Date expressed as CCYYMMDD	s.	
	BFR07	373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date Date expressed as CCYYMMDD The date when the forecast horizon (envelope) ends.	S.	DT 8/8
			A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date Date expressed as CCYYMMDD The date when the forecast horizon (envelope) ends. Date	s.	
	BFR07	373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date Date expressed as CCYYMMDD The date when the forecast horizon (envelope) ends.	S.	DT 8/8
	BFR07	373	A Actual Discrete Quantities Date Date expressed as CCYYMMDD Forecast horizon start date. The date when the forecast horizon (envelope) begins Date Date expressed as CCYYMMDD The date when the forecast horizon (envelope) ends. Date	S.	DT 8/8

Segment: N1 Name

Position: 230
Loop: N1
Level: Heading
Usage: Mandatory

Max Use:

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. Does not apply.

Notes: The N1 at the header level applies to all items (LIN) contained at the detail level.

Ref.	Data	2 444 21411	; 		
Des.	Element	<u>Name</u>		Att	<u>ributes</u>
N101	98	Entity Identifier C	ode	M	ID 2/3
		Code identifying an individual ST	organizational entity, a physical locatio Ship To	n, pro	operty or an
N102	93	Name		\mathbf{X}	AN 1/60
		Free-form name			
N103	66	Identification Code	e Qualifier	\mathbf{X}	ID 1/2
		Code designating the Code (67)	e system/method of code structure used	for Io	dentification
		1	D-U-N-S Number, Dun & Bradstreet		
		9	D-U-N-S+4, D-U-N-S Number with Fourfix	our C	Character
		91	Assigned by Seller or Seller's Agent		
		92	Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	e	\mathbf{X}	AN 2/80
		Code identifying a p	party or other code		

Segment: PER Administrative Communications Contact

Position: 280
Loop: N1
Level: Heading
Usage: Optional
Max Use: 1

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:

Ref.	Data	•		
Des.	Element	Name	Att	<u>ributes</u>
PER01	366	Contact Function Code	M	ID 2/2
		Code identifying the major duty or responsibility of the	person or	r group named
		BD Buyer Name or Department		
PER02	93	Name	O	AN 1/60
		Free-form name		
PER03	365	Communication Number Qualifier	X	ID 2/2
		Code identifying the type of communication number		
		TE Telephone		
PER04	364	Communication Number	X	AN 1/80
		Complete communications number including country or applicable	area cod	e when

Segment: LIN Item Identification

Position: 010
Loop: LIN
Level: Detail
Usage: Mandatory

Max Use:

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required.

2 If either LIN06 or LIN07 is present, then the other is required.

3 If either LIN08 or LIN09 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification

Comments: 1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: If only the vendor part number (VP) is available, then send it in the first occurrence and

float up all other remaining information.

Ref.	Data	,		
Des.	<u>Element</u>	Name	_	<u>ributes</u>
LIN01	350	Assigned Identification	O	AN 1/20
		Alphanumeric characters assigned for differentiation within	ı a tra	nsaction set
LIN02	235	Product/Service ID Qualifier	\mathbf{M}	ID 2/2
		Code identifying the type/source of the descriptive number Product/Service ID (234)	used	in
		BP Buyer's Part Number		
LIN03	234	Product/Service ID	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 Product/Service ID (234) EC Engineering Change Level	used	in
T TNIO	224		T 7	A NT 1/40
LIN05	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN06	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number Product/Service ID (234)	used	in
		VP Vendor's (Seller's) Part Number		
LIN07	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN08	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number Product/Service ID (234)	used	in
		PO Purchase Order Number		
LIN09	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		

Segment: UIT Unit Detail

Position: 020
Loop: LIN
Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To specify item unit data

Syntax Notes: Semantic Notes: Comments:

Data				
Element	<u>Name</u>		<u>Attı</u>	<u>ributes</u>
C001	Composite Unit of	f Measure	\mathbf{M}	
255	of use)			for examples ID 2/2
333				
	1 0	0 1	ssed, or	manner in
	which a measurem	ent has been taken		
	EA	Each		
	PC	Piece		
	Element	Element C001 Composite Unit of To identify a comp of use) 355 Unit or Basis for I Code specifying th which a measurement EA	Element C001 Name Composite Unit of Measure To identify a composite unit of measure (See Figures Apof use) 355 Unit or Basis for Measurement Code Code specifying the units in which a value is being exprewhich a measurement has been taken EA Each	Element Name Attraction C001 Composite Unit of Measure M To identify a composite unit of measure (See Figures Appendix to of use) 355 Unit or Basis for Measurement Code M Code specifying the units in which a value is being expressed, or which a measurement has been taken EA Each

Segment: FST Forecast Schedule

Position: 030
Loop: FST
Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To specify the forecasted dates and quantities

Syntax Notes:

Semantic Notes: 1 Does not apply.

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 Does not apply.

