

304 Shipping Instructions For Customer

Version: 10.0

Company: CargoSmart Limited

Conventions used in this Implementation Guide::

1. The segment hierarchy lists all the segments of ASC X 12 standards. Segments which are not used by CargoSmart are indicated with * sign. You may send these segments, but CS will not use them.
2. 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.
3. The data element summary lists each data element, in order, for the segment. The data element summary includes the following types of information:
 - a. Req - This is the segment identifier with the data element sequence number within the segment.
 - b. 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
 - c. Element Name - This is the name assigned to the data element by ASC X12, in the ASC X12 Data Element Dictionary.
 - d. 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 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
10.0	31 Aug'18	<ul style="list-style-type: none">- Added enum "HB", "CEC", "NEC", "SEC" for N901- Updated QTY02, L008, L009 to Mandatory- Removed R406, R407, V103, W0904, W0908, L405, H104, L305, L307- Updated field length for H202 to 512 characters- Updated maximum use for R2 to 1- Added enum "IX", "PO", "SKU", "TN", "TS" for L0.N901- Updated L502 to Optional
9.2	29 Jan'16	<ul style="list-style-type: none">- Updated field length for V101 to 20 characters- Enabled LoopN7.M702 and LoopN7.M703- Enabled LoopN7.N705- Enabled LoopN7.N9 segment- Added enum "VGM", "VGD", "VGU" for LoopN7.N901- Added enum "R1" for LoopN1.N101
9.1	5 Aug'15	<ul style="list-style-type: none">- Remove Y2 segment- Update samples in each segment
9.0	20 Mar'15	Initial Release

304 Shipping Instructions

Functional Group ID=**SO**

Heading:

	<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>
M	010	ST	Transaction Set Header	M	1		
M	020	B2	Beginning Segment for Shipment Information Transaction	M	1		
M	030	B2A	Set Purpose	M	1		
Not Used	040	Y6	Authentication	O	2		
Not Used	050	G1	Shipment Type Information	O	1		
Not Used	060	G2	Beyond Routing	O	1		
Not Used	070	G3	Compensation Information	O	1		
	080	N9	Reference Identification	O	100		
Not Used	085	YNQ	Yes/No Question	O	10		
M	090	V1	Vessel Identification	M	1		
Not Used	100	V3	Vessel Schedule	O	1		
Not Used	110	M0	Letter of Credit Reference	O	1		
Not Used	115	CUR	Currency	O	1		
LOOP ID - M1						5	
Not Used	120	M1	Insurance	O	1		
Not Used	125	CUR	Currency	O	1		
Not Used	130	M2	Sales/Delivery Terms	O	1		
Not Used	140	C2	Bank ID	O	1		
Not Used	155	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
Not Used	156	DTM	Date/Time Reference	O	20		
LOOP ID - N1						100	
Must Use	160	N1	Name	O	1		
	170	N2	Additional Name Information	O	2		
	180	N3	Address Information	O	2		
	190	N4	Geographic Location	O	1		
	195	G61	Contact	O	3		
LOOP ID - R4						20	
	200	R4	Port or Terminal	O	1		
Not Used	210	DTM	Date/Time Reference	O	15		
Not Used	216	R2A	Route Information with Preference	O	25		
	220	R2	Route Information	O	1		
Not Used	230	K1	Remarks	O	12		
Not Used	240	L11	Business Instructions and Reference Number	O	99		
Not Used	250	H3	Special Handling Instructions	O	6		

Not Used	260	L5	Description, Marks and Numbers	O	999
Not Used	270	X1	Export License	O	25
Not Used	280	X2	Import License	O	5
LOOP ID - C8					20
	290	C8	Certifications and Clauses	O	1
	295	C8C	Certifications Clauses Continuation	O	5
Not Used	300	SUP	Supplementary Information	O	10

Detail:

	<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>
			LOOP ID - LX			999	
	010	LX	Assigned Number	O	1		
Not Used	020	Y2	Container Details	O	10		
			LOOP ID - N7			999	
	030	N7	Equipment Details	O	1		
	035	QTY	Quantity	O	1		
Not Used	038	L4	Measurement	O	1		
Not Used	040	N12	Equipment Environment	O	1		
	050	M7	Seal Numbers	O	5		
Not Used	055	M7A	Seal Number Replacement	O	100		
	060	W09	Equipment and Temperature	O	1		
Not Used	062	LH6	Hazardous Certification	O	6		
			LOOP ID - L1			20	
Not Used	070	L1	Rate and Charges	O	1		
Not Used	080	CUR	Currency	O	1		
Not Used	100	L7	Tariff Reference	O	1		
Not Used	110	X1	Export License	O	25		
Not Used	120	X2	Import License	O	5		
	130	N9	Reference Identification	O	100		
			LOOP ID - H1			10	
Not Used	135	H1	Hazardous Material	O	1		
Not Used	137	H2	Additional Hazardous Material Description	O	10		
			LOOP ID - LH1			100	
Not Used	140	LH1	Hazardous Identification Information	O	1		
Not Used	141	LH2	Hazardous Classification Information	O	4		
Not Used	142	LH3	Hazardous Material Shipping Name	O	10		
Not Used	143	LFH	Freeform Hazardous Material Information	O	25		
Not Used	144	LEP	EPA Required Data	O	3		
Not Used	145	LH4	Canadian Dangerous Requirements	O	1		
Not Used	146	LHT	Transborder Hazardous Requirements	O	3		
Not Used	147	LHR	Hazardous Material Identifying Reference Numbers	O	5		
Not Used	148	PER	Administrative Communications Contact	O	5		
Not Used	151	L11	Business Instructions and Reference Number	O	100		
Not Used	160	K1	Remarks	O	10		

