

Lacks Enterprises

830 Planning Schedule

ANSI X12

Version 004010



830 Planning Schedule – ANSI X12 Version 004010

Transaction Layout:

Heading:

Req	Seg ID	Name	Req Des	Max Use	Loop Repeat
Required	ST	Transaction Set Header	M	1	
Required	BFR	Beginning segment of Planning Schedule	M	1	
		LOOPID – N1			200
Required	N1	Name	O	1	

Detail:

Req	Seg ID	Name	Req Des	Max Use	Loop Repeat
		LOOP ID – LIN			>1
Required	LIN	Item Identification	O	1	
Required	UIT	Unit Detail	O	1	
Required	PER	Administrative Communication Contact	O	3	
Required	REF	Reference Identification	O	12	
	ATH	Resource Authorization	O	20	
		LOOP ID – FST			>1
Required	FST	Forecast Schedule	O	1	
		LOOP ID – SHP			25
	SHP	Shipped/Received Information	O	1	
	REF	Reference Identification	O	1	

Summary:

Req	Seg ID	Name	Req Des	Max Use	Loop Repeat
Required	CTT	Transaction Totals	O	1	
Required	SE	Transaction Set Trailer	M	1	

Segment: **ST** Transaction Set Header

Loop:

Level: Heading

Usage: Mandatory

Max Use: 1

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

Syntax Notes:

Semantic: The transaction set identifier (ST01) is used by the translation routines of the interchange

Notes: partners to select the appropriate transaction set definition

Examples: ST*830*13579~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	
Required	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

Segment: **BFR** Beginning Segment for Shipping Schedule/Production Sequence

Loop:

Level: Heading

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: At least one of BFR02 or BFR03 is required

Semantic

- Notes:**
1. BFR06 is the forecast horizon start date – the date when the forecast horizon begins
 2. BFR07 is the forecast horizon end date – the date when the forecast horizon ends
 3. BFR08 is the forecast generation date – the date the forecast was created

Examples: **BFR*00**20200512-001*DL*A*20200512*20200801*20200512~**
BFR*0020200512-001*SH*A*20200512*20200801*20200512~**

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	BFR01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
Required	BFR03	328	Release Number	X DT 1/30
			Number identifying a release against a Purchase Order previously place by the parties involved in the transaction	
Required	BFR04	675	Schedule Type Qualifier	M ID 2/2
			Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	
			DL Delivery Based – Due at [CLIENT]	
			SH Shipment Based – Due to ship from Vendor	
Required	BFR05	676	Schedule Quantity Qualifier	M ID 1/1
			Code identifying the type of quantities used when defining a schedule or forecast	
			A Actual Discrete Quantities	
Required	BFR06	373	Horizon Start Date	O DT 8/8
			Date expressed as CCYYMMDD	
Required	BFR07	373	Horizon End Date	O DT 8/8
			Date expressed as CCYYMMDD	
Required	BFR08	373	Release Date	M DT 8/8
			Date expressed as CCYYMMDD	

Segment: **N1** Name

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 200

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

Examples: **N1*SU**92*800001~**
 N1*ST92*1020~**

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			ST Ship To – 4 digit plant number	
			SU Supplier – 6 digit supplier number starts with 8	
	N102	93	Name	X AN 1/60
			Free-form name	
Required	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			92 Assigned by Buyer or Buyer's Agent	
Required	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	

Segment: **LIN** Item Identification

Loop: LIN Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

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 LIN07 or LIN08 is present, then the other is required

Examples: LIN**BP*M4502198*PO*SS006112~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	LIN02	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
Required	LIN03	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			<i>[CLIENT] Part Number</i>	
	LIN04	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			PO Purchase Order Number	
	LIN05	234	Product/Service ID	
			Identifying number for a product or service	
			<i>[CLIENT] Purchase Order Number</i>	
	LIN06	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
	LIN07	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			<i>Part Engineering Change Level</i>	
	LIN08	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
	LIN09	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			<i>Vendor's Part Number</i>	

Segment: **UIT** Unit Detail

Loop: LIN Optional

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify item unit data

Examples: UIT*EA~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	UIT01	C001	Composite Unit of Measure	M
			To identify a composite unit of measure	
Required	C00101	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	
			EA Each	
			LB Pound	

Segment: **PER** Administrative Communications Contact

Loop: LIN Optional

Level: Detail

Usage: Optional

Max Use: 3

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

Syntax Notes: If either PER03 or PER04 is present, then the other is required.

Examples: **PER*IC*JOHN SMITH*TE*616-949-6570***

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Lacks Buyer	
	PER02	93	Name	O AN 1/60
			Free-form name	
	PER03	365	Communication Number Qualifier	X ID 2/2
			TE Telephone Number @Lacks	
	PER04	364	Communication Number	X AN 1/80
			Complete communication number including country or area code	
			PC Piece	

Segment: **REF** Reference Identification

Loop: LIN Optional

Level: Detail

Usage: Optional

Max Use: 12

Purpose: To specify identifying information

Syntax Notes:

Examples: REF*DK*DOCK1~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	REF01	128	Reference Identification Qualifier	M ID 2/3
			DK Dock Number	
Required	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **ATH** Resource Authorization

Loop: LIN Mandatory

Level: Detail

Usage: Optional

Max Use: 20

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

Syntax

- Notes:**
- 1 At least one of ATH02 or ATH03 is required.
 - 2 If ATH03 is present, then ATH05 is required.
 - 3 If ATH04 is present, then ATH05 is required.

- Semantic Notes:**
- 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.
 - 4 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.

