



Kimball Electronics Group

1600 Royal Street
GO-149
Jasper, IN 47549 812-634-9497

Planning Schedule with Release Capability

EDI Transaction 830
Specifications
X12 Standard 004010
Outbound from Kimball

830 Planning Schedule with Release Capability

Functional Group ID=**PS**

Introduction:

This standard contains the format and establishes the data contents of a Planning Schedule with Release Capability Transaction Set (830) for use within the context of an Electronic Data Interchange (EDI) environment. The planning schedule with release capability transaction set provides 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 material; (3) a forecast that is also used as an order release mechanism. The order release forecast may also contain data related to purchase orders.

Table 1: Heading

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
010	ST	Transaction Set Header	M	1		
020	BFR	Beginning Segment for Planning Schedule	M	1		
LOOP ID - N1					200	
230	N1	Name	O	2		

Table 2: Detail

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN					10000	
010	LIN	Item Identification	M	1		
020	UIT	Unit Detail	M	1		
230	ATH	Resource Authorization	O	20		
LOOP ID - FST					260	
410	FST	Forecast Schedule	O	1		
LOOP ID - SHP					25	
470	SHP	Shipped/Received Information	O	1		
480	REF	Reference Identification	O	5		

Table 3: Summary

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

Transaction Set Notes

1. At least one occurrence of segment FST is required in the FST loop.
2. Number of line items (CTT01) is the accumulation of the number of LIN segments.
3. Hash total (CTT02) is the sum of the values of the quantities (FST01) for each FST segment.

Please refer to the document “Kimball Electronics EDI Communication Info” for VAN and interchange id information.

Segment: **ST** Transaction Set Header
Position: 010
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 Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition.
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M ID 3/3
		830 Planning Schedule with Release Capability	
ST02	329	Transaction Set Control Number 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

ST*830*1

Segment: **BFR** Beginning Segment for Planning Schedule

Position: 020

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:

- Semantic Notes:**
- 2 BFR06 Forecast Horizon Start Date: The date when the forecast horizon begins.
 - 3 BFR07 Forecast Horizon End Date: The date when the forecast horizon ends.
 - 4 BFR08 Date Forecast Generated: The date the forecast data was generated.

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
BFR01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 05 Replace	M ID 2/2
BFR03	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Internally assigned number or current date/time as CCYYMMDDHHMI	X AN 1/30
BFR04	675	Schedule Type Qualifier Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast DL Delivery Based DL dates specify when material is scheduled to arrive at the receiving location.	M ID 2/2
BFR05	676	Schedule Quantity Qualifier Code identifying the type of quantities used when defining a schedule or forecast A Actual Discrete Quantities	M ID 1/1
BFR06	373	Beginning Forecast Date Date expressed as CCYYMMDD Current date.	M DT 8/8
BFR08	373	Date Date expressed as CCYYMMDD Forecast generation date.	M DT 8/8

BFR*05**2*DL*A*20020701**20020701

Segment: **N1** Name
Position: 230
Loop: N1 Optional
Level: Heading:
Usage: Optional
Max Use: 1
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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		ST Ship To	
		SU Supplier/Manufacturer	
		Kimball Electronics Group's SAP supplier number – specified during setup	
N102	93	Name	O AN 1/60
		Free-form name	
		Name of the ST or SU.	
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	
N104	67	Identification Code	X AN 2/80
		Code identifying a party or other code	
		Ship To location – refer to the KEG communications information document for actual usage	

N1*SU**92*40001234
 N1*ST**92*KIKEG07

Segment: **LIN** Item Identification
Position: 010
Loop: LIN Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN02 or LIN03 is present, then the other is required.
- 2 If either LIN04 or LIN05 is present, then the other is required.
- 3 If either LIN06 or LIN07 is present, then the other is required.
- 4 If either LIN08 or LIN09 is present, then the other is required.

Semantic Notes:
Comments:

- 1 LIN02 through LIN09 provide for different product/service IDs for each item.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
LIN01	350	Assigned Identification Line item reference number	O AN 1/20
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number	M ID 2/2
LIN03	234	Product/Service ID - Buyer's Part Number Kimball Part Number	M AN 1/48
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	X ID 2/2
LIN05	234	Product/Service ID - PO Number Kimball Purchase Order Number	X AN 1/48

LIN*00010*BP*ABC123*PO*5500000041

Usage note: No LIN loop will be sent for items with no open requirements.

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN Mandatory
Level: Detail:
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
UIT01	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

UIT01 is a composite data element, C001, which contains 15 simple data elements. Only the first component of the composite, data element 355, is used.

Refer to 004010 Data Element Dictionary for acceptable code values.

UIT*EA

Segment: **ATH** Resource Authorization
Position: 230
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.

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.

