301 Confirmation (Ocean)

Functional Group ID=RO

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Confirmation (Ocean) Transaction Set (301) 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 confirm space, container, and equipment availability in response to the Reservation (Booking Request) (Ocean) Transaction Set (300); or to notify other parties such as terminal operators or other ocean carriers.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	005	ISA	Interchange Control Header	M	1		
M	008	GS	Functional Group Header	M	1		
M	010	ST	Transaction Set Header	M	1		
M	020	B1	Beginning Segment for Booking or Pick-up/Delivery	M	1		
M	025	G61	Contact	M	9		
Not Used	030	Y6	Authentication	O	2		
	040	Y3	Space Confirmation	O	1		
			LOOP ID - Y4			999	
M	050	Y4	Container Release	M	1		
	051	W09	Equipment and Temperature	O	27		
	054	N9	Reference Identification	O	100		
Not Used	055	R2A	Route Information with Preference	O	25		
			LOOP ID - N1			17	
M	060	N1	Name	M	1		
Not Used	070	N2	Additional Name Information	O	1		
	080	N3	Address Information	O	2		
	090	N4	Geographic Location	O	1		
	100	G61	Contact	O	9		
	105	DTM	Date/Time Reference	O	2		
			LOOP ID - R4			6	
M	110	R4	Port or Terminal	M	1		
	120	DTM	Date/Time Reference	O	3		
Not Used	130	W09	Equipment and Temperature	O	1		
	140	H3	Special Handling Instructions	O	4		
Not Used	150	EA	Equipment Attributes	O	5		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LX			999	
M	010	LX	Assigned Number	M	1		
M	020	N7	Equipment Details	M	1		
Not Used	021	W09	Equipment and Temperature	O	1		
Not Used	030	K1	Remarks	O	10		
			LOOP ID - L0			120	
M	035	L0	Line Item - Quantity and Weight	M	1		
			LOOP ID - PO4			100	
M	040	PO4	Item Physical Details	M	1		
	043	MEA	Measurements	O	2		
	047	L5	Description, Marks and Numbers	O	1		
	051	L4	Measurement	O	1		
Not Used	054	L1	Rate and Charges	O	1		
			LOOP ID - H1			99	
M	067	H1	Hazardous Material	M	1		
	074	H2	Additional Hazardous Material Description	O	18		
	080	V1	Vessel Identification	O	2		
Not Used	090	V9	Event Detail	O	10		
	100	K1	Remarks	O	999		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	SE	Transaction Set Trailer	M	1		
	020	GE	Functional Group Trailer	O	1		
	030	IEA	Interchange Control Trailer	O	1		

Segment: **ISA** **Interchange Control Header**
Position: 005
Loop:
Level: Heading
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:
Semantic Notes:
Comments:
Notes: ISA*00* *00* *ZZ*MSCU *ZZ*CUSTOMER_ID *020329*0930*U*00401*000010000*0*P*^~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**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**
M	**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**
M	**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**
M	**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**
M	**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**
M	**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 MSCU	**M AN 15/15**
M	**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 ZZ Mutually Defined	**M ID 2/2**
M	**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 Customer EDI_ID	**M AN 15/15**
M	**ISA09**	**I08**	**Interchange Date** Date of the interchange YYMMDD format	**M DT 6/6**
M	**ISA10**	**I09**	**Interchange Time** Time of the interchange	**M TM 4/4**

			HHMM format		
M	**ISA11**	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**
			Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer		
			U — U.S. EDI Community of ASC X12, TDCC, and UCS		
M	**ISA12**	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**
			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	**ISA13**	**I12**	**Interchange Control Number**	**M**	**N0 9/9**
			A control number assigned by the interchange sender		
M	**ISA14**	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**
			Code sent by the sender to request an interchange acknowledgment (TA1)		
			0 — No Acknowledgment Requested		
M	**ISA15**	**I14**	**Usage Indicator**	**M**	**ID 1/1**
			Code to indicate whether data enclosed by this interchange envelope is test, production or information		
			P — Production Data		
			T — Test Data		
M	**ISA16**	**I15**	**Component Element Separator**	**M**	**AN 1/1**
			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		

Segment: **GS** **Functional Group Header**
Position: 008
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax Notes:
Semantic Notes:
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.
Notes: GS*RO*MSCU*CUSTOMER_ID*20020329*0930*1000*X*004010

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets RO Ocean Booking Information (300, 301, 303)	**M**	**ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners MSCU	**M**	**AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners Customer EDI ID	**M**	**AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD	**M**	**DT 8/8**
M	**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) Time expressed in 24-hour clock time.	**M**	**TM 4/8**
M	**GS06**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**N0 1/9**
M	**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**
M	**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:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: ST*301*0001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 301 Confirmation (Ocean)	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	**M AN 4/9**

Segment: **B1** **Beginning Segment for Booking or Pick-up/Delivery**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes:
Semantic Notes: **1** B103 is the booking date accepted by the carrier.
Comments:
Notes: B1**SHIPMENTID123*20020329*A

Bookings in Confirmed state cannot be placed in Pending state.

Customer Shipment ID will be sent if provided on the original Customer booking request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**B101**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
	B102	**145**	**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)		
			Customer Shipment ID		
	B103	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		
			Date of Booking Activity (B104)		
M	**B104**	**558**	**Reservation Action Code**	**M**	**ID 1/1**
			Code identifying action on reservation or offering		
			Supplied Values: A Reservation Accepted/Confirmed B Conditional Acceptance D Reservation Cancelled/Declined P Pending R Replaced		
X	**B105**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**

Segment: **G61** **Contact**
Position: 025
Loop:
Level: Heading
Usage: Mandatory
Max Use: 9
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.
Semantic Notes:
Comments:
Notes: G61*IC*GENERAL CONTACT NAME*TE*(901) 338-5598~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**G6101**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named supplied value: IC Information Contact	**M**	**ID 2/2**
M	**G6102**	**93**	**Name** Free-form name Free-form name Only 35 characters will be Sent	**M**	**AN 1/35**
	G6103	**365**	**Communication Number Qualifier** Code identifying the type of communication number Supplied Values: EM Electronic Mail FX Facsimile TE Telephone	**C**	**ID 2/2**
	G6104	**364**	**Communication Number** Complete communications number including country or area code when applicable	**C**	**AN 1/80**
X	**G6105**	**443**	**Contact Inquiry Reference**	**O**	**AN 1/20**

Segment: **Y3** **Space Confirmation**
Position: 040
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify confirmation information for space booking including numbers, dates, and load time
Syntax Notes:
Semantic Notes: **1** Y307 is the required pier date.
2 Y308 is the load time.
Comments:
Notes: Y3*******20090619*2300**PP~

The reservation request information entered in this segment will also be the haulage arrangement information applied to all equipment in the shipment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**Y301**	**13**	**Booking Number**	**O**	**AN 1/17**
X	**Y302**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**Y303**	**373**	**Date**	**O**	**DT 8/8**
X	**Y304**	**373**	**Date**	**O**	**DT 8/8**
X	**Y305**	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
X	**Y306**	**112**	**Pier Name**	**O**	**AN 2/14**
	Y307	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		
			Date by which SI for the booking should be received by the carrier Format CCYYMMDD. All dates must be within 400 days of the current date.		
	Y308	**337**	**Time**	**C**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM		
			Must be sent together with the SI Due Date (Y307). SI Due Date Time. Time expressed in 24-hour clock time as follows: HHMM		
X	**Y309**	**91**	**Transportation Method/Type Code**	**O**	**ID 1/2**
	Y310	**375**	**Tariff Service Code**	**O**	**ID 2/2**
			Code specifying the types of services for rating purposes		
			The X12 standard does not provide a field to define Carrier/Merchant Haulage so this element will be used for that purpose: If PP then Merchant haulage If DD, DP or PD then Carrier haulage MSC will always supply one of the following values:		
			DD Door-to-Door Rate applies for shipments in door-to-door service Rules: Both Ship-from and Ship-to addresses will always be sent for Door-to-Door haulage. Also Carrier Haulage at Export, Carrier Haulage at Import		

				The carrier is responsible for the intermodal carriage of cargo including both the pre-carriage and the on-carriage		
			DP	Door-to-Pier Rate applies for shipments in door-to-ocean carrier's port/terminal pier service Rules: Ship-from address will always be sent for Doorto-Pier haulage. Also Carrier Haulage at Export, Merchant Haulage at Import. The carrier is responsible for the intermodal carriage of cargo including the pre-carriage, but excluding the oncarriage		
			PD	Pier-to-Door Rate applies for shipments in pier-to-door service Rules: Ship-to address will always be sent for Pier-toDoor haulage. Also Merchant Haulage at Export, Carrier Haulage at Import The carrier is responsible for the intermodal carriage of cargo including the on-carriage, but excluding the precarriage.		
			PP	Pier-to-Pier All cargo other than that specified in codes HH, HP, or PH whether shipped in containers or otherwise Rules: No addresses are necessary for Pier-to-Pier haulage. Merchant Haulage at Export, Merchant Haulage at Import. The carrier of intermodal cargo is only responsible for the main carriage		
X	**Y311**	**623**	**Time Code**		**O**	**ID 2/2**