Examples:

ATH*FI*20030718*38774**20030101~
ATH*MT*20030915*3822**20020901~
ATH*PQ*20070212*2000**2002090~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	ATH01	672	Resource Authorization Code	M ID 2/2
			FI FAB Authorization	
			MT Raw Material Authorization	
			PQ Cumulative Quantity Required Prior to First Schedule Period	
Required	ATH02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Required	ATH03	380	Quantity	X R 1/15
			Numeric value of quantity	
Not used	ATH04	380	Quantity	O R 1/15
			Numeric value of quantity	
Required	ATH05	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

Segment: **FST** Forecast Schedule

Loop: FST Optional

Level: Detail

Usage: Optional

Max Use: >1

Purpose: To specify the forecasted dates and quantities

Syntax 1 If FST03 equals "F", then FST04 and FST05 are required. FST04 would be used for the

Notes: start date of the flexible interval and FST05 would be used for the end date of the flexible interval

2 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecast bucket (weekly, monthly, etc.) or the start date of a flexible Interval

Examples: FST*864*C*D*20200512~
FST*864*D*W*20200519~
FST*864*D*M*20200601~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	FST01	380	Quantity	M R 1/15
			Numeric value of quantity	
Required	FST02	680	Forecast Qualifier	M ID 1/1
			Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	
			C Firm	
			D Planning	
Required	FST03	681	Forecast Timing Qualifier	M ID 1/1
			Code specifying interval grouping of the forecast	
			C Daily	
			D Discrete	
			W Weekly	
			M Monthly	
Required	FST04	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
Optional	FST05	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
Optional	FST08	128	Reference Identification Qualifier	X DT 2/3
			Code qualifying the reference identification	
Optional	FST09	127	Reference Identification Date	X DT 1/30
			Reference identification as defined for a particular transaction set or as specified by the Reference Identification Qualifier	

Segment: **SHP** Shipped/Received Information

Loop: SHP Optional

Level: Detail

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.

3 If SHP04 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.

3 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities, dates, and times.

4 If SHP01 equals "02", then SHP04 and SHP06 are required to identify the start and end dates of the quantity count.

Examples: SHP*01*900*050*20200429~
SHP*02*30523*051*20200221**20200430~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	SHP01	673	Quantify Qualifier	O ID 2/2
			01 Discrete Quantity	
			02 Cumulative Received	
Required	SHP02	380	Quantity	X R 1/15
			Numeric value of quantity	
Required	SHP03	374	Date/Time Qualifier	X ID 3/3
			Code specifying type of date or time, or both date and time	
			050 Received	
			051 Cumulative Quantity Start	
Required	SHP04	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
			<i>If SHP03 = "050", this date is the Last Shipment Received Date. If SHP03 = "051", this date is the Cumulative Quantity Start date.</i>	
	SHP06	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
			<i>If SHP03 = "051", this date is the Cumulative Quantity End Date.</i>	

Segment: **REF** Reference Identification

Loop: SHP Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify identifying information

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

Examples: SHP*01*900*050*20030229~
REF*SI*10004455~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	REF01	128	Reference Identification Qualifier	M ID 2/3
			SI Shipper's Identifying Number for Shipment (SID). A unique number (to the shipper) assigned by the shipper to identify the shipment	
			<i>If SHP03 = "050", this is the Last Shipment ID Received.</i>	
Required	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **CTT** Transaction Totals

Loop:

Level: Summary

Usage: Optional

Max Use: 1

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

Examples: CTT*6*162055~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	

Segment: **SE** Transaction Set Trailer

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)

Examples: SE*24*56781~

Data Element Summary

Req	Ref Des	Data Element	Name	Attributes
Required	SE01	96	Number of Included Segments	M NO 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Required	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction	

Example:

ST*830*13579~
BFR*00**20200710-001*DL*A*20200710*20201001*20200710~
N1*SU*ABC CORPORATION*92*800001~
N1*ST*LACKS TRIM SYSTEMS - Kraft Assembly*92*1020~
PER*IC*JOHN SMITH*TE*616-949-6570*
LIN**BP*N11040498*PO*SS2044*EC*~
UIT*EA~
REF*DK*DOCK1~
ATH*FI*20200710*38774**20200101~
ATH*MT*20200915*3822**20201001~
ATH*PQ*20200212*2000**20201001~
FST*1000*C*D*20200720~
FST*2300*D*W*20200728~
FST*2100*D*W*20200811~
FST*4200*D*M*20200901~
SHP*01*900*050*20200429~
REF*SI*10004455~
SHP*02*30523*051*20200221**20200430~
LIN**BP*93735-ZH40A*PO*SS2044*EC*~
UIT*EA~
ATH*FI*20200710*45**20200101~
ATH*MT*20200915*555**20201001~
ATH*PQ*20200212*20**20201001~
FST*1000*C*D*20200720~
FST*2000*D*W*20200814~
FST*4000*D*M*20200901~
SHP*01*15*050*20200429~
REF*SI*10004455~
SHP*02*90*051*20200221**20200430~
CTT*2*162055~
SE*32*13579~

Version	Date of Revision	Segment	Change Description
5.00	9/28/2020	N1	Clarified ST and SU format
		PER	Clarified PER contact as Lacks, removed EM data
	11/18/2021	PER	Moved PER segment from header to detail
6	12/8/2021	PER	Moved PER segment from header to detail
7	5/18/2022	SHP	Changed description of 02 qualifier to be Cumulative Received Data is and has been generating properly for this definition
8	3/30/2023		Total reformat