			LOOP ID - PO4		100
Not Used	162	PO4	Item Physical Details	O	1
Not Used	164	MEA	Measurements	O	5
Not Used	166	MAN	Marks and Numbers	O	5
Not Used	168	N9	Reference Identification	O	5
			LOOP ID - L0		120
	170	L0	Line Item - Quantity and Weight	O	1
Not Used	171	MEA	Measurements	O	10
			LOOP ID - PO4		100
Not Used	172	PO4	Item Physical Details	O	1
Not Used	173	MEA	Measurements	O	5
Not Used	174	MAN	Marks and Numbers	O	5
Not Used	175	N9	Reference Identification	O	5
Not Used	176	QTY	Quantity	O	5
	177	L4	Measurement	O	1
Not Used	178	LH6	Hazardous Certification	O	6
			LOOP ID - PAL		3
Not Used	179	PAL	Pallet Information	O	1
Not Used	181	QTY	Quantity	O	1
			LOOP ID - CTP		1
Not Used	183	CTP	Pricing Information	O	1
Not Used	184	CUR	Currency	O	1
M	185	L5	Description, Marks and Numbers	M	999
Not Used	187	LIN	Item Identification	O	1
Not Used	190	L12	Alternate Lading Description	O	20
	195	N9	Reference Identification	O	100
Not Used	197	YNQ	Yes/No Question	O	10
			LOOP ID - L1		20
Not Used	200	L1	Rate and Charges	O	1
Not Used	210	CUR	Currency	O	1
Not Used	230	L7	Tariff Reference	O	1
			LOOP ID - SAC		10
Not Used	235	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	236	CUR	Currency	O	1
			LOOP ID - L9		10
Not Used	237	L9	Charge Detail	O	1
Not Used	238	CUR	Currency	O	1
Not Used	240	X1	Export License	O	25
Not Used	250	X2	Import License	O	5
			LOOP ID - C8		20
Not Used	260	C8	Certifications and Clauses	O	1
Not Used	261	C8C	Certifications Clauses Continuation	O	5
Not Used	265	SUP	Supplementary Information	O	10

			LOOP ID - H1	99	
	270	H1	Hazardous Material	O	1
	280	H2	Additional Hazardous Material Description	O	10
			LOOP ID - LH1	1	
Not Used	290	LH1	Hazardous Identification Information	O	1
Not Used	300	LH2	Hazardous Classification Information	O	4
Not Used	310	LH3	Hazardous Material Shipping Name	O	10
Not Used	320	LFH	Freeform Hazardous Material Information	O	25
Not Used	330	LEP	EPA Required Data	O	3
Not Used	340	LH4	Canadian Dangerous Requirements	O	1
Not Used	350	LHT	Transborder Hazardous Requirements	O	3
Not Used	360	LHR	Hazardous Material Identifying Reference Numbers	O	5
Not Used	370	PER	Administrative Communications Contact	O	5
			LOOP ID - N1	10	
Not Used	380	N1	Name	O	1
Not Used	390	N2	Additional Name Information	O	2
Not Used	400	N3	Address Information	O	2
Not Used	410	N4	Geographic Location	O	1
Not Used	420	G61	Contact	O	3

Summary:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
		LOOP ID - L3			1	
	010	L3	Total Weight and Charges	O	1	
Not Used	011	CUR	Currency	O	1	
Not Used	015	MEA	Measurements	O	5	
	020	PWK	Paperwork	O	50	
Not Used	025	SUP	Supplementary Information	O	999	
		LOOP ID - L1			20	
Not Used	030	L1	Rate and Charges	O	1	
Not Used	040	CUR	Currency	O	1	
		LOOP ID - TDS			1	
Not Used	042	TDS	Total Monetary Value Summary	O	1	
Not Used	043	CUR	Currency	O	1	
		LOOP ID - SAC			10	
Not Used	044	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	045	CUR	Currency	O	1	
		LOOP ID - L9			10	
Not Used	046	L9	Charge Detail	O	1	
Not Used	047	CUR	Currency	O	1	
Not Used	048	ISS	Invoice Shipment Summary	O	5	
Not Used	050	V9	Event Detail	O	10	
	060	K1	Remarks	O	999	

Not Used	070	L11	Business Instructions and Reference Number	O	24
M	080	SE	Transaction Set 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

Syntax Notes:

Comments:

Notes:

Sample:

