



**SUPPLY CHAIN  
MATERIAL RELEASE**

**EDI IMPLEMENTATION GUIDE**

**X12 VERSION 4010 – 830 TRANSACTION SET**

**April 27, 2004**



## Document Status

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## Document Revision History

Version #	Date	Author's Name	Revisions Made
1.0	September 9, 2003	C. Covell	Initial draft of document.
2.0	April 27, 2004	C. Covell	Update to Introduction regarding the Bulk PO type code. The type code to be sent on the Bulk orders will be SA not BK as originally indicated in the spec.



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## Introduction

This EDI Implementation Guide defines the format and data content of the EDI Material Release (Planning Schedule with Release Capability) KB toys will trade with its Suppliers.

This Implementation Guide is based upon ANSI ASC X12 version 4010. The Material Release is the X12 830 transaction set. Should a Trading Partner prefer to utilize a different X12 version for the Material Release, please contact KB toys's EDI team: [KB\\_EDl@kodiakgroup.com](mailto:KB_EDl@kodiakgroup.com).

The 830 will contain the original Master PO number and the new release PO number. The proposed process is as follows:

- KB toys will send a Master PO (850) using the current EDI format.
- The Master PO number sent will end in the alpha character "M" that represents the new virtual warehouse.
- The detail section of the PO will provide the same information as sent on the stand alone orders today.
- To release shipments against the Master PO KB will send the 830.

The first step in the implementation of an EDI Material Release would be a joint review of this EDI Implementation Guide, involving the Supplier and the KB toys EDI Team. The 830 transaction set, as with any EDI transaction set, contains both mandatory and optional data. The Supplier and KB toys will need to agree on the use of all the proposed data elements.

The data content of the EDI Material Release will be driven by the business requirements of both KB toys and its Suppliers. As such, the initial review of this EDI Implementation Guide may raise certain business issues that will need to be addressed in order to successfully implement this transaction set. These business issues include (but are not necessarily limited to):

1. Timely processing of the Material Release.
2. Ensuring vendor data maintained by KB toys (such as vendor product codes, units of measure, unit prices, etc.) are kept in synchronization with the Supplier.
3. Supplier's ability to reconcile Material Release line items with original Purchase Order.



# Structure of the 830 Transaction Set

## 830 Material Release

### Header

<u>POS.</u>	<u>TAG</u>	<u>NAME</u>	<u>STATUS</u>	<u>REPEAT</u>	<u>LOOP REPEAT</u>
010	<a href="#">ST</a>	Transaction Set Header	M	1	
020	<a href="#">BFR</a>	Beginning Segment for Planning Schedule	M	1	
025	<a href="#">XPO</a>	Purchase Order Number Assigned to Release	O	>1	
050	<a href="#">REF</a>	Reference Identification (Vendor Number)	O	12	
050	<a href="#">REF</a>	Reference Identification (Letter of Credit Number)	O	12	
050	<a href="#">REF</a>	Reference Identification (Notes)	O	12	
060	<a href="#">PER</a>	Administrative Communications Contact	O	3	
080	<a href="#">FOB</a>	F.O.B Related Instructions	O	1	
100	<a href="#">SAC</a>	Service, Promotion, Allowance or Charge Info.	O	25	
120	<a href="#">ITD</a>	Terms of Sale / Deferred Terms of Sale	O	2	
130	<a href="#">DTM</a>	Date / Time Reference	O	10	

<b>GROUP N1</b>		<b>O</b>	<b>200</b>
230	<a href="#">N1</a>	Name	M 1
250	<a href="#">N3</a>	Address Information	O 2
260	<a href="#">N4</a>	Geographic Location	O 1



**Detail**

<u>POS.</u>	<u>TAG</u>	<u>NAME</u>	<u>STATUS</u>	<u>REPEAT</u>	<u>LOOP REPEAT</u>
	<b>GROUP LIN</b>		<b>M</b>		<b>&gt;1</b>
010	<a href="#">LIN</a>	Item Identification	M	1	
060	<a href="#">PO3</a>	Additional Item Detail	O	25	
080	<a href="#">PID</a>	Product / Item Description	O	1000	
120	<a href="#">PO4</a>	Item Physical Details	O	1	
140	<a href="#">REF</a>	Reference Identification (Closeout Indicator)	O	12	
	<b>GROUP FST</b>		<b>O</b>		<b>&gt;1</b>
410	<a href="#">FST</a>	Forecast Schedule	M	1	

**Summary**

<u>POS.</u>	<u>TAG</u>	<u>NAME</u>	<u>STATUS</u>	<u>REPEAT</u>	<u>LOOP REPEAT</u>
010	<a href="#">CTI</a>	Transaction Totals	O	1	
020	<a href="#">SE</a>	Transaction Set Trailer	M	1	

CTT segment note: Number of line items (CTT01) is the accumulation of the number of LIN segments.



