

<p><b>The ISA (INTERCHANGE CONTROL HEADER)</b>  <b>Data Segment and its Element Separators</b></p>
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Element Name	ELEM ID	Example	Min-Max lengths	Mand./Opt.	ANSI Features		
					Elem. Symbol	Position	Elem. NO.
N/A	Record Identifier	<b>ISA</b>	3/3	M	N/A	1-3	N/A
N/A	Element Separator	*	1/1	M	N/A	4-4	N/A
Authorization Info Qualifier	<b>ISA01</b>	<b>00</b>	2/2	M	ID	5-6	<b>I01</b>
N/A	Element Separator	*	1/1	M	N/A	7-7	N/A
Authorization Information	<b>ISA02</b>	Ten Spaces (or blanks)	10/10	M	AN	8-17	<b>I02</b>
N/A	Element Separator	*	1/1	M	N/A	18-18	N/A
Security Info Qualifier	<b>ISA03</b>	<b>00</b>	2/2	M	ID	19-20	<b>I03</b>
N/A	Element Separator	*	1/1	M	N/A	21-21	N/A
Security Information	<b>ISA04</b>	Ten Spaces (or blanks)	10/10	M	AN	22-31	<b>I04</b>
N/A	Element Separator	*	1/1	M	N/A	32-32	N/A
Interchange Sender ID Qualifier	<b>ISA05</b>	<b>ZZ</b>	2/2	M	ID	33-34	<b>I05</b>
N/A	Element Separator	*	1/1	M	N/A	35-35	N/A
Interchange Sender ID	<b>ISA06</b>	SENDER1	15/15	M	AN	36-50	<b>I06</b>
N/A	Element Separator	*	1/1	M	N/A	51-51	N/A
Interchange Receiver ID Qualifier	<b>ISA07</b>	<b>ZZ</b>	2/2	M	ID	52-53	<b>I05</b>
N/A	Element Separator	*	1/1	M	N/A	54-54	N/A
Interchange Receiver ID	<b>ISA08</b>	RECEIVER1	15/15	M	AN	55-69	<b>I07</b>
N/A	Element Separator	*	1/1	M	N/A	70-70	N/A
Interchange Date	<b>ISA09</b>	<b>980614</b> (YYMMDD)	6/6	M	DT (Date)	71-76	<b>I08</b>
N/A	Element Separator	*	1/1	M	N/A	77-77	N/A
Interchange Time	<b>ISA10</b>	<b>1630</b> (HHMM)	4/4	M	TM (Time)	78-81	<b>I09</b>

N/A	Element Separator	*	1/1	M	N/A	82-82	N/A
Interchange Standards ID	<b>ISA11</b>	<b>U</b>	1/1	M	ID	83-83	<b>I10</b>
N/A	Element Separator	*	1/1	M	N/A	84-84	N/A
Interchange Version ID	<b>ISA12</b>	<b>00200</b>	5/5	M	ID	85-89	<b>I11</b>
N/A	Element Separator	*	1/1	M	N/A	90-90	N/A
Interchange Control Number	<b>ISA13</b>	<b>000000001</b> (Must be identical to # in IEA02)	9/9	M	N0	91-99	<b>I12</b>
N/A	Element Separator	*	1/1	M	N/A	100-100	N/A
Acknowledge Requested	<b>ISA14</b>	"0" for no "1" for yes	1/1	M	ID	101-101	<b>I13</b>
N/A	Element Separator	*	1/1	M	N/A	102-102	N/A
Test Indicator	<b>ISA15</b>	"T" for test "P" for Production	1/1	M	ID	103-103	<b>I14</b>
N/A	Element Separator	*	1/1	M	N/A	104-104	N/A
Sub_Element Separator	<b>ISA16</b>	> ebcdic, 6e ascii, 3e	1/1	M	AN	105-105	<b>I15</b>
Segment Terminator Or N/L	Cr,lf	0d0a (Hex) (e.g.)	1/1	M	N/A	106-106	N/A

## THE IEA (INTERCHANGE CONTROL TRAILER)

The IEA is used to define the end of an interchange of one or more functional groups and interchange-related control segments.

Element Name	ELEM ID	Example	Min-Max lengths	ANSI Features			
				Mand./Opt.	Elem. Symbol	Position	Elem. NO.
N/A	Record Identifier	<b>IEA</b>	3/3	M	N/A	1-3	N/A
N/A	Element Separator	*	1/1	M	N/A	4-4	N/A
Number of Functional Groups	<b>IEA01</b>	<b>1</b>	1/5	M	N0	--	<b>I16</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Interchange Control #	<b>IEA02</b>	000000001	9/9	M	N0	--	<b>I12</b>
Segment Terminator Or N/L	Cr,lf	0d0a (Hex) (e.g.)	1/1	M	N/A	--	N/A

## **ISA01 - Authorization Information Qualifier**

<sup>101</sup>

Code used to identify the type of information in the Authorization Information.

<b>Code</b>	<b>Description</b>
00	No Authorization Information Present
01	UCS Communications ID
02	EDX Communications ID
03	Additional Data Identification
04	Rail Communications ID

## **ISA02 - Authorization Information**

<sup>102</sup>

Information used for additional identification or authorization of the sender or the data in the interchange. The Authorization Information

## **ISA03 - Security Info Qualifier**

<sup>103</sup>

Code used to identify the type of information in the Security Information.

<b>Code</b>	<b>Description</b>
00	No Security Information Present
01	Password

## **ISA04 - Security Information**

<sup>104</sup>

This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.

