

# 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 of this envelope.

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
2	010	ISA	Interchange Control Header	M	1		
5	020	GS	Functional Group Header	M	1		
7	030	GE	Functional Group Trailer	M	1		
8	040	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  
**Notes:** The Ginnie Mae DUNS Number is 80-871-6344. This number is used as the Sender ID for outbound documents and as the Receiver ID for inbound documents. Data should be provided in an unwrapped format. The following delimiters should be used for all Ginnie Mae transaction sets:  
Segment !  
Element \*  
Sub-element :

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>ISA01</b>	<b>I01 Authorization Information Qualifier</b>	<b>M ID 2/2</b>
	Code to identify the type of information in the Authorization Information	
	00 No Authorization Information Present (No Meaningful Information in I02)	
<b>ISA02</b>	<b>I02 Authorization Information</b>	<b>M AN 10/10</b>
	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)	
	Element ISA I02 must be filled with 10 blank spaces or the translator will reject the transmission.	
<b>ISA03</b>	<b>I03 Security Information Qualifier</b>	<b>M ID 2/2</b>
	Code to identify the type of information in the Security Information	
	00 No Security Information Present (No Meaningful Information in I04)	

<b>ISA04</b>	<b>I04</b>	<b>Security Information</b>	<b>M AN 10/10</b>
		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 (I03)	
		Element ISA I02 must be filled with 10 blank spaces or the translator will reject the transmission.	
<b>ISA05</b>	<b>I05</b>	<b>Interchange ID Qualifier</b>	<b>M ID 2/2</b>
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
		01 Duns (Dun & Bradstreet)	
<b>ISA06</b>	<b>I06</b>	<b>Interchange Sender ID</b>	<b>M AN 15/15</b>
		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	
		This is the sender's DUNS number. If the DUNS number is not 15 characters, left justify the number and right pad with spaces. Use only numeric digits. Do not include any dashes, commas, etc.	
<b>ISA07</b>	<b>I05</b>	<b>Interchange ID Qualifier</b>	<b>M ID 2/2</b>
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
		01 Duns (Dun & Bradstreet)	
<b>ISA08</b>	<b>I07</b>	<b>Interchange Receiver ID</b>	<b>M AN 15/15</b>
		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	
		This is the receiver's DUNS number. If the DUNS number is not 15 characters, left justify the number and right pad with spaces. Use only numeric digits. Do not include any dashes, commas, etc.	
<b>ISA09</b>	<b>I08</b>	<b>Interchange Date</b>	<b>M DT 6/6</b>
		Date of the interchange	
		Use the format YYMMDD.	
<b>ISA10</b>	<b>I09</b>	<b>Interchange Time</b>	<b>M TM 4/4</b>

		Time of the interchange Use the format HHMM.		
<b>ISA11</b>	<b>I10</b>	<b>Interchange Control Standards Identifier</b>	<b>M</b>	<b>ID 1/1</b>
		Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer		
<b>ISA12</b>	<b>I11</b>	<b>Interchange Control Version Number</b>	<b>M</b>	<b>ID 5/5</b>
		This version number covers the interchange control segments		
		00306 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1995		
<b>ISA13</b>	<b>I12</b>	<b>Interchange Control Number</b>	<b>M</b>	<b>N0 9/9</b>
		A control number assigned by the interchange sender		
		This number is assigned by the sender's translator and must match data element IEA02 I12.		
<b>ISA14</b>	<b>I13</b>	<b>Acknowledgment Requested</b>	<b>M</b>	<b>ID 1/1</b>
		Code sent by the sender to request an interchange acknowledgment (TA1)		
		An Interchange Acknowledgement should only be requested when sending transactions between VANs or from a VAN to a Private Network.		
<b>ISA15</b>	<b>I14</b>	<b>Test Indicator</b>	<b>M</b>	<b>ID 1/1</b>
		Code to indicate whether data enclosed by this interchange envelope is test or production		
<b>ISA16</b>	<b>I15</b>	<b>Component Element Separator</b>	<b>M</b>	<b>AN 1/1</b>
		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		

**Segment:** **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  
**Notes:** 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.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>GS01</b>	<b>479 Functional Identifier Code</b> Code identifying a group of application related transaction sets MH Secondary Mortgage Market Investor Report (203)	<b>M ID 2/2</b>
<b>GS02</b>	<b>142 Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners This is the sender's DUNS number.	<b>M AN 9/13</b>
<b>GS03</b>	<b>124 Application Receiver's Code</b> Code identifying party receiving transmission. Codes agreed to by trading partners This is the receiver's DUNS number.	<b>M AN 9/13</b>
<b>GS04</b>	<b>373 Date</b> Date (YYMMDD) Use the format YYMMDD.	<b>M DT 6/6</b>
<b>GS05</b>	<b>337 Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes	<b>M TM 4/8</b>

(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)

Use the format HHMM.

<b>GS06</b>	<b>28</b>	<b>Group Control Number</b>	<b>M N0 1/9</b>
		Assigned number originated and maintained by the sender	
		This number is assigned by the sender's translator and must match data element GE02 28.	
<b>GS07</b>	<b>455</b>	<b>Responsible Agency Code</b>	<b>M ID 1/2</b>
		Code used in conjunction with Data Element 480 to identify the issuer of the standard	
		X	Accredited Standards Committee X12
<b>GS08</b>	<b>480</b>	<b>Version / Release / Industry Identifier Code</b>	<b>M AN 1/12</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	
		003060	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1995

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

**Position:** 030

**Loop:**

**Level:**

**Usage:** Mandatory

**Max Use:** 1

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

**Notes:** 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 Element Summary

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>GE01</b>	<b>97 Number of Transaction Sets Included</b>	<b>M N0 1/6</b>
	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
<b>GE02</b>	<b>28 Group Control Number</b>	<b>M N0 1/9</b>
	Assigned number originated and maintained by the sender	
	This number is assigned by the sender's translator and must match data element GS06 28.	

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

**Position:** 040

**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

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>IEA01</b>	<b>I16</b>	<b>Number of Included Functional Groups</b>		<b>M N0 1/5</b>
			A count of the number of functional groups included in an interchange	
<b>IEA02</b>	<b>I12</b>	<b>Interchange Control Number</b>		<b>M N0 9/9</b>
			A control number assigned by the interchange sender	
			This number is assigned by the sender's translator and must match data element ISA13 I12.	