

315 Status Details (Ocean) 4010 Implementation Guide for Customers

Version: 4.0

Company:

CargoSmart Limited

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315 Status Details (Ocean)

Functional Group=QO

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Status Details (Ocean) Transaction Set (315) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary to report status or event details for selected shipments or containers. It is intended to accommodate the details for one status or event associated with many shipments or containers, as well as more than one status or event for one shipment or container.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
	ISA	Interchange Control Header	M	1			Must use	4
	GS	Functional Group Header	M	1			Must use	7
010	ST	Transaction Set Header	M	1			Must use	9
020	B4	Beginning Segment for Inquiry or Reply	M	1			Must use	10
030	N9	Reference Identification	O	30			Used	13
040	Q2	Status Details (Ocean)	O	1			Used	15
* 050	SG	Shipment Status	O	15			Not Used	N/A

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
LOOP ID - R4					20			17
060	R4	Port or Terminal	M	1			Must use	18
070	DTM	Date/Time Reference	O	15			Used	20
* 080	V9	Event Detail	O	10			Not Used	N/A

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
090	SE	Transaction Set Trailer	M	1			Must use	21
	GE	Functional Group Trailer	M	1			Must use	22
	IEA	Interchange Control Trailer	M	1			Must use	23

Conventions:

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

- . **Req** - Element Usage based on ASC X12 standard and CS requirement. Below are the values used:
 - . *M Mandatory* The data element must be used if the segment is used.
 - . *O Optional* The data element may be used if the segment is used.
 - . *C Conditional* The data element may be used - its presence is dependent on the presence or absence of other data elements in the same segment. The particular condition/relation will be stated in the CS Notes section for that segment.
- . **Type** - Element Type based on ASC X12 standard and CS requirement. Below are the values used:
 - . **ID (Identifier)** Values for the identifier-type data elements are taken from a predefined list in the ASC X12 Data Element Dictionary.
 - . **AN (String)** Values for the string-type data element are a sequence of any printable characters.
 - . **DT (Date)** Values for the date-type data element are in the format YYMMDD.
 - . **TM (Time)** Values for a time-type data element are in the format HHMM expressed in 24 hour clock.
 - . **Nx (Numeric)** Values for a numeric data element are in an implied decimal format, where "x" indicates the number of places to the right of the decimal point. For negative values the leading minus sign (-) is used. Absence of a minus sign indicates a positive number. The decimal point is not transmitted in the character stream. e.g., N0 is a whole number (999), to send the number 999, the field contains "999"; N2 is 999.99, to send the number 999.99, the field contains "999.99"
 - . **R (Decimal)** This is a numeric field in character format, with a decimal point included. It is treated as alpha/numeric. The decimal point is not sent for whole numbers. The decimal point is not included in the calculation of data element field length. For negative values the leading minus sign(-) is used. Absence of a minus sign indicates a positive number. e.g., to send the number 0128.734 the field contains "128.734"; to send the number 0789.00 the field contains "789"
 - . **Minimum/Maximum** - This is the minimum and maximum length the field can be.
 - . **Usage** - Element Usage based on CS mapping. Below are values used:
 - . **Must Use** CS is mapping this data element to a mandatory field in internal files and CS DB. Unavailability of this element will lead to CS failure.
 - . **Used** CS may map this data element but unavailability will not cause failure.
 - . **Not Used** CS is not mapping this data element to internal files and data is not extracted/loaded to CS DB.
 - . **Code values** - CS supported values for each element.

Revision History:

Ver. No	Ver. Date	Revised By	Description of change(s)
4.0	20Sep'07	CargoSmart Integration Team	1. add CI/UN/K/D to B412, pair B411 and B412, and marks B406 'Not Used'. 2. re-format IG including add comment and sample for each segment. List all segments in standard, but mark 'Not Used' if it is not used by CS.
3.2	16Mar'07	CargoSmart Integration Team	Set DTM03 to optional
3.1	06Sep'06	CargoSmart Integration Team	Add SCA to N9 segment to indicate shipment carrier
3.0	10Aug'06	CargoSmart Integration Team	Revised presentation format
2.0	14Apr'06	CargoSmart Integration Team	Removed status codes from B4 segment, added Appendix A
1.9	22Nov'05	CargoSmart Integration	Added notes to Q201

		<i>Team</i>	<i>Element definition</i>
1.8	04Nov'05	<i>CargoSmart Integration Team</i>	<i>Re-ordered Shipment Status Codes in chronological order</i>
1.7	30Sep'05	<i>CargoSmart Integration Team</i>	<i>Add Appendix A - User Reference</i>
1.3	24Mar'03	<i>CargoSmart Integration Team</i>	<i>Version with refined contents and revised presentation. Changed description of B406, B411 & B412.</i>
1.0	12Aug'02	<i>CargoSmart Integration Team</i>	<i>Initial Release</i>