## ISA05 - Interchange Sender ID Qualifier

105

Qualifier which designates the system or method of code structure used to indicate the sender ID [or Receiver] element being qualified.

Code	Description
01	DUNS (DUN & Bradstreet)
02	SCAC (Standard Carrier Alpha Code)
03	FMC (Federal Maritime Commission)
04	IATA (International Air Transport Association)
08	UCC EDI Communications ID (Comm ID)
09	X.121 (CCITT)
11	DEA (Drug Enforcement Administration)
12	Phone (Telephone Companies)
13	UCS Code (The UCS Code is the Only Code Used for UCS Transmissions. It includes the Area Code and Telephone Number of a Modem. It does not include punctuation, blanks, or access code).

## ISA06 - Interchange Sender ID

106

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.

## ISA07 - Interchange Receiver ID Qualifier - [refer to ISA05](#)

105

## ISA08 - Interchange Receiver ID

107

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.

## ISA09 - Interchange Date

108

Date of the Interchange.

## ISA10 - Interchange Time

109

Time of the Interchange.

## ISA 11 - Interchange Standards ID

110

Code to identify the Agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

Code	Description
U	U.S. EDI Community of ASC X12, TDCC, and UCS.

## ISA 12 - Interchange Version ID

111

This Version Control number covers the interchange control segments.

Code	Description
00200	Standard Issued as ANSI X12.5-1987
00201	Draft Standard for Trial Use Approved by ASC X12 Through August 1988
00204	Draft Standard for Trial Use Approved by ASC X12 Through May 1989
00300	Draft Standard issued as ANSI X12.5-1992
00301	Draft Standard for Trial Use Through october 1990
00302	Draft Standard for Trial Use Through October 1991
00303	Draft Standard for Trial Use Through October 1992
	etc...

## ISA 13 - Interchange Control Number

112

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.

## ISA 14 - Acknowledgment Requested

113

Code sent by the sender to request an interchange acknowledgement.

Code	Description
0	No Acknowledgment Requested
1	Interchange Acknowledgment Requested

## ISA 15 - Test Indicator

114

Code to indicate whether data enclosed by the interchange envelope is "test" or "production."

Code	Description
P	Production Data
T	Test Data

## **ISA 16 - Sub\_Element Separator**

115

This is a field reserved for future expansion in separating data element subgroups. (When migrating to International Standards, EDIFACT e.g., this must be different from the data element separator).

**The GS (FUNCTIONAL GROUP HEADING)  
Data Segment and its Element Separators**

Element Name	ELEM ID	Example	Min-Max lengths	ANSI Features			
				Mand./Opt.	Elem. Symbol	Position	Elem. NO.
N/A	Record Identifier	<b>GS</b>	2/2	M	N/A	1-2	N/A
N/A	Element Separator	*	1/1	M	N/A	3-3	N/A
Functional ID Code	<b>GS01</b>	<b>PO</b>	2/2	M	ID	4-5	<b>479</b>
N/A	Element Separator	*	1/1	M	N/A	6-6	N/A
Application Senders Code	<b>GS02</b>	SENDER1	2/15	M	AN	--	<b>142</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Application Receivers Code	<b>GS03</b>	RECEIVER1	2/15	M	AN	--	<b>124</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Data Interchange Date	<b>GS04</b>	<b>980614</b> (YYMMDD)	6/6	M	DT	--	<b>29</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Data Interchange Time	<b>GS05</b>	1630 (HHMMss)	4/6	M	TM	--	<b>337</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Data Interchange Control #	<b>GS06</b> (same as GE02)	000000011	1/9	M	N0	--	<b>28</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Responsible Agency Code	<b>GS07</b>	<b>X</b>	1/1	M	ID	--	<b>455</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Version Release ID Code	<b>GS08</b>	<b>003030</b>	1/12	M	AN	--	<b>480</b>
Segment Terminator/ New Line	Cr,lf	0d0a (Hex) (e.g.)	1/1	M	N/A	--	N/A

## The GE (Functional Group Trailer)

The GE is used to define the end of a functional group and to provide control information.

Element Name	ELEM ID	Example	Min-Max lengths	ANSI Features			Elem. NO.
				Mand./Opt.	Elem. Symbol	Position	
N/A	Record Identifier	<b>GE</b>	3/3	M	N/A	1-3	N/A
N/A	Element Separator	*	1/1	M	N/A	4-4	N/A
Number of Transaction Sets Included	<b>GE01</b>	<b>3</b>	1/6	M	N0	--	<b>97</b>
N/A	Element Separator	*	1/1	M	N/A	--	N/A
Group Control #	<b>GE02</b> (same as GS06)	000000011	1/9	M	N0	--	<b>28</b>
Segment Terminator Or N/L	Cr,lf	0d0a (Hex) (e.g.)	1/1	M	N/A	--	N/A

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Element Name	ELEM ID	Example	Min-Max lengths	Mand./Opt.	ANSI Features		
					Elem. Symbol	Position	Elem. NO.
N/A	Record Identifier	<a href="#">ISA01</a>	3/3	M	N/A	1-3	N/A
N/A	Element Separator	*	1/1	M	N/A	4-4	N/A
Authorization Info Qualifier	<b>ISA01</b>	<b>00</b>	2/2	M	<b>ID</b>	5-6	<b>I01</b>
N/A	Element Separator	*	1/1	M	N/A	7-7	N/A