## Table / Loop Usage within the 830 Transaction Set

### Header Level

The Header level (Table 1) is intended to provide information that pertains to the entire Material Release. This includes information such as the purchase order number, date, terms, etc.

There is one looping structure that will be used at Header level. It is the Group [N1](#), however it is only being used once. The N1 loop will provide ship to information.

### Detail Level

The Detail level (Table 2) is intended to provide line item information. This includes information such as quantity ordered, unit price, and vendor product codes.

There are two looping structures within the Detail level. The first loop is the [LIN](#) loop. This loop includes the LIN segment, which contains the line item information; the [PO3](#) segment to provide quantity and price information; the [PID](#) segment to provide product description information; the [PO4](#) segment to provide pack information and the REF segment to indicate close out items.

The second loop in the detail section is the [FST](#) loop, which contains the FST segment. This segment will provide quantity and ship date information.

### Summary Level

The Summary level (Table 3) is intended to provide a Line Item Count for the entire Material Release.



# Segment / Element Data Content

This section of the EDI Implementation Guide details the specific usage of segments and data elements for the 830 transaction set. Within a specific segment, such as the BFR segment, specific values for the data elements are provided. This Implementation Guide is not intended to provide all the possible X12 element values, but rather the ones that KB toys will use for this transaction set.

## ST Transaction Set Header

Level:	Position:	Loop:	Status:
Header	010	N/A	Mandatory

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

**ST01 Transaction Set Identification Code** M ID 3/3  
 830 Planning Schedule – Material Release

**ST02 Transaction Set Control Number** M AN 4/9  
 A transaction set identification number that is unique within a specific Functional Group.

## BFR Beginning Segment for Material Release

Level:	Position:	Loop:	Status:
Header	020	N/A	Mandatory

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

**BFR01 Transaction Set Purpose Code** M ID 2/2  
 00 Original – To use for original release

**BFR03 Release Number** C AN 1/30  
 Sequentially assigned by KB

**BFR04 Schedule Type Qualifier** M ID 2/2  
 DL Delivery Based

**BFR05 Schedule Qty Qualifier** M ID 1/1  
 A Actual Discrete Quantities

**BFR06 Date – Forecast Start Date** M DT 8/8

[\(BFR segment continued on next page\)](#)





**BFR08 Date - Forecast Generation Date**                    **M**     **DT**     **8/8**  
**BFR11 Purchase Order Number**                            **O**     **AN**     **1/22**

Original Master PO Number sent on 850 ending in the alpha character "M".

**XPO Preassigned Purchase Order Number**

Level:	Position:	Loop:	Status:
Header	025	N/A	Optional

Purpose: To specify identifying information.

This segment provides the purchase order number assigned by KB toys for product distribution

**XPO01 PO Number**    **M**     **AN**     **1/22**  
Purchase order number assigned to this release.

**REF Reference Numbers**

Level:	Position:	Loop:	Status:
Header	050	N/A	Optional

Purpose: To specify identifying information.

This segment provides the four-digit vendor number assigned by KB toys

**REF01 Ref No Qualifier**    **M**     **ID**     **2/2**  
IA     Internal Vendor Number  
**REF02 Reference Number**    **C**     **AN**     **1/4**  
KB toys assigned vendor number



**REF Reference Numbers**

Level:	Position:	Loop:	Status:
Header	050	N/A	Optional

Purpose: To specify identifying information.

This segment provides the letter of credit number assigned by KB toys

<b>REF01 Ref No Qualifier</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
LC Letter of Credit Number			
<b>REF02 Reference Number</b>	<b>C</b>	<b>AN</b>	<b>1/30</b>
Letter of Credit Number			

**REF Reference Numbers**

Level:	Position:	Loop:	Status:
Header	050	N/A	Optional

Purpose: To specify identifying information.

This segment provides notes associated with the purchase order

<b>REF01 Ref No Qualifier</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
ZZ Mutually Defined			
<b>REF03 Description</b>	<b>C</b>	<b>AN</b>	<b>1/80</b>
Notes			

**PER Administrative Communications Contact**

Level:	Position:	Loop:	Status:
Header	060	N/A	Optional

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

[\(PER segment continued on next page\)](#)



This segment provides the Buyer's contact information.

