

300 Reservation (Booking Request) (Ocean)

Functional Group ID=**RO**

Introduction:

This Draft Standard for Trial Use 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:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	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	3	
Not Used	030	Y6	Authentication	O	2	
Not Used	040	Y7	Priority	O	1	
M	050	Y1	Space Reservation Request	M	1	
LOOP ID - Y2					4	
	060	Y2	Container Details	O	1	
Not Used	065	W09	Equipment and Temperature	O	1	
	069	N9	Reference Identification	O	100	
Not Used	070	R2A	Route Information with Preference	O	25	
LOOP ID - N1					15	
M	080	N1	Name	M	1	
Not Used	090	N2	Additional Name Information	O	1	
	100	N3	Address Information	O	2	
	110	N4	Geographic Location	O	1	
	120	G61	Contact	O	3	
LOOP ID - R4					11	
M	130	R4	Port or Terminal	M	1	
	140	DTM	Date/Time Reference	O	2	
	150	W09	Equipment and Temperature	O	1	
	160	H3	Special Handling Instructions	O	4	
Not Used	170	EA	Equipment Attributes	O	5	

Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
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LOOP ID - LX			999
M	010	LX	Assigned Number M 1
	020	N7	Equipment Details O 1
	021	W09	Equipment and Temperature O 20
	030	DTM	Date/Time Reference O 6
LOOP ID - L0			120
M	035	L0	Line Item - Quantity and Weight M 1
LOOP ID - PO4			100
M	038	PO4	Item Physical Details M 1
	039	MEA	Measurements O 2
M	050	L5	Description, Marks and Numbers M 1
	060	L4	Measurement O 1
Not Used	065	L1	Rate and Charges O 1
LOOP ID - H1			99
M	070	H1	Hazardous Material M 1
	080	H2	Additional Hazardous Material Description O 18
	090	V1	Vessel Identification O 1
Not Used	100	V9	Event Detail O 10
	110	K1	Remarks O 999

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	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*Sender ID *ZZ*MSCU
 *010925*1330*U*00400*000010000*0*P*^

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	ISA01	I01	Authorization Information Qualifier	M ID 2/2
			Code to identify the type of information in the Authorization Information	
			Accepted Values:	
			00	No Authorization Information Present (No Meaningful Information in I02)
M	ISA02	I02	Authorization Information	M AN 10/10
			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	ISA03	I03	Security Information Qualifier	M ID 2/2
			Code to identify the type of information in the Security Information	
			Accepted Values:	
			00	No Security Information Present (No Meaningful Information in I04)
M	ISA04	I04	Security Information	M AN 10/10
			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	ISA05	I05	Interchange ID Qualifier	M ID 2/2
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
			Accepted Values:	
			ZZ	Mutually Defined
M	ISA06	I06	Interchange Sender ID	M AN 15/15
			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	ISA07	I05	Interchange ID Qualifier	M ID 2/2
			Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
			Accepted Values:	
			ZZ	Mutually Defined
M	ISA08	I07	Interchange Receiver ID	M AN 15/15
			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	ISA09	I08	Interchange Date	M DT 6/6

			Date of the interchange YYMMDD	
M	ISA10	I09	Interchange Time Time of the interchange HHMM	M TM 4/4
M	ISA11	I10	Interchange Control Standards Identifier Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M ID 1/1
M	ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments Accepted Values: 00400 Standard Issued as ANSI X12.5-1997	M ID 5/5
M	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9
M	ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1) Accepted Values: 0 No Acknowledgment Requested	M ID 1/1
M	ISA15	I14	Usage Indicator Code to indicate whether data enclosed by this interchange envelope is test, production or information Accepted Values: P Production Data T Test Data	M ID 1/1
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 AN 1/1

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*Sender ID*MSCU*20010925*1330*1000*X*004010

