4010 Envelope - Outbound Revised: July 21, 1998

Functional Group ID=

Introduction:

The purpose of this standard is to define the control structures for the electronic interchange of one or more encoded business transactions including the EDI (Electronic Data Interchange) encoded transactions of Accredited Standards Committee X12. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

The interchange control structure is common to all transaction sets.

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u>
Must Use	010	ISA	Interchange Control Header	М	1		
Must Use	020	GS	Functional Group Header	М	1		
Must Use	030	GE	Functional Group Trailer	М	1		
Must Use	040	IEA	Interchange Control Trailer	М	1		

	Segment: Position: Loop: Level: Usage: Max Use: Purpose: Syntax Notes: Semantic Notes: Comments: Notes:	010 Mandato 1 To start a related co ****** Sample 1 	Interchange Control Header ry and identify an interchange of zero or more functional groups ontrol segments SA Segment 000000000000000000000000000000000000	**** 90	terchange-
	D-f	Dat-	Data Element Summary		
>>	Ref. <u>Des.</u> ISA01	Data <u>Element</u> I01	Name Authorization Information Qualifier Code to identify the type of information in the Authorizatio	Μ	ibutes ID 2/2 mation
>>	ISA02	102	00 No Authorization Information Present Information in IO2) Authorization Information Information used for additional identification or authorization interchange sender or the data in the interchange; the type of by the Authorization Information Qualifier (IO1) DHC will send 0000000000	M on of tl	AN 10/10 ne
>>	ISA03	103	Security Information QualifierCode to identify the type of information in the Security Info00No Security Information Present (No I	ormatio	
>>	ISA04	I04	Information in I04) Security Information This is used for identifying the security information about th sender or the data in the interchange; the type of information Security Information Qualifier (I03) DHC will send 0000000000		-
>>	ISA05	105	Interchange ID Qualifier Qualifier to designate the system/method of code structure to sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet) 08 UCC EDI Communications ID (Communications ID (Communications ID) 12 Phone (Telephone Companies) 13 UCS Code (The UCS Code is a Code Transmissions; it includes the Area Communications ID) Number of a Modem; it Does Not Includes	used to n ID) Used fr	or UCS I Telephone
>>	ISA06	106	Blanks or Access Code) Interchange Sender ID Identification code published by the sender for other parties receiver ID to route data to them; the sender always codes t sender ID element DSD's Partner ID is 6123753151 Mervyn's Partner ID is 6111470231 Target's Partner ID is 6111470100	M s to use	AN 15/15 as the
>>	ISA07	105	Interchange ID Qualifier	М	ID 2/2

			Qualifier to designate the system/method of code structure us sender or receiver ID element being qualified	sed to	o designate the
			Receiver's Qualifier ID		
>>	ISA08	107	Interchange Receiver ID Identification code published by the receiver of the data; Who used by the sender as their sending ID, thus other parties send use this as a receiving ID to route data to them <i>Receiver's ID</i>		-
>>	ISA09	108	Interchange Date Date of the interchange	Μ	DT 6/6
>>	ISA10	I09	Interchange Time Time of the interchange	Μ	TM 4/4
>>	ISA11	I10	Interchange Control Standards IdentifierCode to identify the agency responsible for the control standardmessage that is enclosed by the interchange header and trailerUU.S. EDI Community of ASC X12, TD	r	-
>>	ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments 00401 Draft Standards for Trial Use Approved by ASC X12 Procedures Review Board 1997	l for	
>>	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	Μ	N0 9/9
>>	ISA14	I13	Acknowledgment RequestedCode sent by the sender to request an interchange acknowled0No Acknowledgment Requested	M Igme	ID 1/1 nt (TA1)
>>	ISA15	I14	Usage Indicator Code to indicate whether data enclosed by this interchange en production or information P Production Data T Test Data	M nvelo	ID 1/1 ope is test,
>>	ISA16	I15	Component Element Separator Type is not applicable; the component element separator is a a data element; this field provides the delimiter used to separa data elements within a composite data structure; this value m than the data element separator and the segment terminator <i>DHC will send '>'</i>	ate c	component

${f GS}$ Functional Group Header

Segment:	${f GS}$ Functional Group Header
Position:	020
Loop:	
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a functional group and to provide control information
Syntax Notes:	
Semantic Notes:	1 GS04 is the group date.
	2 GS05 is the group time.
	3 The data interchange control number GS06 in this header must be identical to the
	same data element in the associated functional group trailer, GE02.
Comments:	1 A functional group of related transaction sets, within the scope of X12 standards,
	consists of a collection of similar transaction sets enclosed by a functional group
	header and a functional group trailer.
Notes:	*************
	Sample GS Segment
	GS*PO*DHCID*1234567890*19980415*0342*0001*X*004010

	Data Element Summary
Ref.	Data
Des.	Element Name Attributes
<u>GS01</u>	479 Functional Identifier Code M ID 2/2
	Code identifying a group of application related transaction sets
	FA Functional Acknowledgment (997)

