

X12 Vers. 4010: 830 Planning Schedule

Status: Final

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830 Planning Schedule with Release **Capability**

Functional Group=PS

Purpose: 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.

Not Defined:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	М	1			Must use
	GS	Functional Group Header	М	1			Must use
Heading							
Daa	اما	Commont Name	Daa	May Haa	Danast	Nataa	Haana

	<u>Pos</u>	<u>Ia</u>	Segment Name	Req	<u>wax use</u>	Repeat	<u>notes</u>	<u>usage</u>
	010	ST	Transaction Set Header	М	1			Must use
	020	BFR	Beginning Segment for Planning Schedule	М	1			Must use
LOOP ID - N1						<u>200</u>		
	230	N1	Name	0	1			Must use

	<u> </u>	<u> 10 - 14 1</u>				200
	230	N1	Name	0	1	Must use
	240	N2	Additional Name Information	0	2	Used
	250	N3	Address Information	0	2	Must use
_	260	N4	Geographic Location	0	1	Must use

Detail:

	<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - LIN						<u>>1</u>		
	010	LIN	Item Identification	М	1			Must use
	020	UIT	Unit Detail	0	1			Must use
	130	PRS	Part Release Status	0	1			Used
	140	REF	Reference Identification	0	12			Used
	150	PER	Administrative Communications Contact	0	3			Must use
	230	ATH	Resource Authorization	0	20			Must use
	LOOP II	<u> </u>				<u>>1</u>	N2/410L	
	410	FST	Forecast Schedule	0	1		N2/410	Must use
LOOP ID - SHP						<u>25</u>		
	470	SHP	Shipped/Received Information	0	1			Must use

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Must use

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>				
480	REF	Reference Identification	0	5			Used				
Summa	ry:										
<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>				
010	CTT	Transaction Totals	0	1		N3/010	Must use				
020	SE	Transaction Set Trailer	М	1			Must use				
Not Def	Not Defined:										
<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>				
	GE	Functional Group Trailer	M	1			Must use				

Notes:

IEA

Interchange Control Trailer

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.

1

M

- 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.

ISA Interchange Control Header

Pos: Max: 1
Not Defined - Mandatory
Loop: N/A Elements: 16

User Option (Usage): Must use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
ISA01	101	Authorization Information Qualifier	M	ID	2/2	Must use		
		Description: Code to identify the type of inf	ormatio	on in the	Authorization In	formation		
		CodeList Summary (Total Codes: 7, Included: 1)						
		Code Name	/NI NA			100)		
		00 No Authorization Information Present	•	•		102)		
ISA02	102	Authorization Information	M	AN	10/10	Must use		
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)						
ISA03	103	Security Information Qualifier	M	ID	2/2	Must use		
		Description: Code to identify the type of inf	ormatio	on in the	Security Informa	ation		
	CodeList Summary (Total Codes: 2, Included: 1)							
		Code Name						
		00 No Security Information Present (No	Meanir	ngful Infor	mation in I04)			
ISA04	104	Security Information	М	AN	10/10	Must use		
		Description: This is used for identifying the sender or the data in the interchange; the tylinformation Qualifier (I03)						
ISA05	105	Interchange ID Qualifier	M	ID	2/2	Must use		
		Description: Qualifier to designate the system the sender or receiver ID element being quartered.		thod of co	ode structure us	sed to designate		
		CodeList Summary (Total Codes: 38, Inclu	ded: 1)					
		Code Name						
		01 Duns (Dun & Bradstreet)						
ISA06	106	Interchange Sender ID	М	AN	15/15	Must use		
		Description: Identification code published by receiver ID to route data to them; the sender element	-		•			
ISA07	105	Interchange ID Qualifier	М	ID	2/2	Must use		
		Description: Qualifier to designate the systematic the sender or receiver ID element being quantities.		thod of co	ode structure us	sed to designate		
		CodeList Summary (Total Codes: 38, Inclu	ded: 1)					

