300 Reservation (Booking Request) (Ocean)

Functional Group ID=RO

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Reservation (Booking Request) (Ocean) Transaction Set (300) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a shipper or a forwarder to reserve space, containers and equipment for transport by ocean vessel.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0050	ISA	Interchange Control Header	M	1		
M	0075	GS	Functional Group Header	M	1		
M	0100	ST	Transaction Set Header	M	1		
M	0200	B1	Beginning Segment for Booking or Pickup/Delivery	M	1		
M	0250	G61	Contact	M	3		
Not Used	0300	Y6	Authentication	O	2		
Not Used	0400	Y7	Cargo Booking Priority	O	1		
M	0500	Y1	Space Reservation Request	M	1		
			LOOP ID - Y2			999	
	0600	Y2	Container Details	O	1		
	0650	W09	Equipment and Temperature	O	27		
	0690	N9	Extended Reference Information	O	100		
Not Used	0700	R2A	Route Information with Preference	O	25		
			LOOP ID - N1			15	
M	0800	N1	Party Identification	M	1		
Not Used	0900	N2	Additional Name Information	O	1		
	1000	N3	Party Location	O	2		
	1100	N4	Geographic Location	O	1		
	1200	G61	Contact	O	3		
	1250	DTM	Date/Time Reference	O	6		
			LOOP ID - R4			11	
M	1300	R4	Port or Terminal	M	1		
	1400	DTM	Date/Time Reference	O	2		
Not Used	1500	W09	Equipment and Temperature	O	1		
	1600	H3	Special Handling Instructions	O	4		
Not Used	1700	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	0100	LX	Transaction Set Line Number	M	1		
Not Used	0200	N7	Equipment Details	O	1		
Not Used	0210	W09	Equipment and Temperature	O	1		
Not Used	0300	DTM	Date/Time Reference	O	1		
M	0400	L0	Line Item - Quantity and Weight	M	1		
			LOOP ID - PO4			1	
M	0450	PO4	Item Physical Details	M	1		
	0475	MEA	Measurements	O	2		
M	0500	L5	Description, Marks and Numbers	M	1		
	0600	L4	Measurement	O	1		
Not Used	0650	L1	Rate and Charges	O	1		
			LOOP ID - H1			10	
M	0700	H1	Hazardous Material	M	1		
	0800	H2	Additional Hazardous Material Description	O	18		
			LOOP ID - LH1			100	
Not Used	0810	LH1	Hazardous Identification Information	O	1		
Not Used	0820	LH2	Hazardous Classification Information	O	4		
Not Used	0830	LH3	Hazardous Material Shipping Name Information	O	10		
Not Used	0840	LFH	Free-form Hazardous Material Information	O	25		
Not Used	0850	LEP	EPA Required Data	O	3		
Not Used	0860	LH4	Canadian Dangerous Requirements	O	1		
Not Used	0870	LHT	Transborder Hazardous Requirements	O	3		
Not Used	0880	LHR	Hazardous Material Identifying Reference Numbers	O	5		
Not Used	0890	PER	Administrative Communications Contact	O	5		
	0900	V1	Vessel Identification	O	1		
Not Used	1000	V9	Event Detail	O	10		
	1100	K1	Remarks	O	999		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	SE	Transaction Set Trailer	M	1		
M	0105	GE	Functional Group Trailer	M	1		
M	0110	IEA	Interchange Control Trailer	M	1		

Segment: **ISA** **Interchange Control Header**
Position: 0050
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*Sender ID *ZZ*MSCU *010925*1330*U*00503*000010000*0*P*^

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code identifying the type of information in the Authorization Information Accepted Values: 00 No Authorization Information Present (No Meaningful Information in I02)	**M 1 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 1 AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code identifying the type of information in the Security Information Accepted Values: 00 No Security Information Present (No Meaningful Information in I04)	**M 1 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 1 AN 10/10**
M	**ISA05**	**I05**	**Interchange ID Qualifier** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Accepted Values: ZZ Mutually Defined	**M 1 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 Sender ID	**M 1 AN 15/15**
M	**ISA07**	**I05**	**Interchange ID Qualifier** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified Accepted Values: ZZ Mutually Defined	**M 1 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 MSCU	**M 1 AN 15/15**
M	**ISA09**	**I08**	**Interchange Date** Date of the interchange	**M 1 DT 6/6**

			YYMMDD			
M	**ISA10**	**I09**	**Interchange Time** Time of the interchange	**M**	**1**	**TM 4/4**
			HHMM			
M	**ISA11**	**I65**	**Repetition Separator** Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	**M**	**1**	**AN 1/1**
M	**ISA12**	**I11**	**Interchange Control Version Number** Code specifying the version number of the interchange control segments	**M**	**1**	**ID 5/5**
			Accepted Values:			
			00503 Standards Approved for Publication by ASC X12 Procedures Review Board through October 2005			
M	**ISA13**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M**	**1**	**N0 9/9**
M	**ISA14**	**I13**	**Acknowledgment Requested** Code indicating sender's request for an interchange acknowledgment	**M**	**1**	**ID 1/1**
			Accepted Values:			
			0 No Interchange Acknowledgment Requested			
M	**ISA15**	**I14**	**Interchange Usage Indicator** Code indicating whether data enclosed by this interchange envelope is test, production or information	**M**	**1**	**ID 1/1**
			Accepted Values:			
			P Production Data			
			T Test Data			
M	**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**	**1**	**AN 1/1**

Segment: **GS** **Functional Group Header**
Position: 0075
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*Sender ID*MSCU*20010925*1330*1000*X*005030

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Accepted Values: RO — Ocean Booking Information (300, 301, 303)	**M**	**1**	**ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners Sender Id	**M**	**1**	**AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners MSCU	**M**	**1**	**AN 2/15**
M	**GS04**	**373**	**Date** Date expressed as CCYYMMDD	**M**	**1**	**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)	**M**	**1**	**TM 4/8**
M	**GS06**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**1**	**N0 1/9**
M	**GS07**	**455**	**Responsible Agency Code** Code used in conjunction with Data Element 480 to identify the issuer of the standard Accepted Values: X — Accredited Standards Committee X12	**M**	**1**	**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 Accepted Values: 005030 — Standards Approved for Publication by ASC X12 Procedures Review Board through October 2005	**M**	**1**	**AN 1/12**

