

323 Sailing Schedule Implementation Guide for Customers

Version: 2.0

Company:

CargoSmart Limited

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323 Vessel Schedule and Itinerary (Ocean)

Functional Group=SO

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Vessel Schedule and Itinerary (Ocean) Transaction Set (323) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary for an ocean carrier to communicate the schedule and itinerary of an ocean vessel to interested parties.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
	ISA	Interchange Control Header	M	1			Must use	3
	GS	Functional Group Header	M	1			Must use	6

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
010	ST	Transaction Set Header	M	1			Must use	8
020	V1	Vessel Identification	M	1			Must use	9
030	K1	Remarks	O	2			Used	11
LOOP ID - R4					999			12
040	R4	Port or Terminal	M	1			Must use	13
* 050	DTM	Date/Time Reference	O	15			Not Used	N/A
060	V9	Event Detail	M	5			Must use	15
070	SE	Transaction Set Trailer	M	1			Must use	17

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
	GE	Functional Group Trailer	M	1			Must use	18
	IEA	Interchange Control Trailer	M	1			Must use	19

Conventions Used in this Implementation Guideline:

- The segment hierarchy lists all the segments of ASC X 12 standard. Segments which are not used by CargoSmart are indicated with * sign. You may send these segments, but CS will not use them.
- A detailed description of each segment is listed with the segment ID and name, level (header, detail, or summary), loop (if the segment is contained within a loop), loop repeat (for the first segment in the loop), requirement within the transaction set (as required by CS), maximum use, purpose (as defined by ASC X12), ASC X12 syntax notes, ASC X12 comments for segment usage, notes that explain CS convention for the segment within the transaction set and a valid sample of that segment.
- The data element summary lists each data element, in order, for the segment. The data element summary includes the following types of information:
 - Req - This is the segment identifier with the data element sequence number within the segment.
 - Id - This is the number assigned to the data element by ASC X12. This number may be used for direct reference into the ASC X12 Data Element Dictionaries
 - Element Name - This is the name assigned to the data element by ASC X12, in the ASC X12 Data Element Dictionary.
 - Req - Element Usage based on ASC X12 standard and CS requirement. Below are the values used:

M *Mandatory* The data element must be used if the segment is used.
 O *Optional* The data element may be used if the segment is used.
 C *Conditional* The data element may be used - its presence is dependent on the presence or absence of other data elements in the same segment. The particular condition/relation will be stated in the CS Notes section for that segment.

e. *Type - Element Type based on ASC X12 standard and CS requirement. Below are the values used:*
 ID *Identifier* Values for the identifier-type data elements are taken from a predefined list in the ASC X12 Data Element Dictionary.

AN *String* Values for the string-type data element are a sequence of any printable characters.
 DT *Date* Values for the date-type data element are in the format YYMMDD.
 TM *Time* Values for a time-type data element are in the format HHMM expressed in 24 hour clock.
 Nx *Numeric* Values for a numeric data element are in an implied decimal format, where "x" indicates the number of places to the right of the decimal point. For negative values the leading minus sign (-) is used. Absence of a minus sign indicates a positive number. The decimal point is not transmitted in the character stream.

e.g., N0 is a whole number (999.) To send the number 999 the field contains "999"

N2 is 999.99 To send the number 999.99 the field contains "99999"

R *Decimal* This is a numeric field in character format, with a decimal point included. It is treated as alpha/numeric. The decimal point is not sent for whole numbers. The decimal point is not included in the calculation of data element field length. For negative values the leading minus sign(-) is used. Absence of a minus sign indicates a positive number.

e.g., to send the number 0128.734 the field contains "128.734"

to send the number 0789.00 the field contains "789".

f. *Minimum/Maximum - This is the minimum and maximum length the field can be.*

g. *Usage - Element Usage based on CS mapping. Below are values used:*
 Must Use CS is mapping this data element to a mandatory field in internal files and CS DB. Unavailability of this element will lead to CS failure.

Used CS may map this data element but unavailability will not cause failure.

