Message Implementation Guide

ANSI X.12 3010 & 3020

Kmart Envelope Structure

V2.2

PRODUCED BY
KMART AUSTRALIA LIMITED
ELECTRONIC TRADING TEAM

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CHANGE CONTROL

Version	Date	Description	Author
1.00	29/02/00	1st Release	Marcella Mazza
2.00	7/02/01	2nd Release	Marcella Mazza
2.10	16/07/07	Changed reference from CML to Coles Group Limited	Leng Be
2.20	30/03/09	Changed reference from Coles Group Limited to Kmart Australia Limted	John Bethune

Contents

Document Standards

All EDI transactions traded by Kmart are available in either ANSI or EDIFACT. Kmart has committed to not use ANSI standards beyond the 3020 release. Further changes will be implemented in the EDIFACT standard only.

You are advised to take note that Kmart currently has two Sender / Receiver addresses for suppliers to choose from :
9313938000655 (ISA06 / ISA08 depending on who is initiating the transaction).
9313938000501 (ISA06 / ISA08 depending on who is initiating the transaction).

Please take note of the Kmart Sender / Receiver address your company is trading with. Your EDI communications software should automatically transmit Functional Acknowledgements to this receiver ID – to confirm your receipt of the document transmitted to you.
Kmart will always automatically transmit a Functional Acknowledgement as a confirmation that a transaction has been successfully received. This does not imply that it has been successfully processed.

Please note, where there are references to the Kmart EDI address of 9313938000655 this is interchangeable with the other Kmart EDI address of 9313938000501, depending on your trading relationship with Kmart.

Separate documents have been prepared covering message implementation guides for the following :

- Kmart EDI Envelope
- Kmart 850 Purchase Order
- Kmart 855 Purchase Order Acknowledgement
- Kmart 860 Purchase Order Change Request
- Kmart 855 POA used as a Reverse Purchase Order
- Kmart 856 Advanced Shipping Note
- Kmart 820 Recipient Created Tax Invoice (3010 format)
- Kmart 820 Remittance Advice (3010 format)
- Kmart 830 Electronic Forecast Data
- Kmart 852 Product Activity Data

Please note :

1. That the 820 Recipient Created Tax Invoice (RCTI) and the 820 Remittance Advice are in the 3010 format – whereas all other transactions are in 3020 format.

2. That inorder to facilitate easy recognition between :

Kmart 855 Purchase Order Acknowledgement and Kmart 855 POA used as a Reverse Purchase Order

And also between :

Kmart 820 Recipient Created Tax Invoice and Kmart 820 Remittance Advice

That use will be made of the GS02 / GS03 in order to differentiate the two pairs of transactions.

ANSI X12 envelope structure

Transaction Set Interchange Control Structure

Version 00200

This ISA segment marks the beginning of the transmission and provides sender/receiver identification.

Each GS segment marks the beginning of a functional group. There may be one or more than one functional groups within each transmission. The ST segment marks the beginning of each transaction set (electronic document). There can be up to 999,999 transactions sets within each functional group.

The interchange control structure is common to all the transaction sets.

ISA	INTERCHANGE CONTROL HEADER	MANDATORY
GS	FUNCTIONAL GROUP HEADER	MANDATORY
ST	TRANSACTION SET HEADER (FOLLOWED BY TRANSACTION SET SEGMENTS)	MANDATORY
SE	TRANSACTION SET TRAILER	MANDATORY
GE	FUNCTIONAL GROUP TRAILER	MANDATORY
IEA	INTERCHANGE CONTROL TRAILER	MANDATORY