Segment: **ST** **Transaction Set Header**
Position: 0100
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).
2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.
Comments:
Notes: ST*300*0001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set Accepted Values: 300 Reservation (Booking Request) (Ocean)	**M**	**1**	**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**	**1**	**AN 4/9**
Not Used	**ST03**	**1705**	**Implementation Convention Reference**	**O**	**1**	**AN 1/35**

Segment: **B1** **Beginning Segment for Booking or Pickup/Delivery**
Position: 0200
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 B101 is the Standard Carrier Alpha Code (SCAC) of either the carrier receiving the booking request or the carrier sending the booking confirmation.
2 B103 is either the date of the booking request or the date the booking was accepted by the carrier.
3 If B105 is "Y", partial loadings are allowed. If B105 is "N", partial loadings are not allowed.
4 B106 should be sent if the B104 action code is a "D" for decline.
Comments:
Notes: B1**SI_2499458*20010321*N~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
Not Used	**B101**	**140**	**Standard Carrier Alpha Code**	**M**	**1**	**ID 2/4**
M	**B102**	**145**	**Shipment Identification Number**	**M**	**1**	**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)			
			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) It must be a unique value for the Shipment. Value will be used for booking updates and deletions. No blanks or special characters allowed. For a New Booking (B104 = N), Shipment ID must be unique among all active (not terminated) bookings for the Booker Party. Shipment ID cannot be provided as the sole identifier for a booking change/amendment (B104 = U) or cancellation (B104 = D) of Bookings that have been Split. Split Bookings inherit the Shipment ID of the booking that was split.			
M	**B103**	**373**	**Date**	**M**	**1**	**DT 8/8**
			Date expressed as CCYYMMDD			
			Booking Request Date Booking Cancellation Date Booking Change Date Depending on B104 Code			
M	**B104**	**558**	**Reservation Action Code**	**M**	**1**	**ID 1/1**
			Code identifying action on reservation or offering			
			Accepted Values:			
			D Reservation Cancelled			
			N New			
			U Change			
			Applicable only for bookings that are in confirmed or pending status in MSC system			
	B105	**1073**	**Yes/No Condition or Response Code**	**O**	**1**	**ID 1/1**
			Code indicating a Yes or No condition or response			
			Used by MSC to indicate that the Booker is requesting for a release number for each container (Per Container Release Number).			

			Y – Per Container Release Number Requested Only applicable when Reservation Action Code is 'N' – New. Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**B106**	**1658**	**Shipment or Work Assignment Decline Reason Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 3/3**

Segment: **G61** **Contact**
Position: 0250
Loop:
Level: Heading
Usage: Mandatory
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.
Semantic Notes:
Comments: **1** G6103 qualifies G6104.
Notes: G61*IC*GENERAL CONTACT NAME*TE*(901) 338-5598~

Only the first instance of the G6102 element will be stored

A maximum of 3 G61 loops can be provided but the Name (G6102) in the first G61 loop is processed. Name in the succeeding G61 loops will be ignored.

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 Accepted Values: IC Information Contact	**M**	**1**	**ID 2/2**
M	**G6102**	**93**	**Name** Free-form name Maximum 35 characters captured.	**M**	**1**	**AN 1/60**
	G6103	**365**	**Communication Number Qualifier** Code identifying the type of communication number Accepted Values: EM Electronic Mail FX Facsimile TE Telephone	**X**	**1**	**ID 2/2**
	G6104	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X**	**1**	**AN 1/512**
Not Used	**G6105**	**443**	**Contact Inquiry Reference**	**O**	**1**	**AN 1/20**

Segment: **Y1** **Space Reservation Request**
Position: 0500
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify information used to make a reservation for space on an ocean vessel
Syntax Notes: **1** If either Y102 or Y109 is present, then the other is required.
Semantic Notes: **1** Y102 is the date the shipment for which space reservation is requested to be available at the origin.
Comments:
Notes: Y1********DD~

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		
Not Used	**Y101**	**135**	**Sailing/Flight Date Estimated**	**O**	**1**	**DT 8/8**
Not Used	**Y102**	**373**	**Date**	**O**	**1**	**DT 8/8**
Not Used	**Y103**	**140**	**Standard Carrier Alpha Code**	**O**	**1**	**ID 2/4**
Not Used	**Y104**	**91**	**Transportation Method/Type Code**	**O**	**1**	**ID 1/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**Y105**	**98**	**Entity Identifier Code**	**O**	**1**	**ID 2/3**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**Y106**	**19**	**City Name**	**O**	**1**	**AN 2/30**
Not Used	**Y107**	**156**	**State or Province Code**	**O**	**1**	**ID 2/2**
	Y108	**375**	**Tariff Service Code**	**O**	**1**	**ID 2/2**
			Code specifying the types of services for rating purposes			
			If DD (Door-to-Door service) is coded then complete (N1, N3 and G61) Ship From (SF) and Ship To (ST) information is mandatory. If DP (Door-to-Pier service) is coded then complete (N1, N3 and G61) Ship From (SF) is mandatory. If PD (Pier-to-Door service) is coded then complete (N1, N3 and G61) Ship To (ST) is mandatory. Accepted Values:			
			DD Door-to-Door Rate applies for shipments in door-to-door service Door-to-Door Carrier Haulage at Export, Carrier Haulage at Import			
			DP Door-to-Pier Rate applies for shipments in door-to-ocean carrier's port/terminal pier service Door –to-Pier Carrier Haulage at Export, Merchant Haulage at Import			
			PD Pier-to-Door Rate applies for shipments in pier-to-door service Pier-to-Door Merchant Haulage at Export, Carrier Haulage at Import			
			PP Pier-to-Pier			

				All cargo other than that specified in codes HH, HP, or PH whether shipped in containers or otherwise All other cargo other than that specified in codes DD, DP, or PP. Pier-to-Pier Merchant Haulage at Export, Merchant Haulage at Import			
Not Used	**Y109**	**374**	**Date/Time Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.		**O**	**1**	**ID 3/3**