Not Used CS is not mapping this data element to internal files and data is not extracted/loaded to CS DB.

h. *Code values - CS supported values for each element.*

Revision History:

Version Number	Version Date	Change Description
2.0	17Aug'06	Revised the presentation of IG.
1.7	20Oct'05	1. Added V103. 2. Updated sample.
1.3	23Mar'03	Refined contents, revised presentation and corrected typo errors from previous version.
1.0	12Aug'02	Initial Release

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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)
- 01 UCS Communications ID

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)

ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
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Description: Code to identify the type of information in the Security Information

Code Name

- 00 No Security Information Present (No Meaningful Information in I04)

ISA04	I04	Security Information	M	AN	10/10	Must use
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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)

ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Code Name

- 01 CargoSmart Qualifier

ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
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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

Code Name

- CARGOSM CargoSmart Interchange ID
- ART

ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
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Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

		<u>Code</u>	<u>Name</u>				
		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							
		<u>Code</u>	<u>Name</u>				
		YOUR_ID	Your Interchange ID				
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							
		<u>Code</u>	<u>Name</u>				
		U	U.S. EDI Community of ASC X12, TDCC, and UCS				
ISA12	I11	Interchange Control Version Number		M	ID	5/5	Must use
Description: Code specifying the version number of the interchange control segments							
		<u>Code</u>	<u>Name</u>				
		00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
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)							
		<u>Code</u>	<u>Name</u>				
		0	No Acknowledgment Requested				
		1	Interchange 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							
		<u>Code</u>	<u>Name</u>				
		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							

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		separator and the segment terminator				

Sample:

ISA*00* *00* *01*CARGOSMART *ZZ*YOUR_ID *100712*0118*U*00401*000000001*1*P*~

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use
		Description: Code identifying a group of application related transaction sets				
		Code Name				
		SO Ocean Shipment Information				
GS02	142	Application Sender's Code	M	AN	2/15	Must use
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
		Code Name				
		CARGOSM CargoSmart Functional Group ID ART				
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
		Description: Code identifying party receiving transmission; codes agreed to by trading partners				
		Code Name				
		YOUR_ID Your Functional Group ID				
GS04	373	Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
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 identifying the issuer of the standard; this code is used in conjunction with Data Element 480				
		Code Name				
		X Accredited Standards Committee X12				
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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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				
		<u>Code</u>	<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.

Sample:

```
GS*SO*CARGOSMART*YOUR_ID*20041119*0317*1089*X*004010~
```

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Sample:

ST*323*10890117~

V1 Vessel Identification

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 9

User Option (Usage): Must use

Purpose: To provide vessel details and voyage number

Element Summary:

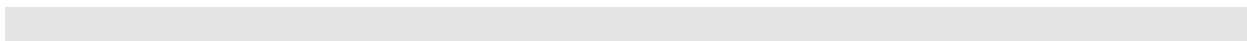
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
V101	597	Vessel Code	C	ID	1/8	Used
		Description: Code identifying vessel				
V102	182	Vessel Name	C	AN	2/28	Used
		Description: Name of ship as documented in "Lloyd's Register of Ships"				
V103	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				
V104	55	Flight/Voyage Number	O	AN	2/10	Used
		Description: Identifying designator for the particular flight or voyage on which the cargo travels				
V105	140	Standard Carrier Alpha Code	M	ID	2/4	Must use
		Description: Standard Carrier Alpha Code				
* V106	249	Vessel Requirement Code	O	ID	1/1	Not used
		Description: Code specifying options for satisfying vessel requirements				
* V107	854	Vessel Type Code	O	ID	2/2	Not used
		Description: Code to determine type of vessel				
V108	897	Vessel Code Qualifier	O	ID	1/1	Used
		Description: Code specifying vessel code source				
		Code	Name			
		C	Ship's Radio Call Signal			
		L	Lloyd's Register of Shipping			
* V109	91	Transportation Method/Type Code	O	ID	1/2	Not used
		Description: Code specifying the method or type of transportation for the shipment				

Syntax Rules:

1. R0102 - At least one of V101 or V102 is required.
2. C0801 - If V108 is present, then V101 is required.

Semantics:

1. V103 is the code identifying the country in which the ship (vessel) is registered.
2. V105 identifies the ocean carrier.



Sample:

V1*8704561*JI XIANG SHAN*PA*424W*ABCU***L~

K1 Remarks

Pos: 030	Max: 2
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format for comment or special instruction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
K101	61	Free-Form Message	M	AN	1/30	Must use
		Description: Free-form information				
K102	61	Free-Form Message	O	AN	1/30	Used
		Description: Free-form information.				

CS Notes:

Service code may be provided through this segment.