<b>PER01 Contact Functional Code</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
BD Buyer Name or Department			
<b>PER02 Name</b>	<b>O</b>	<b>AN</b>	<b>1/60</b>
Buyer Name			
<b>PER03 Contact Functional Code</b>	<b>C</b>	<b>ID</b>	<b>2/2</b>
TE Telephone			
<b>PER04 Number</b>	<b>C</b>	<b>AN</b>	<b>1/80</b>
Telephone Number			

**FOB F.O.B Related Instructions**

Level:	Position:	Loop:	Status:
Header	080	N/A	Optional

Purpose: To specify transportation instructions relating to shipment

<b>FOB01 Shipment Method of Payment</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
CC Collect / Collect International			
CF Collect, Freight Credited Back to Customer			
PC Prepaid but Charged to Customer			
PP Prepaid / Prepaid International			
<b>FOB02 Locations Qualifier</b>	<b>C</b>	<b>ID</b>	<b>1/2</b>
CA Country of Origin			
CC FOB Country			
CI FOB City			
ZZ City of Origin			
<b>FOB03 Description</b>	<b>O</b>	<b>AN</b>	<b>1/80</b>



**SAC Service, Promotion, Allowance, or Charge Information**

Level:	Position:	Loop:	Status:
Header	100	SAC	Optional

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

<b>SAC01 Allowance or Charge Indicator</b>		<b>M</b>	<b>ID</b>	<b>1/1</b>
A Allowance				
<b>SAC02 Allowance or Charge Code</b>		<b>C</b>	<b>ID</b>	<b>4/4</b>
A260 Advertising Allowance				
C000 Defective Allowance				
C540 Early Buy Allowance				
D240 Freight Allowance				
F050 Other (See related description in SAC15)				
F670 Price & Marketing Allowance (Mark down per piece)				
F800 Promotional Allowance (Mark Down)				
I170 Trade Discount				
I530 Volume Discount				
<b>SAC05 Amount</b>		<b>O</b>	<b>N2</b>	<b>1/15</b>
<b>SAC06 Allowance/Charge % Qualifier</b>		<b>C</b>	<b>ID</b>	<b>1/1</b>
1 Item List (Gross) Cost				
2 Item Net Cost				
Z Mutually Defined				
<b>SAC07 Allowance/Charge %</b>		<b>C</b>	<b>R</b>	<b>1/6</b>
<b>SAC15 Description</b>		<b>C</b>	<b>AN</b>	<b>1/80</b>
Description for F050 'Other' in SAC02				

**ITD Terms of Sale**

Level:	Position:	Loop:	Status:
Header	120	N/A	Optional

Purpose: To specify terms of sale

<b>ITD12 Description</b>		<b>O</b>	<b>AN</b>	<b>1/80</b>
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**DTM Date / Time Reference**

Level:	Position:	Loop:	Status:
Header	130	N/A	Optional

Purpose: To specify pertinent dates and times

<b>DTM01 Date / Time Qualifier</b>	<b>M</b>	<b>ID</b>	<b>3/3</b>
001 Cancel After Date			
<b>DTM02 Date</b>	<b>C</b>	<b>DT</b>	<b>8/8</b>

**N1 Name**

Level:	Position:	Loop:	Status:
Header	230	N1	Optional

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

<b>N101 Entity ID Code</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
ST Ship To			
<b>N102 Name</b>	<b>C</b>	<b>AN</b>	<b>1/30</b>
KB toys DC or Store Name			
<b>N103 ID Code Qualifier</b>	<b>C</b>	<b>ID</b>	<b>1/2</b>
92 Assigned by Buyer or Buyer's Agent			
<b>N104 ID Code</b>	<b>C</b>	<b>AN</b>	<b>4/4</b>
KB toys DC or Store Number			

**N3 Address Information**

Level:	Position:	Loop:	Status:
Header	250	N1	Optional

Purpose: To specify the location of the named party

<b>N301 Address Information</b>	<b>M</b>	<b>AN</b>	<b>1/55</b>
<b>N302 Address Information</b>	<b>O</b>	<b>AN</b>	<b>1/55</b>



**N4 Geographic Location**

Level:	Position:	Loop:	Status:
Header	260	N1	Optional

Purpose: To specify the geographic place of the named party.

<b>N401</b>	<b>City Name</b>	<b>O</b>	<b>AN</b>	<b>2/30</b>
<b>N402</b>	<b>State or Prov code</b>	<b>O</b>	<b>ID</b>	<b>2/2</b>
<b>N403</b>	<b>Postal Code</b>	<b>O</b>	<b>ID</b>	<b>3/15</b>

**LIN Item Identification**

Level:	Position:	Loop:	Status:
Detail	010	LIN	Mandatory

Status: LIN loop is mandatory. If the LIN loop is used, the LIN segment is mandatory

Purpose: To specify basic item identification.