Segment: **Y2** **Container Details**
Position: 0600
Loop: Y2 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify container information and transportation service to be used
Syntax Notes:
Semantic Notes:
Comments:
Notes: Y2*5***42G0~
This segment will not be processed if received in a Cancellation transaction (B104 = D).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**Y201**	**95**	**Number of Containers** Number of shipping containers Number of Containers must be numeric whole number greater than zero.	**M**	**1**	**N0 1/4**
Not Used	**Y202**	**78**	**Container Type Request Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/1**
	Y203	**56**	**Type of Service Code** Code specifying extent of transportation service requested MSC Will use this Element to identify the Equipment Ownership. Acceptable values are: 01 – Shipper Owned 02 – Carrier Owned	**O**	**1**	**ID 2/2**
M	**Y204**	**24**	**Equipment Type** Code identifying equipment type Must be a valid MSC Supported Container Type Code	**M**	**1**	**ID 4/4**
Not Used	**Y205**	**91**	**Transportation Method/Type Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/2**
Not Used	**Y206**	**177**	**Intermodal Service Code**	**O**	**1**	**ID 1/2**
Not Used	**Y207**	**140**	**Standard Carrier Alpha Code**	**O**	**1**	**ID 2/4**
Not Used	**Y208**	**464**	**Container Terms Code**	**O**	**1**	**ID 3/3**
Not Used	**Y209**	**465**	**Container Terms Code Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/1**
Not Used	**Y210**	**466**	**Total Stop-offs**	**O**	**1**	**N0 1/2**

Segment: **W09** **Equipment and Temperature**
Position: 0650
Loop: Y2 Optional
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.
2 If either W0904 or W0905 is present, then the other is required.
Semantic Notes:
1 W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
2 W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
3 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
4 W0908 is the humidity percentage.
5 W0909 is the number of air exchanges per hour.
Comments:
Notes:

W09*CN*-15*FA***TCI-Reefer Comments**40*2~
MSC requires that the set temperature (W0902) be the same for all W09 segment in the transaction.

MSC will only accept 3 digits (including the minus sign).

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).

Only one of each code can be sent per Y2 Loop.

If multiple W09 is sent, the Temperature, Air Flow and Humidity Setting are processed from the first W09 segment provided. Temperature, Air Flow and Humidity settings from the succeeding W09 loops will be ignored.

This W09 Segment can only be used if Y2 is provided. The application will ignore this segment if it has no corresponding Y2.

If number of containers (Y201) 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

This segment will not be processed for carrier Cancellation/Decline (B104 = 'D') or Replacement (B104 = 'R').

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**W0901**	**40**	**Equipment Description Code** Code identifying type of equipment used for shipment Accepted Values: CN Container	**M**	**1**	**ID 2/2**
	W0902	**408**	**Temperature** Temperature Reefer temperature. For NON ACTIVE reefer, set the temperature to 999.	**X**	**1**	**R 1/3**
	W0903	**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 Mandatory if W0902 is provided. Accepted Values: CE Centigrade, Celsius FA Fahrenheit	**X**	**1**	**ID 2/2**
Not Used	**W0904**	**408**	**Temperature**	**X**	**1**	**R 1/4**
Not Used	**W0905**	**355**	**Unit or Basis for Measurement Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 2/2**
	W0906	**3**	**Free-form Message** Free-form text The first 4 characters (including the dash) of the comments is the code that identifies equipment information provided in the free form element. A. Temperature Control Instructions 1. TCI-: Temperature Control Instructions 2. 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. 3. 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. 4. 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. 5. 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. 6. ICP-: Number of USD probes for ICT service 7. 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. 8. NTP-: Number of temperature probes requested	**O**	**1**	**AN 1/512**

9. TVA-: Temperature Variance Details

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 TestedEquipment 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
Note 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 - Informational Only.
2. CCN-: Canadian Cargo Control Number
3. UCN-: Customs Export Declaration Unique Consignment Reference (DUCN). Typically provided by the Exporter or its Agent for shipments departing Great Britain.

Note that FFF and FLL are mutually exclusive
4a. FFF: FCL/FCL: 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: 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** **1** **ID 1/1**

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

Accepted Values:

E	Closed

		G Vent Open			
W0908	**488**	**Percent, Integer Format**	**O**	**1**	**N0 1/3**
		Percent given in integer format (e.g., 0 through 100 represents 0% through 100%)			
		Humidity Percentage			
W0909	**380**	**Quantity**	**O**	**1**	**R 1/18**
		Numeric value of quantity			
		Air Exchange Per Hour in Cubic Meters			

Segment: **N9** **Extended Reference Information**
Position: 0690
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 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.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes: N9*FN*FN_3909480~

Except for OCBN (BN), all reference number can have a maximum length of 35 characters. OCBN (BN) can have a maximum length of 30 characters.

Only one of TS (Tariff Number), AAL (Outbound Booking Agent Reference), BN (Booking Number), CT (Contract Number), L6 (Contract line item number) and ZZ (Client's unique reference) may be sent.

Multiple occurrences of all other references may be provided as follows: Up to 30 occurrences of BM (Bill of Lading Number) and TN (Internal Transaction Number). Any combination of CT (Contract Party Reference), VT (Vehicle Identification Number), L8 (Consignee's Reference), FF (Freight Forwarders Reference), ON (Purchase Order Number) and SI (Shipper's Reference) up to 60 occurrences.

TS (Tariff number) and Q1 (Contract reference number) are mutually exclusive.

L6 (Contract line Item number) must only be transmitted when Q1 (Contract number) is provided.

Customers must provide at least the Client's unique reference (ZZ) or Booking Number (BN) of the following reference numbers for Amendment (B104 = 'U') and Reservation Cancelled (B104 = 'D').

MSC RECOMMENDS that TS (Tariff Number) or CT (Contract Number) be provided for Booking Request (B104 = 'N') and Amendment (B104 = 'U') transactions.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes		
M	**N901**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification		**M**	**1**	**ID 2/3**
			Accepted Values:				
			AAL	Agent Number			
				Outbound Booking Agent Reference			
			BM	Bill of Lading Number			
			BN	Booking Number			
				Ocean Carrier Booking Number (OCBN).			
			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			

			Contract Line Item Number. Must only be used when Q1 (Contract Number) is also provided.			
			L8 Consignee's Release Number A number which uniquely identifies a release against the consignee's purchase order PO Purchase Order Number Q1 Quote Number SI Shipper's Identifying Number for Shipment (SID) A unique number (to the shipper) assigned by the shipper to identify the shipment Shipper Reference Number 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 Freight tariff number VT Motor Vehicle ID Number The identification number which uniquely distinguishes one vehicle from another through the lifespan of the vehicle. ZZ Mutually Defined Client's unique reference			
	N902	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Except for OCBN (BN), all reference number can have a maximum length of 35 characters. OCBN (BN) can have a maximum length of 30 characters.	**X**	**1**	**AN 1/80**
Not Used	**N903**	**369**	**Free-form Description**	**O**	**1**	**AN 1/45**
Not Used	**N904**	**373**	**Date**	**O**	**1**	**DT 8/8**
Not Used	**N905**	**337**	**Time**	**O**	**1**	**TM 4/8**
Not Used	**N906**	**623**	**Time Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
Not Used	**N907**	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	**O**	**1**	
Not Used	**C04001**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.	**M**		**ID 2/3**
Not Used	**C04002**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**M**		**AN 1/80**
Not Used	**C04003**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.	**X**		**ID 2/3**
Not Used	**C04004**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**		**AN 1/80**
Not Used	**C04005**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification Refer to 005030 Data Element Dictionary for acceptable code values.	**X**		**ID 2/3**