Segment: **Y4** **Container Release**
Position: 050
Loop: Y4 Mandatory
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit information relative to containers available for release
Syntax Notes:
Semantic Notes:
1 Y403 is the date of container availability for pickup.
2 Y404 is the Standard Point Location Code (SPLC) of the container pick-up location.
3 Y407 identifies the carrier to whom containers will be released, if known.
Comments:
Notes: Y4*****2*42G0~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	Y401	13	**Booking Number**	O	AN 1/17
X	Y402	13	**Booking Number**	O	AN 1/17
X	Y403	373	**Date**	O	DT 8/8
X	Y404	154	**Standard Point Location Code**	O	ID 6/9
M	Y405	95	**Number of Containers**	M	N0 1/4
			Number of shipping containers		
			This element will always be supplied. If the container number (Actual or Logical) is provided then the container number must be equal to 1.		
M	Y406	24	**Equipment Type**	M	ID 4/4
			Code identifying equipment type		
			MSC will always supply the ISO equipment codes.		
X	Y407	140	**Standard Carrier Alpha Code**	O	ID 2/4
X	Y408	309	**Location Qualifier**	O	ID 1/2
X	Y409	310	**Location Identifier**	O	AN 1/30
	Y410	56	**Type of Service Code**	O	ID 2/2
			Code specifying extent of transportation service requested		
			Acceptable values are:		
			01 Shipper Owned		
			02 Carrier Owned		

Segment: **W09** **Equipment and Temperature**
Position: 051
Loop: Y4 Mandatory
Level: Heading
Usage: Optional
Max Use: 27
Purpose: To relate equipment type and required temperatures
Syntax Notes:
1 If either W0902 or W0903 is present, then the other is required.
Semantic Notes:
1 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
2 W0908 is the humidity percentage.
3 W0909 is the number of air exchanges per hour.
Comments:
Notes:

W09*CN*-15*FA***TCI-Reefer Comments**40*2

W0902 is Set Temperature (if temperature is negative this field must be signed with a - sign therefore temperature can be set from -99 to 998

Unsigned temperature is assumed to be positive.

W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.

W0908 is the humidity percentage.

W0909 is the number of air exchanges per hour.

If a reefer container is used, but refrigeration is not needed, W0902 will be set to 999, which indicates no set temperature (Non Active Reefer).

This segment must be provided when reefer containers specifically identified by equipment type code (Y406) are provided and the temperature regulation unit is to be active.

This segment may be provided when hybrid (e.g. tanks) containers specifically identified by equipment type code (Y406) are provided and the temperature regulation unit is to be active.

Temperature is stored at MSC as provided by the carrier.

If number of containers (Y405) is greater than 1, the information in this segment will be applied to all containers in the group.

Set Temperature must conform to below rules: - Decimal must be represented using the dot ('.'). - Temperature values must not include group separators. - Temperature must contain 3 valid Numeric Digits, and may also contain a decimal and minus sign ('-'). - Maximum Precision of Temperature is 1. - Negative Temperature must include a Minus sign ('-') and it must be in the first position of the element. - Positive Temperature must be Unsigned.

Valid examples: 005, -005, -05.5, 55.2, 45.0

Invalid examples: 1, -5, -05, 5.5, 23-, 35, .3, 5.04, +045

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**W0901**	**40**	**Equipment Description Code**	**M**	**ID 2/2**
			Code identifying type of equipment used for shipment		
			Accepted Values:		
			CN Container		
	W0902	**408**	**Temperature**	**C**	**R 1/4**
			Temperature		
			Reefer temperature. For NON ACTIVE reefer, set the temperature to 999.		
	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 Mandatory if W0902 is provided		
			Accepted Values :		
			CE Centigrade, Celsius		
			FA Fahrenheit		
X	**W0904**	**408**	**Temperature**	**O**	**R 1/4**
X	**W0905**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
	W0906	**3**	**Free Form Message**	**O**	**AN 1/60**
			Free-form text		
			Equipment/Reefer Comments. The first 4 characters of the comments is the code that identifies equipment information provided in the free form element. A. Temperature Control Instructions 1. ECA: This is an indicator/flag to indicate that the Equipment Atmosphere must be controlled. When ECA is sent, only the first 3 characters of this element are processed. 2. FRZ: This is an indicator/flag to indicate that Super Freezer Service is requested. When FRZ is sent, only the first 3 characters of this element are processed. 3. GEN: This is an indicator/flag to indicate that GENSET is required. When GEN is sent, only the first 3 characters of this element are processed. 4. HUM: This is an indicator/flag to indicate that the Humidity in the Equipment must be controlled. When HUM is sent, only the first 3 characters of this element are processed. 5. ICP–: Number of USD probes for ICT service. This code is followed by a numeric value that implies the number of USD probes. 6. ICT: This is an indicator/flag to indicate that In transit Cold Sterilization is required. When ICT is sent, only the first 3 characters of this element are processed. 7. NTP–: Number of temperature probes requested. This code is followed by a numeric value that implies the number of temperature probes. 8. TVA–: Temperature Variance Details. This code is followed by text that describes the temperature variance details.		

9. TCI–: Temperature Control Instructions. Reefer Comments.

Example: W09*CN*-15*FA***TCI–REEFER COMMENTS**40*2~ W09*CN*****ECA~ W09*CN*****FRZ~ W09*CN*****GEN~ W09*CN*****HUM~ W09*CN*****ICP-12345~ W09*CN*****ICT~ W09*CN*****NTP–12345~ W09*CN*****TVA–100 ~

B. Special Service Request 1. CLN: This is an indicator/flag to indicate that the Equipment Must be Cleaned. When CLN is sent, only the first 3 characters of this element are processed.

2. FGE: This is an indicator/flag to indicate that Food Grade Equipment is requested. When FGE is sent, only the first 3 characters of this element is processed.

3. FMG: This is an indicator/flag to indicate that equipment fumigation is required. When FMG is sent, only the first 3 characters of this element are processed.

4. GOH: This is an indicator/flag to indicate that Garments are on Hanger. When GOH is sent, only the first 3 characters of this element are processed.

5. HTE: This is an indicator/flag to indicate that Heavy Weight Tested Equipment was requested. When HTE is sent, only the first 3 characters of this element are processed.

6. SWP: This is an indicator/flag to indicate that the Equipment must be Swept. When SWP is sent, only the first 3 characters of this element are processed.

Example: W09*CN*****CLN~ W09*CN*****FGE~ W09*CN*****FMG~ W09*CN*****GOH~ W09*CN*****HTE~ W09*CN*****SWP~

C. Handling Instructions 1. SAD and SBD are mutually exclusive 1a. SAD: This is an indicator/flag to indicate that the Equipment must be Stowed Above Deck. When SAD is sent, only the first 3 characters of this element are processed.

1b. SBD: This is an indicator/flag to indicate that the Equipment must be Stowed Below Deck. When SBD is sent, only the first 3 characters of this element are processed.

Example: Either W09*CN*****SAD~ or W09*CN*****SBD~

D. General Equipment Information 1. AGK–: Equipment comments. General Equipment Comments. Informational Only.

2. CCN–: Canadian Cargo Control Number. This code is followed by the CCN Reference Number. Only 45 characters are allowed.

3. UCN–: Customs Export Declaration Unique Consignment Reference (DUCN). Typically provided by the Exporter or its Agent for shipments departing Great Britain. Only 45 characters are allowed.

4. FFF, FLL are mutually exclusive 4a. FFF: FCL/FCL. Indicator defines the movement of cargo packed by the shipper or shipper's agent and unpacked by the consignee or consignee's agent.

4b. FLL: FCL/LCL. Indicator defines the movement of cargo packed by the shipper or shipper's agent and unpacked by the consignee or consignee's agent.

5. ACN–: Actual Container Number. This code is followed by the actual container number. Maximum of 17 characters.

6. LCN–: Logical Container Number. This code is followed by the logical Container Number. Maximum of 17 characters.

Example: W09*CN*****AGK–EQUIPMENT COMMENTS~ W09*CN*****CCN–12345~ W09*CN*****UCN–12345~ W09*CN*****ACN–CNTU1234567~ W09*CN*****LCN–001~

Either W09*CN*****FFF~ or W09*CN*****FLL~

E. Equipment Measurement Numeric values must conform to below rules: - Decimal must be represented using the dot ('.'). - Group separators must not be sent. 1. Weight, Radioactivity, and Acid concentration: Maximum 3 digits of precision allowed.

examples: valid - "1000.123" invalid - "1,000.123", "1.000,123"

2. Volume: Maximum 4 digits of precision allowed:

examples: valid - "1000.1234" invalid - "1,000.1234", "1.000,1234"

1. Net Weight: 1a. WKG–: Net Weight in Kilograms (KGS). 1b. WLB–: Net Weight in Pounds (LBS).

2. Net Volume: 2a. VFT–: Net Volume in Cubic Feet. 2b. VMT–: Net Volume in Cubic Meter.

3. CGL–: Percent of Carbon Dioxide Gas Level.

4. NGL–: Percent of Nitrogen Gas Level.

5. OGL–: percent of Oxygen Gas Level.

Example: W09*CN*****WKG–12345.123~ W09*CN*****WLB–12345.123~ W09*CN*****VFT–12345.123~ W09*CN*****VMT–12345.123~ W09*CN*****CGL–12345.123~ W09*CN*****NGL–12345.123~ W09*CN*****OGL–12345.123~

W0907 **1122** **Vent Setting Code** **O** **ID 1/1**

Code describing the setting on the air vents on ocean-type containers

This must only be sent if container type is refrigerated.