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ISA*00*                *00*                *ZZ*YOURID                *01*CARGOSMART
*080401*1423*U*00401*000012620*1*P*>~
  
```

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
ISA02	I02	Authorization Information 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)	M AN 10/10
ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information 00 No Security Information Present (No Meaningful Information in I04)	M ID 2/2
ISA04	I04	Security Information 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)	M AN 10/10
ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified ZZ Mutually Defined	M ID 2/2
ISA06	I06	Interchange Sender ID 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 YOURID Your Interchange ID	M AN 15/15
ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified 01 CargoSmart Qualifier	M ID 2/2
ISA08	I07	Interchange Receiver ID 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 CARGOSMART CargoSmart Interchange ID	M AN 15/15

ISA09	I08	Interchange Date Date of the interchange	M	DT 6/6
ISA10	I09	Interchange Time Time of the interchange	M	TM 4/4
ISA11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M	ID 1/1
ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID 5/5
ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M	N0 9/9
ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID 1/1
ISA15	I14	Usage Indicator Code to indicate whether data enclosed by this interchange envelope is test, production or information CS Note: CargoSmart system will not have checking for this field. Only expected P will be sent or received in this field P Production Data	M	ID 1/1
ISA16	I15	Component Element Separator 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	M	AN 1/1

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
Syntax Notes:
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.

Notes: Sample:
 GS*SO*YOURID*CARGOSMART*20080401*1423*12613*X*004010~

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets SO Shipping Instructions	M ID 2/2
GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners YOURID Your Functional Group ID	M AN 2/15
GS03	124	Application Receiver's Code Code identifying party receiving transmission; codes agreed to by trading partners CARGOSMART CargoSmart Functional Group ID	M AN 2/15
GS04	373	Date Date expressed as CCYYMMDD	M DT 8/8
GS05	337	Time 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)	M TM 4/8
GS06	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9
GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard X Accredited Standards Committee X12	M ID 1/2
GS08	480	Version / Release / Industry Identifier Code 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 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M AN 1/12

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Comments:
Notes: Sample:
 ST*304*000012613~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		304 Shipping Instructions	
ST02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set	
		functional group assigned by the originator for a transaction set	

Segment: **B2** Beginning Segment for Shipment Information Transaction
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit basic data relating to shipment information
Syntax Notes:
Comments: 1 B202 is mandatory for transaction set 204.
2 B209 is mandatory for rail transactions.
Notes: Sample:
B2*PP*SCAC**CIX01925**PP~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
B201	375	Tariff Service Code	O ID 2/2
		Code specifying the types of services for rating purposes	
		DD Door-to-Door	
		DP Door-to-Pier	
		PD Pier-to-Door	
		PP Pier-to-Pier	
B202	140	Standard Carrier Alpha Code	M ID 2/4
		Standard Carrier Alpha Code	
		CS Note:	
		Carrier's SCAC should be provided to fulfill EDI requirement. N1_02_93 with N1_01_98 = "CA" will be used for carrier identification	
Must Use	B204	Shipment Identification Number	O AN 1/30
		Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	
		CS Note:	
		Shipment Identification Number will be the key / identifier of a Shipping Instruction for Amendment. [CargoSmart REQUIRED]	
		If N902 (with qualifier N901= SI) is used, same value as B204 should be provided.	
B206	146	Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC Collect	
		MX Mixed	
		PP Prepaid (by Seller)	
B208	86	Total Equipment	O N0 1/3
		Total pieces of equipment	
		CS Note:	
		Total number of equipments	

Segment: **B2A** Set Purpose
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
Syntax Notes:
Comments:
Notes:

Sample:
 B2A*00~

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
B2A01	353	Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		CS Note:	
		For any unrecognized value, CargoSmart will default to Original transaction.	
		00 Original	
		05 Replace	

Segment: **N9** Reference Identification
Position: 080
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 If N906 is present, then N905 is required.
- 2 At least one of N902 or N903 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Comments:

Notes:

CS Note:
Booking Number should always be provided.

Sample:
N9*BN*1001801570~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N901	128	Reference Identification Qualifier	M ID 2/3

Code qualifying the Reference Identification

BM	Bill of Lading Number
BN	Booking Number

CS Note:
Mandatory

CEC	Enterprise Code for Consignee
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CS Note:
For custom manifest purpose

CG	Consignee's Order Number
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CR	Customer Reference Number
----	---------------------------

CT	Contract Number
----	-----------------

EP	Export Permit Number
----	----------------------

FI	File Identifier
----	-----------------

FN	Forwarder's/Agent's Reference Number
----	--------------------------------------

HB	Bill & Hold Invoice Number
----	----------------------------

CS Note:
House Bill of Lading Number