Not Used	**C04006**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**X**	**AN 1/80**

Segment: **N1** **Party Identification**
Position: 0800
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** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other 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*ZZ*COMPANY NAME*94*802438~
N1*CA* COMPANY NAME *93*CA10~

(ZZ) Booking Party and (CA) Carrier are mandatory

Either (SH) Shipper or (FW) Forwarder must be provided

You must use the MSC Customer ID when N103 = 94 or your DUNS and BRADSTREET when N103=1.

If Door-to-Door service (DD in Y108 element) then complete (N1, N3 and G61) Ship From (SF) and Ship To (ST) information is recommended.

If Door-to-Pier service (DP), then complete (N1, N2, N3 and G61) Ship From (SF) information is recommended.

If Pier-to-Door service (PD), then complete (N1, N2, N3 and G61) Ship To (ST) information is recommended.

The N104 value for the 'CA' party is the carrier SCAC code. If using SCAC code, use qualifier '93' in N103.

Only one of each party type may be sent per container group with the exception of Intermediate Export Stop Off Location (LL) which may be sent multiple times.

MSC RECOMMENDS customers send Intermediate Export Stop Offs (LL) only when Carrier Haulage at Export is being requested (Y1 = PP or PD).

MSC RECOMMENDS customers send Empty Container Pick Up Location (CL) only when Merchant Haulage at Export is being requested (Y1 = DD or DP).

MSC RECOMMENDS customers send Subcontractor (28) only when Super Freezer Service or In-Transit Cold Sterilization Service is being provided by someone other than the carrier.

Parties defined in this segment applies to the whole shipment.

For Cancellation (B104 = D), only (ZZ) Booking Party and (CA) Carrier will be processed, the rest are ignored.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**N101**	**98**	**Entity Identifier Code**	**M**	**1**	**ID 2/3**

			Code identifying an organizational entity, a physical location, property or an individual Accepted Values: 28 Subcontractor Firm carrying out a part of the works for a contractor. C9 Contract Holder Contract Party CA Carrier CL Container Location Requested Empty container pick up location. CN Consignee CP Party to Receive Cert. of Compliance Party responsible for the payment of freight. FW Forwarder LL Location of Load Exchange (Export) Name of the location at which load (trailer) is exchanged with another motor carrier for export Intermediate Export Stop Off Location N1 Notify Party no. 1 N2 Notify Party no. 2 NP Notify Party for Shipper's Order SF Ship From SH Shipper ST Ship To ZZ Mutually Defined Booking Party			
	N102	**93**	**Name** Free-form name Only the first 35 characters will be processed	**X**	**1**	**AN 1/60**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) Accepted Values: 1 D-U-N-S Number, Dun & Bradstreet 94 Code assigned by the organization that is the ultimate destination of the transaction set MSC assigned code.	**X**	**1**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Only the first 35 characters will be processed	**X**	**1**	**AN 1/80**
Not Used	**N105**	**706**	**Entity Relationship Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
Not Used	**N106**	**98**	**Entity Identifier Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/3**

Segment: **N3** **Party Location**
Position: 1000
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*200 Maple Avenue*Additional Address Information~

A maximum of 2 N3 loops can be received. but only 210 characters will be processed.

Data Element Summary

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

Segment: **N4** **Geographic Location**
Position: 1100
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes:
1 Only one of N402 or N407 may be present.
2 If N406 is present, then N405 is required.
3 If N407 is present, then N404 is required.
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**	**1**	**AN 1/30**
	N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O**	**1**	**ID 2/2**
	N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O**	**1**	**ID 1/15**
	N404	**26**	**Country Code** Code identifying the country Accepted Values: ISO Country Code	**O**	**1**	**ID 2/3**
Not Used	**N405**	**309**	**Location Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 1/2**
Not Used	**N406**	**310**	**Location Identifier**	**O**	**1**	**AN 1/30**
Not Used	**N407**	**1715**	**Country Subdivision Code**	**X**	**1**	**ID 1/3**

Segment: **G61** **Contact**
Position: 1200
Loop: N1 Mandatory
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.
Semantic Notes:
Comments: **1** G6103 qualifies G6104.
Notes: G61*CN*General Contact*TE*9736872039~

If in an N1 loop identifying (SF) Ship From or (ST) Ship To then segment and all elements identified is Mandatory.

This segment will not be processed if received in a Cancellation (B104 = D) transaction.

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 Accepted Values: CN General Contact	**M**	**1**	**ID 2/2**
M	**G6102**	**93**	**Name** Free-form name Maximum 35 characters captured.	**M**	**1**	**AN 1/60**
	G6103	**365**	**Communication Number Qualifier** Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	**X**	**1**	**ID 2/2**
	G6104	**364**	**Communication Number** Complete communications number including country or area code when applicable	**X**	**1**	**AN 1/512**
Not Used	**G6105**	**443**	**Contact Inquiry Reference**	**O**	**1**	**AN 1/20**

Segment: **DTM** **Date/Time Reference**
Position: 1250
Loop: N1 Mandatory
Level: Heading
Usage: Optional
Max Use: 6
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes:

The following are dates associated with the equipment:
(118) Pick up of full container at Door/Ship From Location
(996) Placement of empty equipment at Door/Ship From Location
(992) Requested Pick up date/time of empty equipment at Ship To Location
(002) Requested delivery date/time of full container at Ship To Location
(144) Date/time container will be positioned/delivered at the Intermediate Export Stop Off
Location
(087) Pick up of full container at 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*002*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*087*20090619*1200~
The below date qualifier will only be sent for N1 segment Empty Container Pick-up Location (N101 = 'CL').
DTM*992*20090619*1200~

Only 1 of each DTM code can be provided per N1 loop.

Each DTM code will be mapped to an N1 party. If the DTM code does not have a corresponding N1 code/segment, then the DTM will be ignored.

This DTM segment can only be used if Segment Y2 is provided.