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	GS01	479	Functional Identifier Code	M ID 2/2
			Code identifying a group of application related transaction sets	
			Accepted Values:	
			RO Ocean Booking Information (300, 301, 303)	
M	GS02	142	Application Sender's Code	M AN 2/15
			Code identifying party sending transmission; codes agreed to by trading partners	
			Sender Id	
M	GS03	124	Application Receiver's Code	M AN 2/15
			Code identifying party receiving transmission; codes agreed to by trading partners	
			MSCU	
M	GS04	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	
M	GS05	337	Time	M TM 4/8
			Time expressed in 24-hour clock time.	
M	GS06	28	Group Control Number	M N0 1/9
			Assigned number originated and maintained by the sender	
M	GS07	455	Responsible Agency Code	M ID 1/2
			Code used in conjunction with Data Element 480 to identify the issuer of the standard	
			Accepted Values:	
			X Accredited Standards Committee X12	
M	GS08	480	Version / Release / Industry Identifier Code	M AN 1/12
			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:	
			004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	

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*300*0001

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Accepted Values: 300 Reservation (Booking Request) (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**SI_2499458*20010321*N~

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
X	B101	140	Standard Carrier Alpha Code	O ID 2/4
M	B102	145	Shipment Identification Number	M 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) 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 DT 8/8
			Date expressed as CCYYMMDD Booking Request Date Booking Cancellation Date Booking Change Date	
M	B104	558	Reservation Action Code	M 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.	
	B105	1073	Yes/No Condition or Response Code	O ID 1/1
			Code indicating a Yes or No condition or response Y – Per Container Release Number Requested Only applicable when Reservation Action Code is ‘N’ – New.	

Segment: **G61** Contact
Position: 025
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.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>ID</u>
M	G6101	366	M ID 2/2
		Contact Function Code	
		Code identifying the major duty or responsibility of the person or group named	
		Accepted Values:	
		IC Information Contact	
M	G6102	93	M AN 1/60
		Name	
		Free-form name	
		Maximum 35 characters captured.	
	G6103	365	X ID 2/2
		Communication Number Qualifier	
		Code identifying the type of communication number	
		Accepted Values:	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
	G6104	364	X AN 1/512
		Communication Number	
		Complete communications number including country or area code when applicable	

Segment: **Y1** Space Reservation Request
Position: 050
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:
Semantic Notes:
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
X	Y101	135	Sailing/Flight Date Estimated	O DT 8/8
X	Y102	373	Date	O DT 8/8
X	Y103	140	Standard Carrier Alpha Code	O ID 2/4
X	Y104	91	Transportation Method/Type Code	O ID 1/2
X	Y105	98	Entity Identifier Code	O ID 2/3
X	Y106	19	City Name	O AN 2/30
X	Y107	156	State or Province Code	O ID 2/2
	Y108	375	Tariff Service Code	O 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

Segment: **Y2** Container Details
Position: 060
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 is ignored if LX Loop's N7 is provided.

Container count and Container Type information provided in this segment will apply to all commodities in the shipment.

MSC recommends using the N7 and W09 segment in the LX Loop when providing Equipment details.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	Y201	95	Number of Containers Number of shipping containers Number of Containers must be numeric whole number greater than zero.	M N0 1/4
X	Y202	78	Container Type Request Code	O ID 1/1
X	Y203	56	Type of Service Code	O ID 2/2
M	Y204	24	Equipment Type Code identifying equipment type	M ID 4/4

Segment: **N9** Reference Identification
Position: 069
Loop:
Level: Heading
Usage: Optional
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
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

M	Ref.	Data		
	Des.	Element	Name	Attributes
	N901	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			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
4F	Carrier-assigned Shipper 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 O AN 1/35

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.

Segment: **N1** Name
Position: 080
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.

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 carrier party listed in the N1 segment represents the carrier with whom the shipment is being booked.