		Code Name 01 Duns (Dun & Bradstreet)				
ISA08	107	Interchange Receiver ID	М	AN	15/15	Must use
		Description: Identification code published used by the sender as their sending ID, thu receiving ID to route data to them	•			•
ISA09	108	Interchange Date	М	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	109	Interchange Time	М	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	М	ID	1/1	Must use
		Description: Code to identify the agency r message that is enclosed by the interchang All valid standard codes are used. (Total	ge heade	er and tra		dard used by the
ISA12	l11	Interchange Control Version Number	М	ID	5/5	Must use
		Description: Code specifying the version	number	of the inte	erchange con	trol segments
		CodeList Summary (Total Codes: 14, Incl Code Name 00300 Standard Issued as ANSI X12.5-19				
ISA13	l12	Interchange Control Number	М	N0	9/9	Must use
		Description: A control number assigned b	y the int	erchange	sender	
ISA14	l13	Acknowledgment Requested	М	ID	1/1	Must use
		Description: Code sent by the sender to re	equest a	ın interch	ange acknow	ledgment (TA1)
		CodeList Summary (Total Codes: 2, Inclu Code Name No Acknowledgment Requested	ded: 1)			
ISA15	l14	Usage Indicator	М	ID	1/1	Must use
		Description: Code to indicate whether dat production or information	a enclos	ed by this	sinterchange	envelope is test,
		CodeList Summary (Total Codes: 3, Inclu	ded: 1)			
		CodeNamePProduction Data				
ISA16	l15	Component Element Separator	М		1/1	Must use
		Description: Type is not applicable; the conot a data element; this field provides the celements within a composite data structure element congretator and the composite terminals.	delimiter ; this val	used to s	eparate com	ponent data

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element separator and the segment terminator

GS Functional Group Header

Pos: Max: 1 Not Defined - Mandatory Loop: N/A Elements: 8

User Option (Usage): Must use

Purpose: To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
GS01	479	Functional Identifier Code	М	ID	2/2	Must use
		Description: Code identifying a group of a	applicatio	on related	d transaction s	ets
		CodeList Summary (Total Codes: 240, In Code Name PS Planning Schedule with Release Ca		•		
GS02	142	Application Sender's Code	М	AN	2/15	Must use
		Description: Code identifying party sending partners	ng transr	nission; (codes agreed t	to by trading
GS03	124	Application Receiver's Code	М	AN	2/15	Must use
	Description: Code identifying party receiving transmission; codes agreed to by trading partners					
GS04	373	Date	М	DT	8/8	Must use
		Description: Date expressed as CCYYMM	ИDD			
GS05	337	Time	М	TM	4/8	Must use
		Description: Time expressed in 24-hour of HHMMSSD, or HHMMSSDD, where H = h seconds (00-59) and DD = decimal second = tenths (0-9) and DD = hundredths (00-95)	ours (00- ds; decim	-23), M =	minutes (00-5	9), S = integer
GS06	28	Group Control Number	М	N0	1/9	Must use
		Description: Assigned number originated	and mai	ntained l	by the sender	
GS07	455	Responsible Agency Code	М	ID	1/2	Must use
		Description: Code identifying the issuer of with Data Element 480	of the sta	ndard; th	is code is used	d in conjunction
		CodeList Summary (Total Codes: 2, Inclu	ıded: 1)			
		Code Name				
		X Accredited Standards Committee X	.12			
GS08	480	Version / Release / Industry Identifier Code	М	AN	1/12	Must use

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

Ref Id Element Name Req Type Min/Max Usage

CodeList Summary (Total Codes: 39, Included: 1)

Code Name

004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

- 1. GS04 is the group date.
- 2. GS05 is the group time.
- 3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use			
		Description: Code uniquely identifying a Transaction Set							
	CodeList Summary (Total Codes: 298, Included: 1)								
		Code Name							
		830 Planning Schedule with Release Ca	pability						
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use			
Description: Identifying control number that must be unique within the transaction se functional group assigned by the originator for a transaction set									