ISA Interchange Control Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use

Description: Code to identify the type of information in the Authorization Information

Code Name

- 00 No Authorization Information Present (No Meaningful Information in I02)
- 01 Authorization Information Present

ISA02	I02	Authorization Information	M	AN	10/10	Must use
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Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

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

Code Name

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

ISA04	I04	Security Information	M	AN	10/10	Must use
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Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

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

Code Name

- 01 CargoSmart Qualifier

ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
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Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

Code Name

- CARGOSM CargoSmart Interchange ID
- ART

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

		<u>Code</u>	<u>Name</u>			
		ZZ	Mutually Defined			
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them						
		<u>Code</u>	<u>Name</u>			
		YOUR_ID	Your Interchange ID			
ISA09	I08	Interchange Date	M	DT	6/6	Must use
Description: Date of the interchange						
ISA10	I09	Interchange Time	M	TM	4/4	Must use
Description: Time of the interchange						
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer						
		<u>Code</u>	<u>Name</u>			
		U	U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
Description: Code specifying the version number of the interchange control segments						
		<u>Code</u>	<u>Name</u>			
		00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997			
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
Description: Code sent by the sender to request an interchange acknowledgment (TA1)						
		<u>Code</u>	<u>Name</u>			
		0	No Acknowledgment Requested			
		1	Interchange Acknowledgment Requested			
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information						
		<u>Code</u>	<u>Name</u>			
		P	Production Data			
		T	Test Data			
ISA16	I15	Component Element Separator	M		1/1	Must use
Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element						

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

Sample:

ISA*00* *00* *01*CARGOSMART *ZZ*YOUR_ID *070627*1817*U*00401*000000208*0*P*~

GS Functional Group Header

Pos:	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use
Description: Code identifying a group of application related transaction sets						
Code Name						
QO Ocean Shipment Status Information (313, 315)						
GS02	142	Application Sender's Code	M	AN	2/15	Must use
Description: Code identifying party sending transmission; codes agreed to by trading partners						
Code Name						
CARGOSM CargoSmart Interchange ID ART						
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
Description: Code identifying party receiving transmission; codes agreed to by trading partners						
Code Name						
YOUR_ID Your Interchange ID						
GS04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
GS05	337	Time	M	TM	4/8	Must use
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
GS06	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
Code Name						
X Accredited Standards Committee X12						
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

Code Name

004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Sample:

GS*QO*CARGOSMART*YOUR_ID*20070627*1817*208*X*004010~

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

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

Description: Code uniquely identifying a Transaction Set

Code Name

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

Semantics:

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

Sample:

ST*315*2080001~

B4 Beginning Segment for Inquiry or Reply

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 13

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* B401	152	Special Handling Code	O	ID	2/3	Not used
		Description: Code specifying special transportation handling instructions				
* B402	71	Inquiry Request Number	O	NO	1/3	Not used
		Description: Identifying number assigned by inquirer				
B403	157	Shipment Status Code	O	ID	1/2	Used
		Description: Code indicating the status of a shipment				

Code Name

D	Actual Door Delivery
I	Arrival at First Port of Load
AE	Loaded on Board at First Port of Load
AF	Actual Door Pickup
AL	First Loaded on Rail Under Outbound
AM	Loaded on Truck
AR	Arrival at Last Intermodal Hub
CR	Carrier Released
CT	Customs Released
CU	Carrier and Customs Released
EE	Empty Container Picked Up
NO	Freight Charges Settled
OA	Full Container Received by Carrier at Origin
PA	Customs Hold
RD	Empty Container Returned to Carrier at Destination
RL	Departure from First Intermodal Hub
UR	Last Deramp Under Inbound
UV	Discharged from Vessel at Last Port of Discharge
VA	Last Vessel Arrival
VD	First Vessel Departure
W1	Gate Out Full at Inland Terminal
W2	Gate In Full at Inland Terminal
W3	Equipment Delayed due to Transportation
W4	Arrived at facility
W5	Departed from facility
W6	Loaded at Port
W7	Vessel Arrival at Port
W8	Discharged from Vessel at Port of Discharge
X1	Full container received by carrier