<b>LIN01</b>	<b>Assigned Identification</b>	<b>O</b>	<b>AN</b>	<b>1/20</b>
	Line item number.			
<b>LIN02</b>	<b>Product/Service ID Qualifier</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
	<b>CB</b> Buyer's Catalog Number			
<b>LIN03</b>	<b>Product/Service ID</b>	<b>M</b>	<b>AN</b>	<b>1/48</b>
	KB toys Stock Number			
<b>LIN04</b>	<b>Product/Service ID Qualifier</b>	<b>O</b>	<b>ID</b>	<b>2/2</b>
	<b>UP</b> Vendor's Item Number.			
<b>LIN05</b>	<b>Product/Service ID</b>	<b>O</b>	<b>AN</b>	<b>1/48</b>
	Vendor's Item Number.			

**P03 Additional Item Detail**

Level:	Position:	Loop:	Status:
Detail	060	LIN	Optional

(P03 segment continued on next page)



Purpose: To specify additional item-related data involving variations in normal price/quantity structure

<b>P0301</b>	<b>Change Reason Code</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
	ZZ Mutually Defined			
<b>P0303</b>	<b>Price ID Code</b>	<b>C</b>	<b>ID</b>	<b>3/3</b>
	ACT Actual			
<b>P0304</b>	<b>Unit Price</b>	<b>O</b>	<b>R</b>	<b>1/17</b>
<b>P0306</b>	<b>Quantity</b>	<b>M</b>	<b>R</b>	<b>1/15</b>
<b>P0307</b>	<b>Unit/Basis Meas Code</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
	EA Each			

**PID Product / Item Description**

Level:	Position:	Loop:	Status:
Detail	080	LIN	Optional

Purpose: To describe a product or process in coded or free form format.

<b>PID01</b>	<b>Item Description Type</b>	<b>M</b>	<b>ID</b>	<b>1/1</b>
	F Free Form			
<b>PID05</b>	<b>Description</b>	<b>C</b>	<b>AN</b>	<b>1/80</b>
	Product description.			

**PO4 Item Physical Details**

Level:	Position:	Loop:	Status:
Detail	120	LIN	Optional

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

**(PO4 segment continued on next page)**



<b>P0401 Pack</b>	<b>O</b>	<b>NO</b>	<b>1/6</b>
Number of Inner Packs in the Master Pack (If there is no Inner Pack, then PO401 = "1")			
<b>P0402 Size</b>	<b>C</b>	<b>R</b>	<b>1/8</b>
Quantity of SKUs within the Inner Pack ( If there is no Inner Pack, then PO402 = Quantity of SKUs within the Master Pack)			
<b>P0403 Unit of Measure</b>	<b>C</b>	<b>ID</b>	<b>2/2</b>
EA Each			

**REF Reference Numbers**

Level:	Position:	Loop:	Status:
Header	050	N/A	Optional

Purpose: To specify identifying information.

This segment provides the Closeout indicator if the order is a close out order.

<b>REF01 Ref No Qualifier</b>	<b>M</b>	<b>ID</b>	<b>2/2</b>
PD Promotions/Deals			
<b>REF02 Reference Number</b>	<b>C</b>	<b>AN</b>	<b>1/30</b>
'Closeout'			

**FST Forecast Schedule**

Level:	Position:	Loop:	Status:
Detail	410	FST	Optional

Status: FST loop is mandatory. 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.

Purpose: To specify the forecasted dates and quantities.

**(FST segment continued on next page)**





<b>FST01</b>	<b>Quantity</b>	<b>M</b>	<b>R</b>	<b>1/15</b>
	Quantity to ship			
<b>FST02</b>	<b>Forecast Qualifier</b>	<b>M</b>	<b>ID</b>	<b>1/1</b>
	Q Order Release Authorization			
<b>FST03</b>	<b>Forecast Timing Qualifier</b>	<b>M</b>	<b>ID</b>	<b>1/1</b>
	Z Mutually Defined			
<b>FST04</b>	<b>Date</b>	<b>M</b>	<b>DT</b>	<b>8/8</b>
	Delivery Requested			
<b>FST05</b>	<b>Date</b>	<b>O</b>	<b>DT</b>	<b>8/8</b>
	Requested Ship			

**CTT Transaction Totals**

Level:	Position:	Loop:	Status:
Summary	010	N/A	Optional

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

<b>CTT01</b>	<b>Number of Line Items</b>	<b>M</b>	<b>N0</b>	<b>1/6</b>
	Count of the number of line items in this Material Release.			

**SE Transaction Set Trailer**

Level:	Position:	Loop:	Status:
Summary	030	N/A	Mandatory

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).

<b>SE01</b>	<b>Number of Included Segments</b>	<b>M</b>	<b>N0</b>	<b>1/10</b>
	Count of the number of segments in the transaction set, including the ST and SE segments.			
<b>SE02</b>	<b>Transaction Set Control Number</b>	<b>M</b>	<b>AN</b>	<b>4/9</b>
	Same value as the ST02 element.			