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

Pos: 020 Max: 1 Heading - Mandatory Loop: N/A Elements: 9

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
BFR01	353	Transaction Set Purpose Code	М	ID	2/2	Must use		
		Description: Code identifying purpose of transaction set						
		CodeList Summary (Total Codes: 65, Incl	uded: 3)					
		Code Name						
		00 Original						
		04 Change 05 Replace						
BFR02	127	Reference Identification	Х	AN	1/30	Must use		
		Description: Reference information as def specified by the Reference Identification Quality		a particu	iai Hansaciioi	i Set of as		
BFR03	328	Release Number	Χ	AN	1/30	Must use		
		Description: Number identifying a release the parties involved in the transaction	against	a Purcha	ase Order prev	iously placed by		
BFR04	675	Schedule Type Qualifier	М	ID	2/2	Must use		
		Description: Code identifying the type of code in a schedule or forecast	lates use	ed when	defining a ship	ping or delivery		
		CodeList Summary (Total Codes: 11, Incl	uded: 2)					
		Code Name						
		DL Delivery Based						
		SH Shipment Based						
BFR05	676	Schedule Quantity Qualifier	M	ID	1/1	Must use		
		Description: Code identifying the type of of forecast	_l uantities	s used w	hen defining a	schedule or		
		CodeList Summary (Total Codes: 4, Inclu	ded: 1)					
		Code Name						
		A Actual Discrete Quantities						
BFR06	373	Date	М	DT	8/8	Must use		
		Description: Date expressed as CCYYMN	IDD					
BFR07	373	Date	0	DT	8/8	Must use		
		Description: Date expressed as CCYYMM	IDD					
BFR08	373	Date	М	DT	8/8	Must use		

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
		Description: Date expressed as CCYYMM	IDD			
BFR11	324	Purchase Order Number	0	AN	1/22	Must use
		Description: Identifying number for Purcha	ase Orde	er assign	ed by the orde	rer/purchaser

Syntax Rules:

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

Semantics:

- 1. If BFR01 contains the value "04" (Net Change), BFR09 is required.
- 2. BFR02 is the identifying number for a forecast assigned by the orderer/purchaser.
- 3. BFR06 is the forecast horizon start date: The date when the forecast horizon (envelope) begins.
- 4. BFR07 is the forecast horizon end date: The date when the forecast horizon (envelope) ends.
- 5. BFR08 is the date forecast generated: The date the forecast data was generated.
- 6. BFR09 is the date forecast updated: The date the forecast was updated with "net change" data. (Used only when data element 353 in BFR01 contains the value "04", meaning net change.)

Loop Name

Pos: 230 Repeat: 200

Optional

Loop: N1 Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
230	N1	Name	0	1		Must use
240	N2	Additional Name Information	0	2		Used
250	N3	Address Information	0	2		Must use
260	N4	Geographic Location	0	1		Must use

N1 Name

Pos: 230 Max: 1 Heading - Optional Loop: N1 Elements: 4

User Option (Usage): Must use

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

Element Summary:

		y .								
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>				
N101	98	Entity Identifier Code	М	ID	2/3	Must use				
		Description: Code identifying an organizational entity, a physical location, property or an individual								
		CodeList Summary (Total Codes: 1312, Included: 2)								
		CodeNameSTShip ToSUSupplier/Manufacturer								
N102	93	Name	Χ	AN	1/60	Must use				
		Description: Free-form name								
N103	66	Identification Code Qualifier	Χ	ID	1/2	Must use				
		Description: Code designating the system Code (67)	/method	d of code	structure used	for Identification				
		CodeList Summary (Total Codes: 215, Inc	luded: '	1)						
		Code NameD-U-N-S Number, Dun & Bradstreet								
N104	67	Identification Code	Χ	AN	2/80	Must use				
		Description: Code identifying a party or oth	ner code	е						
		User Note 1:								
		When the N1-01=SU, this code is the CSA carton labels	Supplie	er ID and	must be used	on pallet and				

Syntax Rules:

- 1. R0203 At least one of N102 or N103 is required.
- 2. P0304 If either N103 or N104 is present, then the other is 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.
- 2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 240 Max: 2 Heading - Optional Loop: N1 Elements: 1

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use

Description: Free-form name

N3 Address Information

Pos: 250 Max: 2 Heading - Optional Loop: N1 Elements: 1

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

RefIdElement NameReqTypeMin/MaxUsageN301166Address InformationMAN1/55Must use

Description: Address information

N4 Geographic Location

Pos: 260 Max: 1 Heading - Optional Loop: N1 Elements: 3

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	0	ID	2/2	Must use
		Description: Code (Standard State/Provincagency	ce) as d	efined by	ν appropriate ς	government
N403	116	Postal Code	0	ID	3/15	Must use
		Description: Code defining international poblanks (zip code for United States)	ostal zoi	ne code (excluding pun	ctuation and

