EDI Implementation Guidelines

ANSI X12 Version/Release
3020 ADIENT Envelope

ICS Interchange Control Structures

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 if this envelope.

	Pos No	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat	Notes Comments
M	**10**	**ISA**	**Interchange Control Header**	**M**	**1**		
M	**30**	**GS**	**Functional Group Header**	**M**	**1**		
M	**40**	**GE**	**Functional Group Trailer**	**M**	**1**		
M	**50**	**IEA**	**Interchange Control Trailer**	**M**	**1**		

Segment: **ISA** **Interchange Control Header**

Position: 010
Loop:
Level:
Usage: Mandatory
max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:
Notes: ISA*00* *00* *01*901234572 *ZZ*PRIN PRIN070 *000122*1300*U*00200*000000026*0*T*:~

Data Element Summary

	Ref. Des	Data Element	Name	Attributes	
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	**M**	**ID 2/2**
	ISA02	**I02**	**Authorization Information** Information used for additional identification or authorization of the interchange sender of the data in the interchange; the type of information is set by the Authorization Information Qualifier.	**X**	**AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information if the Security Information 00 No Security Information Present (No Meaningful Information in I04)	**M**	**ID 2/2**
	ISA04	**I04**	**Security Information** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier.	**X**	**AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender of receiver ID element being qualified	**M**	**ID 2/2**
M	**ISA06**	**I06**	**Interchange Sender ID** 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 value in the sender ID element	**M**	**AN 15/15**
M	**ISA07**	**I05**	**Interchange ID Qualifier** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01 Duns (Dun & Bradstreet)	**M**	**ID 2/2**
M	**ISA08**	**I07**	**Interchange Receiver ID** Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending tothem will use this as a receiving ID to route data to them.	**M**	**AN 15/15**
M	**ISA09**	**I08**	**Interchange Date** Date of the interchange	**M**	**DT 6/6**

M	**ISA10**	**I09**	**Interchange Time** Time of the interchange	**M**	**TM 4/4**
M	**ISA11**	**I10**	**Interchange Control Standards Identifier** Code to identify the agency responsible for the control standard user by the message that is enclosed by the interchange header and trailer Refer to 003020 Data Element Dictionary for acceptable code values.	**M**	**ID 1/1**
M	**ISA12**	**I11**	**Interchange Control Version Number** This version number covers the interchange control segments 00302 Draft Standard for Trail Use Approved by ASC X12	**M**	**ID 5/5**
M	**ISA13**	**I12**	**Interchange Control Number** This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the 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.	**M**	**N0 9/9**
M	**ISA14**	**I13**	**Acknowledgment Requested** Code sent by the sender to request an interchange acknowledgment. 0 No Acknowledgment Requested	**M**	**ID 1/1**
M	**ISA15**	**I14**	**Test Indicator** Code to indicate whether data enclosed by this interchange envelope is test or production P Production Data	**M**	**ID 1/1**
M	**ISA16**	**I15**	**Component Element Separator** This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this must be different from the data element separator). Segment Terminator ~ 7E Element Separator * 2A Subelement Separator < 3C	**M**	**AN 1/1**

Segment: **GS** **Funtional Group Header**

Position: 030
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:
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: GS*SH*630170185*123456789*000122*1300*26*T*003010~

Data Summary Element

	Ref. Des	Data Element	Name	Attributes	
M	**GS01**	**479**	**Functional Identifier Code**	**M**	**ID 2/2**
			Code identifying a group of application related transaction sets AG Acceptance/Rejection Advice (999) and Application Advice (824) PS Planning Schedule with Release Capability (830) SH Ship Notice/Manifest (856) SS Shipping Schedule (862)		
M	**GS02**	**142**	**Application Sender's Code**	**M**	**AN 9/9**
			Code identifying party sending transmission; codes agreed to by trading Partners This will contain the ship-from DUNS number		
M	**GS03**	**124**	**Application Receiver's Code**	**M**	**AN 9/9**
			Code identifying party receiving transmission; codes agreed to by trading Partners This will contain the ship-to DUNS number.		
M	**GS04**	**373**	**Date**	**M**	**DT 6/6**
			Date (YYMMDD)		
M	**GS05**	**337**	**Time**	**M**	**TM 4/6**
			Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)		
M	**GS06**	**28**	**Group Control Number**	**M**	**N0 1/9**
			Assigned number originated and maintained by the sender		
M	**GS07**	**455**	**Responsible Agency Code**	**M**	**ID 1/2**
			Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12		

M	**GS08**	**480**	**Version / Release / Industry Identifier Code**	**M**	**AN 1/12**

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4 -6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user).

003020	Draft Standards Approved By ASC X12 Through June1991.

Segment: **GE** **Functional Group Trailer**

Position: 040
Loop:
Level:
Usage: Mandatory
max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes:
Comments: **1** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Summary Element

	Ref. Des	Data Element	Name	Attributes	
M	**GE01**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M**	**N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**N0 1/9**

Segment: **IEA** **Interchange Control Trailer**

Position: 050
Loop:
Level:
Usage: Mandatory
max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Summary Element

	Ref. Des	Data Element	Name	Attributes	
M	**IEA01**	**I16**	**Number of Included Funntional Groups** A count of the number of functional groups included if a transmission.	**M**	**N0 1/5**
M	**IEA02**	**I12**	**Interchange Control Number** This numbes uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the 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.	**M**	**N0 9/9**

Document Revision

Version	Date	Description	Author
1.0	2009-01-24	Creation	Hans-Ulrich Berger
1.5	2016-Aug-10	Modified JCI or Johnson Controls references to be Adient. Removed JCI logo and added Adient logo.	Hemant Bhardwaj