	Des.	<u>Element</u>	<u>Name</u>		Att	<u>ributes</u>
>>	GS01	479	Functional Ider		Μ	ID 2/2
			Code identifying	a group of application related transaction	sets	
			FA	Functional Acknowledgment (997)		
			IN	Invoice Information (810,819)		
			PC	Purchase Order Change Request - Buy	ver Ini	tiated (860)
			PD	Product Activity Data (852)		
			PO	Purchase Order (850)		
			PR	Purchase Order Acknowledgment (85)	5)	
			PS	Planning Schedule with Release Capal	oility	(830)
			RS	Order Status Information (869, 870)		
			SC	Price/Sales Catalog (832)		
			SH	Ship Notice/Manifest (856)		
			TX	Text Message (864)		
>>	GS02	142	Application Ser	nder's Code	Μ	AN 2/15
				g party sending transmission; codes agreed t	o by t	trading
			partners	D . (100750151		
				D is 6123753151 r ID is 6111470231		
			•	· ID is 6111470100		
>>	GS03	124	Application Re		Μ	AN 2/15
			Code identifying	party receiving transmission. Codes agree	d to b	y trading
			partners			
	~~~		Receiver's ID			5 5 6 10
>>	GS04	373	Date		Μ	DT 8/8
	0005	225	-	as CCYYMMDD	м	TN 4 40
>>	GS05	337	Time Time expressed	in 24-hour clock time as follows: HHMM,	M or HH	TM 4/8
			-	HHMMSSDD, where $H = hours (00-23)$ , N		
				seconds (00-59) and $DD =$ decimal seconds		,
			are expressed as	follows: $D = tenths (0-9) and DD = hundred$	dths (	(00-99)
>>	<b>GS06</b>	28	Group Control	Number	М	N0 1/9
4010ENVO (	004010)		-	4		July 21, 1998
(	/					,

			Assigned number	r originated and maintained by the sender	r	
>>	<b>GS07</b>	455	Responsible Age	ency Code	Μ	ID 1/2
			Code used in con standard	njunction with Data Element 480 to ident	ify the i	ssuer of the
			Х	Accredited Standards Committee X	2	
>>	GS08	480	Code indicating t EDI standard bei in GS segment is positions 4-6 are 7-12 are the indu	se / Industry Identifier Code the version, release, subrelease, and indu ing used, including the GS and GE segme 5 X, then in DE 480 positions 1-3 are the the release and subrelease, level of the v istry or trade association identifiers (option DE455 in GS segment is T, then other for Draft Standards Approved for Public Procedures Review Board through O	ents; if c version ersion; onally a cmats an cation b	code in DE455 number; and positions ssigned by re allowed by ASC X12

Segment:	<b>GE</b> 1	Functional Group Trailer		
Position:	030			
Loop:				
Level:				
Usage:	Mandator	ry		
Max Use:	1			
Purpose:	To indica	te the end of a functional group and to provide control inform	nation	L
Syntax Notes:				
Semantic Notes:		data interchange control number GE02 in this trailer must be data element in the associated functional group header, GS0		cal to the
Comments:	grou	use of identical data interchange control numbers in the assoc p header and trailer is designed to maximize functional group rol number is the same as that used in the corresponding head	integ	
Notes:		***************************************		
	GE*2*00 *****	 01 ******************************	***	
Ref.	Data	Data Element Summary		
Des.	Element	Name	A ffi	ributes
<u>GE01</u>	<u>97</u>	Number of Transaction Sets Included	M	N0 1/6
GLUI		Total number of transaction sets included in the functional g (transmission) group terminated by the trailer containing this <i>Number of transaction sets in this group</i>	roup	or interchange
GE02	28	Group Control Number Assigned number originated and maintained by the sender	М	N0 1/9

MUST match GS06 Value/Description, both in size and value

>>

>>

	Segment:	IEA	Interchange Control Trailer		
	<b>Position:</b>	040			
	Loop:				
	Level:				
	Usage:	Mandato	ry		
	Max Use:	1			
	Purpose:		e the end of an interchange of zero or more functional grou ontrol segments	ps and i	nterchange-
	Syntax Notes:				
	Semantic Notes:				
	<b>Comments:</b>				
	Notes:		***************************************	*****	
		Sample I	EA Segment		
		IEA*3*0	0000001		
			***************************************	*****	
				*****	
	Ref.		***************************************	*****	
	Ref. <u>Des.</u>	*****	***************************************		<u>ributes</u>
>>		****** Data	**************************************	<u>Att</u> M	N0 1/5
>>	Des.	******* Data <u>Element</u>	**************************************	<u>Att</u> M	N0 1/5
>>	Des.	******* Data <u>Element</u>	**************************************	<u>Att</u> M	N0 1/5
>>	Des.	******* Data <u>Element</u>	**************************************	<u>Att</u> M	N0 1/5
	<u>Des.</u> IEA01	******* Data <u>Element</u> I16	************************************	Attr M n interch	<b>N0 1/5</b> nange