IK	Invoice Number
----	----------------

NEC	Enterprise Code for Notify Party
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CS Note:
For custom manifest purpose

PO	Purchase Order Number
----	-----------------------

Q1	Quote Number
----	--------------

RF	Export Reference Number
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SEC	Enterprise Code for Shipper
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CS Note:
For custom manifest purpose

SI	Shipper's Identifying Number for Shipment (SID)
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CS Note:

Please provide the same value in B2_04_145 to uniquely identify Shipping Instruction. If different values are provided, B2_04_145 will be used to submit to carrier.

SO Shipper's Order (Invoice Number)
TN Transaction Reference Number

CS Note:
Used to provide ITN (Internal Transaction Number), or NDR (No Declaration Required) if ITN is not required for AES (Automated Export Systems)

N902 127 Reference Identification M AN 1/35
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment: **V1** Vessel Identification
Position: 090
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To provide vessel details and voyage number
Syntax Notes: 1 If V108 is present, then V101 is required.
2 At least one of V101 or V102 is required.
Comments:
Notes:

CS Note:
CargoSmart supports ONLY 1 V1 segment.

Sample:
V1*9301794*Jakarta Express*HK*021W*OOLU***L~

Data Element Summary			
Ref.	Data		
Des.	Element	Name	Attributes
V101	597	Vessel Code	C ID 1/20
		Code identifying vessel	
V102	182	Vessel Name	C AN 2/28
		Name of ship as documented in "Lloyd's Register of Ships"	
V104	55	Flight/Voyage Number	O AN 2/10
		Identifying designator for the particular flight or voyage on which the cargo travels	
V105	140	Standard Carrier Alpha Code	O ID 2/4
		Standard Carrier Alpha Code	
		CS Note:	
		Carrier's SCAC should be provided to fulfill EDI requirement.	
		N1_02_93 with N1_01_98="CA" will be used for carrier identification	
V108	897	Vessel Code Qualifier	O ID 1/1
		Code specifying vessel code source	
		C Ship's Radio Call Signal	
		L Lloyd's Register of Shipping	

Segment: **N1** Name
Position: 160
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 If either N103 or N104 is present, then the other is required.
2 At least one of N102 or N103 is required.
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Notes: 2 N105 and N106 further define the type of entity in N101.
CS Note:
For SOLAS VGM (Verified Gross Mass), weighing party can be provided in N1 with N101 = R1. If VGM are obtained by multiple weighing parties, N1_04_67 should be used to specify the container number with check digit and N1_03_66 = "ZZ".
Sample:
N1*N1*SHANGHAI HAOYUN INTL LOGISTICS CO LTD~
N1*CA*OOLU~
N1*R1*LOADING CO PTE*ZZ*CNTR1234567~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element	Entity Identifier Code	M ID 2/3
N101	98	Code identifying an organizational entity, a physical location, property or an individual	
	CA	Carrier	
		CS Note:	
		CargoSmart Required	
	CN	Consignee	
		CS Note:	
		CargoSmart Required	
	FW	Forwarder	
	N1	Notify Party no. 1	
		CS Note:	
		Notify Party	
	N2	Notify Party no. 2	
		CS Note:	
		Additional Notify Party	
	R1	Party to Receive Scale Ticket	
		CS Note:	
		For SOLAS VGM (Verified Gross Mass) weighing party	
	SH	Shipper	
		CS Note:	
		CargoSmart Required	
	SI	SI Party (SI submitter)	
		CS Note:	
		CargoSmart Required	

N102	93	Name Free-form name CS Note: This is mandatory for N1_01_98="CA",this field must be SCAC of the carrier. In case Consignee is pending to confirm, "TO ORDER" (case sensitive) must be provided in this element.	C	AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 25 Carrier's Customer Code ZZ Mutually Defined CS Note: Used when multiple weighing parties in 1 shipment.	C	ID 1/2
N104	67	Identification Code Code identifying a party or other code CS Note: If N1_01_98 = "R1", this element is container number with check digit. For other cases, carrier customer code can be provided. REQUIRED when N1_01_98="SI"	C	AN 2/35

Segment:	N2 Additional Name Information
Position:	170
Loop:	N1 Optional (Must Use)
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Syntax Notes:	
Comments:	
Notes:	<p>CS Note:</p> <p>If N101 = R1 (Weighing party), N2 should be provided as the signautre (name in capitals of the person authorised) to sign the document declaring the verified gross mass.</p> <p>Sample:</p> <p>N2*Canning Company Limited~</p> <p>N2*CHRIS WONG~</p>

Data Element Summary			
<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N201	93	Name	M AN 1/35
		Free-form name	
N202	93	Name	O AN 1/35
		Free-form name	

Segment: **N3 Address Information**
Position: 180
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Comments:
Notes:

CS Note:
 Customer is required to preserve their Party information format in EDI. CargoSmart recommends to preserve a complete word in the same data element.
 The Party information will be truncated if exceeds maximum length supported by carrier

 Sample:
 N3*300 Park Blvd. Suite 350*Itasca, IL 60143 (USA)~ (Correct)
 N3*300 Park Blvd. Suite 350, It*asca, IL 60143 (USA)~ (Incorrect)

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N301	166	Address Information	M AN 1/35
		Address information	
N302	166	Address Information	O AN 1/35
		Address information	

Segment: **N4 Geographic Location**
Position: 190
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Sample:
N4*SAN PEDRO*CA*90731*US~

Data Element Summary			
Ref.	Data		
Des.	Element	Name	Attributes
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	Country Code	O ID 2/3
		Code identifying the country	
N405	309	Location Qualifier	X ID 1/2
		Code identifying type of location	
		D Census Schedule D	
		K Census Schedule K	
		UN United Nations Location Code (UNLOCODE)	
N406	310	Location Identifier	O AN 1/30
		Code which identifies a specific location	

Segment: **G61** **Contact**
