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Planning Schedule with Release Capability

EDI Transaction 830
Specifications
X12 Standard 004010
Outbound from Kimball

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1. Segment Usage

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.

<u>Name</u>	<u>Position</u>	<u>Kimball Usage</u>	<u>Max Use</u>	<u>Description</u>
Table 1				
ST	010	M	1	Transaction Set Header
BFR	020	M	1	Beginning Segment for Planning Schedule
N1	230	O	2/200	Name
Table 2				
LIN	010	M	1/10000	Item Identification
UIT	020	M	1	Unit Detail
ATH	230	O	20	Resource Authorization
FST	410	O	1/260	Forecast Schedule
SHP	470	O	1/25	Shipped/Received Information
REF	480	O	5	Reference Identification
Table 3				
CTT	010	M	1	Transaction Totals
SE	020	M	1	Transaction Set Trailer

Please refer to the document “KEI EDI Communication Details” for VAN and interchange id information.

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.



2. Header Segments

2.1. ST – Transaction Set Header (010)

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

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

2.2. BFR – Beginning Segment for Planning Schedule (020)

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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
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 CCYYMMDDHHMM	
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	
BFR06	373	Beginning Forecast Date	M DT 8/8
		Date expressed as CCYYMMDD	
		Current date.	
BFR08	373	Date	M DT 8/8
		Date expressed as CCYYMMDD	
		Forecast generation date.	

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



2.3. N1 – Name (230)

Optional 1

To identify a party by type of organization, name, and code **1** At least one of N102 or N103 is required.

Semantic Notes: **2** 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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element 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

3. Message Segments

3.1. LIN – Item Identification (010)

Mandatory 1

To specify basic item identification data

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

- 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 Kimball Scheduling Agreement number	X AN 1/48

LIN*00010*BP*ABC123*PO*5500000041



3.2. *UIT – Unit Detail (020)*

Mandatory 1

To specify item unit data

Semantic Notes:**Comments:****Data Element Summary**

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

3.3. *ATH – Resource Authorization (230)*

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.	Data	Attributes
<u>Des.</u>	<u>Element Name</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) End of the trade off zone	
	MT Material End of the firm zone	
ATH02	373 Date	X DT 8/8
	Date expressed as CCYYMMDD	

ATH*FI*20020722

ATH*MT*20020722

3.4. FST–Forecast Schedule (410)

Optional 1

To specify the forecasted dates and quantities

- Semantic 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.
- 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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</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 (Daily) 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



3.5. SHP – Shipped/Received Information (470)

Optional 1

To specify shipment and/or receipt information

- Semantic Notes:**
- 1 If SHP01 is present, then SHP02 is required.
 - 2 If SHP03 is present, then SHP04 is required.
 - 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.	Data		Attributes
<u>Des.</u>	<u>Element Name</u>		
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
		Date (YYMMDD)	
		When SHP01 = 02 - **May not be transmitted**	
		When SHP03 = 50 Last received date When SHP03 = 51	
		Cum start date	
SHP04	373	Date	X DT 8/8
		Date (YYMMDD)	
		When SHP01 = 02 - **May not be transmitted**	

SHP*01*150*050*20020531

SHP*02*10510

3.6. REF – Reference Identification (480)

Optional 5
To specify identifying information

Semantic Notes:
Comments:

Data Element Summary			
Ref. Des.	Data Element	Name	Attributes
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



830 X12 004010

4. Message Segments

4.1. CTT – Transaction Totals (010)

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.	Data		
<u>Des.</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

4.2. SE – Transaction Set Trailer (020)

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

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



5. Example Messages

5.1. Sample Data 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**Q2*40001234 N1*ST**Q2*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