Vent Open and Equipment Controlled Atmosphere are mutually exclusive.

A	Vent 25% Open
B	Vent 50% Open
C	Vent 75% Open
D	Vent 100% Open
E	Closed
F	Vent 10% Open

W0908 **488** **Percent** **O** **N0 1/3**

Percent expressed as 0 to 100

Percent expressed as 0 to 100
Humidity Percentage

W0909	**380**	**Quantity**	**O**	**R 1/15**
		Numeric value of quantity		
		Air Exchange Per Hour in Cubic Meters		

Segment: **N9** **Reference Identification**
Position: 054
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes: **1** If either C04003 or C04004 is present, then the other is required.
2 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: **1** N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*BN*CBN020329123409

Carrier Booking Number is mandatory when B104 = 'A' (confirmation) or B104 = 'B' (conditionally accepted) or B104 = 'P' (pending).

Carrier Booking Number is also mandatory for Standalone Booking Confirmations. BN (Carrier Booking Number) will always be unique among all active and replaced bookings for the carrier.

BS (Carrier Source Booking Number) is mandatory for a new booking split when the predecessor of the split booking is in Confirmed state.

Only one of TS (Tariff Number), AAL (Agents Reference),BN (Booking Number), Q1 (Contract Number)/L6 (contract Line Item Number), RF (Export License), or ZZ MSC Reference) will be sent

Multiple occurrences of all other references may be provided as follows: Any combination of ZH (Local Booking Number), BM (Bill of Lading) and RE (Release Number) up to 30 occurrences. Any combination of CT (Contract Party reference), VT (Vehicle ID number), L8 (Consignee's reference), FN (Freight Forwarder's reference), PO (Purchase Order number) and SI (Shipper's reference number) up to 60 occurrences.

TS (Tariff Number) and Q1 (Contract Reference) are mutually exclusive.

L6 (Contract Line Item Number) will only be transmitted if Q1 (Contract Number) is provided.

Customer provided references may be supplemented by MSC on the outbound message to the customer, under customer preference control.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Accepted codes: AAL Agent Number Outbound Booking Agent Reference. BM Bill of Lading Number BN Booking Number CT Contract Number Contract Party reference number. FN Forwarder's/Agent's Reference Number L6 Subcontract Line Item Number A further subdivision of a contract line item number L8 Consignee's Release Number	**M ID 2/3**

			A number which uniquely identifies a release against the consignee's purchase order		
			PO Purchase Order Number		
			Q1 Quote Number		
			4F Carrier-assigned Shipper Number		
			RE Release Number		
			Container release number		
			SI Shipper's Identifying Number for Shipment (SID)		
			A unique number (to the shipper) assigned by the shipper to identify the shipment		
			TN Transaction Reference Number		
			Used to indicate the unique ITN (Internal Transaction Number) as provided by the US AES (Automated Export System)		
			TS Tariff Number		
			VT Motor Vehicle ID Number		
			ZH Carrier Assigned Reference Number		
			Local Booking Number Reference number assigned by carrier to a consignment.		
			ZZ Mutually Defined		
	N902	**127**	**Reference Identification**	**O**	**AN 1/35**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			Maximum of 35 characters will be used.		
X	**N903**	**369**	**Free-form Description**	**O**	**AN 1/45**
X	**N904**	**373**	**Date**	**O**	**DT 8/8**
X	**N905**	**337**	**Time**	**O**	**TM 4/8**
X	**N906**	**623**	**Time Code**	**O**	**ID 2/2**
X	**N907**	**C040**	**Reference Identifier**	**O**	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
X	**C04001**	**128**	**Reference Identification Qualifier**	**O**	**ID 2/3**
X	**C04002**	**127**	**Reference Identification**	**O**	**AN 1/30**
X	**C04003**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04004**	**127**	**Reference Identification**	**X**	**AN 1/30**
X	**C04005**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
X	**C04006**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **N1** **Name**
Position: 060
Loop: N1 Mandatory
Level: Heading
Usage: Mandatory
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.
Semantic Notes:
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.
2 N105 and N106 further define the type of entity in N101.
Notes: N1*SH*SHIPPER NAME*93*SHIPPERIDCODE

RULES: Either the Shipper (SH) or the Forwarder (FW) will always be supplied by MSC

The information in this segment applies to all containers in the group.

Either Party Code or Party Name will always be provided.

Carrier will always be provided

Name and address and Street and number may also be used to convey contact name and phone number.

Only one of each type of party may be sent per equipment loop, with the exception of (LL) Intermediate Export Stop Offs which may be sent multiple times.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual Accepted Values:	**M ID 2/3**
			28 Subcontractor Firm carrying out a part of the works for a contractor.	
			BO Broker or Sales Office	
			C9 Contract Holder	
			CA Carrier	
			CL Container Location Location of Empty Container	
			CN Consignee	
			FW Forwarder	
			LL Location of Load Exchange (Export) Name of the location at which load (trailer) is exchanged with another motor carrier for export	
			N1 Notify Party no. 1	
			N2 Notify Party no. 2	
			NP Notify Party for Shipper's Order	
			SF Ship From If Haulage is Door-to-Door or Door-to-Pier, the Ship from address is always sent.	
			SH Shipper	

			ST	Ship To		
				If Haulage is Door-to-Door or Pier-to-Door, the Ship to address is always sent.		
			TR	Terminal		
				Full Container Drop-Off Location		
			ZZ	Mutually Defined		
	N102	**93**	**Name**		**C**	**AN 1/35**
			Free-form name			
			Only the first 35 characters of the party name will be sent			
	N103	**66**	**Identification Code Qualifier**		**C**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)			
			Supplied Values:			
			93	Code assigned by the organization originating the transaction set		
			94	Code assigned by the organization that is the ultimate destination of the transaction set		
	N104	**67**	**Identification Code**		**C**	**AN 2/35**
			Code identifying a party or other code			
			Code identifying a party or other code Only the first 35 characters will be sent			
X	**N105**	**706**	**Entity Relationship Code**		**O**	**ID 2/2**
X	**N106**	**98**	**Entity Identifier Code**		**O**	**ID 2/3**

Segment: **N3** **Address Information**
Position: 080
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: N3*ADDRESS 1*ADDRESS 2

A maximum of 2 N3 loops will be sent but only 210 characters will be sent

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 090
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
Notes: N4*Newark*NJ*07322*US

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N401	**19**	**City Name** Free-form text for city name	**O**	**AN 2/30**
	N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID 2/2**
	N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O**	**ID 3/15**
	N404	**26**	**Country Code** Code identifying the country MSC Accepted Values: ISO Country Code	**O**	**ID 2/3**
X	**N405**	**309**	**Location Qualifier**	**O**	**ID 1/2**
X	**N406**	**310**	**Location Identifier**	**O**	**AN 1/30**

Segment: **G61** **Contact**
Position: 100
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 9
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.
Semantic Notes:
Comments:
Notes: G61*CN*Donald Tucker*TE*1-800-111-4444

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**G6101**	**366**	**Contact Function Code** Code identifying the major duty or responsibility of the person or group named Supplied Values: CN General Contact	**M**	**ID 2/2**
M	**G6102**	**93**	**Name** Free-form name Free-form name Only 35 characters will be sent	**M**	**AN 1/35**
	G6103	**365**	**Communication Number Qualifier** Code identifying the type of communication number Supplied Values: EM Electronic Mail FX Facsimile TE Telephone	**C**	**ID 2/2**
	G6104	**364**	**Communication Number** Complete communications number including country or area code when applicable	**C**	**AN 1/80**
X	**G6105**	**443**	**Contact Inquiry Reference**	**O**	**AN 1/20**

Segment: **DTM** **Date/Time Reference**
Position: 105
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify pertinent dates and times
Syntax Notes:
Semantic Notes:
Comments:
Notes: DTM*369*20011008*1900

Rules: Date will be within 400 days of the current date.

