International Truck and Engine Corporation

ISA & GS Enveloping Standard

Version: Represents ISA & GS Pre & Post 4010 Standard Final

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Notes:	**Document Version 2.0**

Envelope Segments

Functional Group=

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ISA	Interchange Control Header	M	1			Must use
020	GS	Functional Group Header	M	1			Must use
030	GE	Functional Group Trailer	M	1			Must use
040	IEA	Interchange Control Trailer	M	1			Must use

Trading Partner:

This guide represents the enveloping requirements for International's EDI program. This guide represents the enveloping standard before version 4010 and 4010 and beyond. Special notes point out where differences occur.

International Uses the following separators:
Segment Separator   Hex 1C (Shown in examples as a ".")
Element Separator   Hex 5C (Shown in examples as "*")
Sub-Element Separator Hex 7A (Shown in examples as a ":")

ISA   Interchange Control Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information

Code   Name
00   No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use

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)

Trading Partner: International will send spaces in this field.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use

Description: Code to identify the type of information in the Security Information

Code   Name
00   No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA04	I04	**Security Information**	M	AN	10/10	Must use

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 (I03)

Trading Partner: International will send spaces in this field.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Trading Partner: When sending to International this would be your Trading Partner ISA Qualifier.

International: When sending to a Trading Partner, this is the ISA qualifier for International, which will be '01'

Code   Name
01   Duns (Dun & Bradstreet)
12   Phone (Telephone Companies)
14   Duns Plus Suffix
16   Duns Number With 4-Character Suffix
30   U.S. Federal Tax Identification Number
ZZ   Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use

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

Trading Partner: When sending to International this would be your ISA Trading Partner ID.

International: When sending to a Trading Partner, this is the ISA Trading Partner ID for International, which will be '781495650'.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use

Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Trading Partner: When receiving from International this would be International's ISA Trading Partner Id qualifier, which is '01'.

International: When receiving from aTrading Partner,

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		this is the ISA Trading Partner Id Qualifier for that Supplier.				
		Code Name				
		01 Duns (Dun & Bradstreet)				
		12 Phone (Telephone Companies)				
		14 Duns Plus Suffix				
		16 Duns Number With 4-Character Suffix				
		30 U.S. Federal Tax Identification Number				
		ZZ Mutually Defined				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use
		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				
		Trading Partner: When receiving from International this would be International's ISA Trading Partner Id, which is '781495650'.				
		International: When receiving from aTrading Partner, this is the ISA Trading Partner Id for that Supplier.				
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
		Code Name				
		U U.S. EDI Community of ASC X12,and UCS				
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use
		Description: This version number covers the interchange control segments				
		Code Name				
		00200 Standard Issued as ANSI X12.5-1987				
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		Code Name				
		0 No Acknowledgment Requested				
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		Code Name				
		P Production Data				
		T Test Data				
ISA16	I15	**Component Element Separator**	M		1/1	Must use
		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				
		Trading Partner: International uses the Hex 7A for the Sub-Element Delimiter.				

Trading Partner:

Examples:

Inbound before version 4010:

ISA*00* *00* *01*Trading Partner Id *01*781495650 *000405*0616*U*00200*000960617*0*P*:.

Inbound version 4010 and later:

ISA*00*   *00*   *01*Trading Partner Id   *01*781495650   *000410*0502*U*00200*000016379*0*P*:.

Outbound before version 4010:
ISA*00*   *00*   *01*781495650   *01*Trading Partner Id   *000407*1931*U*00200*000001831*0*P*:.

Outbound version 4010 and later:
ISA*00*   *00*   *01*781495650   *01*Trading Partner Id   *000407*2001*U*00200*000005473*0*P*:.

ISA*00*   *00*   *01*Trading Partner Id   *01*781495650   *000410*0502*U*00200*000016379*0*P*:.

                                                    *01*Trading Partner Id   *000407*1931*U*00200*000001831*0*P*:.

GS   Functional Group Header

Pos: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

Code	Name
AG	Application Advice (824)
CA	Purchase Order Change Acknowledgment/Request - Seller Initiated (865)
CI	Consolidated Service Invoice/Statement (811)
FA	Functional Acknowledgment (997)
FT	File Transfer (996)
IN	Invoice Information (810,819)
LB	Lockbox (823)
PC	Purchase Order Change Request - Buyer Initiated (860)
PO	Purchase Order (850)
PR	Purchase Order Acknowledgement (855)
PS	Planning Schedule with Release Capability (830)
PT	Product Transfer and Resale Report (867)
RA	Payment Order/Remittance Advice (820)
RC	Receiving Advice/Acceptance Certificate (861)
RS	Order Status Information (869,870)
SH	Ship Notice/Manifest (856)
SI	Shipment Information (858)
SQ	Production Sequence (866)
SS	Shipping Schedule (862)
TD	Trading Partner Profile (838)
TX	Text Message (864)
WA	Product Service Transaction Sets (140,142, 143)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners

Trading Partner: When sending to International this would be your GS level Trading Partner ID. This may or may not be the same as the ISA Trading Partner ID.

International: When sending to a Trading Partner, this is the GS Trading Partner ID for International, which will represent the specific International location sending the data. See ISA & GS Trading Partner ID's Used by International Truck and Engine Corp. for a complete list of GS Trading Partner IDs.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission. Codes agreed to by trading partners

Trading Partner: When receiving from International this would be your GS level Trading Partner ID. This may or may not be the same as the ISA Trading Partner ID.

International: When receiving from a Trading Partner, this is the GS Trading Partner ID for International, which will represent the specific International location to receive the data. See ISA & GS Trading Partner ID's Used by International Truck and Engine Corp for a complete list of GS Trading Partner IDs.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Trading Partner: Special Note:
The date segment in versions of the ANSI X12 standards prior to version 4010 used a six position date. This was a Mandatory Min of 6 and Max of 6. Please refer to the examples below.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS05	337	**Time**	M	TM	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**	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use
		Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard				
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use
		Description: 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				

Code   **Name**
002040   Draft Standards Approved by ASC X12 Through May 1989
003010   Draft Standards Approved By ASC X12 Through June 1990
003020   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1991
003040   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1993
003050   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994
004010   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997
004020   Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1998

Trading Partner:

Example:
Inbound before version 4010:
GS*FA*Trading Partner Id*204063515*000405*0616*1*X*002040.

Inbound version 4010 and later:
GS*FA*Trading Partner Id*161984646*20000410*0502*8309*X*004010.

Outbound before version 4010:
GS*TX*204063515*Trading Partner Id*000410*0233*47647*X*003050.

Outbound version 4010 and later:
GS*SQ*161984646*Trading Partner Id*20000410*0301*328*X*004010.

GE   Functional Group Trailer

Pos: 030	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	**Group Control Number**	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				

Trading Partner:
Examples:
Inbound before version 4010:
GE*1*1.

Inbound version 4010 and later:
GE*1*1.

Outbound before version 4010:
GE*1*1.

Outbound version 4010 and later:
GE*1*1.

IEA Interchange Control Trailer

Pos: 040	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				

Trading Partner:

Examples:
Inbound before version 4010:
IEA*1*000960617.

Inbound version 4010 and later:
IEA*1*000016379.

Outbound before version 4010:
IEA*1*000001831.

Outbound version 4010 and later:
IEA*1*000005473.

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