



**SUPPLY CHAIN
MATERIAL RELEASE**

EDI IMPLEMENTATION GUIDE

X12 VERSION 4010 – 830 TRANSACTION SET

December 7, 2006



Document Status

Document Number	KB toys 830 4010 IG 3_0
Version	3.0
File Name	Supply Chain Material Release – EDI Implementation Guide
Issue Date	December 7, 2006
Owner	Cathy Covell
Description	An EDI Implementation Guide for KB toys Supply Chain Material Release (X12 version 4010, 830 transaction set).

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.
3.0	December 7, 2006	C. Covell	Removed Buyer phone number from PER segment (PER 03 & 04)



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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_EDI@icc.net.

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

GROUP N1		O	200
230	N1	Name	M 1
250	N3	Address Information	O 2
260	N4	Geographic Location	O 1



Detail

<u>POS.</u>	<u>TAG</u>	<u>NAME</u>	<u>STATUS</u>	<u>REPEAT</u>	<u>LOOP REPEAT</u>
	GROUP LIN		M		>1
010	LIN	Item Identification	M	1	
060	PO3	Additional Item Detail	O	25	
080	PID	Product / Item Description	O	1000	
120	PO4	Item Physical Details	O	1	
140	REF	Reference Identification (Closeout Indicator)	O	12	
	GROUP FST		O		>1
410	FST	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	CTI	Transaction Totals	O	1	
020	SE	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

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

REF01 Ref No Qualifier	M	ID	2/2
ZZ Mutually Defined			
REF03 Description	C	AN	1/80
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.

This segment provides the Buyer name.

PER01 Contact Functional Code	M	ID	2/2
BD Buyer Name or Department			
PER02 Name	O	AN	1/60
Buyer Name			

FOB F.O.B Related Instructions

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

Purpose: To specify transportation instructions relating to shipment

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



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

SAC01 Allowance or Charge Indicator	M	ID	1/1
A Allowance			
SAC02 Allowance or Charge Code	C	ID	4/4
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			
SAC05 Amount	O	N2	1/15
SAC06 Allowance/Charge % Qualifier	C	ID	1/1
1 Item List (Gross) Cost			
2 Item Net Cost			
Z Mutually Defined			
SAC07 Allowance/Charge %	C	R	1/6
SAC15 Description	C	AN	1/80
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

ITD12 Description	O	AN	1/80
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DTM Date / Time Reference

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

Purpose: To specify pertinent dates and times

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

N1 Name

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

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

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

N301 Address Information	M	AN	1/55
N302 Address Information	O	AN	1/55



N4 Geographic Location

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

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

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

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.

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

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

PID01	Item Description Type	M	ID	1/1
	F Free Form			
PID05	Description	C	AN	1/80
	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)



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

REF01 Ref No Qualifier	M	ID	2/2
PD Promotions/Deals			
REF02 Reference Number	C	AN	1/30
'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)



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

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.

CTT01	Number of Line Items	M	N0	1/6
	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).

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