Segment ISA
Interchange control header

Level Envelope

Req Des Mandatory

Max Use 01

Loop _____

FLD #	ELEMENT NAME	DICT NUM	TYPE	MIN LEN	MAX LEN	REQ	CODES & COMMENTS
O1	AUTHORISATION INFORMATION QUALIFIER	101	ID	2	2	M	Code to identify the type of information in the authorisation information. Authorisation information is used to accommodate a UCS communications ID. It is only used when using ANSI standard and UCS communications. Normally the value is 00. 00=No authorisation information is present (no meaningful information in I02). The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.
02	AUTHORISATION INFORMATION	102	AN	10	10	M	Information used for additional identification or authorisation of the sender or the data in the interchange. The type of information is set by the authorisation information qualifier. Normally this field is blank. If ISA01 is 01 this field will contain the UCS communications IS. The first occurrence of the <gs> (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk " " " in other ANSIX12 data segment documentation (eg the PO1 segment). The first occurrence of the <tr>, 1 byte after the data element ISA16, defines the actual value of the segment terminator and is graphically displayed as NL in other ANSI ASCX12 data segment documentation (eg the BFR segment in ANSIX12.22).
03	SECURITY INFORMATION QUALIFIER	103	ID	2	2	M	Code to identify the type of information in the Security Information. Security Information is only used when using the UCS Communication standard. Normally the value is 00. 00=No security information present (no meaningful information in 104).

Segment ISA
Interchange control header cont'd

04	SECURITY INFORMATION	104	AN	10	10	M	This is used for identifying the security information about the sender on the data in the interchange. The type of information is set by the security information qualifier. Normally this field is blank. If ISA03 is 01 this field will contain a password that has been agreed to by the sender and receiver.
05	INTERCHANGE ID QUALIFIER	105	ID	2	2	M	Qualifier to designate the system/method of code structure used to designate the sender or receiver id element being qualified. The interchange ID qualifier is used to define the code used in ISA06 to identify sender of the interchange. ZZ=mutually defined.
06	INTERCHANGE SENDER	106	ID	15	15	M	Sender's ID (EDI address) Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element. The identification code described by ISA05. Left justified, blank fill. 9313938000655 = Kmart's sender ID if Kmart is the sender
07	INTERCHANGE ID QUALIFIER	105	ID	2	2	M	Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. The interchange ID qualifier is used to define the code used, in ISA08, to identify receiver of the interchange. ZZ=mutually defined.
08	INTERCHANGE RECEIVER	107	ID	15	15	M	Receiver's ID (EDI Address). Identification code published by the receiver of the data. When sending, it is used by the sender as their ID, thus other parties sending to them will use this as receiving ID to route data to them. The identification code described by ISA07. Left justified, blank fill. 9313938000655 = Kmart's receiver code if Kmart is the receiver.
09	DATE	108	DT	6	6	M	Date of the interchange ISA generated (YYMMDD). The date the interchange was created in the sender's system; submit date.
10	TIME	109	TM	4	4	M	Time of the interchange created (HHMM) in the sender's system; submit time. 24 hour clock.
11	INTERCHANGE STANDARDS IDENTIFIER	110	ID	1	1	M	Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer. U US EDI Community of X12, TDCC and UCS.

Segment ISA
Interchange control header cont'd

12	INTERCHANGE VERSION ID	111	ID	5	5	M	This version number covers the interchange control segment only. Positions 1-3 of the field = major version, 4-5 of the field = release level of the version. This version number is for the envelope only. It is not the same as the version number is the GS segments. 00200=The current value, Version 2, Release 0.
13	INTERCHANGE CONTROL NUMBER	112	N	9	9	M	Generated by the Supplier. This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with sender ID, it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver and all third parties be able to maintain an audit trail of interchanges using this number. The number is sequentially assigned, by the sender, starting with one within each trading partner. The trading partner at the interchange level is defined by the interchange receiver ID (ISA08). The control number is incremented by one for each interchange envelope sent to the trading partner. When the control numbers reaches 999999999 (maximum size) the next interchange envelope will have the control number of 000000001.
14	ACKNOWLEDGMENT REQUESTED	113	ID	1	1	M	Code set by the sender to request an interchange acknowledgment. The retail industry is not using transmission acknowledgments. The transmission is not the same as the functional group acknowledgment. O=No acknowledgment requested.
15	TEST INDICATOR	114	ID	1	1	M	Code to indicate whether data enclosed by this interchange envelope is test or production. The test indicator is valuable for start up system tests. The indicator applies to the entire transmission. **P**=Production data. **T**=Test data.
16	SUBELEMENT SEPARATOR	115	AN	1	1	M	This is a field reserved for future expansion in separating data element subgroups. >=The value identified for retail use.