A. The following are dates associated with the equipment: (017) Date and/or time when the shipper of the goods expects delivery will take place. (064) Earliest drop off date/time of full container to the carrier. (497) Latest date/time full container may be delivered to the carrier. (996) Date/time empty container will be positioned at Customer's location. (118) Date/time container will be picked-up at the intermediate export stop off location or Ship From location. (252) Earliest date/time empty container may be picked up. (144) Date/time container will be positioned at the intermediate export stop off location.

The below examples describes how the dates will be used. The below date qualifiers will only be sent for N1 segment Ship From (N101 = SF).
DTM*996*20090619*1200~
DTM*118*20090702*0900~

The below date qualifier will only be sent for N1 segment Ship To (N101 = ST).
DTM*017*20090702*0900~

The below date qualifiers will only be sent for N1 segment Intermediate Export Stop Off Location (N101 = LL).

DTM*144*20090619*1200~
DTM*118*20090619*1200~

The below date qualifier will only be sent for N1 segment Empty Container Pick-up Location (N101 = CL).

DTM*252*20090619*1200~

The above date qualifiers will only be sent for N1 segment Full Container Drop Off Location (N101 = TR).

DTM*064*20090619*1200~
DTM*497*20090619*1200~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time Supplied Values 017 Estimated Delivery Date and/or time when the shipper of the goods expects delivery will take place. Applicable only for N1 ST (Ship to)	**M ID 3/3**

			064	Do Not Deliver Before Date identifying a point in time before which the goods shall not be delivered. Earliest drop off date/time of full container to the carrier.		
			118	Requested Pick-up Date/time container will be picked-up at the intermediate export stop off location or ship from location.		
			144	Estimated Acceptance Date/time container will be positioned at the intermediate export stop off location. Date/time on which equipment is estimated to be positioned (delivered).		
			252	Early Start The earliest date a task or activity can begin Date/time on which equipment can be picked up at the earliest. Earliest date/time empty container may be picked up.		
			497	Latest Delivery Date at Pier Final date for delivering cargo to a liner ship. Latest date/time full container may be delivered to the carrier.		
			996	Required Delivery A date on which or before, ordered goods or services must be delivered Date/time empty container will be positioned at customer's location		
	DTM02	**373**	**Date** Date expressed as CCYYMMDD		**C**	**DT 8/8**
	DTM03	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, Local time of R4 Function		**C**	**TM 4/8**
X	**DTM04**	**623**	**Time Code**		**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**		**O**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**		**O**	**AN 1/35**

Segment: **R4** **Port or Terminal**
Position: 110
Loop: R4 Mandatory
Level: Heading
Usage: Mandatory
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.
Semantic Notes:
Comments: **1** R4 is required for each port to be identified.
Notes: R4*L*UN*USNYC*NEW YORK*US***NY~

Only one of each type of location function qualifier will be sent per transaction.

For each location, either Location Code or Location Name will always be provided.

For multiple MAIN Carriage transport legs, the Port of Load and Port of Discharge in this segment is from the first MAIN Carriage leg.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**R401**	**115**	**Port or Terminal Function Code** Code defining function performed at the port or terminal with respect to a shipment Supplied values: 4 Customs Office of Manifest Destination Final Port for AMS Documentation A Place of Acceptance (Operational) Place at which carrier actually accepts cargo from shipper or his agent First Foreign Port/Place of Acceptance D Port of Discharge (Operational) Port at which cargo is unloaded from vessel Port of Discharge will always be supplied by MSC G Port of Entry (Operational) Place at which cargo actually enters a country where the cargo is not part of its commerce First US Port Visited H Port of Exit (Operational) Place at which cargo actually leaves a country where the cargo is not part of its commerce Last Non-US Port Visited L Port of Loading (Operational) Port at which cargo is loaded on vessel Port of Load will always be supplied by MSC	**M ID 1/1**
	R402	**309**	**Location Qualifier** Code identifying type of location UNLOCODE is Preferred 94 Receiver's Location Code Used to Qualify the Customer's preferred Alias code. UN United Nations Location Code (UNLOCODE)	**C ID 1/2**
	R403	**310**	**Location Identifier** Code which identifies a specific location	**C AN 1/30**

			Location Code		
	R404	**114**	**Port Name** Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	**O**	**AN 2/256**
			Location Name		
	R405	**26**	**Country Code** Code identifying the country	**O**	**ID 2/3**
			Code identifying the country Two character ISO Country Code		
X	**R406**	**174**	**Terminal Name**	**O**	**AN 2/30**
X	**R407**	**113**	**Pier Number**	**O**	**AN 1/4**
	R408	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**ID 2/2**

Segment: **DTM** **Date/Time Reference**
Position: 120
Loop: R4 Mandatory
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To specify pertinent dates and times
Syntax Notes:
Semantic Notes:
Comments:
Notes: DTM*369*20011008*1900

Date will be within 400 days of the current date.

A. The following are AMS Dates: Estimated Arrival Date at First US Port (DTM01 = 'AA1') will only be sent if the preceding location (R4) is R401= 'G' (First US Port Visited).

AMS Filing Due date (DTM01 = 'AAG') will only be sent if the preceding location (R4) is R401 = '4' (Final Port for AMS Documentation).

If time is sent it is assumed to be local time at the location identified in the preceding LOC segment.

B. The following are Transport Location Dates and will be sent only for Port Of Load or Port of Discharge locations: (311) Final date for delivering cargo to a liner ship at Port of Load (369) Estimated Departure Date at Port of Load (371) Estimated Arrival Date at Port of Discharge

The below examples describes how the dates will be used. DTM*311*20090619*1200~ DTM*369*20090619*1200~ DTM*371*20090701*1200~

For multiple MAIN Carriage transport legs, the ETA and ETD in this segment is from the first MAIN carriage in the transport plan.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time Supplied Values : 311 Latest Receiving Date/Cutoff Date 369 Estimated Departure Date 371 Estimated Arrival Date AA1 Estimated Point of Arrival Estimated Arrival Date at First US Port AAG Due Date Date AMS Filing is Due	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD	**C DT 8/8**
	DTM03	**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)	**C TM 4/8**

			Time expressed in 24-hour clock time as follows: HHMM MSC assumes the twenty-four hour clock system will be used to express time. Time must be expressed and transmitted by means of four figures, the first two denoting the hour past midnight and the last two the minutes past the hour. Examples : 12:45 a.m. is expressed as 0045 12:00 noon is expressed as 1200 11:45 p.m. is expressed as 2345 12:00 midnight is expressed as 0000 1:30 a.m. is expressed as 0130 1:45 p.m. is expressed as 1345		
X	**DTM04**	**623**	**Time Code**	**O**	**ID 2/2**
X	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**O**	**ID 2/3**
X	**DTM06**	**1251**	**Date Time Period**	**O**	**AN 1/35**

Segment: **H3** **Special Handling Instructions**
Position: 140
Loop:
Level: Heading
Usage: Optional
Max Use: 4
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: **1** Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes: H3*01~

This segment indicates the nature of shipment. Shipment can be a combination of the following:

01 – Out of Gauge Shipment
02 – Hazardous/Dangerous Goods Shipment
03 – Temperature Controlled Shipment
04 – Environmental Pollutant Shipment

Only 1 of each code can be sent

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	H301	**152**	**Special Handling Code** Code specifying special transportation handling instructions 01 - Out of Gauge Shipment 02 - Hazardous Shipment 03 - Temperature Controlled Shipment 04 - Environmental Pollutant Shipment	**O**	**ID 2/3**
X	**H302**	**153**	**Special Handling Description**	**X**	**AN 2/30**
X	**H303**	**241**	**Protective Service Code**	**O**	**ID 1/4**
X	**H304**	**242**	**Vent Instruction Code**	**O**	**ID 1/7**
X	**H305**	**257**	**Tariff Application Code**	**O**	**ID 1/1**

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

Sequential Line Item Number starting from 1.