Comments:
1 It is imperative that negotiations defining financial commitment have previously occurred and are agreed to by both buyer and seller.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
ATH01	672	Resource Authorization Code	M ID 2/2
		Code identifying the resource which the buyer is authorizing the seller to commit to	
		FI Finished (Labor, Material, and Overhead/Burden)	
		MT Material	
ATH02	373	Date	X DT 8/8
		Date expressed as CCYYMMDD	

ATH*FI*20020722
ATH*MT*20020722

Segment: **FST** Forecast Schedule
Position: 410
Loop: FST Optional
Level: Detail:
Usage: Optional
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes: 1 If either FST06 or FST07 is present, then the other is required.
2 If either FST08 or FST09 is present, then the other is required.
Semantic Notes:
Comments: 1 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecasted bucket (weekly, monthly)
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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
FST01	380	Net Quantity Numeric value of quantity	M R 1/15
FST02	680	Forecast Qualifier Code specifying the sender's confidence level of the forecast data or an action associated with a forecast C Firm – Once a requirement becomes firm, it will be transmitted again each subsequent week until it has been completed. Any changes within the firm period that may be negotiated may also be reflected in this data. D Planning	M ID 1/1
FST03	681	Forecast Timing Qualifier Code specifying interval grouping of the forecast D Discrete M Monthly Bucket (Calendar Months) W Weekly Bucket (Monday through Sunday)	M ID 1/1
FST04	373	Requirement Date Date expressed as CCYYMMDD	M DT 8/8
FST08	128	Reference Number Qualifier Code qualifying the Reference Identification C1 Customer material spec number Kimball Engineering Change Level	O ID 2/3
FST09	127	Reference Number Kimball Engineering Change Level in effect at the time of the shipment.	O AN 1/30

FST*3980*C*D*20020708
FST*5000*D*D*20020918****C1*B

Segment: **SHP** Shipped/Received Information
Position: 470
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.
Semantic Notes: 1 SHP04 is the date received or the cumulative quantity start date (as qualified by SHP03).
Comments: 1 The SHP segment is used to communicate shipment, delivery, or receipt information and may include discrete or cumulative quantities and dates.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
SHP01	673	Quantity Qualifier Code specifying the type of quantity 01 Discrete Quantity 02 Cumulative Quantity	O ID 2/2
SHP02	380	Quantity Numeric value of quantity When SHP01 = 01 Last received discrete quantity. When SHP01 = 02 Cum received quantity.	X R 1/15
SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 050 Received When SHP01 = 01 051 Cumulative Quantity Start When SHP01 = 02 - **May not be transmitted**	X ID 3/3
SHP04	373	Date Date (YYMMDD) When SHP01 = 02 - **May not be transmitted** When SHP03 = 50 Last received date When SHP03 = 51 Cum start date	X DT 8/8
SHP06	373	Date Date (YYMMDD) When SHP01 = 02 - **May not be transmitted**	X DT 8/8

SHP*01*150*050*20020531
 SHP*02*10510

Segment: **REF** Reference Identification
Position: 480
Loop: SHP Optional
Level: Detail:
Usage: Optional
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Number Qualifier Code qualifying the Reference Identification SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment	M ID 2/3
REF02	127	Reference Number - Bill of Lading Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

REF*SI*12345

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary:
Usage: Mandatory
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
CTT02	347	Hash Total Sum of FST quantities	O R 1/10

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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
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 set	

Example of EDI Material Release

ISA*00* *00* *12*8126344400HARB *12*1234 *020812*2215*U*00401*000000132*0*P*>
GS*PS*KIKEG01*1234*20020819*2215*135*X*004010
ST*830*1
BFR*05**20020819221551*DL*A*20020819**20020819
N1*SU**92*40001234
N1*ST**92*KIKEG07
LIN*00010*BP*500-0123-00K*PO*5500000001
UIT*EA
ATH*FI*20020826
ATH*MT*20020826
FST*70000*C*W*20020826****C1*A
FST*30000*D*W*20020902****C1*A
FST*30000*D*W*20020909****C1*A
FST*30000*D*W*20020916****C1*A
FST*30000*D*W*20020923****C1*A
FST*30000*D*W*20020930****C1*A
FST*50000*D*W*20021007****C1*A
FST*50000*D*W*20021014****C1*B
FST*50000*D*W*20021021****C1*B
FST*50000*D*W*20021028****C1*B
FST*50000*D*W*20021104****C1*B
FST*50000*D*W*20021111****C1*B
FST*50000*D*W*20021118****C1*B
SHP*01*80000*050*20020724
REF*SI*0135790000
SHP*02*15000
LIN*00050*BP*500-0101-00K*PO*5500000001
UIT*EA
ATH*FI*20020826
ATH*MT*20020826
FST*56000*C*W*20020826
FST*30000*D*W*20020902
FST*30000*D*W*20020909
FST*30000*D*W*20020916
FST*30000*D*W*20020923
FST*30000*D*W*20020930
FST*30000*D*W*20021007
FST*30000*D*W*20021014
FST*30000*D*W*20021021
FST*30000*D*W*20021028
FST*30000*D*W*20021104
FST*30000*D*W*20021111
FST*30000*D*W*20021118
SHP*01*60000*050*20020814
REF*SI*0246800000
SHP*02*20000
CTT*2*986000
SE*46*1
GE*1*135
IEA*1*000000132