Position: 195
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: 1 If either G6103 or G6104 is present, then the other is required.
Comments: 1 G6103 qualifies G6104.
Notes: Sample:
G61*IC*LOS ANGELES OCEAN CARGO EXPORT*TE*(310) 241-1600~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
G6101	366	Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		IC Information Contact	
G6102	93	Name	M AN 1/35
		Free-form name	
G6103	365	Communication Number Qualifier	C ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
G6104	364	Communication Number	C AN 1/80
		Complete communications number including country or area code when applicable	

Segment: **R4 Port or Terminal**
Position: 200
Loop: R4 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Comments: 1 R4 is required for each port to be identified.

Notes: CS Note:
 CargoSmart recommends using UN/ECE location Code to present location, where some carriers request it as mandatory information.

 Sample:
 R4*R*UN*USLAX*LOS ANGELES, CA, USA*US~

Data Element Summary			
Ref.	Data	Name	Attributes
Des.	Element		
R401	115	Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		D Port of Discharge (Operational)	
		CS Note:	
		Mandatory	
		E Place of Delivery (Contractual)	
		CS Note:	
		CargoSmart recommends to provide Place of Delivery as required by some carriers to avoid SI rejection from carrier	
		F Freight Payable At (Contractual)	
		L Port of Loading (Operational)	
		CS Note:	
		Mandatory	
		Q Bill of Lading Origin of Goods (Contractual)	
		R Place of Receipt (Contractual)	
		CS Note:	
		CargoSmart recommends to provide Place of Receipt as required by some carriers to avoid SI rejection from carrier	
		W Bill of Lading Release Office (Operational)	
R402	309	Location Qualifier	C ID 1/2
		Code identifying type of location	
		D Census Schedule D	
		K Census Schedule K	
		UN United Nations Location Code (UNLOCODE)	
		CS Note:	
		CargoSmart highly recommends UN/ECE code, which generally accepted by carriers.	
R403	310	Location Identifier	C AN 1/30

Code which identifies a specific location

CS Note:

This field is mandatory for R401="L" and R401="D"

R404	114	Port Name	O AN 2/60
		Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	
R405	26	Country Code	O ID 2/3
		Code identifying the country	
R408	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	

Segment: **R2** **Route Information**
Position: 220
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify carrier and routing sequences and details
Syntax Notes: 1 If R208 is present, then R207 is required.
Comments:
Notes:

Sample:
 R2*OOLU*O*****02~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
R201	140	Standard Carrier Alpha Code Standard Carrier Alpha Code	M ID 2/4
R202	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement O Origin Carrier (Air, Motor, or Ocean)	M ID 1/2
R212	56	Type of Service Code Code specifying extent of transportation service requested 02 FCL/FCL 03 LCL/LCL 82 FCL/LCL 83 LCL/FCL	O ID 2/2

Segment: **C8** **Certifications and Clauses**
Position: 290
Loop: C8 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify applicable certifications and clauses
Syntax Notes: 1 At least one of C803 or C802 is required.
Comments:
Notes: Sample:
C8**20*No Shipper's Export Declaration Required~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
C802	246	Certification/Clause Code	C ID 2/4
		Code identifying certification/clause information	
		01 Shipper's Load and Count	
		02 Shipper's Load, Stowage and Count	
		03 Laden on Board	
		04 Laden on Board Vessel	
		11 Memo Bill of Lading Only	
		20 No Shipper's Export Declaration Required (Section 30.39)	
		22 On Board Rail	
		24 On Board Vessel	
		25 Received For Shipment	
		34 Laden on Board Named Vessel	
		CC Custom	
C803	247	Certification/Clause Text	C AN 2/60
		Free-form description of commercial invoice certification/clause	

Segment: **C8C** **Certifications Clauses Continuation**
Position: 295
Loop: C8 Optional
Level: Heading
Usage: Optional
Max Use: 5
Purpose: To specify additional applicable certifications and clauses
Syntax Notes:
Comments:
Notes:

Sample:
 C8C*CERT CLAUSE TEXT~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
C8C01	247	Certification/Clause Text	M AN 2/60
		Free-form description of commercial invoice certification/clause	
C8C02	247	Certification/Clause Text	O AN 2/60
		Free-form description of commercial invoice certification/clause	
C8C03	247	Certification/Clause Text	O AN 2/60
		Free-form description of commercial invoice certification/clause	

Segment: **LX** Assigned Number
Position: 010
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Comments:
Notes:

Sample:
 LX*1~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
LX01	554	Assigned Number	M N0 1/6
		Number assigned for differentiation within a transaction set	

Segment: **N7** **Equipment Details**
Position: 030
Loop: N7 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the equipment
Syntax Notes: 1 If either N703 or N704 is present, then the other is required.
Comments: 1 N701 is mandatory for rail transactions.
2 N720 and N721 are expressed in inches.
Notes: CS Note:
CargoSmart accepts only one L0 loop in each LX loop, while N7 loop can be multiple.
Please refer the detailed container load plan in N7 and L0 loop at the end of
implementation guideline.
Sample:
N7*XXXX*851662*7616.21*G*****58.825*X*N*****K*3*****42G0~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N701	206	Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
N702	207	Equipment Number	M AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
N703	81	Weight	C R 1/10
		Numeric value of weight	
N704	187	Weight Qualifier	C ID 1/2
		Code defining the type of weight	
		G Gross Weight	
N705	167	Tare Weight	O N0 3/8
		Weight of the equipment	
N708	183	Volume	C R 1/8
		Value of volumetric measure	
N709	184	Volume Unit Qualifier	C ID 1/1
		Code identifying the volume unit	
		E Cubic Feet	