Data Element Summary

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

Segment: **N7** **Equipment Details**
Position: 020
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the equipment
Syntax Notes:
Semantic Notes: **1** N712 is the owner of the equipment.
Comments: **1** N701 is mandatory for rail transactions.
2 N720 and N721 are expressed in inches.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N701**	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number	**M**	**AN 1/4**
M	**N702**	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	**M**	**AN 1/10**
X	**N703**	**81**	**Weight**	**O**	**R 1/10**
X	**N704**	**187**	**Weight Qualifier**	**O**	**ID 1/2**
X	**N705**	**167**	**Tare Weight**	**O**	**N0 3/8**
X	**N706**	**232**	**Weight Allowance**	**O**	**N0 2/6**
X	**N707**	**205**	**Dunnage**	**O**	**N0 1/6**
X	**N708**	**183**	**Volume**	**O**	**R 1/8**
X	**N709**	**184**	**Volume Unit Qualifier**	**O**	**ID 1/1**
M	**N710**	**102**	**Ownership Code** Code indicating the relationship of equipment to carrier or ownership of equipment Supplied Values: L Railroad Leased N Not Customer Owned or Leased R Seller Owned, Returnable S Customer Owned or Leased T Trip Leased	**M**	**ID 1/1**
X	**N711**	**40**	**Equipment Description Code**	**O**	**ID 2/2**
X	**N712**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**N713**	**319**	**Temperature Control**	**O**	**AN 3/6**
X	**N714**	**219**	**Position**	**O**	**AN 1/3**
X	**N715**	**567**	**Equipment Length**	**O**	**N0 4/5**
X	**N716**	**571**	**Tare Qualifier Code**	**O**	**ID 1/1**
X	**N717**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
M	**N718**	**761**	**Equipment Number Check Digit** Number which designates the check digit applied to a piece of equipment	**M**	**N0 1/1**
X	**N719**	**56**	**Type of Service Code**	**O**	**ID 2/2**
X	**N720**	**65**	**Height**	**O**	**R 1/8**
X	**N721**	**189**	**Width**	**O**	**R 1/8**
M	**N722**	**24**	**Equipment Type** Code identifying equipment type	**M**	**ID 4/4**
X	**N723**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**N724**	**301**	**Car Type Code**	**O**	**ID 1/4**

Segment: **L0** **Line Item - Quantity and Weight**
Position: 035
Loop: L0 Mandatory
Level: Detail
Usage: Mandatory
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 L004 or L005 is present, then the other is required.
3 If either L006 or L007 is present, then the other is required.
4 If either L008 or L009 is present, then the other is required.
Semantic Notes:
1 L008 is the number of handling units of the line item tendered to the carrier.
Comments:
Notes:

Commodity with package count, package type code and package type description:
L0*1***45000*G*12345.50*E*100*CRT*CRATE*L

Commodity without package count and package type code or package description:
L0*1***45000*G******L

Commodity with zero package count and a package type code:
L0*1***45000*G*12345.50*E*0*CRT**L

Only 1 commodity is allowed per each L0 loop.

The L0 segment and loop will be used to report multi-level packaging. The L008/09 contains the Outer package type and quantity. The PO4 within the L0 loop contains Inner and/or Inner-inner packaging details. The PO4 segment can iterate for each additional Inner package type. The L0 segment iterates for each Outer package type within the same container.

The L0 Line Item Number (L001) must increment by 1 for each Outer package type with in the LX loop.

Either Package Type or Package Type Description Will be provided.

Number of Packages must be a whole number greater.

If package type code (L009) or package type description (L010) is provided then number of package (L008) must also be provided.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**L001**	**213**	**Lading Line Item Number**	**M**	**N0 1/5**
			Sequential line number for a lading item		
			Sequential line number for a lading item The L0 Line Item Number must increment by 1 for each Outer package type within the same container.		
X	**L002**	**220**	**Billed/Rated-as Quantity**	**O**	**R 1/11**
X	**L003**	**221**	**Billed/Rated-as Qualifier**	**O**	**ID 2/2**
	L004	**81**	**Weight**	**C**	**R 1/10**
			Numeric value of weight		
			Maximum 3 digits of precision allowed Examples: valid - "1000.123" invalid - "1,000.123", "1.000,123"		

L005	**187**	**Weight Qualifier**	**C**	**ID 1/2**

Code defining the type of weight

Accepted Values :

G	Gross Weight

L006	**183**	**Volume**	**C**	**R 1/8**

Value of volumetric measure

Volume: Maximum 4 digits of precision allowed

Examples: valid - "1000.1234" invalid - "1,000.1234", "1.000,1234

L007	**184**	**Volume Unit Qualifier**	**C**	**ID 1/1**

Code identifying the volume unit

Supplied Values:

E	Cubic Feet
X	Cubic Meters

L008	**80**	**Lading Quantity**	**C**	**N0 1/7**

Number of units (pieces) of the lading commodity

Note: Must be a valid whole number greater (no commas or decimals).

If Package Type Code (L009) or Package Type Description (L010) is provided then the Lading Quantity (L008) will be provided.

For multiple package level commodities, the Package Type Code (L009) or Package Type Description (L010) and Lading Quantity (L008) must be provided for all package levels (i.e. Outer, Inner and Inner-inner package level).

L009	**211**	**Packaging Form Code**	**C**	**ID 3/3**

Code for packaging form of the lading quantity

Code for packaging form of the lading quantity

If Lading Quantity (L008) is provided then either the Package Type Code (L009) or Package Type Description (L010) must be provided.

For multiple package level commodities, the Package Type Code (L009) or Package Type Description (L010) and Lading Quantity (L008) must be provided for all package levels (i.e. Outer, Inner and Inner-inner package level).

Describes the Outer Package Type. This element will contain the 3 character packaging type code.

BAG	Bag
BBL	Barrel
BDL	Bundle
BKG	Bulk Bag
	A large sized flexible, intermediate bulk container; the side walls are flexible; it's made of fabric; when filled, it takes on the shape of what you put inside
BOB	Bobbin
BOX	Box
BSK	Basket or hamper
BXT	Bucket
CAG	Cage
CAS	Case
CHS	Chest
COL	Coil
CON	Cones

CRT	Crate
CSK	Cask
CTN	Carton
CYL	Cylinder
DRM	Drum
	A large container with a cylindrical shape; top may have removable or sealed top sides may be fiberboard or metal
ENV	Envelope
FIR	Firkin
FRM	Frame
FSK	Flask
HGH	Hogshead
HPR	Hamper
JAR	Jar
JUG	Jug
	A bottle (usually 1/2 gallon or larger) fitted with a handle
KEG	Keg
LBK	Liquid Bulk
LOG	Log
LVN	Lift Van
PAL	Pail
PKG	Package
PLT	Pallet
RCK	Rack
REL	Reel
ROL	Roll
SAK	Sack
SCS	Suitcase
SHT	Sheet
	A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package.
SKD	Skid
SLP	Slip Sheet
	Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
	Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
SLV	Sleeve
SPL	Spool
TBE	Tube
TRC	Tierce
TRK	Trunk and Chest
TRY	Tray
TUB	Tub
UNP	Unpacked
VPK	Van Pack

L010 **458** **Dunnage Description** **C** **AN 2/35**

Material used to protect lading

This element will be used by MSC to store the packaging type description.

			If Lading Quantity (L008) is provided then either the Package Type Code (L009) or Package Type Description (L010) must be provided. For multiple package level commodities, the Package Type Code (L009) or Package Type Description (L010) and Lading Quantity (L008) must be provided for all package levels (i.e. Outer, Inner and Inner-inner package level). For hazardous commodity, Package Type Code (L009) or Package Type Description (L010) and Lading Quantity (L008) must always be provided.		
	L011	**188**	**Weight Unit Code** Code specifying the weight unit Supplied Values: K Kilograms L Pounds	**C**	**ID 1/1**
X	**L012**	**56**	**Type of Service Code**	**O**	**ID 2/2**
X	**L013**	**380**	**Quantity**	**O**	**R 1/15**
X	**L014**	**211**	**Packaging Form Code**	**O**	**ID 3/3**
X	**L015**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**

Segment: **PO4** **Item Physical Details**
Position: 040
Loop: PO4 Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:
Semantic Notes:
1 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
2 PO417 is the ending package identifier in a range of identifiers.
3 PO418 is the number of packages in this layer.
Comments:
1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".

Notes:

The PO4 segment is used to inform Inner and Inner-Inner package quantities and type, thus allowing a 3 level packaging structure. If more than one type of Inner packaging is used, the PO4 will iterate for each Inner package and will be identified as such using element PO403, code of 'PK' for Inner pack or 'AB' for Inner-inner pack.

It will be used as follows:

The L0 segment contains the Outer package type and quantity, the first instance of PO4 will contain the Inner package type and if needed, the second instance can contain the Inner-inner package type.

Example: L0* --Outer Package PO4*2*1*PK*BOX**********BOXES~ --First Inner Package type (L0 segment contains the Outer Package information)
MEA* --Measurements for first Inner Package
PO4*10*1*AB*BAG**********BAGS~ --First Inner-Inner Package type
PO4*3*1*PK*CTN**********CARTONS~ --Second Inner Package type
MEA* --Measurements for Second Inner Package
PO4*15*1*AB*BOT**********BOTTLES~ --Second Inner-Inner Package type

An Inner Package must always be preceded by an Outer Package (L0 segment) An Inner-Inner Package must always be preceded by an Inner Package.

