



Department
of
Defense

DoD
Transportation
Electronic
Business (DTEB)
Convention

ASC X12 Transaction Set 322 Terminal
Operations and Intermodal Ramp
Activity (Version 004010) – Rail Status

FINAL DRAFT

May 2008



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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention Department of Defense (DoD) will use to process the Rail Status Message using a Terminal Operations and Intermodal Ramp Activity Transaction Set (322) in support of the Defense Transportation Electronic Business (DTEB) program.

For further information about the DTEB program, contact the following:

United States Transportation Command
TCJ6-AD
508 Scott Drive
Scott Air Force Base, IL 62225-7001

To obtain DoD conventions or ASC X12 guidance or to recommend DoD conventions or ASC X12 maintenance, contact the following:

Defense Logistics Management Standards Office
Attn: DLMSO
8725 John J. Kingman Road
Ft. Belvoir VA 22060-6217

For the most recent publication, go to the World-Wide Web at
[https://dteb.lmi.org/dod/dteb.nsf/\(DocLevel2\)?OpenView&cat1=IC&cat2=4010](https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010)

[Instructions: At the web location, sign on as 'Guest'. Select the desired Implementation Convention document. That document is available in PDF format and may be downloaded or printed.]

Who Needs to Use This Document

Computer programmers use this document to identify the data requirements for populating an EDI transaction.

Why Use a Convention

Trading partners can populate EDI transaction sets in several ways. A convention defines the rules for filling in or "populating" an EDI transaction. Following a convention ensures that trading partners will encounter fewer data quality problems during development and maintenance of EDI systems.

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other Sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

Section 2.0

CONTROL SEGMENTS

Overview

This section describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the *ASC X12 Standards Version 4 Release 1* (004010).

Purpose

This section identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

Contents

The complete 004010 version/release control segments includes an Interchange Control Segment Hierarchy on page 2.3, which identifies the control segments in their order of occurrence in an EDI communications interchange.

Beginning on page 2.5 are Department of Defense (DoD) Convention *ASC X12 Control Segments*, which present a detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners.

Special Instructions

Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these values do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values conform to information published in *Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications*.

DATA ELEMENT SEPARATOR

While the data element separator is graphically displayed as an asterisk (*) or a tilde (~) in *ASC X12* documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange. Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange.

ASC X12 recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs). These values conform to information published in *Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications*.

SEGMENT TERMINATOR

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. *ASC X12* documentation usually portrays this as a new line (n/l character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment. *ASC X12* recommends the ASCII character with hexadecimal value "1C" for use as the segment (fs) terminator.

COMPONENT ELEMENT SEPARATOR

The ISA segment provides a discrete element (ISA16) for defining the component element separator within an interchange. The component element separator is a delimiter used to separate component data elements within a composite data structure. It must be different than the data element separator and the segment terminator. *ASC X12* recommends the ASCII character with hexadecimal value "1F" for use as the component element separation (us) character.

GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).

X12 PUBLICATION

See *ASC X12 Electronic Data Interchange X12 Draft Version 4 Release 1 Standards, Document Number: ASC X12S/97-372*, for complete 004010 version/release control segment specifications.

Interchange Control Envelope Control Segments

Usage	Seg ID	Name	Req Des	Max Use
Must Use	ISA	Interchange Control Header	M	1
Must Use	GS	Functional Group Header	M	1
Must Use	• ST - SE	Grouped Transactions		
Must Use	• ST - SE	Grouped Transactions		
Must Use	• ST - SE	Grouped Transactions		
Must Use	GE	Functional Group Trailer	M	1
Must Use	GS	Functional Group Header	M	1
Must Use	• ST - SE	Grouped Transactions		
Must Use	• ST - SE	Grouped Transactions		
Must Use	• ST - SE	Grouped Transactions		
Must Use	GE	Functional Group Trailer	M	1
Must Use	IEA	Interchange Control Trailer	M	1

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Segment: ISA Interchange Control Header
 Usage: Mandatory
 Max Use: 1
 Purpose: To start and identify an interchange of zero or more functional groups and
 interchange-related control segments

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M	ISA01 I01	Authorization Information Qualifier Code to identify the type of information in the Authorized Information	M ID 2/2
		<u>Code</u> 00	<u>Definition</u> No Authorization Information Present (No Meaningful Information in I02)
M	ISA02 I02	Authorization Information Information used for additional clarification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M AN 10/10
		For code value '00' in ISA01, fill with zeros.	
M	ISA03 I03	Security Information Qualifier Code to identify the type of information in the Security Information	M ID 2/2
		<u>Code</u> 00	<u>Definition</u> No Security Information Present (No Meaningful Information in I04)
M	ISA04 I04	Security Information This is used for identifying the security Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03).	M AN 10/10
		For code value '00' in ISA03, fill with zeros.	