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

Loop Item Identification

Pos: 010 Repeat: >1 Mandatory

Loop: LIN Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
010	LIN	Item Identification	М	1		Must use
020	UIT	Unit Detail	0	1		Must use
130	PRS	Part Release Status	0	1		Used
140	REF	Reference Identification	0	12		Used
150	PER	Administrative Communications Contact	0	3		Must use
230	ATH	Resource Authorization	0	20		Must use
410		Loop FST	0		>1	Must use
470		Loop SHP	0		25	Must use

LIN Item Identification

Pos: 010 Max: 1 Detail - Mandatory Loop: LIN Elements: 5

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
LIN01	350	Assigned Identification	0	AN	1/20	Used			
		Description: Alphanumeric characters assigned for differentiation within a transaction set							
		User Note 1:							
		Future use: To be sent when when plant I LIN-01 of ASN	has impl	emented	SAP. Must be	e sent in the			
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 477, Included: 1)							
		Code Name							
		BP Buyer's Part Number							
LIN03	234	Product/Service ID	М	AN	1/48	Must use			
		Description: Identifying number for a prod	uct or se	ervice					
LIN04	235	Product/Service ID Qualifier	Χ	ID	2/2	Must use			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 477, Inc	cluded: 1)					
		Code Name							
		PO Purchase Order Number							
LIN05	234	Product/Service ID	Χ	AN	1/48	Must use			
		Description: Identifying number for a prod	uct or se	ervice					

Syntax Rules:

- 1. P0405 If either LIN04 or LIN05 is present, then the other is required.
- 2. P0607 If either LIN06 or LIN07 is present, then the other is required.
- 3. P0809 If either LIN08 or LIN09 is present, then the other is required.
- 4. P1011 If either LIN10 or LIN11 is present, then the other is required.
- 5. P1213 If either LIN12 or LIN13 is present, then the other is required.
- 6. P1415 If either LIN14 or LIN15 is present, then the other is required.
- 7. P1617 If either LIN16 or LIN17 is present, then the other is required.
- 8. P1819 If either LIN18 or LIN19 is present, then the other is required.
- 9. P2021 If either LIN20 or LIN21 is present, then the other is required.
- 10. P2223 If either LIN22 or LIN23 is present, then the other is required.
- 11. P2425 If either LIN24 or LIN25 is present, then the other is required.
- 12. P2627 If either LIN26 or LIN27 is present, then the other is required.

- 13. P2829 If either LIN28 or LIN29 is present, then the other is required.
- 14. P3031 If either LIN30 or LIN31 is present, then the other is required.

Semantics:

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.

UIT Unit Detail

Pos: 020 Max: 1 **Detail - Optional** Loop: LIN Elements: 1

User Option (Usage): Must use Purpose: To specify item unit data

Element S	Summa	ary:							
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>			
UIT01	C001	Composite Unit of Measure	М	Comp		Must use			
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)							
		Comments:							
		 If C001-02 is not used, its value is to be interpreted as 1. If C001-03 is not used, its value is to be interpreted as 1. If C001-05 is not used, its value is to be interpreted as 1. 							
		4. If C001-06 is not used, its value is to be interpreted as 1.							
		5. If C001-08 is not used, its value is to be it	interpre	ted as 1.					
		6. If C001-09 is not used, its value is to be it	interpre	ted as 1.					
		7. If C001-11 is not used, its value is to be it	interpre	ted as 1.					
		8. If C001-12 is not used, its value is to be it	interpre	ted as 1.					
		9. If C001-14 is not used, its value is to be it	interpre	ted as 1.					
		10. If C001-15 is not used, its value is to be	interpr	eted as 1					
UIT01-01	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use			
	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken								
		User Note 1:							

Any valid X12 code value except mutually defined: 'ZZ'

CodeList Summary (Total Codes: 794, Included: 1)

Code Name Piece PC

Syntax Rules:

1. C0302 - If UIT03 is present, then UIT02 is required.

PRS Part Release Status

Pos: 130 Max: 1 Detail - Optional Loop: LIN Elements: 1

User Option (Usage): Used

Purpose: To indicate the status of the part being ordered or forecast with respect to this material release or planning document

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
PRS01	682	Part Release Status Code	M	ID	1/2	Must use

Description: Code identifying the status of the specific part number being released or forecast or being used in an engineering change

REF Reference Identification

Pos: 140 Max: 12
Detail - Optional
Loop: LIN Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use			
		Description: Code qualifying the Reference Identification							
		CodeList Summary (Total Codes: 1503, In	CodeList Summary (Total Codes: 1503, Included: 3)						
		Code Name							
		DK Dock Number							
		LF Assembly Line Feed Location							
		RL Reserve Assembly Line Feed Locati	on						
REF02	127	Reference Identification	Χ	AN	1/30	Used			

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

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.