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 002 Delivery Requested Requested delivery date/time of full container at Ship To Location 087 Requested for Shipment (Week of) Pick up of full container at Intermediate Export Stop Off Location 118 Requested Pickup Pick up of full container at Door/Ship From Location	**M 1 ID 3/3**

		144	Estimated Acceptance Date/time container will be positioned/delivered at the intermediate export stop off location.		
		992	Date Requested Requested Pick up date/time of empty equipment at Ship To Location		
		996	Required Delivery A date on which or before, ordered goods or services must be delivered Placement of empty equipment at Door/Ship From Location		
DTM02	**373**	**Date**		**X**	**1** **DT 8/8**
		Date expressed as CCYYMMDD			
DTM03	**337**	**Time**		**X**	**1** **TM 4/8**
		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)			
DTM04	**623**	**Time Code**		**O**	**1** **ID 2/2**
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 005030 Data Element Dictionary for acceptable code values.			
DTM05	**1250**	**Date Time Period Format Qualifier**		**X**	**1** **ID 2/3**
		Code indicating the date format, time format, or date and time format Refer to 005030 Data Element Dictionary for acceptable code values.			
DTM06	**1251**	**Date Time Period**		**X**	**1** **AN 1/35**
		Expression of a date, a time, or range of dates, times or dates and times			

Segment: **R4** **Port or Terminal**
Position: 1300
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*R*UN*USNYC*NEW YORK NEW YORK*NY~

(R) Place of Receipt and (E) Place of Delivery are Mandatory for Booking Requests (B104 = 'N') and Amendment (B104 = 'U').

Only one occurrence of each location type segment will be accepted with the exception of (T) Requested Transshipment location.

MSC RECOMMENDS customers send Booking Office if location is other than the export start location.

This segment will not be processed if received in a Cancellation (B104 = 'D') transaction.

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 Accepted Values: D Port of Discharge (Operational) Port at which cargo is unloaded from vessel E Place of Delivery (Contractual) Place at which cargo leaves its care and custody of carrier L Port of Loading (Operational) Port at which cargo is loaded on vessel O Origin (Operational) Shipper's facility at which shipment begins its movement at cargo's expense Carrier's Booking Office R Place of Receipt (Contractual) Place at which cargo enters the care and custody of carrier T Transshipment Port (Contractual) Place at which cargo is transferred to another carrier Requested Transshipment location	**M 1 ID 1/1**
	R402	**309**	**Location Qualifier** Code identifying type of location UNLOCODE is Preferred. Accepted Values: UN United Nations Location Code (UNLOCODE)	**X 1 ID 1/2**
	R403	**310**	**Location Identifier** Code which identifies a specific location MANDATORY FOR MSC UNLOCODE or ALIAS	**X 1 AN 1/30**

	R404	**114**	**Port Name**	**X**	**1**	**AN 1/24**
			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**	**1**	**ID 2/3**
			Code identifying the country			
Not Used	**R406**	**174**	**Terminal Name**	**O**	**1**	**AN 2/30**
Not Used	**R407**	**113**	**Pier Number**	**O**	**1**	**AN 1/4**
	R408	**156**	**State or Province Code**	**O**	**1**	**ID 2/70**
			Code (Standard State/Province) as defined by appropriate government agency			

Segment: **DTM** **Date/Time Reference**
Position: 1400
Loop: R4 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: DTM*369*20010412~

This segment pertains to the R4 segment immediately preceding this segment.

For (E) Place of Delivery the following DTM qualifiers can be sent: 371 (Estimated Date of Arrival)

For (R) Place of Receipt the following DTM qualifiers can be sent: 369 – Estimated Departure Date

For (L) Port of Load the following DTM qualifiers can be sent: 369 – Estimated Departure Date

For (D) Port of Discharge the following DTM qualifiers can be sent: 371 – Estimated Arrival Date

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 Accepted Values: 369 Estimated Departure Date 371 Estimated Arrival Date	**M**	**1**	**ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD	**X**	**1**	**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) The twenty-four hour clock system must 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 4:30 p.m. is expressed as 1630	**X**	**1**	**TM 4/8**
Not Used	**DTM04**	**623**	**Time Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
Not Used	**DTM05**	**1250**	**Date Time Period Format Qualifier**	**X**	**1**	**ID 2/3**

Refer to 005030 Data Element Dictionary for acceptable code values.

Not Used	**DTM06**	**1251**	**Date Time Period**	**X**	**1**	**AN 1/35**

Segment: **H3** **Special Handling Instructions**
Position: 1600
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 Accepted Values: 01 Out of Gauge Shipment 02 Hazardous Shipment 03 Temperature Controlled Shipment 04 Environmental Polluant Shipment	**O**	**1**	**ID 2/3**
Not Used	**H302**	**153**	**Special Handling Description**	**X**	**1**	**AN 2/30**
Not Used	**H303**	**241**	**Protective Service Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/4**
Not Used	**H304**	**242**	**Vent Instruction Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/7**
Not Used	**H305**	**257**	**Tariff Application Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/1**

Segment: **LX** **Transaction Set Line Number**
Position: 0100
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~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**LX01**	**554**	**Assigned Number** Number assigned for differentiation within a transaction set MSC will ignore the Assigned Number (LX01) provided for this element since the Commodity Line Item Number is derived from the L0 segment.	**M**	**1**	**N0 1/6**

Segment: **L0** **Line Item - Quantity and Weight**
Position: 0400
Loop: LX 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 either L002 or L003 is present, then the other 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.
5 If L011 is present, then L004 is required.
6 If either L013 or L015 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.
2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

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:
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

The L0 segment will be used to report outer Packaging. The L008/09 contains the Outer package type and quantity.

The PO4 within the L0 segment contains Inner and/or Inner-inner packaging details. The PO4 segment can iterate for each additional Inner package type.

For hazardous commodity, package type code or package description and number of packages must be provided.

Number of Packages must be a whole number greater than zero.

MSC allows for a L0 segment to be sent without package count and package type code or package description but if multiple package levels are sent (i.e. with inner and inner-inner packaging), the package code/description and number of packages must be provided for all package level.