Segment ISA
Interchange control header cont'd

NOTES The purpose of this segment is to start and identify and interchange of one or more functional groups and interchange related control segments.

The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

The first occurrence of the <gs> (byte 4) defines the actual value of the data element separator and is graphically displayed as an asterisk *** in other ANSIX12 data segment documentation (for example, the PO1 segment). The first occurrence of the <tr>, 1 byte after the data element ISA16, defines the actual value of the segment terminator and is graphically displayed as NL in other ANSI ASCX12 data segment documentation (for example, the BFR segment in ANSIX12.22).

The ISA segment is fixed length (min/max are equal for each element), however, data element separators are used between data elements to be consistent with the basic syntax of segment structure.

The following control characters have been identified for use in the retail industry …

Segment terminator NEW LIN - (HEX "15" in EBCDIC)

CR - (HEX"OD" in ASCII)

- The segment terminator that is to be used in the transmission is defined by the first occurrence of the segment terminator in the ISA segment, for example, ISA*00...N/L
- Whichever character is used for the segment terminator must be used throughout the transmission

Element separator Recommended character BELL - (HEX "2F" in EBCDIC)

(HEX "07" in ASC11)

Alternate character """ - (HEX "5C" in EBCDIC)

(HEX "2A" in ASCII)

- The element separator that is to be used in the transmission is defined by the first occurrence of the element separator in the ISA segment, for example, ISA*00…

Subelement separator ">" - (HEX "6E" in EBCDIC)

(HEX "3E" in ASCII)

Caution any time a printable character is used to control the translation of data, that control character cannot be used as data within the transmission. Some systems/network protocols may translate control characters when going from EBCDIC to ASCII and back.

The ISA supports the UCS communication standard as well as the normal ANSIX12 convention for identification of the receiver and the sender.

ISA01 through ISA04 are only used if the trading partners are using the UCS communication standard. If the UCS communication standard is NOT used ISA01 and ISA03 will contain 00. ISA02 and ISA04 will contain spaces. If the UCS communication standard is being used ISA01, ISA03 and ISA05 will contain 01, 01 and 13 respectively. ISA02, ISA04 and ISA06 will contain the UCS communication ID, password and the telephone number for the receiver's modem.

SEGMENT EXAMPLE

ISA*00* *00* *ZZ*930010012345 8*ZZ*93139380006555
*901023*1025*U*00200*000000089*0*P*>

Segment GS Functional group header

Level Group

Req Des Mandatory

Max Use 01

Loop _____

FLD #	ELEMENT NAME	DICT NUM	TYPE	MIN LEN	MAX LEN	REQ	CODES & COMMENTS
01	FUNCTIONAL ID	479	ID	2	2	M	Code identifying a group of application related transaction sets. PO = Purchase Order Transaction (850) PR = Purchase Order Acknow'dgment (855) PR = POA used as a RPO PC = Purchase Order Change (860) SH = ASN or Ship Note/Manifest (856) PD = Product Activity Data (852) FA = Functional Acknowledgement (997) RA = Payment Order / Remittance Advice (820) RA = Recipient Created Tax Invoice (820) PS = Planning Schedule (Forecast) (830)
02	APPLICATION SENDER'S CODE	142	ID	2	12	M	Code Identifying party sending transmission. A unique code to identify the sender's application. 931393800065 = Kmart's sender code when Kmart is the sender except for 820 Recipient Created Tax Invoice where Kmart's sender code will be "KMTRCTI".
03	APPLICATIONS RECEIVER'S CODE	124	ID	2	12	M	Code identifying party receiving transmission. 931393800065 = Kmart's receiver code when Kmart is the receiver except for 855 reverse Purchase Order where Kmart's receiver code will be "KMTRPO".
04	DATA INTERCHANGE DATE	29	DT	6	6	M	Date GE segment generated (YYMMDD). Date sender generated a functional group of transaction sets. The date the group was created in the sender's system; submit date.
05	DATA INTERCHANGE TIME	30	TM	4	4	M	(HHMM) expressed in 24 hour clock time when the sender generated. The time the group was created in the sender's system; submit time.
06	DATA INTERCHANGE CONTROL	28	N	1	9	M	Assigned number originated and maintained by the sender. The number assigned by the sender must be unique within each trading partner. The trading partner at the group level is defined by the application receiver code (GS03). The uniqueness must be maintained until such time that a functional acknowledgment is received for that group.