		X Cubic Meters	
N710	102	Ownership Code	O ID 1/1
		Code indicating the relationship of equipment to carrier or ownership of equipment	
		N Not Customer Owned or Leased	
		S Customer Owned or Leased	
		CS Note: Carrier Provided Container	
		CS Note: Shipper Owned Container (SOC)	
N717	188	Weight Unit Code	O ID 1/1
		Code specifying the weight unit	

			E	Metric Ton	
			K	Kilograms	
			L	Pounds	
	N718	761	Equipment Number Check Digit		O N0 1/1
			Number which designates the check digit applied to a piece of equipment		
Must Use	N722	24	Equipment Type		O ID 4/4
			Code identifying equipment type		
			CS Note:		
			Mandatory		

Segment: QTY Quantity
Position: 035
Loop: N7 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
Comments:
Notes:

CS Note:
 To indicate the number of outer package of the commodity that is loaded into the container

Sample:
 QTY*39*20~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
QTY01	673	Quantity Qualifier	M ID 2/2
		Code specifying the type of quantity	
		39 Shipped Quantity	
QTY02	380	Quantity	M R 1/15
		Numeric value of quantity	

CS Note:
 Number of Outer package which the cargo packed into the container. Must be valid whole number with no decimal and commas

Segment: **M7** Seal Numbers
Position: 050
Loop: N7 Optional
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).
Notes: CS Note:
Maximum 35 characters for the seal number can be used. M702 and M703 will be used if seal number is longer than 15 characters.

Sample:
M7*284520****CA~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M701	225	Seal Number	M AN 2/15
		Unique number on seal used to close a shipment	
M702	225	Seal Number	O AN 2/15
		Unique number on seal used to close a shipment	
M703	225	Seal Number	O AN 2/15
		Unique number on seal used to close a shipment	
M705	98	Entity Identifier Code	O ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		CS Note:	
		Required for carrier and shipper as seal issuer	
		CA Carrier	
		SH Shipper	

Segment: **W09** Equipment and Temperature
Position: 060
Loop: N7 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To relate equipment type and required temperatures
Syntax Notes: 1 If either W0902 or W0903 is present, then the other is required.
2 If either W0904 or W0905 is present, then the other is required.
Comments:
Notes: Sample:
W09*CZ*0*CE**4V****10~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
W0901	40	Equipment Description Code	M ID 2/2
		Code identifying type of equipment used for shipment	
		CZ Refrigerated Container	
W0902	408	Temperature	C R 1/4
		Temperature	
W0903	355	Unit or Basis for Measurement Code	C ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CE Centigrade, Celsius	
		FA Fahrenheit	
W0905	355	Unit or Basis for Measurement Code	C ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CS Note:	
		For reefer container air flow unit	
		2L Cubic Feet Per Minute	
		4V Cubic Meter Per Hour	
W0906	3	Free Form Message	O AN 1/60
		Free-form text	
		CS Note:	
		Remarks for Reefer Containers	
W0909	380	Quantity	O R 1/15
		Numeric value of quantity	
		CS Note:	
		For reefer container air flow value	

Segment: **N9** **Reference Identification**
Position: 130
Loop: N7 Optional
Level: Detail
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 If N906 is present, then N905 is required.
- 2 At least one of N902 or N903 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Comments:

Notes:

CS Note:

To specify the SOLAS VGM (Verified Gross Mass) value, unit and measurement method. If SOLAS VGM value is provided, VGM unit and measurement method should also be provided.

Sample:

N9*VGM*5212.6~

N9*VGD*1~

N9*VGU*K~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
N901	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		VGD Verified Gross Mass Measurement Method	
		VGM Verified Gross Mass Value	
		VGU Verified Gross Mass Unit	
N902	127	Reference Identification	X AN 1/35
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		CS Note:	
		For VGM Measurement method,	
		1 - Method 1	
		2 - Method 2	
		For VGM Unit,	
		K - Kilograms	
		L - Pounds	

Segment:	L0	Line Item - Quantity and Weight
Position:	170	
Loop:	L0	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data	
Syntax Notes:	1 If L011 is present, then L004 is required. 2 If either L002 or L003 is present, then the other is required. 3 If either L004 or L005 is present, then the other is required. 4 If either L006 or L007 is present, then the other is required. 5 If either L008 or L009 is present, then the other is required. 6 If either L013 or L015 is present, then the other is required.	
Comments:	1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.	
Notes:	CS Note: CargoSmart accepts only one L0 loop in each LX loop, while N7 loop can be multiple. Please refer the detailed container load plan in N7 and L0 loop at the end of implementation guideline. Sample: L0*1***19136*G*16.550*X*17*PCS**L~	

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
L001	213	Lading Line Item Number	O	N0 1/3
		Sequential line number for a lading item		
L004	81	Weight	C	R 1/10
		Numeric value of weight		
L005	187	Weight Qualifier	C	ID 1/2
		Code defining the type of weight		
		G Gross Weight		
		N Actual Net Weight		
L006	183	Volume	C	R 1/8
		Value of volumetric measure		
L007	184	Volume Unit Qualifier	C	ID 1/1
		Code identifying the volume unit		
		E Cubic Feet		
		X Cubic Meters		
Must Use	L008	Lading Quantity	C	N0 1/7
		Number of units (pieces) of the lading commodity		
Must Use	L009	Packaging Form Code	C	ID 3/3
		Code for packaging form of the lading quantity		
		CS Note: Please refer to the Appendix for the full list.		
L011	188	Weight Unit Code	O	ID 1/1
		Code specifying the weight unit		
		E Metric Ton		

K	Kilograms
L	Pounds

Segment: **L4** Measurement
Position: 177
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe physical dimensions and quantities
Syntax Notes:
Comments:
Notes:

CS Note:
 Required for Awkward Cargo.

