



AmeriCold

L O G I S T I C S

ISA INTERCHANGE CONTROL HEADER

Purpose:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	ISA01	I01	Author Information Qualifier 00 = No authorization information present	M-ID-02/02
>>>	ISA02	I02	Author Information Should be blank filled	M-AN-10/10
>>>	ISA03	I03	Security Information Qualifier 00 = No security information present 01 = Password	M-ID-02/02
>>>	ISA04	I04	Security Information 00 = Blank filled 01 = Assigned UCS Communications Password	M-AN-10/10
>>>	ISA05	I05	Interchange ID Qualifier 01 = Duns Number 08 = UCC EDI Communications ID (Comm ID) ZZ = Mutually Agreed Upon	M-ID-02/02
>>>	ISA06	I06	Interchange Sender ID Left justified and blank filled	M-AN-15/15

**Data Element Summary
Continued**

	Ref. Des.	Data Element	Name	Attributes
>>>	ISA07	I07	Interchange ID Qualifier 01 = Duns Number 08 = UCC EDI Communications ID (Comm ID) ZZ = Mutually Agreed Upon	M-ID-02/02
>>>	ISA08	I08	Interchange Receiver ID Left justified and blank filled	M-AN-15/15
>>>	ISA09	I09	Interchange Date Date interchange was created in sender's system Formatted as "YYMMDD" (Does <u>NOT</u> include century field)	M-DT-06/06
>>>	ISA10	I10	Interchange Time Time interchange was created in sender's system Formatted as "HHMM"	M-TM-04/04
>>>	ISA11	I11	Interchange Control Standard Identification U = US EDI Community of ASC X12, TDCC, and UCS	M-ID-01/01
>>>	ISA12	I12	Interchange Control Version Number 00307 = Version of Envelope <u>ONLY</u> (This is not the same as the GS version)	M-ID-05/05
>>>	ISA13	I13	Interchange Control Number Must be the same as IEA02	M-NO-09/09
>>>	ISA14	I14	Acknowledgment Requested 0 = No acknowledgment requested	M-ID-01/01
>>>	ISA15	I15	Test Indicator P = Production data T = Test data	M-ID-01/01
>>>	ISA16	I16	Component Element Separator > = Hex 6E in EBCDIC	M-01/01

IEA INTERCHANGE CONTROL TRAILER

Purpose:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	IEA01	I16	Number of Included Functions Groups Contains the count of GS segments with in the transmission	M-NO-01/05
>>>	IEA02	I12	Interchange Control Number Must be the same as ISA13	M-NO-09/09

GS FUNCTIONAL GROUP HEADER

Purpose:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	GS01	479	Functional ID Code Examples: OW = Warehouse Ship Order (940) FA = Functional Acknowledgment (997)	M-ID-02/02
>>>	GS02	142	Application Sender's Code Sender's GS code	M-AN-02/15
>>>	GS03	124	Application Receiver's Code Receiver's GS code	M-AN-02/15
>>>	GS04	373	Date Formatted as "CCYYMMDD"	M-DT-08/08
>>>	GS05	337	Time Formatted as "HHMMSSDD"	M-TM-04/08
>>>	GS06	28	Group Control Number Must be the same as GE02	M-NO-01/09
>>>	GS07	455	Responsible Agency Code T = Transportation Data Coordinating Committee X = Accredited Standards Committee X12	M-ID-01/02
>>>	GS08	480	Version/Release ID Code 004010UCS = Used for UCS and WINS	M-AN-01/12

GE FUNCTIONAL GROUP TRAILER

Purpose:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	GE01	97	Number of Transaction Sets Included Total number of transaction sets in the functional group or interchange group terminated by the trailer containing this data element.	M-NO-01/06
>>>	GE02	28	Group Control Number Must be the same as GS06	M-AN-01/09

ST TRANSACTION SET HEADER

Purpose:

To indicate the start of a transaction set and to assign a control number

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	ST01	143	Transaction Set ID Code Examples: 940 = Warehouse Ship Order 997 = Functional Acknowledgment	M-ID-03/03
>>>	ST02	329	Transaction Set Control Number Must be the same as SE02	M-AN-04/09

SE TRANSACTION SET TRAILER

Purpose:

To indicate the end of a transaction set and provide the count of the transmitted segments (Including the beginning (ST) and ending (SE) segments)