PER Administrative Communications Contact

Pos: 150 Max: 3 Detail - Optional Loop: LIN Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major du named	ty or res	sponsibili	ty of the perso	n or group
		CodeList Summary (Total Codes: 230, Inc	cluded: 1	1)		
		Code Name				
		EX Expeditor				
PER02	93	Name	0	AN	1/60	Must use
		Description: Free-form name				

Syntax Rules:

- 1. P0304 If either PER03 or PER04 is present, then the other is required.
- 2. P0506 If either PER05 or PER06 is present, then the other is required.
- 3. P0708 If either PER07 or PER08 is present, then the other is required.

ATH Resource Authorization

Pos: 230 Max: 20
Detail - Optional
Loop: LIN Elements: 3

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>		
ATH01	672	Resource Authorization Code	М	ID	2/2	Must use		
		Description: Code identifying the resource which the buyer is authorizing the seller to commit to						
	CodeList Summary (Total Codes: 8, Included: 3)							
		Code Name						
		FI Finished (Labor, Material, and Ove	rhead/Bu	ırden)				
		MT Material						
		PQ Cumulative Quantity Required Prior	r to First	Schedule	e Period			
ATH03	380	Quantity	Х	R	1/15	Must use		
		Description: Numeric value of quantity						
ATH05	373	Date	Х	DT	8/8	Must use		
		Description: Date expressed as CCYYMI	MDD					

Syntax Rules:

- 1. R0203 At least one of ATH02 or ATH03 is required.
- 2. C0305 If ATH03 is present, then ATH05 is required.
- 3. C0405 If ATH04 is present, then ATH05 is required.

Semantics:

- 1. ATH02 is the resource authorization through date: The date through which the buyer authorizes the seller to commit the resource defined in element ATH01.
- 2. ATH03 is the current cumulative requirements quantity: The cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02).
- 3. ATH05 is the cumulative start date: The date where the cumulative quantity count starts. This date might be the start date of a contract period, a calendar or fiscal year, or other.

Comments:

- 1. It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.
- 2. ATH04 is the maximum cumulative requirements quantity: The maximum cumulative quantity that has been authorized to date from the cumulative start date (ATH05) through the resource authorization through date (ATH02). This is a high water mark. If the forecast decreases, the current cumulative requirements quantity also decreases, but the maximum cumulative requirements quantity does not decrease.

Loop Forecast Schedule

Pos: 410 Repeat: >1

Optional

Loop: FST Elements: N/A

User Option (Usage): Must use

Purpose: To specify the forecasted dates and quantities

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
410	FST	Forecast Schedule	0	1		Must use

FST Forecast Schedule

Pos: 410 Max: 1 Detail - Optional Loop: FST Elements: 4

User Option (Usage): Must use

Purpose: To specify the forecasted dates and quantities

Element Summary:

Ref FST01	<u>ld</u> 380	Element Name Quantity	<u>Req</u> M	<u>Type</u> R	Min/Max 1/15	<u>Usage</u> Must use		
		Description: Numeric value of quantity						
FST02	680	Forecast Qualifier	М	ID	1/1	Must use		
		Description: Code specifying the sender's confidence level of the forecast data or an action associated with a forecast						
		CodeList Summary (Total Codes: 21, Inc	luded: 3)					
		CodeNameAImmediateCFirmDPlanning						
FST03	681	Forecast Timing Qualifier	М	ID	1/1	Must use		
		Description: Code specifying interval grou	uping of t	the forec	ast			
		CodeList Summary (Total Codes: 11, Inc. Code Name D Discrete F Flexible Interval (from Date X through M Monthly Bucket (Calendar Months)	•					
FST04	373	Date	M	DT	8/8	Must use		
		Description: Date expressed as CCYYMN	/IDD					

Syntax Rules:

- 1. P0607 If either FST06 or FST07 is present, then the other is required.
- 2. P0809 If either FST08 or FST09 is present, then the other is required.

