Kimball ®
Electronics

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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

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

Table 2: Detail

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - LIN			10000	
		Item Identification	M	1		
010	LIN	Unit Detail	M	1		
020	UIT	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

| Pos. | Seg. | | Req. | | Loop | Notes and |

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

No.	ID	Name	Des.	Max.Use	Repeat	Comments
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.

ST Transaction Set Header 010

Heading:
Mandatory
1
To indicate the start of a transaction set and to assign a control number

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

Ref. Des.	Data Element	Name	Attributes	
ST01	**143**	**Transaction Set Identifier Code**	**M**	**ID 3/3**
		Code uniquely identifying a Transaction Set		
		830 Planning Schedule with Release Capability		
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		

ST*830*1

Segment:	
Position:	
Loop: Level:	
Usage:	
Max Use:	
Purpose:	

BFR Beginning Segment for Planning Schedule

020
Heading:
Mandatory
1
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

Ref. Des.	Data Element	Name	Attributes	
BFR01	**353**	**Transaction Set Purpose Code**	**M**	**ID 2/2**
		Code identifying purpose of transaction set		
		05 Replace		
BFR03	**328**	**Release Number**	**X**	**AN 1/30**
		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		
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		
		DL dates specify when material is scheduled to arrive at the receiving location.		
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		

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

Current date.			
Date		**M**	**DT 8/8**
Date expressed as CCYYMMDD			
Forecast generation date.			
BFR06	**373**	**Beginning Forecast Date**	**M DT 8/8**
		Date expressed as CCYYMMDD	
BFR08	**373**		

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

N1 Name

230
N1   Optional
Heading:
Optional
1
To identify a party by type of organization, name, and code **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
Ref.   Data

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:

Des.	Element	Name	Attributes	
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

LIN Item Identification

010
LIN   Mandatory
Detail:
Mandatory
1
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.

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
LIN01	350	**Assigned Identification**	**O**	**AN 1/20**
		Line item reference number		
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)		
		BP Buyer's Part Number		
LIN03	234	**Product/Service ID - Buyer's Part Number**	**M**	**AN 1/48**
		Kimball Part Number		
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 – PO Number**	**X**	**AN 1/48**
		Kimball Purchase Order Number		

LIN*00010*BP*ABC123*PO*5500000041

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

UIT Unit Detail

020
LIN   Mandatory
Detail:
Mandatory
1
To specify item unit data

Semantic Notes:

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Comments:

<div align="center">

Data Element Summary

</div>

Ref. Des.	Data Element	Name	Attributes
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:	
Position:	
Loop: Level:	
Usage:	
Max Use:	
Purpose:	
Syntax Notes:	

ATH Resource Authorization

230
LIN   Mandatory
Detail:
Optional
20
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

Ref. Des.	Data Element	Name	Attributes	
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:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:

FST Forecast Schedule

410
FST   Optional
Detail:
Optional
1
To specify the forecasted dates and quantities
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

Ref. Des.	Data Element	Name	Attributes		
FST01	380	Net Quantity	M	R	1/15
		Numeric value of quantity			
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 – 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

Ref. Des.	Data Element	Name	Attributes		
FST03	681	Forecast Timing Qualifier	M	ID	1/1

Code specifying interval grouping of the forecast

D	Discrete
M	Monthly Bucket (Calendar Months)

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

		W	Weekly Bucket (Monday through Sunday)		
FST04	**373**	**Requirement Date**		**M**	**DT 8/8**
		Date expressed as CCYYMMDD			
FST08	**128**	**Reference Number Qualifier**		**O**	**ID 2/3**
		Code qualifying the Reference Identification			
		C1	Customer material spec number		
			Kimball Engineering Change Level		
FST09	**127**	**Reference Number**		**O**	**AN 1/30**
		Kimball Engineering Change Level in effect at the time of the shipment.			

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

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

SHP Shipped/Received Information

470
SHP   Optional
Detail:
Optional
1
To specify shipment and/or receipt information
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

Ref. Des.	Data Element	Name	Attributes	
SHP01	673	**Quantity Qualifier**	O	ID 2/2
		Code specifying the type of quantity		
		01 Discrete Quantity		
		02 Cumulative Quantity		
SHP02	380	**Quantity**	X	R 1/15
		Numeric value of quantity		
		When SHP01 = 01 Last received discrete quantity.		
		When SHP01 = 02 Cum received quantity.		
SHP03	374	**Date/Time Qualifier**	X	ID 3/3
		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**		
SHP04	373	**Date**	X	DT 8/8

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

> When SHP01 = 02 - **May not be transmitted**
> When SHP03 = 50 Last received date When
> SHP03 = 51 Cum start date

Date   **X   DT 8/8**
Date (YYMMDD)

> When SHP01 = 02 - **May not be transmitted**

Date (YYMMDD)

SHP06   373

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

REF Reference Identification

480
SHP   Optional
Detail:
Optional
5
To specify identifying information

Semantic Notes:
Comments:

Data Element Summary

Ref.   Data

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
REF01	**128**	**Reference Number Qualifier**	**M**	**ID 2/3**
		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		
REF02	**127**	**Reference Number - Bill of Lading**	**X**	**AN 1/30**
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

REF*SI*12345

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:
Syntax Notes:

CTT Transaction Totals

010

Summary:
Mandatory
1
To transmit a hash total for a specific element in the transaction set

Semantic Notes:

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

Data Element Summary

Ref. Des.	Data 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 FST quantities	

SE Transaction Set Trailer

020

Summary:
Mandatory
1
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

Ref. Des.	Data Element	Name	Attributes	
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		

Segment:
Position:
Loop: Level:
Usage:
Max Use:
Purpose:

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*02468000000
SHP*02*20000
CTT*2*986000
SE*46*1   GE*1*135
IEA*1*000000132