## **Application of ANSI X12**

### General

ANSI X12 or ASC X12 (Accredited Standards Committee) develops and maintains EDI standards. X12 was the sequential designator assigned by ANSI at the time of accreditation. Membership of ASC X12 includes over 3000 business experts from a large range of industries including health care, finance, government and others.

Listed here are descriptions of the interchange and group control segments. For full explanation of these segments, their purposes, and their data elements, refer to X12.5 Interchange Control Structures, X12.6 Application Control Structure, X12.22 Segment Directory, and X12.3 Data Element Dictionary.

## Envelope Details

Segment:	ISA	Mandatory	Max Occ.:	1

#### Name: Interchange Control Header

To start and identify an interchange of zero or more functional groups and interchange-related control segments.

Elemer	nt Su	mmary:				
<u>Ref</u>	<u>Id</u>	Element Name	Req	Туре	Min/Max	<u>Usage</u>
ISA01	101	Authorization Information Qualifier	Μ	ID	2/2	Must use
		Description:				
		Code to identify the type of information in the				
		Authorization Information				
Stan	dard C	ode List_I01				
<u>Cc</u>	<u>ode</u>	Name				
00	)	No Authorization Information Present (No Meaningful Inform	nation i	n 102)		
<u>Ref</u>	<u>Id</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ISA02	102	Authorization Information	0	AN	10/10	Optional
		Description:				
		Information used for additional identification or				
		authorization of the interchange sender or the data in				
		the interchange; the type of information is set by the				
		Authorization Information Qualifier (I01)				
ISA03	103	Security Information Qualifier	м	ID	2/2	Must use
		Description:			,	
		Code to identify the type of information in the Security				
		Information				
Stan	dard C	ode List_103				
<u>Cc</u>	<u>ode</u>	Name				
00	)	No Security Information Present (No Meaningful Information	n in 104)			

<u>Ref</u> ISA04	<u>Id</u> 104	Element Name Security Information Description: 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 (103)	<u>Req</u> O	<u>Type</u> AN	<u>Min/Max</u> 10/10	<u>Usage</u> Optional
ISA05	105	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	Μ	ID	2/2	Must use
Stan	dard C	ode List_105				
	<u>de</u>					
08		UCC EDI Communications ID (Comm ID)	Den	<b>T</b>		
<u>Ref</u> ISA06	<u>Id</u> 106	Element Name Interchange Sender ID Description: 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	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 15/15	<u>Usage</u> Must use
ISA07	105	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	Μ	ID	2/2	Must use
Stan	dard C	ode List_I05				
	de	Name				
12		Phone (Telephone Companies)				
<u>Ref</u>	Id	Element Name	Req	Type	Min/Max	<u>Usage</u>
ISA08	107	Interchange Receiver ID Description: 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 to them will use this as a receiving ID to route data to them	Μ	AN	15/15	Must use
ISA09	108	Interchange Date Description: Date of the interchange Format: YYMMDD	Μ	DT	6/6	Must use
ISA10	109	Interchange Time Description: Time of the interchange Format: HHMM	Μ	ТМ	4/4	Must use
ISA11	110	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	Μ	ID	1/1	Must use
		All valid standard codes are used.				