If package code or package description is provided then number of package must also be provided.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**L001**	**213**	**Lading Line Item Number** Sequential line number for a lading item	**M**	**1**	**N0 1/5**
Not Used	**L002**	**220**	**Billed/Rated-as Quantity**	**X**	**1**	**R 1/11**
Not Used	**L003**	**221**	**Billed/Rated-as Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 2/2**
	L004	**81**	**Weight** Numeric value of weight Mandatory for MSC.	**X**	**1**	**R 1/18**

		Numeric values must conform to below rules: - Decimal must be represented using the dot ('.'). Only 1 decimal can be provided. - Group separators ',' must not be sent. - Maximum 3 digits of precision allowed. Examples: valid - "1000.123" invalid - "1,000.123", "1.000,123"			
L005	**187**	**Weight Qualifier** Code defining the type of weight	**X**	**1**	**ID 1/2**
		Accepted Values: G Gross Weight			
L006	**183**	**Volume** Value of volumetric measure	**X**	**1**	**R 1/18**
		Numeric values must conform to below rules: - Decimal must be represented using the dot ('.'). Only 1 decimal can be provided. - Group separators ',' must not be sent. - Maximum 4 digits of precision allowed Examples: valid - "1000.1234" invalid - "1,000.1234", "1.000,1234"			
L007	**184**	**Volume Unit Qualifier** Code identifying the volume unit	**X**	**1**	**ID 1/1**
		Accepted Values: E Cubic Feet X Cubic Meters			
L008	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity	**C**	**1**	**N0 1/8**
		Note: Must be a valid whole number greater than zero (no commas or decimals). If Package Type Code (L009) or Package Type Description (L010) is provided then the Lading Quantity (L008) 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.			
L009	**211**	**Packaging Form Code** Code for packaging form of the lading quantity	**C**	**1**	**ID 3/3**
		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. Describes the Outer Package Type. This element will contain the 3 character packaging type code BAG Bag BKG Bag, Super Bulk BBL Barrel BDL Bundle BOB Bobbin BOX Box BSK Basket or hamper			

BXT Bucket
CAG Cage
CAS Case
CHS Chest
COL Coil
CON Cone
CRT Crate
CSK Cask
CTN Carton
CYL Cylinder
DRM Drum
ENV Envelope
FIR Firkin
FRM Frame
FSK Flask
HGH Hogshead
HPR Hamper
JAR Jar
JUG Jug
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
SLV Sleeve
SPL Spool
SRW Shrink Wrapped
TBE Tube
TRC Tierce
TRK Trunk
TRY Tray
TUB Tub
UNP Unpacked
VIL Vial
VPK Vanpack

Refer to 005030 Data Element Dictionary for acceptable code values.

L010	**458**	**Dunnage Description**	**O**	**1**	**AN 1/25**

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 Mandatory for MSC Accepted Values K Kilograms L Pounds	**O**	**1**	**ID 1/1**
Not Used	**L012**	**56**	**Type of Service Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
Not Used	**L013**	**380**	**Quantity**	**X**	**1**	**R 1/15**
Not Used	**L014**	**211**	**Packaging Form Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 3/3**
Not Used	**L015**	**1073**	**Yes/No Condition or Response Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 1/1**

Segment: **PO4** **Item Physical Details**
Position: 0450
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:
1 If either PO402 or PO403 is present, then the other is required.
2 If PO405 is present, then PO406 is required.
3 If either PO406 or PO407 is present, then the other is required.
4 If either PO408 or PO409 is present, then the other is required.
5 If PO410 is present, then PO413 is required.
6 If PO411 is present, then PO413 is required.
7 If PO412 is present, then PO413 is required.
8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
9 If PO417 is present, then PO416 is required.
10 If PO418 is present, then PO404 is required.

Semantic Notes:
1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3 PO417 is the ending package identifier in a range of identifiers.
4 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 unit of measure of the "Size" identified in the PO402. 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".
2 PO413 defines the unit of measure for PO410, PO411, and PO412.

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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**PO401**	**356**	**Pack** The number of inner containers, or number of eaches if there are no inner containers, per outer container The total number of Inner or Inner-Inner packages. Must be a whole number.	**M**	**1**	**N0 1/8**
	PO402	**357**	**Size** Size of supplier units in pack	**X**	**1**	**R 1/8**

			Default to 1 to satisfy the PO403 and PO402 conditional requirement.				
M	**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 Accepted Values: AB Bulk Pack Package equals Inner-inner. PK Package Package equals Inner	**M**	**1**	**ID 2/2**	
	PO404	**103**	**Packaging Code** 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 BAG Bag BKG Bag, Super Bulk BBL Barrel BDL Bundle BOB Bobbin BOX Box BSK Basket or hamper BXT Bucket CAG Cage CAS Case CHS Chest COL Coil CON Cone CRT Crate CSK Cask CTN Carton CYL Cylinder DRM Drum ENV Envelope FIR Firkin FRM Frame FSK Flask HGH Hogshead HPR Hamper JAR Jar JUG Jug 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 SLV Sleeve SPL Spool	**X**	**1**	**AN 3/5**	

			SRW Shrink Wrapped TBE Tube TRC Tierce TRK Trunk TRY Tray TUB Tub UNP Unpacked VIL Vial VPK Vanpack Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**PO405**	**187**	**Weight Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/2**
Not Used	**PO406**	**384**	**Gross Weight per Pack**	**X**	**1**	**R 1/9**
Not Used	**PO407**	**355**	**Unit or Basis for Measurement Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 2/2**
Not Used	**PO408**	**385**	**Gross Volume per Pack**	**X**	**1**	**R 1/9**
Not Used	**PO409**	**355**	**Unit or Basis for Measurement Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 2/2**
Not Used	**PO410**	**82**	**Length**	**X**	**1**	**R 1/8**
Not Used	**PO411**	**189**	**Width**	**X**	**1**	**R 1/8**
Not Used	**PO412**	**65**	**Height**	**X**	**1**	**R 1/8**
Not Used	**PO413**	**355**	**Unit or Basis for Measurement Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 2/2**
Not Used	**PO414**	**810**	**Inner Pack**	**O**	**1**	**N0 1/6**
Not Used	**PO415**	**752**	**Surface/Layer/Position Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
	PO416	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set Package Description. Used to indicate Inner or Inner-Inner package description depending on the definition in the PO4.	**X**	**1**	**AN 1/35**
Not Used	**PO417**	**350**	**Assigned Identification**	**O**	**1**	**AN 1/20**
Not Used	**PO418**	**1470**	**Number**	**O**	**1**	**N0 1/9**

Segment: **MEA** **Measurements**
Position: 0475
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:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 Only one of MEA04 or MEA12 may be present.
3 If MEA05 is present, then at least one of MEA04 or MEA12 is required.
4 If MEA06 is present, then at least one of MEA04 or MEA12 is required.
5 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
6 Only one of MEA08 or MEA03 may be present.
7 If either MEA11 or MEA12 is present, then the other is required.

Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
2 MEA11 is the external code list for the unit of measure.
3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
Not Used	**MEA01**	**737**	**Measurement Reference ID Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 2/2**
	MEA02	**738**	**Measurement Qualifier** Code identifying a specific product or process characteristic to which a measurement applies Accepted Values: VOL Volume WT Weight	**X**	**1**	**ID 1/3**
	MEA03	**739**	**Measurement Value** The value of the measurement Weight Value: - 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: - 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**	**1**	**R 1/18**
	MEA04	**C001**	**Composite Unit of Measure** To identify a composite unit of measure (See Figures Appendix for examples of use)	**X**	**1**	
M	**C00101**	**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 Accepted Values: CF Cubic Feet CR Cubic Meter KG Kilogram LB Pound	**M**		**ID 2/2**

Not Used	**C00102**	**1018**	**Exponent**	**O**		**R 1/15**
Not Used	**C00103**	**649**	**Multiplier**	**O**		**R 1/10**
Not Used	**C00104**	**355**	**Unit or Basis for Measurement Code**	**O**		**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**C00105**	**1018**	**Exponent**	**O**		**R 1/15**
Not Used	**C00106**	**649**	**Multiplier**	**O**		**R 1/10**
Not Used	**C00107**	**355**	**Unit or Basis for Measurement Code**	**O**		**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**C00108**	**1018**	**Exponent**	**O**		**R 1/15**
Not Used	**C00109**	**649**	**Multiplier**	**O**		**R 1/10**
Not Used	**C00110**	**355**	**Unit or Basis for Measurement Code**	**O**		**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**C00111**	**1018**	**Exponent**	**O**		**R 1/15**
Not Used	**C00112**	**649**	**Multiplier**	**O**		**R 1/10**
Not Used	**C00113**	**355**	**Unit or Basis for Measurement Code**	**O**		**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**C00114**	**1018**	**Exponent**	**O**		**R 1/15**
Not Used	**C00115**	**649**	**Multiplier**	**O**		**R 1/10**
Not Used	**MEA05**	**740**	**Range Minimum**	**X**	**1**	**R 1/20**
Not Used	**MEA06**	**741**	**Range Maximum**	**X**	**1**	**R 1/20**
Not Used	**MEA07**	**935**	**Measurement Significance Code**	**O**	**1**	**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**MEA08**	**936**	**Measurement Attribute Code**	**X**	**1**	**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**MEA09**	**752**	**Surface/Layer/Position Code**	**O**	**1**	**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**MEA10**	**1373**	**Measurement Method or Device**	**O**	**1**	**ID 2/4**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**MEA11**	**1270**	**Code List Qualifier Code**	**X**	**1**	**ID 1/3**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**MEA12**	**1271**	**Industry Code**	**X**	**1**	**AN 1/30**

Segment: **L5** **Description, Marks and Numbers**
Position: 0500
Loop: LX Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:
1 If either L503 or L504 is present, then the other is required.
2 If L507 is present, then L506 is required.
3 If either L508 or L509 is present, then the other is required.
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** Sequential line number for a lading item Defaulted to 1. This element will be ignored.	**O**	**1**	**N0 1/3**
M	**L502**	**79**	**Lading Description** Description of an item as required for rating and billing purposes Mandatory for MSC.	**M**	**1**	**AN 1/512**
	L503	**22**	**Commodity Code** Code describing a commodity or group of commodities Harmonize Code – MSC recommends that customers use 6 character classification codes from the World Customs Organization (WCO) Harmonize System (HS)	**X**	**1**	**AN 1/30**
	L504	**23**	**Commodity Code Qualifier** Code identifying the commodity coding system used for Commodity Code Mandatory if L503 is provided. Accepted values: A – Harmonized Tariff Schedule of the United States Annotated Classification of imported merchandise for rate of duty and statistical purposes B – U.S. Foreign Trade Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States	**X**	**1**	**ID 1/1**
Not Used	**L505**	**103**	**Packaging Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**AN 3/5**
Not Used	**L506**	**87**	**Marks and Numbers**	**X**	**1**	**AN 1/48**
Not Used	**L507**	**88**	**Marks and Numbers Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/2**
Not Used	**L508**	**23**	**Commodity Code Qualifier** Refer to 005030 Data Element Dictionary for acceptable code values.	**X**	**1**	**ID 1/1**
Not Used	**L509**	**22**	**Commodity Code**	**X**	**1**	**AN 1/30**
Not Used	**L510**	**595**	**Compartment ID Code** Refer to 005030 Data Element Dictionary for acceptable code values.	**O**	**1**	**ID 1/1**

Segment: **L4** **Measurement**
Position: 0600
Loop: LX Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe physical dimensions and quantities
Syntax Notes:
Semantic Notes: **1** L406 is the Rounding in Pattern for dimensional shipments.
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**	**1**	**R 1/15**
	L402	**189**	**Width** Shorter measurement of the two horizontal dimensions measured with the object in the upright position	**O**	**1**	**R 1/15**
	L403	**65**	**Height** Vertical dimension of an object measured when the object is in the upright position	**O**	**1**	**R 1/15**
	L404	**90**	**Measurement Unit Qualifier** Code specifying the linear dimensional unit Mandatory if any of the Length, Width or Height is provided. Accepted values: E Feet X Meters	**X**	**1**	**ID 1/1**
Not Used	**L405**	**380**	**Quantity**	**O**	**1**	**R 1/15**
Not Used	**L406**	**1271**	**Industry Code**	**O**	**1**	**AN 1/30**

Segment: **H1** **Hazardous Material**
Position: 0700
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**Hazardous Material Contact*130-2*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 Mandatory for MSC UN Number	**M**	**1**	**AN 4/10**
M	**H102**	**209**	**Hazardous Material Class Code** Code specifying the kind of hazard for a material Mandatory for MSC First IMO Code	**M**	**1**	**AN 1/7**
	H103	**208**	**Hazardous Material Code Qualifier** Code which qualifies the Hazardous Material Class Code (209) Accepted Values: I Intergovernmental Maritime Organization (IMO) Code	**O**	**1**	**ID 1/1**
Not Used	**H104**	**64**	**Hazardous Material Description**	**O**	**1**	**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 only. Emergency Contact Telephone Number should be sent in H2 loop (H201 code = ECN)	**O**	**1**	**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**	**1**	**AN 1/7**
	H107	**77**	**Flashpoint Temperature** The flashpoint temperature for hazardous material	**O**	**1**	**N 1/3**
	H108	**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 Accepted Values: CE Centigrade, Celsius FA Fahrenheit	**X**	**1**	**ID 2/2**
	H109	**254**	**Packing Group Code** 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	**O**	**1**	**ID 1/3**