Ref.	Data				
Des.	Element	<u>Name</u>		_	<u>ributes</u>
FST01	380	Quantity		M	R 1/15
		Numeric valu			
FST02	680	Forecast Qua	alifier	M	ID 1/1
		associated wit		t data	or an action
		D	Planning		
		С	Firm		
FST03	681		ning Qualifier	M	ID 1/1
		Code specifyi	ng interval grouping of the forecast		
		D	Discrete		
		W	Weekly Bucket (Monday through Sun	day)	
		M	Monthly		
		F	Flexible Interval		
FST04	373	Date		M	DT 8/8
		Date expresse	ed as CCYYMMDD		
FST05	681	Date		O	DT 8/8
		Date expresse	d as CCYYMMDD		
		Not required of	except for flexible interval - so not recommen	ded	
FST06	374	Date Time Q	ualifier	X	ID 3/3
		If specific tim	e is needed, can be used. Not recommended		
FST07	373	Time		X	TM 4/8
		Not recomm	nended		
FST08	128	Reference Id	entification Qualifier	X	ID 2/3
		PO	if embedded releases with new purcha this process. Should only be provided schedule with its own purchase order i	here	if firm
FST09	127	Reference Id	entification	X	AN 1/30
		Purchase Orde	er identifier indicate for firm schedule with ne	w pui	rchase order.

Segment: SHP Shipped/Received Information

Position: 470

Loop: SHP Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify shipment and/or receipt informationSyntax Notes: 1 If SHP01 is present, then SHP02 is required.

2 If SHP03 is present, then at least one of SHP04 or SHP05 is required.

3 If SHP04 is present, then SHP03 is required.4 If SHP05 is present, then SHP03 is required.

Semantic Notes: 1 SHP04 is the date shipped, delivered, received, or the cumulative quantity start date

(as qualified by SHP03).

2 SHP06 is the cumulative quantity end date.

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 equals "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.

	Ref.	Data		•		
	Des.	Element	<u>Name</u>			<u>ributes</u>
	SHP01	673	Quantity Qualifie	er	O	ID 2/2
			Code specifying th	ne type of quantity		
			01	Discrete Quantity		
			02	Cumulative Quantity		
	SHP02	380	Quantity		X	R 1/15
			Numeric value of	quantity		
	SHP03	374	Date/Time Qualif	ïer	X	ID 3/3
			Code specifying ty	pe of date or time, or both date and time		
			050	Received		
	SHP04	373	Date		X	DT 8/8
			Date expressed as	CCYYMMDD		
N/U	SHP05	337	Time		X	TM 4/8
				24-hour clock time as follows: HHMM, o		
				HMMSSDD, where $H = \text{hours} (00-23)$, $M = \text{hours} (00-50)$ and $DD = \text{horizontage} (00-50)$,
				conds (00-59) and DD = decimal seconds; bllows: D = tenths (0-9) and DD = hundred		
N/U	SHP06	373	Date	$\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{10000}$ $\frac{1}{10000}$ $\frac{1}{100000}$) em	DT 8/8
1,,0	5111 00	0.0	Date expressed as	CCYYMMDD	Ü	210,0
N/U	SHP07	337	Time		O	TM 4/8
				24-hour clock time as follows: HHMM, o		
				HMMSSDD, where $H = hours (00-23)$, M		
				conds (00-59) and DD = decimal seconds;		
			are expressed as fo	ollows: $D = tenths (0-9)$ and $DD = hundred$	ıtns ((JU-99)

Segment: **REF** Reference Identification

Position: 480
Loop: SHP
Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify identifying information – in this case, last receipt information associated with

the last shipment received..

Syntax Notes: Semantic Notes: Comments:

Ref.	Data			
Des.	Element	<u>Name</u>	<u>Att</u>	<u>ributes</u>
REF01	128	Reference Identification Qualifier	\mathbf{M}	ID 2/2
		Code identifying the reference identification		
		SI Shipper's Identifying Number for	r Shipment	(SID)
REF02	127	Reference Identification	O	AN 1/30
		Shipper ID Number		
REF03	350	Description	X	AN 1/80
		A free-form description to clarify the data elements an used.	d their con	tent. Not
REF04	C040	Reference Identifier	O	Composite
		Not used		

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Mandatory

Data

Max Use: 1

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

Syntax Notes: Semantic Notes:

Ref.

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness

and correctness.

Data Element Summary

total after truncation to three-digit field.

Des.	Element	Name	Attributes		
CTT01	354	Number of Line Items	M	N0 1/6	
		Total number of line items in the transaction set			
CTT02	347	Hash Total	O	R 1/10	
		Sum of values of the specified data element. All values in the data element 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 hashed18 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

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.

Ref.	Data					
Des.	Element	<u>Name</u>	Att	<u>Attributes</u>		
SE01	96	Number of Included Segments	\mathbf{M}	N0 1/10		
		Total number of segments included in a transaction set inclusegments	ıding	ST and SE		
SE02	329	Transaction Set Control Number	M	AN 4/9		
		Identifying control number that must be unique within the trunctional group assigned by the originator for a transaction	<u> </u>			

Example:

ST*830*1234

BFR*05**366*DL*A*20101019*20110831*20101205

N1*ST*company name*91*1234

LIN*001*BP*PN12345*EC*001*VP*12345-6*PO*123456789

UIT*PC

FST*258*C*D*20101019

FST*52*C*D*20101101

FST*324*C*D*20101108

FST*463*C*D*20101129

FST*59*D*W*20110117

FST*54*D*W*20110124

FST*183*D*W*20110221

FST*63*D*W*20110228

FST*30*D*W*20110321

FST*82*D*W*20110328

FST*176*D*M*20110430

FST*557*D*M*20110531

FST*122*D*M*20110630

FST*454*D*M*20110731

FST*266*D*M*20110831

FST*0*D*M*20110930

SHP*01*912*050*20100810

REF*SI*7891234

SHP*01*912*050*20100622

REF*SI*7891521

SHP*02*6234*051*20100101**20101018

CTT*1

SE*28*1234