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ISA12	111	Interchange Control Version Number Description: This version number covers the interchange control segments	Μ	ID	5/5	Must use
Star	ndard C	ode List_I11				
<u>Co</u>	<u>ode</u>	Name				
00	0401	Draft Standards for Trial Use Approved for Publication by AS October 1997	SC X12 Pi	rocedures	Review Board	through
<u>Ref</u>	<u>Id</u>	Element Name	<u>Req</u>	Type	Min/Max	Usage
ISA13	112	Interchange Control Number	М	NO	9/9	Must use
		<b>Description:</b> A control number assigned by the interchange sender				
ISA14	113	Acknowledgment Requested Description:	М	ID	1/1	Must use
		Code sent by the sender to request an interchange acknowledgment (TA1)				
Star	ndard C	ode List_I13				
<u>Cc</u>	ode	<u>Name</u>				
1		Interchange Acknowledgment Requested				
Ref	<u>Id</u>	Element Name	<u>Req</u>	Туре	Min/Max	Usage
ISA15	114	Usage Indicator	М	ID	1/1	Must use
		Description:				
		Code to indicate whether data enclosed by this interchange envelope is test, production or information				
Star	ndard C	ode List_I14				
<u>Cc</u>	<u>ode</u>	<u>Name</u>				
Р		Production Data				
<u>Ref</u>	<u>Id</u>	Element Name	<u>Req</u>	Туре	Min/Max	<u>Usage</u>
SA16	115	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	Μ	AN	1/1	Must use
<b>xample</b> SA*00 <sup>,</sup> 12012(	*	*00* *01*005515414 0*U*00401*000000149*0*P*:~	*14*	154837	732901622	

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1

Segment:

GS

Max Occ.:

Name: Functional Group Header

To indicate the beginning of a functional group and to provide control information

Mandatory

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code	м	ID	2/2	Must use
	-	Description:			,	
		Code identifying a group of application related				
		transaction sets				
Star	ndard C	ode List_479				
<u>Cc</u>	<u>ode</u>	Name				
IN		Invoice (810)				
AC		Application Advice (824)				
PC		Purchase Order (850)				
SH		Advanced Ship Notice (856)				
RS		Order Status Report (870)				
FA	4	Functional Acknowledgement (997)				
<u>Ref</u>	<u>Id</u>	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	<u>Usage</u>
GS02	142	Application Sender's Code	М	AN	2/15	Must use
		Description:				
		Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	Application Receiver's Code	М	AN	2/15	Must use
		Description:				
		Code identifying party receiving transmission. Codes agreed to by trading partners				
GS04	373	Date	М	DT	8/8	Must use
		Description:				
		Date expressed as CCYYMMDD				
GS05	337	Time	М	ТМ	4/8	Must use
		Description:				
		Time expressed in 24-hour clock time as follows:				
		HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD,				
		where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds;				
		decimal seconds are expressed as follows: D = tenths				
		(0-9) and DD = hundredths $(00-99)$				
GS06	28	Group Control Number	М	NO	1/9	Must use
		Description:				
		Assigned number originated and maintained by the				
		sender				
GS07	455	Responsible Agency Code	М	ID	1/2	Must use
		Description:				
		Code used in conjunction with Data Element 480 to				
		identify the issuer of the standard				

### Standard Code List\_455

Code <u>Name</u>

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<u>Ref</u>	<u>Id</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
GS08	480	Version / Release / Industry Identifier Code	М	AN	1/12	Must use
		<b>Description:</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the				
		version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

#### Standard Code List\_480

```
Code <u>Name</u>
```

004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

### Semantics:

- 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.

#### Example:

GS\*SH\*005515414\*15483732901622\*20120120\*0900\*72\*X\*004010~

Segment:

Mandatory

Max Occ.:

1

Name: Functional Group Trailer

GE

To indicate the end of a functional group and to provide control information

Element Summary:									
<u>Ref</u>	<u>Id</u>	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	Usage			
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	Μ	NO	1/6	Must use			
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	Μ	NO	1/9	Must use			

### Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

### **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.

#### Example:

GE\*1\*72~

Segment:



Mandatory

Max Occ.: 1

### Name: Interchange Control Trailer

To indicate the end of an interchange of zero or more functional groups and interchange-related control segments.

#### **Element Summary:**

Ref	<u>Id</u>	Element Name	Req	Туре	Min/Max	<u>Usage</u>
IEA01	116	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	Μ	NO	1/5	Must use
IEA02	112	Interchange Control Number Description: A control number assigned by the interchange sender	М	NO	9/9	Must use

Example:

IEA\*1\*000000149~