The N104 value for the 'CA' party is the carrier SCAC code as defined by INTTRA or as aliased in the INTTRA system. 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.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N101	98 Entity Identifier Code	M 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
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 X AN 1/60 Free-form name Free-form name
N103	66 Identification Code Qualifier X ID 1/2 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.
N104	67 Identification Code X AN 2/80 Code identifying a party or other code Code identifying a party or other code

Segment: N3 Address Information
Position: 100
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

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
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: 110
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 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: N4*Newark*NJ*07322*US~

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name Free-form text for city name	O AN 1/30
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 1/17
N404	26	Country Code Code identifying the country Accepted Values: ISO Country Code	O ID 2/3

Segment: **G61** Contact
Position: 120
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.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	G6101	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		Accepted Values:	
		CN General Contact	
M	G6102	93 Name	M AN 1/60
		Free-form name	
	G6103	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		Accepted Values:	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
	G6104	364 Communication Number	X AN 1/512
		Complete communications number including country or area code when applicable	

Segment: **R4** Port or Terminal
Position: 130
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.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	R401	Port or Terminal Function Code	M ID 1/1
		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	
	R402	Location Qualifier	X ID 1/2
		Code identifying type of location	
		UNLOCODE is Preferred.	
		Accepted Values:	
		UN United Nations Location Code (UNLOCODE)	
	R403	Location Identifier	X AN 1/30
		Code which identifies a specific location	
		UNLOCODE or ALIAS	
	R404	Port Name	X AN 1/256
		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 Code identifying the country Accepted Values: ISO Country Code	O ID 2/3
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 2/70

Segment: **DTM** Date/Time Reference
Position: 140
Loop: R4 Mandatory
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify pertinent dates and times
Syntax Notes:
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.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		Accepted Values:	
		369 Estimated Departure Date	
		371 Estimated Arrival Date	
	DTM02	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
	DTM03	337 Time	O TM 4/8
		Time expressed in 24-hour clock time.	
		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	

Segment: **W09** Equipment and Temperature
Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To relate equipment type and required temperatures
Syntax Notes: 1 If either W0902 or W0903 is present, then the other is required.
Semantic Notes: 1 W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
2 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
3 W0908 is the humidity percentage.
4 W0909 is the number of air exchanges per hour.

Comments:
Notes: W09*CZ*-15*FA***Reefer Comments**40*2~

This W09 can only occur once in a booking. The identified settings are relevant for all Reefer equipment on the Booking.

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 -999 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.

This segment provides information for Reefer containers types in segment Y2.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	W0901	40 Equipment Description Code	M ID 2/2
		Code identifying type of equipment used for shipment	
		Accepted Values:	
		CZ Refrigerated Container	
	W0902	408 Temperature	X R 1/4
		Temperature	
		Set Temperature	
	W0903	355 Unit or Basis for Measurement Code	X ID 2/2
		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	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	
			Reefer remarks	
X	W0907	1122	Vent Setting Code	O ID 1/1
	W0908	488	Percent	O N0 1/3
			Percent expressed as 0 to 100	
			Humidity Percentage	
	W0909	380	Quantity	O R 1/18
			Numeric value of quantity	
			Air Exchange per hour in cubic meters	

Segment: **H3** Special Handling Instructions
Position: 160
Loop:
Level: Heading
Usage: Optional
Max Use: 4
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes:
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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
H301	152	Special Handling Code	O ID 2/3
Code specifying special transportation handling instructions			
Accepted Values:			
	01	Out of Gauge Shipment	
	02	Hazardous Shipment	
	03	Temperature Controlled Shipment	
	04	Environmental Pollutant Shipment	

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~

Data Element Summary

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

Segment: **N7** Equipment Details
Position: 020
Loop: LX Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the equipment
Syntax Notes: 1 If either N703 or N704 is present, then the other is required.
 2 If either N708 or N709 is present, then the other is required.
Semantic Notes:
Comments: 1 N701 is mandatory for rail transactions.
Notes: N7*CONT*1234567890*8000.000*G****5000.0000*E*2*****K*****22GP~

MSC allows equipment placement for commodities. This segment defines the equipment or container where a commodity is placed.