Segment GS
Functional group header cont'd

07	RESPONSIBLE AGENCY CODE	455	ID	1	2	M	Code used in conjunction with the version data element to identify the issuer of the standard. X = Accredited Standards Committee X12.
08	VERSION	480	ID	1	12	M	The version code is used in conjunction with the Functional Identifier to specify an exact version of and EDI standard. Format of the version is ... *Position* *Content* 1-3 Major version number 4-6 Release level of version 7-12 Industry or trade assoc ID (optionally assigned by user) Version/release number is the Version and release of the transaction sets within the group. This is not the same as the version number in the ISA segment. 003020 = ANSI X12 version 3, release2.

NOTE The purpose of this segment is to indicate the beginning of a functional group and to provide control information.

SEGMENT EXAMPLE

GS * PO * 931393800065 * 931000079012 * 011016 * 0112 * 952 * X * 003020	Kmart sending Purchase Order
GS * PR * 931000079012 * KMTRPO * 011016* 0112 * 952 * X * 003020	Supplier sending RPO
GS * PR * 931000079012 * 931393800065 * 011016* 0112 * 952 * X * 003020	Supplier sending PO Ackn'ment
GS * RA * KMTRCTI * 931000079012 * 011016 * 0112 * 952 * X * 003010	

Segment GE
Group control trailer

Level Group

Req Des Mandatory

Max Use 01

Loop _____

FLD #	ELEMENT NAME	DICT NUM	TYPE	MIN LEN	MAX LEN	REQ	CODES & COMMENTS
01	NUMBER OF TRANSACTION SETS	97	N	1	6	M	Generated by the Supplier. Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element. The count of ST segments within the group.
02	GROUP CONTROL NUMBER	28	N	1	9	M	Generated by the Supplier. Assigned numbers originated and maintained by the sender. Must be the same number as in the GS segment (GS06) for the group.

NOTES The purpose of this segment is to indicate the end of a functional group and to provide control information.

The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximise functional group integrity. The control number is the same as that used in the corresponding header.

SEGMENT EXAMPLE

GE*5*952

Segment IEA
Interchange control trailer

Level Envelope

Req Des Mandatory

Max Use 01

Loop _____

FLD #	ELEMENT NAME	DICT NUM	TYPE	MIN LEN	MAX LEN	REQ	CODES & COMMENTS
01	NUMBER OF INCLUDED GROUPS	116	N	1	5	M	Generated by the Supplier. A count of the number of functional groups included in a transmission. The count of GS segments within the transmission.
02	INTERCHANGE CONTROL NUMBER	112	N	9	9	M	Generated by the Supplier. This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender, receiver and all third parties be able to maintain an audit trail of interchange using this number. Must be the same number as in the ISA segment (ISA13) for the transmission.

NOTES The purpose of this segment is to define the end of an interchange of one or more functional groups and interchange related control segments.

The interchange control number in this trailer must match the value in the same data element in the corresponding interchange control header.

The value of the data element separator represented by <gs> and the data segment terminator represented by <tr> are set by the interchange control header ISA for this interchange.

SEGMENT EXAMPLE

IEA*1*000000789