Semantics:

1. If FST03 equals "F" (indicating flexible interval), then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval.

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 qualifies the 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 a.m. or p.m.

Loop Shipped/Received Information

Pos: 470 Repeat: 25

Optional

Loop: SHP Elements: N/A

User Option (Usage): Must use

Purpose: To specify shipment and/or receipt information

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
470	SHP	Shipped/Received Information	0	1		Must use
480	REF	Reference Identification	0	5		Used

SHP Shipped/Received Information

Pos: 470 Max: 1
Detail - Optional
Loop: SHP Elements: 5

User Option (Usage): Must use

Purpose: To specify shipment and/or receipt information

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SHP01	673	Quantity Qualifier	0	ID	2/2	Must use
		Description: Code specifying the type of c	luantity			
		CodeList Summary (Total Codes: 832, Inc	cluded: 2	2)		
		Code Name				
		01 Discrete Quantity				
		02 Cumulative Quantity				
SHP02	380	Quantity	Х	R	1/15	Must use
		Description: Numeric value of quantity				
SHP03	374	Date/Time Qualifier	Χ	ID	3/3	Must use
		Description: Code specifying type of date	or time,	or both	date and time	
		CodeList Summary (Total Codes: 1112, In	ncluded:	3)		
		Code Name				
		011 Shipped				
		050 Received				
		051 Cumulative Quantity Start				
SHP04	373	Date	Х	DT	8/8	Must use
		Description: Date expressed as CCYYMM	IDD			
SHP06	373	Date	0	DT	8/8	Must use
		Description: Date expressed as CCYYMM	IDD			

Syntax Rules:

- 1. C0102 If SHP01 is present, then SHP02 is required.
- 2. L030405 If SHP03 is present, then at least one of SHP04 or SHP05 is required.
- 3. C0403 If SHP04 is present, then SHP03 is required.
- 4. C0503 If SHP05 is present, then SHP03 is required.

Semantics:

- 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 Reference Identification

Pos: 480 Max: 5
Detail - Optional
Loop: SHP Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>	
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use	
Description: Code qualifying the Reference Identification							
		CodeList Summary (Total Codes: 1503, Included: 1)					
		Code Name					
	SI Shipper's Identifying Number for Shipment (SID)						
REF02	127	Reference Identification	Х	AN	1/30	Used	
Description: Reference information as defined for a particular Transaction Set or as					n Set or as		

specified by the Reference Identification Qualifier

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.

CTT Transaction Totals

Pos: 010 Max: 1 Summary - Optional Loop: N/A Elements: 2

Must use

User Option (Usage): Must use

347

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>		
CTT01	354	Number of Line Items	M	N0	1/6	Must use		
		Description: Total number of line items in the transaction set						
		User Note 1:						
		Total number of LIN segments						

0

R

1/10

User Note 1:

Hash Total

Hash total of quantities released (FST01)

Syntax Rules:

CTT02

- 1. P0304 If either CTT03 or CTT04 is present, then the other is required.
- 2. P0506 If either CTT05 or CTT06 is present, then the other is required.

Comments:

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

SE Transaction Set Trailer

Pos: 020 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

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)

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
SE01	96	Number of Included Segments	М	N0	1/10	Must use		
		Description: Total number of segments in segments	cluded ir	n a transa	action set inclu	iding ST and SE		
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use		
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

Comments:

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

GE Functional Group Trailer

Pos: Max: 1 Not Defined - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	М	N0	1/6	Must use
		Description: Total number of transaction s interchange (transmission) group terminate			_	•
GE02	28	Group Control Number	М	N0	1/9	Must use
		Descriptions Assistant description and according to the			41	

Description: Assigned number originated and maintained by the sender

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos: Max: 1
Not Defined - Mandatory
Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>	
IEA01	l16	Number of Included Functional Groups	M	N0	1/5	Must use	
		Description: A count of the number of fund	ctional g	roups ind	cluded in an in	terchange	
IEA02	l12	Interchange Control Number	М	N0	9/9	Must use	
		Description: A control number assigned by the interchange sender					