A total of 999 Outer, Inner and Inner-Inner packaging level information (combined) can be sent.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO401	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container The number of inner containers, or number of each if there are no inner containers, per outer container The total number of Inner or Inner-Inner packages. Must be a whole number.	**O N0 1/6**
PO402	**357**	**Size** Size of supplier units in pack Default to 1 to satisfy the PO403 and PO402 conditional requirement	**O R 1/8**
PO403	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	**C ID 2/2**

		Supplied Values:			
		AB	Bulk Pack		
			Package equals Inner-inner.		
		PK	Package		
			Package equals Inner.		
PO404	**103**	**Packaging Code**		**C**	**AN 3/5**
		Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required			
		Supplied Values:			
		BAG	Bag		
		BBL	Barrel		
		BDL	Bundle		
		BOB	Bobbin		
		BOX	Box		
		BSK	Basket or hamper		
		BXT	Bucket		
		CAG	Cage		
		CAS	Case		
		CHS	Chest		
		COL	Coil		
		CON	Cones		
		CRT	Crate		
		CSK	Cask		
		CTN	Carton		
		CYL	Cylinder		
		DRM	Drum		
		ENV	Envelope		
		FIR	Firkin		
		FRM	Frame		
		FSK	Flask		
		HGH	Hogshead		
		HPR	Hamper		
		JAR	Jar		
		KEG	Keg		
		LBK	Liquid Bulk		
		LOG	Log		
		LVN	Lift Van		
		PAL	Pail		
		PKG	Package		
		PLT	Pallet		
		RCK	Rack		
		REL	Reel		
		ROL	Roll		
		SAK	Sack		
		SCS	Suitcase		
		SHT	Sheet		
			A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package		
			A thin layer of material usually used as a pad for extra protection by isolating/separating tiers or layers of parts within the package.		

SID	Side of Beef
SLP	Slip Sheet
	Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
	Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation.
SLV	Sleeve
SPL	Spool
SRW	Shrink Wrap
	In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents
TBE	Tube
TRC	Tierce
TRK	Trunk and Chest
TRY	Tray
TUB	Tub
UNP	Unpacked
VIL	Vial
VPK	Van Pack
01	Aluminum
04	As Specified by the DOT
07	Burlap
10	Chemically Hardened Fibre
13	Cloth
16	Cloth Top
19	Cloth or Fabric
22	Compressed
25	Corrugated or Solid
28	Double-wall Paper
31	Fibre
34	Fibre (Paperboard)
37	Fiberboard
40	Fiberboard Metal
43	Glass
46	In Inner Containers
48	Wire/Cord
	Something that binds, ties, or encircles the package/container to secure and maintain unit integrity
49	Insulated
50	Steel - Vinyl Coated
	Steel that has been covered with a plastic material
51	Wire Mesh
52	Iron or Steel
53	Jumbo
54	Special Jumbo
55	Lead
58	Metal
59	Metal Cans

61	Moisture Resistant
64	Molded Plastic
67	Multiple-wall Paper (2 or more walls)
70	Multiple-wall Paper (3 or more walls)
71	Not Otherwise Specified
72	Paper - VCI
	Water-resistant paper that is treated by the addition of materials to provide resistance to damage or deterioration by water in liquid form
73	Other than Glass
74	Other than Metal or Plastic Tubes, or Glass
75	Plastic - Vacuum Formed
	Packaging material that is formed by heating plastic sheet and drawing it against the mold surface by evacuating the air between the sheet and the mold
76	Paper
77	Plastic - Structural Foam
	A method of manufacturing containers and shipping devices by mixing plastic resins with a foaming agent, heating it and injecting the mix into a two-piece machined aluminum mold
78	Plastic - Injection Molded
	Packaging material that is formed by melting the material and then forcing it under pressure into a cavity of a closed mold
79	Plastic
80	Polyethylene Lined
81	Plastic - Virgin
	Plastic in the form of pellets, granules, powder, floc, or liquid that has not been subjected to use or processing other than for its initial manufacture
82	Pulpboard
83	Plastic - Regrind
	A plastic prepared from discarded articles that have been reprocessed, often changing some of its original properties
84	Polystyrene
	A polymer prepared by the polymerization of styrene as the sole monomer
85	Rubber
86	Foam
	In packaging, a cushioning material used to reduce shock and vibration or abrasion
88	Rubber and Fabric
89	Special
90	Standard
91	Stainless Steel
92	Tubes, Metal or Plastic
94	Wood
95	Single Wall Corrugated Board
	The structure formed by one corrugated inner member between two flat facings; also known as double face
96	Double Wall Corrugated Board
	The structure formed by three flat facings and two intermediate corrugated members

		97	Triple Wall Corrugated Board The structure formed by four flat facings and three intermediate corrugated members		
X	**PO405**	**187**	**Weight Qualifier**	**X**	**ID 1/2**
X	**PO406**	**384**	**Gross Weight per Pack**	**O**	**R 1/9**
X	**PO407**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**PO408**	**385**	**Gross Volume per Pack**	**O**	**R 1/9**
X	**PO409**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**PO410**	**82**	**Length**	**O**	**R 1/8**
X	**PO411**	**189**	**Width**	**O**	**R 1/8**
X	**PO412**	**65**	**Height**	**O**	**R 1/8**
X	**PO413**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**PO414**	**810**	**Inner Pack**	**X**	**N0 1/6**
X	**PO415**	**752**	**Surface/Layer/Position Code**	**X**	**ID 2/2**
	PO416	**350**	**Assigned Identification** Used to indicate Inner or Inner-Inner package description depending on the definition in the PO4	**O**	**AN 1/20**
X	**PO417**	**350**	**Assigned Identification**	**X**	**AN 1/20**
X	**PO418**	**1470**	**Number**	**X**	**N0 1/9**

Segment: **MEA** **Measurements**
Position: 043
Loop: PO4 Mandatory
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
Semantic Notes: **1** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
Notes: MEA**VOL*200.0324*CR or MEA**WT*200.398*KG

Used to indicate the Volume and Weight of the Inner and Inner-Inner Packages reported in the previous PO4.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**MEA01**	**737**	**Measurement Reference ID Code**	**O**	**ID 2/2**
	MEA02	**738**	**Measurement Qualifier**	**O**	**ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies		
			Accepted values:		
			VOL Volume		
			WT Weight		
	MEA03	**739**	**Measurement Value**	**C**	**R 1/20**
			The value of the measurement		
			Weight Value Notes: - Decimal will be represented using the dot (.). - Maximum of 3 digits of precision allowed. Examples: Valid "1234.001" Invalid "1,234.001" or "1.234,001" Volume Value Notes: - Decimal will be represented using the dot (.). - Maximum of 4 digits of precision allowed. Examples: Valid "1234.0001" Invalid "1234.0001" or "1.234,0001"		
X	**MEA04**	**C001**	**Composite Unit of Measure**	**O**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
X	**C00101**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			CF Cubic Feet		
			CR Cubic Meter		
			KG Kilogram		
			LB Pound		
X	**C00102**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00103**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00105**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00106**	**649**	**Multiplier**	**O**	**R 1/10**

X	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00108**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00109**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00111**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00112**	**649**	**Multiplier**	**O**	**R 1/10**
X	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**
X	**C00114**	**1018**	**Exponent**	**O**	**R 1/15**
X	**C00115**	**649**	**Multiplier**	**O**	**R 1/10**
X	**MEA05**	**740**	**Range Minimum**	**O**	**R 1/20**
X	**MEA06**	**741**	**Range Maximum**	**O**	**R 1/20**
X	**MEA07**	**935**	**Measurement Significance Code**	**O**	**ID 2/2**
X	**MEA08**	**936**	**Measurement Attribute Code**	**O**	**ID 2/2**
X	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**ID 2/2**
X	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**ID 2/4**

Segment: **L5** **Description, Marks and Numbers**
Position: 047
Loop: L0 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:
Semantic Notes:
Comments: **1** L502 may be used to send quantity information as part of the product description.
Notes: Example of L5 segment without Harmonized information L5*1*Lading Description**

Example of L5 segment with Harmonized information L5*1*Lading Description*010290*A

Lading Description is Mandatory for MSC

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
	L501	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
			Sequential line number for a lading item		
			Defaulted to 1.		
	L502	**79**	**Lading Description**	**O**	**AN 1/512**
			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		
			Code describing a commodity or group of commodities Harmonize Code – 6 character classification codes from the World Customs Organization (WCO) Harmonize System (HS)		
	L504	**23**	**Commodity Code Qualifier**	**C**	**ID 1/1**
			Code identifying the commodity coding system used for Commodity Code		
			Mandatory if L503 is provided. A – Harmonized Code B – Schedule B Code		
X	**L505**	**103**	**Packaging Code**	**O**	**AN 3/5**
			01 Aluminum		
			04 As Specified by the DOT		
			07 Burlap		
			10 Chemically Hardened Fibre		
			13 Cloth		
			16 Cloth Top		
			19 Cloth or Fabric		
			22 Compressed		
			25 Corrugated or Solid		
			28 Double-wall Paper		
			31 Fibre		
			34 Fibre (Paperboard)		
			37 Fiberboard		
			40 Fiberboard Metal		
			43 Glass		
			46 In Inner Containers		