Segment: **H2** **Additional Hazardous Material Description**
Position: 0800
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. 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, LQD and SLD are mutually exclusive.
GAS: Gas
LQD: Liquid
SLD: Solid
Marine Pollutant Indicator. NMP, MPO and SMP are mutually exclusive.
NMP: Non-Marine Pollutant
MPO: Marine Pollutant
SMP: Severe Marine Pollutant
Description Codes:
1. PSN: Proper Hazardous Material Description. Use of this qualifier is MANDATORY! Maximum allowed length is 512 characters.
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
Note: 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

Note: 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 allowed length is 512 characters.
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-Proper Shipping Name* Proper Shipping Name ~ (MANDATORY)
H2*ECN-6326550183~ (Emergency Contact Phone Number - MANDATORY if Emergency Contact Name is provided)
H2*EMS-1234~ (EMS Number)
H2*TRE-12345~ (TREM Card Number)
H2*IM2-3.2~ (Second IMO) H2*IM3-1.8~ (Third IMO)
H2*GEN-General Hazmat Comments* General Hazmat Comments ~
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** Material name, special instructions, and phone number if any	**M**	**1**	**AN 2/512**
	H202	**274**	**Hazardous Material Classification** Free-form description of hazardous material classification or division or label requirements	**O**	**1**	**AN 1/512**

Segment: **V1** **Vessel Identification**
Position: 0900
Loop:
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide vessel details and voyage number
Syntax Notes: **1** At least one of V101 or V102 is required.
2 If V108 is present, then V101 is required.
Semantic Notes: **1** V103 is the code identifying the country in which the ship (vessel) is registered.
2 V105 identifies the ocean carrier.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
Not Used	**V101**	**597**	**Vessel Code**	**X**	**1**	**ID 1/8**
	V102	**182**	**Vessel Name**	**X**	**1**	**AN 1/28**
			Name of ship as documented in "Lloyd's Register of Ships"			
	V103	**26**	**Country Code**	**O**	**1**	**ID 2/3**
			Code identifying the country			
			2 Character Country Code identifying the country Country where the means of transport is registered.			
	V104	**55**	**Flight/Voyage Number**	**O**	**1**	**AN 1/10**
			Identifying designator for the particular flight or voyage on which the cargo travels			
	V105	**140**	**Standard Carrier Alpha Code**	**O**	**1**	**ID 1/4**
			Standard Carrier Alpha Code			
Not Used	**V106**	**249**	**Vessel Requirement Code**	**O**	**1**	**ID 1/1**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**V107**	**854**	**Vessel Type Code**	**O**	**1**	**ID 2/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**V108**	**897**	**Vessel Code Qualifier**	**O**	**1**	**ID 1/1**
			Refer to 005030 Data Element Dictionary for acceptable code values.			
Not Used	**V109**	**91**	**Transportation Method/Type Code**	**O**	**1**	**ID 1/2**
			Refer to 005030 Data Element Dictionary for acceptable code values.			

Segment: **K1** **Remarks**
Position: 1100
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: The K1 segment will be used to provide general shipment information, transport details and charges information.

A. General Shipment Comments Codes

Only 1 of each code types can be sent.
1. AMS: To indicate that the Customer will Perform AMS Filing
Example: K1*AMS~

2. NVO–: The NVOCC SCAC under which AMS Filing will be done. This code should be followed by the 4 char NVOCC SCAC Code.
Example: K1*NVO–SCAC~

3. GEN–: General Comments/Cancel Comments. This code should be followed by the comments text.
Example: K1*GEN–General Comments*General Comments~

4. AES–: Customer's reason for amending the booking. This code is followed by text containing the customer's reason for amending.
Example: K1*AES–Amendment Comments*Amendment Comments~

5. CCN–: Canadian Cargo Control Number. This code should be followed by the CCN Number. This is typically provided by the Carrier for use by registered Forwarders in Supplementary Cargo Reports filed with CBSA in Canada. Only 45 characters is allowed.
Example: K1*CCN–12345CCN~

6. UCN–: Customs Export Declaration Unique Consignment. This code should be followed by the DUCR Number. Typically provided by the Exporter or its Agent for shipments departing Great Britain. Only 45 characters is allowed.
Example: K1*UCN–12345UCN~

B. Transport Details
Maximum of 99 Transport Leg Details can be sent.
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~

C. Charge Type and Charge Location

1. Type of Charges and Payment Method. Refer to K102 description for the payment method codes.
AC: Additional Charges
BF: Basic Freight
DHC: Destination Haulage Charges
DPC: Destination Port Charges

OPC: Origin Port Charges
OHC: Origin Haulage Charges

Example:
K1*AC*ELS~
K1*BF*COL~
K1*DHC *PP~
2. Charge Type Location. The Place of Payment should be preceded by a charge type. Payment Location is mandatory if Payable Elsewhere. If there's no corresponding Charge Type, the Charge Location will be ignored.
The location must be a valid UNLOC code.

Code:
POP: Place of Payment for Charges.
Examples:
K1*POP*UNLOC~
K1*POP*USNYC~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**K101**	**61**	**Free-form Information** Free-form information Comments Code	**M**	**1**	**AN 1/512**
	K102	**61**	**Free-form Information** Free-form information 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	**O**	**1**	**AN 1/512**

Segment: **SE** **Transaction Set Trailer**
Position: 0100
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.
Notes: SE*21*0001

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**	**1**	**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**	**1**	**AN 4/9**

Segment: **GE** **Functional Group Trailer**
Position: 0105
Loop:
Level: Summary
Usage: Mandatory
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.
Notes: GE*1*1000

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**	**1**	**N0 1/6**
M	**GE02**	**28**	**Group Control Number** Assigned number originated and maintained by the sender	**M**	**1**	**N0 1/9**

Segment: **IEA** **Interchange Control Trailer**
Position: 0110
Loop:
Level: Summary
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:
Semantic Notes:
Comments:
Notes: IEA*1*000010000

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**	**1**	**N0 1/5**
M	**IEA02**	**I12**	**Interchange Control Number** A control number assigned by the interchange sender	**M**	**1**	**N0 9/9**