Data Element Summary

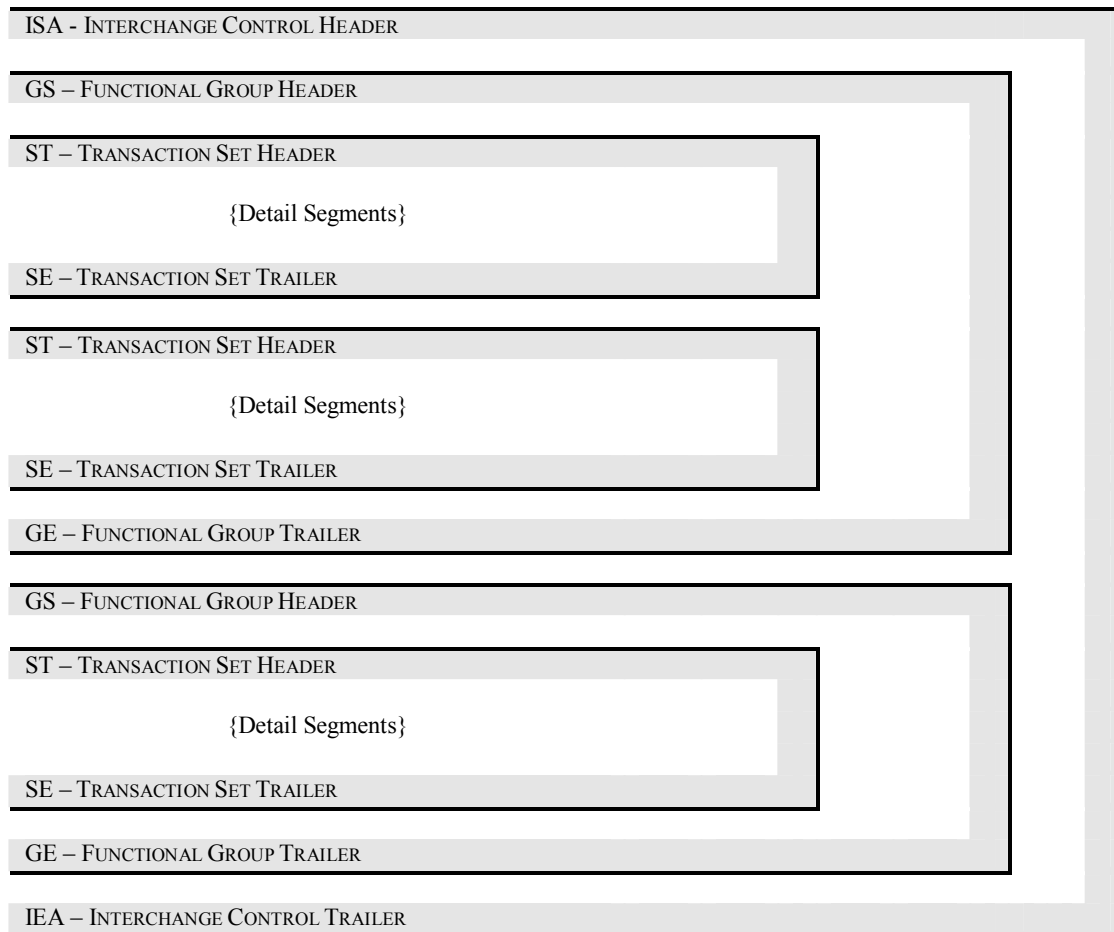
	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
>>>	SE01	96	Number of Included Segments Total number of segments including the ST & SE	M-NO-01/10
>>>	SE02	329	Transaction Set Control Number Must be the same as ST02	M-AN-04/09

CONTROL CONCEPTS

TRANSMISSION STRUCTURE

The structure of the Electronic Data Interchange system provides the participant with multiple levels of control to ensure data integrity within a given transmission, functional group, or transaction set.

This is accomplished through the use of header and trailer control segments designed to uniquely identify the start and end of transmissions, functional groups, and transaction sets. See figure below.



EXAMPLES OF ENVELOPES

DATA SENT **TO** AMERICOLD LOGISTICS

(SENDER) (RECEIVER)
ISA*00* *00* *08*1234567890 *08*3111350000 *000108*0700*U*00307*000002191*0*P*>
GS*FA*7705551212*3111350000*20000108*0700*1189*T*004010UCS
ST*997*0001
AK1*SW*14199
AK2*945*141990001
AK5*A
AK9*A*1*1*1
SE*5*0001
GE*1*1189
IEA*1*000002191

DATA SENT **FROM** AMERICOLD LOGISTICS

(SENDER) (RECEIVER)
ISA*00* *00* *08*3111350000 *08*1234567890 *000108*0700*U*00307*000002191*0*P*>
GS*FA*3111350000*7705551212*20000108*0700*1189*T*004010UCS
ST*997*0001
AK1*SW*14199
AK2*945*141990001
AK5*A
AK9*A*1*1*1
SE*5*0001
GE*1*1189
IEA*1*000002191