Sample:
 L4*1*1*1*X*7~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
L401	82	Length	M R 1/8
		Largest horizontal dimension of an object measured when the object is in the upright position	
L402	189	Width	M R 1/8
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
L403	65	Height	M R 1/8
		Vertical dimension of an object measured when the object is in the upright position	
L404	90	Measurement Unit Qualifier	M ID 1/1
		Code specifying the linear dimensional unit	
		C Centimeters	
		N Inches	

Segment:	L5 Description, Marks and Numbers
Position:	185
Loop:	L0 Optional
Level:	Detail
Usage:	Mandatory
Max Use:	999
Purpose:	To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:	<ol style="list-style-type: none"> 1 If L507 is present, then L506 is required. 2 If either L503 or L504 is present, then the other is required. 3 If either L508 or L509 is present, then the other is required.
Comments:	1 L502 may be used to send quantity information as part of the product description.
Notes:	<p>CS Note:</p> <p>Each L503 supports only 1 HS code. For multiple HS codes within same L0 group, multiple L5 segments should be provided</p> <p>Sample:</p> <p>L5*2*BIO-CHLOR IN 25KG BAGS~</p>

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
L501	213	Lading Line Item Number	O N0 1/3
		Sequential line number for a lading item	
L502	79	Lading Description	O AN 1/50
		Description of an item as required for rating and billing purposes	
L503	22	Commodity Code	C AN 1/30
		Code describing a commodity or group of commodities	
L504	23	Commodity Code Qualifier	C ID 1/1
		Code identifying the commodity coding system used for Commodity Code	
		J Harmonized System-Based Schedule B	
L506	87	Marks and Numbers	O AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	

Segment: **N9** **Reference Identification**
Position: 195
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1** If N906 is present, then N905 is required.
- 2** At least one of N902 or N903 is required.
- 3** If either C04003 or C04004 is present, then the other is required.
- 4** If either C04005 or C04006 is present, then the other is required.

Comments:

Data Element Summary			
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N901	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		IX Item Number	
		PO Purchase Order Number	
		SKU Stock Keeping Unit	
		TN Transaction Reference Number	
		TS Tariff Number	
N902	127	Reference Identification	X AN 1/35
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **H1 Hazardous Material**
Position: 270
Loop: H1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify information relative to hazardous material
Syntax Notes: 1 If either H107 or H108 is present, then the other is required.
Comments: 1 H107 is the lowest temperature for hazardous materials.
Notes: CS Note:
H1 Loop is required for Dangerous Cargo

Sample:
H1*1263*3*I*PAINT*604-986-4617****III~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
H101	62	Hazardous Material Code	M AN 4/10
		Code relating to hazardous material code qualifier for regulated hazardous materials	
H102	209	Hazardous Material Class Code	O AN 1/4
		Code specifying the kind of hazard for a material	
H103	208	Hazardous Material Code Qualifier	O ID 1/1
		Code which qualifies the Hazardous Material Class Code (209)	
		I Intergovernmental Maritime Organization (IMO) Code	
H105	63	Hazardous Material Contact	O AN 1/24
		Phone number and name of person or department to contact in case of emergency	
H106	200	Hazardous Materials Page	O AN 1/6
		The United Nations page number as required for the international transport of hazardous materials	
H107	77	Flashpoint Temperature	C N 1/3
		The flashpoint temperature for hazardous material	
H108	355	Unit or Basis for Measurement Code	C ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CE Centigrade, Celsius	
		FA Fahrenheit	
H109	254	Packing Group Code	O ID 1/3
		Code indicating degree of danger in terms of Roman number I, II or III	

Segment: **H2 Additional Hazardous Material Description**

Position: 280

Loop: H1 Optional

Level: Detail

Usage: Optional

Max Use: 10

Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

Syntax Notes:

Comments:

Notes:

CS Note:

H2_02 will be handled as supplement information for related hazard material if below qualifier is provided in H2_01

EMS: EMS number

PSN: Proper Shipping Name

Sample:

H2*PSN*PROPER SHIPPING NAME~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
H201	64	Hazardous Material Description	M AN 2/30
		Material name, special instructions, and phone number if any	
H202	274	Hazardous Material Classification	O AN 1/512
		Free-form description of hazardous material classification or division or label requirements	

Segment: **L3** Total Weight and Charges

Position: 010

Loop: L3 Optional

Level: Summary

Usage: Optional

Max Use: 1

Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

Syntax Notes:

- 1 If L312 is present, then L301 is required.
- 2 If either L301 or L302 is present, then the other is required.
- 3 If either L303 or L304 is present, then the other is required.
- 4 If either L309 or L310 is present, then the other is required.
- 5 If either L314 or L315 is present, then the other is required.

Comments:

Notes:

Sample:
L3*23276.65*G*****16*X*1*K~

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
L301	81	Weight	X R 1/10
		Numeric value of weight	
L302	187	Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		G Gross Weight	
L309	183	Volume	X R 1/8
		Value of volumetric measure	
L310	184	Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		E Cubic Feet	
		X Cubic Meters	
L311	80	Lading Quantity	O N0 1/7
		Number of units (pieces) of the lading commodity	
L312	188	Weight Unit Code	O ID 1/1
		Code specifying the weight unit	
		K Kilograms	
		L Pounds	

Segment: **PWK** **Paperwork**
Position: 020
Loop: L3 Optional
Level: Summary
Usage: Optional
Max Use: 50