The Equipment Number must be a unique in the transaction.
 When this segment is provided, segment Y2 is ignored.
 When this segment is provided W09 at position 0150 is ignored.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
N701	206	Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
		The first four alphabetic character of the container number.	
		For logical container numbers, this segment is left blank.	
M	N702	207 Equipment Number	M AN 1/15
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		For logical container number, this element will be a sequence of number greater than 1 identifying the container. The logical container number must be unique.	
		For the actual container number this element will be the numeric serial number of the container. The actual container number is the concatenated value of N701 and N702.	
N703	81	Weight	X R 1/10
		Numeric value of weight	
		Gross weight of Container plus Commodity.	
		Decimal must be represented using the dot ('.').	
		Group separators must not be sent.	
		Maximum of 3 digits of precision is allowed.	
N704	187	Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		Accepted Values:	
		G Gross Weight	
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
	N708	183 Volume	X R 1/8
		Value of volumetric measure	
		Cubic Volume of Container	
		Decimal must be represented using the dot ('.').	

Group separators must not be sent.
Maximum of 4 digits of precision is allowed.

	N709	184	Volume Unit Qualifier	X	ID 1/1
			Code identifying the volume unit		
			Accepted Values:		
			E		Cubic Feet
			X		Cubic Meters
	N710	102	Ownership Code	O	ID 1/1
			Code indicating the relationship of equipment to carrier or ownership of equipment		
			1		Shipper Owned
			2		Carrier Owned
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
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	N717	188	Weight Unit Code	X	ID 1/1
			Code specifying the weight unit		
			Accepted Values:		
			K		Kilograms
			L		Pounds

Segment: **W09** Equipment and Temperature
Position: 021
Loop: LX Mandatory
Level: Detail
Usage: Optional
Max Use: 20
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 W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
 2 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
 3 W0908 is the humidity percentage.
 4 W0909 is the number of air exchanges per hour.

Comments:
Notes:

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

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).

The Equipment Information provided in this segment will apply to the N7 segment preceding this W09 segment.

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

This W09 Segment can only be used if N7 is provided.

Data Element Summary

Ref.	Data	Name		Attributes
Des.	Element			
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	X R 1/3
			Temperature	
			Reefer temperature.	
			For NON ACTIVE reefer, set the temperature to 999.	
	W0903	355	Unit or Basis for Measurement Code	X 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 1/512

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
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 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

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.

Example: W09*CN*****AGK-EQUIPMENT COMMENTS~
W09*CN*****CCN-12345~
W09*CN*****UCN-12345~
Either W09*CN*****FFF~ or W09*CN*****FLL~

W0907	1122	Vent Setting Code	O 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	O N0 1/3
Percent expressed as 0 to 100			
Humidity Percentage			
W0909	380	Quantity	O R 1/18
Numeric value of quantity			
Air Exchange Per Hour in Cubic Meters			

Segment: **DTM** Date/Time Reference
Position: 030
Loop: LX Mandatory
Level: Detail
Usage: Optional
Max Use: 6
Purpose: To specify pertinent dates and times
Syntax Notes:
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 LX loop.

This DTM segment can only be used if Segment N7 is provided.

Data Element Summary

M	Ref.	Data	Name	Attributes
	Des.	Element		M ID 3/3
	DTM01	374	Date/Time Qualifier	
			Code specifying type of date or time, or both date and time	
			Accepted Values:	
		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 Pick-up	
			Pick up of full container at Door/Ship From Location	
		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 O DT 8/8

Date expressed as CCYYMMDD

DTM03 337 Time O TM 4/8

Time expressed in 24-hour clock time.

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.

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

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

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 within the transaction.

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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 (starting from 1) for each Outer package in the transaction.	
			The Line Item Number must be unique in the shipment	
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	X R 1/18

		Numeric value of weight		
		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	X	ID 1/2
		Code defining the type of weight		
		Accepted Values:		
		G Gross Weight		
L006	183	Volume	X	R 1/18
		Value of volumetric measure		
		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	X	ID 1/1
		Code identifying the volume unit		
		Accepted Values:		
		E Cubic Feet		
		X Cubic Meters		
L008	80	Lading Quantity	C	N0 1/8
		Number of units (pieces) of the lading commodity		
		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	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).		
		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