Code Name

- X2 Vessel Departure
- X3 Container Repacked
- X4 Container Vanned at Origin
- X5 Container Devanned at Origin
- X6 Container Vanned at Destination
- X7 Container Devanned at Destination
- X8 Container Transferred
- X9 Carrier Held
- Y1 Container Available
- Y2 Arrival at Intermodal Hub by Rail
- Y3 Loaded on Rail
- Y4 Rail Move
- Y5 Loaded
- Y7 Discharged
- Y9 Container Picked up from Port of Discharge/Transshipment Port
- Z1 Last Deramp under Outbound
- Z2 Transshipment Vessel Arrival
- Z3 Loaded at Port of Transshipment
- Z4 Discharged at Port of Transshipment
- Z5 Transshipment Vessel Departure
- Z6 Intermodal Departure from Last Port of Discharge
- Z7 First Loaded on Rail Under Inbound
- Z8 Picked up at Final Destination for Delivery

B404	373	Date	O	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
B405	161	Status Time	O	TM	4/4	Must use
		Description: Time (HHMM) of last reported status of cargo				
* B406	159	Status Location	O	AN	3/5	Not used
		Description: Air shipment: Airport code for last reported status for a shipment; (Note: If the shipment is in-flight, the status location is the origin airport for this flight) Ground transportation: Code of carrier's terminal				
B407	206	Equipment Initial	X	AN	1/4	Used
		Description: Prefix or alphabetic part of an equipment unit's identifying number				
B408	207	Equipment Number	X	AN	1/10	Used
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
B409	578	Equipment Status Code	O	ID	1/2	Used
		Description: Code indicating status of equipment				

Code Name

- E Empty
- L Load

B410	24	Equipment Type	O	ID	4/4	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code identifying equipment type				
B411	310	Location Identifier	X	AN	1/30	Used
		Description: Code which identifies a specific location				
B412	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location				
		Code Name				
		D Census Schedule D				
		K Census Schedule K				
		CI City				
		UN United Nations Location Code (UNLOCODE)				
B413	761	Equipment Number Check Digit	O	N0	1/1	Used
		Description: Number which designates the check digit applied to a piece of equipment				

Syntax Rules:

1. P0708 - If either B407 or B408 is present, then the other is required.
2. P1112 - If either B411 or B412 is present, then the other is required.

Semantics:

1. B404 is the date of last reported status of cargo.

Sample:

*B4***Z8*20070625*1759**MLCU*505050*L*42G1*USJEC*UN*1~*

N9 Reference Identification

Pos: 030	Max: 30
Heading - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use
Description: Code qualifying the Reference Identification						
Code Name						
4E Carrier-assigned Consignee Number						
4F Carrier-assigned Shipper Number						
BM Bill of Lading Number						
BN Booking Number						
CR Customer Reference Number						
CT Contract Number						
E8 Service Contract (Coverage) Number						
FM Federal Maritime Commission (FMC) Forwarders Number						
FN Forwarder's/Agent's Reference Number						
IN Consignee's Invoice Number						
PO Purchase Order Number						
Q1 Quote Number						
RP Repetitive Pattern Code						
SI Shipper's Identifying Number for Shipment (SID)						
SO Shipper's Order (Invoice Number)						
SR Shipper Reference						
TS Tariff Number						
AAO Carrier Assigned Code						
SCA Standard Carrier Alpha Code (SCAC)						
N902	127	Reference Identification	X	AN	1/30	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
* N903	369	Free-form Description	X	AN	1/45	Not used
Description: Free-form descriptive text						
* N904	373	Date	O	DT	8/8	Not used
Description: Date expressed as CCYYMMDD						
* N905	337	Time	X	TM	4/8	Not used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
* N906	623	Time Code	O	ID	2/2	Not used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code 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				
* N907	C040	Reference Identifier	O	Comp		Not used
		Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier				
*	128	Reference Identification Qualifier	M	ID	2/3	Not used
		Description: Code qualifying the Reference Identification				
*	127	Reference Identification	M	AN	1/30	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
*	128	Reference Identification Qualifier	X	ID	2/3	Not used
		Description: Code qualifying the Reference Identification				
*	127	Reference Identification	X	AN	1/30	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
*	128	Reference Identification Qualifier	X	ID	2/3	Not used
		Description: Code qualifying the Reference Identification				
*	127	Reference Identification	X	AN	1/30	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

Sample:

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N9*BN*1234567890~
N9*BM*1234567890~
N9*E8*PE063567~
N9*SCA*OOLU~

```

Q2 Status Details (Ocean)

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 16

User Option (Usage): Used

Purpose: To transmit identifying information relative to identification of vessel, transportation dates, lading quantity, weight, and cube

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Q201	597	Vessel Code	O	ID	1/8	Used
Description: Code identifying vessel						
CS Note:						
<i>Vessel Code with either be the vessels Lloyd's number or its radio call signal (ref: Q212 to identify which).</i>						
<i>The Lloyd's number is 7 characters maximum.</i>						
<i>The ship's radio call signal is 5 characters maximum.</i>						
Q202	26	Country Code	O	ID	2/3	Used
Description: Code identifying the country						
* Q203	373	Date	O	DT	8/8	Not used
Description: Date expressed as CCYYMMDD						
Q204	373	Date	O	DT	8/8	Used
Description: Date expressed as CCYYMMDD						
CS Note:						
<i>Scheduled Sailing Date</i>						
Q205	373	Date	O	DT	8/8	Used
Description: Date expressed as CCYYMMDD						
CS Note:						
<i>Scheduled Discharge Date</i>						
Q206	80	Lading Quantity	O	NO	1/7	Used
Description: Number of units (pieces) of the lading commodity						
* Q207	81	Weight	X	R	1/10	Not used
Description: Numeric value of weight						
* Q208	187	Weight Qualifier	X	ID	1/2	Not used
Description: Code defining the type of weight						
Q209	55	Flight/Voyage Number	O	AN	2/10	Used
Description: Identifying designator for the particular flight or voyage on which the cargo travels						
* Q210	128	Reference Identification Qualifier	O	ID	2/3	Not used
Description: Code qualifying the Reference Identification						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* Q211	127	Reference Identification	X	AN	1/30	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
Q212	897	Vessel Code Qualifier	O	ID	1/1	Used
		Description: Code specifying vessel code source				
		Code Name				
		C	Ship's Radio Call Signal			
		L	Lloyd's Register of Shipping			
Q213	182	Vessel Name	O	AN	2/28	Used
		Description: Name of ship as documented in "Lloyd's Register of Ships"				
* Q214	183	Volume	X	R	1/8	Not used
		Description: Value of volumetric measure				
* Q215	184	Volume Unit Qualifier	X	ID	1/1	Not used
		Description: Code identifying the volume unit				
* Q216	188	Weight Unit Code	X	ID	1/1	Not used
		Description: Code specifying the weight unit				

Syntax Rules:

1. P070816 - If either Q207, Q208 or Q216 are present, then the others are required.
2. C1011 - If Q210 is present, then Q211 is required.
3. P1415 - If either Q214 or Q215 is present, then the other is required.
4. C0112 - If Q201 is present, then Q212 is required.

Semantics:

1. Q202 is the code identifying the country in which the ship (vessel) is registered.
2. Q203 is the required pier date.
3. Q204 is the date of departure of the vessel.
4. Q205 is the date the shipment was unloaded from the vessel.

Sample:

```
Q2*9108166*****L*OOCL HONG KONG~
```

Loop Port or Terminal

Pos: 060	Repeat: 20
Mandatory	
Loop: R4	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
060	R4	Port or Terminal	M	1		Must use
070	DTM	Date/Time Reference	O	15		Used

Sample:

```
R4*R*UN*CNYTN*Yantian*CN~  
DTM*140*20070524*1902~  
R4*L*UN*CNYTN*Yantian*CN~  
DTM*140*20070528*0140~  
R4*D*UN*USSEA*Seattle*US***WA~  
DTM*140*20070613*0118~  
R4*E*UN*USEAJ*Eatontown*US***NJ~
```

R4 Port or Terminal

Pos: 060	Max: 1
Detail - Mandatory	
Loop: R4	Elements: 8

User Option (Usage): Must use

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

Element Summary:

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

Syntax Rules:

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

Comments:

1. R4 is required for each port to be identified.

CS Note:

If R402 and R403 are not provided, R404 is required.

Sample:

*R4*R*UN*CNYTN*Yantian*CN~*

DTM Date/Time Reference

Pos: 070	Max: 15
Detail - Optional	
Loop: R4	Elements: 6

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
Description: Code specifying type of date or time, or both date and time						
Code Name						
139 Estimated						
140 Actual						
DTM02	373	Date	X	DT	8/8	Used
Description: Date expressed as CCYYMMDD						
DTM03	337	Time	X	TM	4/8	Used
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
CS Note: Only HHMM is used.						
* DTM04	623	Time Code	O	ID	2/2	Not used
Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow						
* DTM05	1250	Date Time Period Format Qualifier	X	ID	2/3	Not used
Description: Code indicating the date format, time format, or date and time format						
* DTM06	1251	Date Time Period	X	AN	1/35	Not used
Description: Expression of a date, a time, or range of dates, times or dates and times						

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Sample:

DTM*140*20070524*1902~

SE Transaction Set Trailer

Pos: 090	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

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

Comments:

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

Sample:

SE*15*2080001~

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element						
GE02	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Sample:

GE*1*208~

IEA Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
Description: A count of the number of functional groups included in an interchange						
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
Description: A control number assigned by the interchange sender						

Sample:

IEA*1*000000208~