Sample:

K1*FTM~

Loop Port or Terminal

Pos: 040	Repeat: 999
Mandatory	
Loop: R4	Elements: N/A

User Option (Usage): Must use

Purpose: Contractual or operational port or point relevant to the movement of the cargo

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	R4	Port or Terminal	M	1		Must use
060	V9	Event Detail	M	5		Must use

R4 Port or Terminal

Pos: 040	Max: 1
Heading - Mandatory	
Loop: R4	Elements: 8

User Option (Usage): Must use

Purpose: Contractual or operational port or point relevant to the movement of the cargo

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
R401	115	Port or Terminal Function Code	M	ID	1/1	Must use
<p>Description: Code defining function performed at the port or terminal with respect to a shipment</p> <p>CS Notes: <i>POD and POL are mandatory. POR and FND are optional.</i></p> <p>Code Name</p> <p>D Port of Discharge (Operational) E Place of Delivery (Contractual) L Port of Loading (Operational) R Place of Receipt (Contractual)</p>						
R402	309	Location Qualifier	C	ID	1/2	Used
<p>Description: Code identifying type of location</p> <p>Code Name</p> <p>D Census Schedule D K Census Schedule K UN United Nations Location Code (UNLOCODE)</p>						
R403	310	Location Identifier	C	AN	1/30	Used
<p>Description: Code which identifies a specific location</p>						
R404	114	Port Name	O	AN	2/24	Used
<p>Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property</p>						
R405	26	Country Code	O	ID	2/3	Used
<p>Description: Code identifying the country</p>						
* R406	174	Terminal Name	O	AN	2/30	Not used
<p>Description: Free-form field for terminal name</p>						
* R407	113	Pier Number	O	AN	1/4	Not used
<p>Description: Identifying number for the pier</p>						
R408	156	State or Province Code	O	ID	2/2	Used
<p>Description: Code (Standard State/Province) as defined by appropriate government agency</p>						

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Sample:

*R4*D*UN*JPISG*ISHIGAKI*JP~*

V9 Event Detail

Pos: 060	Max: 5
Heading - Mandatory	
Loop: R4	Elements: 20

User Option (Usage): Must use

Purpose: To specify information about a specific event

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
V901	304	Event Code	M	ID	3/3	Must use
		Description: Code identifying the event about which a report is made				
		Code Name				
		AAD Actual Arrival at POD				
		CRD Cargo Receipt Date				
		EAD Estimated Arrival Date				
		EDD Estimated Departure Date				
		SLD Sailed (actual departure date/time)				
V902	106	Event	O	AN	1/25	Used
		Description: Free-form description of event				
V903	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				
V904	337	Time	O	TM	4/8	Used
		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)				
* V905	19	City Name	O	AN	2/30	Not used
		Description: Free-form text for city name				
* V906	156	State or Province Code	O	ID	2/2	Not used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
* V907	26	Country Code	O	ID	2/3	Not used
		Description: Code identifying the country				
* V908	641	Status Reason Code	O	ID	3/3	Not used
		Description: Code indicating the status reason				
* V909	154	Standard Point Location Code	X	ID	6/9	Not used
		Description: Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city				
* V910	380	Quantity	X	R	1/15	Not used
		Description: Numeric value of quantity				
* V911	1274	Train Delay Reason Code	X	AN	2/2	Not used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code specifying reason for train delay				
* V912	61	Free-Form Message	O	AN	1/30	Not used
		Description: Free-form information				
* V913	623	Time Code	O	ID	2/2	Not used
		Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
* V914	380	Quantity	O	R	1/15	Not used
		Description: Numeric value of quantity				
* V915	154	Standard Point Location Code	O	ID	6/9	Not used
		Description: Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city				
* V916	86	Total Equipment	O	N0	1/3	Not used
		Description: Total pieces of equipment				
* V917	86	Total Equipment	O	N0	1/3	Not used
		Description: Total pieces of equipment				
* V918	86	Total Equipment	O	N0	1/3	Not used
		Description: Total pieces of equipment				
* V919	81	Weight	O	R	1/10	Not used
		Description: Numeric value of weight				
* V920	82	Length	O	R	1/8	Not used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				

Semantics:

1. V903 is the event date.
2. V904 is the event time.

Sample:

V9*EDD**20041126*0000~

SE Transaction Set Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

1. SE is the last segment of each transaction set.

Sample:

SE*14*10890118~

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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				

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.

Sample:

GE*99*10890000~

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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						

Sample:

IEA*1*10890000~