48	Wire/Cord
	Something that binds, ties, or encircles the package/container to secure and maintain unit integrity
49	Insulated
50	Steel - Vinyl Coated
	Steel that has been covered with a plastic material
51	Wire Mesh
52	Iron or Steel
53	Jumbo
54	Special Jumbo
55	Lead
58	Metal
59	Metal Cans
61	Moisture Resistant
64	Molded Plastic
67	Multiple-wall Paper (2 or more walls)
70	Multiple-wall Paper (3 or more walls)
71	Not Otherwise Specified
72	Paper - VCI
	Water-resistant paper that is treated by the addition of materials to provide resistance to damage or deterioration by water in liquid form
73	Other than Glass
74	Other than Metal or Plastic Tubes, or Glass
75	Plastic - Vacuum Formed
	Packaging material that is formed by heating plastic sheet and drawing it against the mold surface by evacuating the air between the sheet and the mold
76	Paper
77	Plastic - Structural Foam
	A method of manufacturing containers and shipping devices by mixing plastic resins with a foaming agent, heating it and injecting the mix into a two-piece machined aluminum mold
78	Plastic - Injection Molded
	Packaging material that is formed by melting the material and then forcing it under pressure into a cavity of a closed mold
79	Plastic
80	Polyethylene Lined
81	Plastic - Virgin
	Plastic in the form of pellets, granules, powder, floc, or liquid that has not been subjected to use or processing other than for its initial manufacture
82	Pulpboard
83	Plastic - Regrind
	A plastic prepared from discarded articles that have been reprocessed, often changing some of its original properties
84	Polystyrene
	A polymer prepared by the polymerization of styrene as the sole monomer
85	Rubber
86	Foam

			In packaging, a cushioning material used to reduce shock and vibration or abrasion		
		88	Rubber and Fabric		
		89	Special		
		90	Standard		
		91	Stainless Steel		
		92	Tubes, Metal or Plastic		
		94	Wood		
		95	Single Wall Corrugated Board		
		96	The structure formed by one corrugated inner member between two flat facings; also known as double face Double Wall Corrugated Board		
		97	The structure formed by three flat facings and two intermediate corrugated members Triple Wall Corrugated Board		
			The structure formed by four flat facings and three intermediate corrugated members		
X	**L506**	**87**	**Marks and Numbers**	**O**	**AN 1/48**
X	**L507**	**88**	**Marks and Numbers Qualifier**	**O**	**ID 1/2**
X	**L508**	**23**	**Commodity Code Qualifier**	**O**	**ID 1/1**
X	**L509**	**22**	**Commodity Code**	**O**	**AN 1/30**
X	**L510**	**595**	**Compartment ID Code**	**O**	**ID 1/1**

Segment: **L4** **Measurement**
Position: 051
Loop: L0 Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe physical dimensions and quantities
Syntax Notes:
Semantic Notes:
Comments:
Notes: Used to indicate the Out of Gauge (OOG) dimensions of the Outer Packaging.

Length, Width and Height: maximum of 3 digit precession allowed.

If L4 is provided at least, one of the OOG dimension for Length, Width or Height must be provided

L4*123.123***F – only Length is provided L4*1.123*2.456*3.369*M – Length, Width, Height OOG dimensions provided

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	L401	**82**	**Length** Largest horizontal dimension of an object measured when the object is in the upright position	**O**	**R 1/18**
	L402	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	**O**	**R 1/18**
	L403	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	**O**	**R 1/18**
	L404	**90**	**Measurement Unit Qualifier** Code specifying the linear dimensional unit Mandatory if any of the Length, Width or Height is provided. Supplied Values: E Feet X Meters	**C**	**ID 1/1**
X	**L405**	**380**	**Quantity**	**O**	**R 1/15**
X	**L406**	**1271**	**Industry Code**	**O**	**AN 1/30**

Segment: **H1** **Hazardous Material**
Position: 067
Loop: H1 Mandatory
Level: Detail
Usage: Mandatory
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.
Semantic Notes:
Comments: **1** This segment is required when the shipment contains hazardous material.
2 H107 is the lowest temperature for hazardous materials.
Notes: H1*1789*8*I*Proper Hazardous Material Desc*Hazardous Material Contact*1302*45*CE*2

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**H101**	**62**	**Hazardous Material Code** Code relating to hazardous material code qualifier for regulated hazardous materials UN Number. Maximum of 4 characters will be sent	**M**	**AN 4/10**
M	**H102**	**209**	**Hazardous Material Class Code** Code specifying the kind of hazard for a material First IMO Code	**M**	**AN 1/4**
	H103	**208**	**Hazardous Material Code Qualifier** Code which qualifies the Hazardous Material Class Code (209) Accepted Values: I Intergovernmental Maritime Organization (IMO) Code	**O**	**ID 1/1**
X	**H104**	**64**	**Hazardous Material Description**	**O**	**AN 2/30**
	H105	**63**	**Hazardous Material Contact** Phone number and name of person or department to contact in case of emergency Emergency Contact Name. Emergency Contact	**O**	**AN 1/35**
	H106	**200**	**Hazardous Materials Page** The United Nations page number as required for the international transport of hazardous materials IMDG page number	**O**	**AN 1/6**
	H107	**77**	**Flashpoint Temperature** The flashpoint temperature for hazardous material The flashpoint temperature for hazardous material Flash Point Temperature must conform to below rules: - Decimal must be represented using the dot ('.'). - Temperature values must not include group separators. - Temperature must contain 3 valid Numeric Digits, and may also contain a decimal and minus sign ('-'). - Maximum Precision of Temperature is 1. - Negative Temperature must include a Minus sign ('-') and it must be in the first position of the element. - Positive Temperature must be Unsigned. Valid examples:	**O**	**N 1/3**

005, -005, -05.5, 55.2, 45.0

Invalid examples: 1, -5, -05, 5.5, 23-, 35, .3, 5.04, +045

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

Supplied Values:

CE	Centigrade, Celsius
FA	Fahrenheit

H109	**254**	**Packing Group Code**	**C**	**ID 1/3**

Code indicating degree of danger in terms of Roman number I, II or III

Accepted Values:

1 Great Danger
2 Medium Danger
3 Minor Danger

Segment: **H2** **Additional Hazardous Material Description**
Position: 074
Loop: H1 Mandatory
Level: Detail
Usage: Optional
Max Use: 18
Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment
Syntax Notes:
Semantic Notes:
Comments:
Notes: H2 will be utilized as follows:

The H2 segment will be used to provide hazardous material information. The element H101 will indicate the type of information.

Only one of each type can be sent per Hazardous Loop (per H2 Loop).

PSN–: Proper Hazardous Material Description
ECN–: Emergency Contact Number
EMS–: EMS Number Emergency
TRE–: TREM Card Number
IM2 –:2nd IMO Code
IM3–: 3rd IMO Code
GEN–: General Hazmat Comments
TEN–: Dangerous Goods Technical Name
HAZ–: Hazard Information (Hazmat Placard)
AEP–: Radioactive goods additional information
PKG–: Packaging Information
REG–: Regulatory information
EUR: Empty, Un-cleaned Receptacle Indicator
IHL: Inhalant Hazard Indicator
TLQ: Transport of Dangerous Goods in Limited Quantities Indicator

Aggregate States Indicator:
GAS: Gas
LQD: Liquid
SLD: Solid

Marine Pollutant Indicator:
NMP: Non-Marine Pollutant
MPO: Marine Pollutant
SMP: Severe Marine Pollutant

Description Codes:

1. PSN – Proper Hazardous Material Description.
Maximum of 512 characters is allowed.

2. ECN – Emergency Contact Number. This is MANDATORY if Emergency Contact Name is provided. This is the contact number of the name defined in H105. Only the first 512 char will be processed.

3. EMS – EMS Number Emergency procedures for ships carrying hazardous materials

4. TRE – TREM Card Number: The identification of a transport emergency card giving advice for emergency actions

5. IM2 – 2nd IMO Code. Used if more than one IMO class applies to the dangerous commodity.

6. IM3 – 3rd IMO Code. Used if more than two IMO class applies to the dangerous commodity.

7. GEN – General Hazmat Comments

8. EUR – This is a flag/indicator for Empty, Un-cleaned Receptacle

9. IHL – to indicate that the Hazardous shipment is an inhalant hazard

10. TLQ – Transport of Dangerous Goods in Limited Quantities indicator

**Aggregate State: GAS, LQD, SLD are mutually exclusive. 11. GAS – To indicate the Hazardous Material state is Gas

12. SLD – to indicate the Hazardous Material state is solid

13. LQD – to indicate that the Hazardous Material state is liquid

** NMP, MPO, SMP are mutually exclusive 14. NMP – Non-Marine Pollutant

15. MPO – Marine Pollutant

16. SMP – Severe Marine Pollutant

17. TEN – Dangerous Goods Technical Name. Maximum of 512 characters is allowed.

18. AEP – Radioactive goods additional information

19. HAZ – Hazard Information. Used to indicate the Hazmat Placard

20. PKG – Packaging Information. Should only contain IBC (intermediate bulk container code)

21. REG – Regulatory information

Examples:

H2*PSN–ProperShippingName*ProperShipping~ (Proper Shipping Name)
H2*ECN–6326550183~ (Emergency Contact Phone Number)
H2*EMS–1234~ (EMS Number) H2*TRE–12345~ (Trem Card Number)
H2*IM2–3.2~ (IMO 2) H2*IM3–1.8~ (IMO 3)
H2*GEN–General Hazmat Comments*Gen Hazmat Comment~
H2*EUR~ (Empty Unclean Receptacle Indicator)
H2*LQD~ (Aggregation State—either GAS, LIQUID or SOLID)
H2*IHL~ (Inhalant Hazard Indicator)
H2*TLQ~ (Transport In Limited Quantities Indicator)
H2*NMP~ (Marine Pollutant Indicator—either Non, Severe or Marine Pollutant)
H2*TEN–Hazardous Material Technical Name~ (Hazardous Material Technical Name)
H2*AEP–Radioactive Goods Addnl Info~ (Radio Active Goods addition information)
H2*HAZ–Placard~ (Hazardous Placard)
H2*PKG–12345~ (Intermediate Bulk Container Code)
H2*REG–Regulatory Information~ (Regulatory Information)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**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 1/30**
		Free-form description of hazardous material classification or division or label requirements		

Segment: **V1** **Vessel Identification**
Position: 080
Loop:
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To provide vessel details and voyage number
Syntax Notes:
Semantic Notes: **1** V103 is the code identifying the country in which the ship (vessel) is registered.
2 V105 identifies the ocean carrier.
Comments:
Notes: V1**Vessel Name*PH*OJW4059*SCAC

Only the Main Carriage Vessel Information will be provided in this segment. For multiple MAIN Carriage legs, this segment will contain the first MAIN Carriage from the transport plan.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**V101**	**597**	**Vessel Code**	**O**	**ID 1/8**
	V102	**182**	**Vessel Name**	**C**	**AN 2/35**
			Name of ship as documented in "Lloyd's Register of Ships"		
	V103	**26**	**Country Code**	**O**	**ID 2/3**
			Code identifying the country		
	V104	**55**	**Flight/Voyage Number**	**O**	**AN 2/17**
			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		
X	**V106**	**249**	**Vessel Requirement Code**	**O**	**ID 1/1**
X	**V107**	**854**	**Vessel Type Code**	**O**	**ID 2/2**
X	**V108**	**897**	**Vessel Code Qualifier**	**O**	**ID 1/1**
X	**V109**	**91**	**Transportation Method/Type Code**	**O**	**ID 1/2**

Segment: **K1** **Remarks**
Position: 100
Loop:
Level: Detail
Usage: Optional
Max Use: 999
Purpose: To transmit information in a free-form format for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments:
Notes:

A. General Booking Comments

These Remarks apply to the Entire Booking

AAC–: Summary UNDG numbers and IMO codes. This Code is followed by text summarizing the UNDG numbers and IMO codes.

AAF–: Vessel Rate of Exchange Information

AAI–: General Comments/Decline Comments. Mandatory for carrier Cancel or Decline of a booking.

ABV–: Terms and conditions

AES–: Carrier's reasons for amending the booking. This code is followed with text containing information on the reason/changes the carrier made on the booking.

ACD–: Carrier's reason for setting the booking in Pending status. This code is followed with text containing information on why the booking was placed in Pending status.

SAV: Slot Availability Verification is needed. Carrier will send this indicator if the reason for setting the booking to pending status (B104 = P) is Slot Availability Verification is needed.

CHG: Charge Verification needed. Carrier will send this indicator if the reason for setting the booking in pending status (B104 = P) is Charge Verification needed.

HCV: Hazardous Commodity Verification needed. Carrier will send this indicator if the reason for setting the booking in pending status (B104 = P) is Charge Verification needed.

EAV: Equipment Availability Verification needed. Carrier will send this indicator if the reason for setting the booking in pending status (B104 = P) is Equipment Availability Verification needed.

PCR: Container Release. Carrier will send this indicator if the reason for splitting is Container Release.

AMS: Use to indicate that Customer is to Handle AMS Filing.

NVO–: NVOCC SCAC. NVOCC SCAC for US Customs AMS Filing. The code will be followed the NVOCC SCAC.

CCN–: Canadian Cargo Control Number. This code is followed by the Cargo Control Number. Typically provided by the Carrier for use by Registered Forwarders in Supplementary Cargo Reports filed with CBSA in Canada.

UCN–: Customs Export Declaration Unique Consignment Reference (DUCR). Typically provided by the Exporter or its Agent for shipments departing Great Britain.

Examples:

K1*ACC–UNDG NBR IMO CODE~
K1*AAF–VESSEL RATE OF EXCHANGE IFORMATION~
K1*AAI–REASON FOR DECLINE~
K1*ABD–THIS IS SPLIT 1 OF 3 OF ORIG BKG REQUEST 4009878~
K1*ABV–TERMS AND CONDITIONS~
K1*AES–BOOOKING CONFIRMED WITH AMENDMENTS~
K1*ACD–BOKING IS IN PENDING STATUS BECAUSE...~
K1*SAV~
K1*CHG~
K1*HCV~
K1*EAV~
K1*SPL–BOOKING IS SPLIT/EXTRACTED BECAUSE...~
K1*DOC~
K1*PCR~
K1*RLD~
K1*AMS~
K1*NVO–SCAC~
K1*CCN–1234_CN~
K1*UCN–1234_UCN~

For carrier Cancellation/Decline (B104 = 'D') or Replacement (B104='R') Code = 'AAI' is Mandatory.

B. Transport Details

1. Transport Legs Codes. The Transport Leg Code (Pre Carriage, Main Carriage and On Carriage) is followed by the transport means code (refer to the K102 description).

Codes: PRE :Pre Carriage MAIN :Main Carriage ON :On Carriage

Examples:
K1*PRE*TRK~
K1*MAIN*OV~
K1*ON*RE~

2. Transport Leg Port of Load and Port of Discharge.

The Main Carriage Locations must always be preceded by the Main Carriage Stage (K1*MAIN). If there is no preceding MAIN Carriage, the Main location will be ignored.

The Pre Carriage Locations must always be preceded by the Pre Carriage Stage (K1*PRE). If there is no preceding PRE Carriage, the Pre location will be ignored.

The On Carriage Locations must always be preceded by the On Carriage Stage (K1*ON). If there is no preceding ON Carriage, the On carriage location will be ignored.

The location must be a valid UNLOC code.

Codes:

MPOL :Main Carriage Port of Load
MPOD :Main Carriage Port of Discharge
PPOL :Pre Carriage Port of Load
PPOD :Pre Carriage Port of Discharge
OPOL :On Carriage Port of Load

OPOD :On Carriage Port of Discharge

Example:

K1*MPOL*UNLOC~
K1*MPOL*USNYC~

3. Transport Leg Estimated Time of Arrival and Departure.

The Main Carriage ETA Date (META) must always be preceded by a Main Carriage Port of Discharge (K1*MPOD). The Main Carriage ETD Date (METD) must always be preceded by a Main Carriage Port of Load (K1*MPOL). META and METD will be ignored if there no corresponding MPOD and MPOL respectively.

The On Carriage ETA Date (OETA) must always be preceded by a Main Carriage Port of Discharge (K1*OPOD). The On Carriage ETD Date (OETD) must always be preceded by an On Carriage Port of Load (K1*OPOL). OETA and OETD will be ignored if there no corresponding OPOD and OPOL respectively.

The Pre Carriage ETA Date (PETA) must always be preceded by a Pre Carriage Port of Discharge (K1*PPOD). The Pre Carriage ETD Date (PETD) must always be preceded by a Pre Carriage Port of Load (K1*PPOL). PETA and PETD will be ignored if there no corresponding PPOD and PPOL respectively.

The date must be in the format CCYYMMDD. Time must be in the format HHMM using the 24 hour clock system. Midnight must be expressed as 0000.

Codes: META:

Main Carriage ETA

METD: Main Carriage ETD
PETA: Pre Carriage ETA
PETD: Pre Carriage ETD
OETA: On Carriage ETA
OETD: On Carriage ETD

Example:

K1* META*20090619~
K1* META*200907022300~
K1* META*200907020000~

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
K101	**61**	**Free-Form Message** Free-form information	**O AN 1/512**
K102	**61**	**Free-Form Message** Free-form information	**O AN 1/512**

The following are the transport means code that must be sent if the K1 code is PRE, MAIN or ON.

CS – Container Ship (Vessel capable of carrying containers and other cargo)
SHIP – Ship (A large vessel navigating deep water)
OV – Ocean Vessel (An ocean-going vessel that is not a ship)
BARG – Barge (A category of boat used to transport material over water)
RE – Rail Express
TRK – Truck (An automotive vehicle for hauling goods)

The following are the payment method codes that can be provided for the different charge types.
Pre-Paid/Collect Indicator:

ELS: Payable Elsewhere
COL: Collect
PP: Pre Paid

Segment: **SE** **Transaction Set Trailer**
Position: 010
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:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.

Data Element Summary

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

Segment: **GE** **Functional Group Trailer**
Position: 020
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information
Syntax Notes:
Semantic Notes: **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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**GE01**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M**	**N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 030
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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