Purpose: To identify the type or transmission or both of paperwork or supporting information
Syntax Notes:
Comments:

- 1 PWK05 and PWK06 may be used to identify the addressee by a code number.
- 2 PWK07 may be used to indicate special information to be shown on the specified report.
- 3 PWK08 may be used to indicate action pertaining to a report.

Notes: CS Note:
 Only 1 of document type (BL, SW or ZZ) should be provided. ZZ is supported by some carriers only with specific usage and not for BL print purpose, e.g. custom manifest purpose.

Sample:
 PWK*BL*EI*0~

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
PWK01	755	Report Type Code	C ID 2/2
		Code indicating the title or contents of a document, report or supporting item	
		CS Note:	
		CargoSmart supports all 4 types below, while only few carriers extends support for House Bill of lading(ZZ)	
		BC	Bill of Lading Copy
		BL	Bill of Lading
		CS Note:	
		For Original Bill of Lading, please use BL	
		SW	Sea Waybill
		ZZ	Mutually Defined
		CS Note:	
		House Bill of Lading	
PWK02	756	Report Transmission Code	O ID 1/2
		Code defining timing, transmission method or format by which reports are to be sent	
		CS	CargoSmart Online BL
		EI	EDI transmission
		EL	Electronically Only
		FX	By Fax
		OT	Others
		PO	Printed Original Required
PWK03	757	Report Copies Needed	O N0 1/2
		The number of copies of a report that should be sent to the addressee	
PWK07	352	Description	O AN 1/80
		A free-form description to clarify the related data elements and their content	
		CS Note:	
		For freighted bill of lading, please provide FREIGHTED	

Segment: **K1** Remarks
Position: 060
Loop: L3 Optional
Level: Summary
Usage: Optional
Max Use: 999
Purpose: To transmit information in a free-form format for comment or special instruction
Syntax Notes:
Comments:
Notes:

Sample:
 K1*FCL/FCL Shippers Weight, Load,*Stowage and Count Non Negotia~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
K101	61	Free-Form Message Free-form information	M AN 1/30
K102	61	Free-Form Message Free-form information	O AN 1/30

Segment: **SE** Transaction Set Trailer
Position: 080
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
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)
Syntax Notes:
Comments: 1 SE is the last segment of each transaction set.

Notes: Sample:
 SE*43*000017132~

Data Element Summary			
Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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
Syntax Notes:
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.
Notes: Sample:
 GE*1*12613~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Transaction Sets Included	M N0 1/6
		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
		Assigned number originated and maintained by the sender	

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

Syntax Notes:

Comments:

Notes:

Sample:

IEA*1*000012620~

Data Element Summary

Ref.	Data		
Des.	Element	Name	Attributes
IEA01	I16	Number of Included Functional Groups	M N0 1/5
		A count of the number of functional groups included in an interchange	
IEA02	I12	Interchange Control Number	M N0 9/9
		A control number assigned by the interchange sender	

Detailed Guide for Container Load Plan

Usage on LX Loop, N7 Loop and L0 Loop

This part will explain the usage for equipment (container), package (cargo) and container load plan relationship under LX, N7 and L0 Loop (LX to L5 Segment). In each LX group, only 1 L0 should be provided in order to submit the correct container & cargo information to carrier.

Case 1: Single Cargo with Single Container

Only 1 container and only 1 cargo

LX*1~ N7*XXXX*812098*23276.6*G****16*X*****K*1****45G0~ QTY*39*20~ M7*AB5954850****SH~ L0*1***23276.6*G*16*X*20*PX**K~ L5*1*AES SEE BODY*903210*J**MARKS AND NUMBER1~ L5*1* CARGO X in CONTAINER A ~	}	Container A with Cargo X
--	---	--------------------------

Case2: Multiple Cargoes with Single Container

2 different cargoes loaded into 1 container. Please note that the total container weight, volume and package quantity will be calculated by CargoSmart when multiple cargoes are loaded into 1 container, i.e. the total weight of container in below example will be 13276.6+9065.8=22342.4kg.

LX*1~ N7*XXXX*812098*13276.6*G****16*X*****K*1****45G0~ QTY*39*12~ M7*AB5954850****SH~ L0*1***13276.65*G*16*X*12*PX**K~ L5*1*AES SEE BODY*903210*J**MARKS AND NUMBER1~ L5*1*CARGO X~	}	Cargo X
LX*2~ N7*XXXX*812098*9065.8*G****16*X*****K*1****45G0~ QTY*39*10~ M7*AB5954850****SH~ L0*2***9065.8*G*16*X*10*PX**K~ L5*2*AES SEE BODY*903211*J**MARKS AND NUMBER2~ L5*2*CARGO Y ~	}	Cargo Y

Case3: Single Cargo with Multiple Containers

Same cargo loaded into 2 containers.

LX*1~
N7*XXXX*812098*23276.6*G****36*X*****K*1****45G0~
QTY*39*22~
M7*AA5954848****SH~
N7*XXXX*812000*20000*G****30*X*****K*3****42G0~
QTY*39*18~
M7*AB5954850****SH~
L0*1***43276.6*G*66*X*40*PX**K~
L5*1*AES SEE BODY*903210*J**MARKS AND NUMBER~
L5*1*1 SKID STC: STEEL BARS, NOS~
L5*1*NOEEI 30.37(A) ~

} Container A
}
}
} Container B

Case4: Multiple Cargoes with Multiple Containers

2 different cargoes distributed within 2 containers. Please note that the total container weight, volume and package quantity will be calculated by CargoSmart when multiple cargoes are loaded into 1 container, i.e. the total weight of container A in below example will be 16000.2+13076.6=29076.8kg.

LX*1~
N7*XXXX*812098*16000.2*G****18*X*****K*1****45G0~
QTY*39*15~
M7*AB5954850****SH~
N7*XXXX*812000*6091*G****20*X*****K*3****42G0~
QTY*39*10~
M7*AB5954851****SH~
L0*1***22091.2*G*38*X*25*PX**K~
L5*1*AES SEE BODY*903210*J**MARKS AND NUMBER1~
L5*1*CARGO X~
LX*2~
N7*XXXX*812098*13076.6*G****15*X*****K*1****45G0~
QTY*39*12~
M7*AB5954850****SH~
N7*XXXX*812000*10000*G****25*X*****K*3****42G0~
QTY*39*18~
M7*AB5954851****SH~
L0*2***23076.6*G*40*X*30*PX**K~
L5*2*AES SEE BODY*903211*J**MARKS AND NUMBER2~
L5*2*CARGO Y~

} Container A
}
}
} Container B
} Cargo X

} Container A
}
}
} Container B
} Cargo Y