L010

458

Dunnage Description

O AN 1/35

Material used to protect lading

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

O ID 1/1

Code specifying the weight unit

Accepted Values

K	Kilograms
L	Pounds

Segment: **PO4** Item Physical Details
Position: 038
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.
Semantic Notes: 1 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
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		Attributes
		Element	Name	
M	PO401	356	Pack	M N0 1/8
			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.	
	PO402	357	Size	X R 1/8
			Size of supplier units in pack	
			Default to 1 to satisfy the PO403 and PO402 conditional requirement	
M	PO403	355	Unit or Basis for Measurement Code	M ID 2/2
			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	
			PK Package equals Inner-inner.	
			PK Package	

PO404

103

Packaging Code**O 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

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

X	PO405	187	Weight Qualifier	O	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	O	N0 1/6
X	PO415	752	Surface/Layer/Position Code	O	ID 2/2
	PO416	350	Assigned Identification	O	AN 1/35

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.

Segment: **MEA** Measurements

Position: 039

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.

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
X	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	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	X R 1/18
			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"	
	MEA04	C001	Composite Unit of Measure	O
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			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	

Segment: **L5** Description, Marks and Numbers
Position: 050
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.
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

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 N0 1/3
M	L502	79	Lading Description Description of an item as required for rating and billing purposes	M AN 1/512
	L503	22	Commodity Code Code describing a commodity or group of commodities 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 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 ID 1/1

Segment: **L4** Measurement
Position: 060
Loop: LX 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	O R 1/15
		Largest horizontal dimension of an object measured when the object is in the upright position	
L402	189	Width	O R 1/15
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
L403	65	Height	O R 1/15
		Vertical dimension of an object measured when the object is in the upright position	
L404	90	Measurement Unit Qualifier	X ID 1/1
		Code specifying the linear dimensional unit	
		Mandatory if any of the Length, Width or Height is provided.	
		Accepted values:	
		E	Feet
		X	Meters

Segment: **H1** Hazardous Material
Position: 070
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.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	H101	62	Hazardous Material Code	M AN 4/10
			Code relating to hazardous material code qualifier for regulated hazardous materials	
			UN Number	
	H102	209	Hazardous Material Class Code	O AN 1/7
			Code specifying the kind of hazard for a material	
			First IMO Code	
	H103	208	Hazardous Material Code Qualifier	O ID 1/1
			Code which qualifies the Hazardous Material Class Code (209)	
			Accepted Values:	
			I Intergovernmental Maritime Organization (IMO) Code	
X	H104	64	Hazardous Material Description	O AN 2/30
	H105	63	Hazardous Material Contact	O AN 1/35
			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)	
	H106	200	Hazardous Materials Page	O AN 1/7
			The United Nations page number as required for the international transport of hazardous materials	
			IMDG page number.	
	H107	77	Flashpoint Temperature	O N 1/3
			The flashpoint temperature for hazardous material	
	H108	355	Unit or Basis for Measurement Code	X ID 2/2
			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	
	H109	254	Packing Group Code	O 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: 080
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. This is MANDATORY for INTTRA. 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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	H201	64 Hazardous Material Description	M AN 2/512
		Material name, special instructions, and phone number if any	
	H202	274 Hazardous Material Classification	O AN 1/512
		Free-form description of hazardous material classification or division or label requirements	

Segment: **V1** Vessel Identification
Position: 090
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.
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 can be provided in this segment.

Pre-Carriage and On-Carriage Information can be provided in the K1 segment.

MSC RECOMMENDS that any vessel/voyage specification include the Lloyd's code for the vessel.

Data Element Summary

Ref.	Des.	Data		Attributes		
		Element	Name			
X	V101	597	Vessel Code	X	ID 1/8	
	V102	182	Vessel Name	X	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			
			2 Character Country Code identifying the country			
			Country where the means of transport is registered.			
	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 1/4	
			Standard Carrier Alpha Code			

Segment: **K1** Remarks
Position: 110
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 Message Free-form information	M AN 1/512
			Comments Code	
	K102	61	Free-Form Message 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 AN 1/512

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.

Notes: SE*21*0001

Data Element Summary

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

Segment: **GE** Functional Group Trailer
Position: 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.
Notes: GE*1*1000

Data Element Summary

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

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:

Notes: IEA*1*000010000

Data Element Summary

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