- 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
- Select appropriate code value for sender from 4010 X12 code list for data element I05. For Department of Defense Agency Address Code (DoDAAC) use code value '10'.
- 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.
- DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with network value added network (VAN) Administrator.
- 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
- Select appropriate code value for receiver from 4010 X12 code list for data element I05. For DoDAAC use code value '10'.
- 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.
- DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with VAN Administrator.

M	ISA09	I08	Interchange Date Date of the interchange	M DT 6/6
			Date in MMDDYY format assigned by translation software	
M	ISA10	I09	Interchange Time Time of the interchange	M DT 4/4
			Time in HHMM format assigned by translation software	
M	ISA11	I10	Interchange Control Standards 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
			<u>Code</u>	<u>Definition</u>
			U	U.S. EDI Community of ASC X12, TDCC, and UCS
M	ISA12	I11	Interchange Control Version Number This version number covers the interchange Control segments.	M ID 5/5
			<u>Code</u>	<u>Definition</u>
			00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997
			Version/release of control segment, as agreed upon by the trading partners	
M	ISA13	I12	Interchange Control Number A control number assigned by the interchange sender	M N0 9/9
			Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.	
M	ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1)	M ID 1/1
			<u>Code</u>	<u>Definition</u>
			0	No Acknowledgment Requested
			1	Interchange Acknowledgment Requested
			Send code agreed upon by trading partners.	

Segment: **GS Functional Group Header**

Usage: **Mandatory**

Max Use: **1**

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

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	GS01	479	Functional Identifier Code Code identifying a group of application related transaction sets	M ID 2/2
			Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).	
M	GS02	142	Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners	M AN 2/15
			Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.	
M	GS03	124	Application Receiver's Code Code to identify the type of information in the Security Information	M AN 2/15
			DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08	

M	GS04	373	<p>Date M DT 8/8 Date expressed as CCYYMMDD. Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)</p> <p style="background-color: #e0e0e0; padding: 2px;">Date assigned by translation software</p>				
M	GS05	337	<p>Time M TM 4/8 Time expressed in 24-hour clock time as follows: HHMM or HHMMSS, or HHMMSSD, or HHMMSSDD, where H – hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)</p> <p style="background-color: #e0e0e0; padding: 2px;">Time expressed in HHMM format assigned by translation software</p>				
M	GS06	28	<p>Group Control Number M N0 1/9 Assigned number originated and maintained by the sender</p> <p style="background-color: #e0e0e0; padding: 2px;">Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.</p>				
M	GS07	455	<p>Responsible Agency Code M ID 1/1 Code used in conjunction with Data Element 480 to identify the issuer of the standard.</p> <table border="0" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table>	<u>Code</u>	<u>Definition</u>	X	Accredited Standards Committee X12
<u>Code</u>	<u>Definition</u>						
X	Accredited Standards Committee X12						
M	GS08	480	<p>Version / Release / Industry Identified Code M AN 6/6 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 the user), if code in DE455 in GS segment is T, then other formats are allowed.</p> <table border="0" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>004010</td> <td>Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> <p style="background-color: #e0e0e0; padding: 2px; margin-top: 10px;">This is the version/release for all transactions within a functional group. See X12 4010 Dictionary for source code list. Note: optional positions 7- 12 are not used by the DTEB community.</p>	<u>Code</u>	<u>Definition</u>	004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997
<u>Code</u>	<u>Definition</u>						
004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997						

Segment: GE Functional Group Trailer
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the end of a functional group and to provide control information

DATA ELEMENT SUMMARY

Ref Des	Data Element	Name	Attributes
M GE01	97	Number of Transaction Sets Included Total number of segments included in a transaction set including ST and SE segments Number assigned by translation software	M N0 1/6
M GE02	28	Group Control Number Assigned number originated and maintained by the sender Number assigned by the translation software. This control number matches the control number that occurs in GS06.	M N0 1/9

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Segment: IEA Interchange Control Trailer

Usage: Mandatory

Max Use: 1

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

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange Number calculated by translation software	M N0 1/6
M	IEA02	I12	Interchange Control Number A control number assigned by the interchange sender Number assigned by translation software. This number must match that occurring in ISA13.	M N0 9/9

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for generating Rail Status Message using the *ASC X12.322* Terminal Operations and Intermodal Ramp Activity Transaction Set 322 Version 004010.

Symbols that appear in the Data Element Summary to the left of each segment reference designator (Ref. Des.) define implementation convention usage for the DoD. These designations may differ from X12 convention attributes appearing in the right-hand column of the Data Element Summary and should be interpreted as follows:

- [*blank*] - Segment or data element may be used optionally
- M - X12 standards designate mandatory use of segment or data element
- >> - Segment or data element is mandatory for DTEB use
- X - Segment or data element is not used.

NOTE: Whenever a segment occurs more than once, DoD's actual usage requirement may differ among the instances of segment usage. In all cases, the Data Element Summary will indicate the highest order DoD requirement. In other words, if one or several particular instances for a segment are OPTIONAL but another is MANDATORY, the Data Element Summary will indicate a MANDATORY requirement. A review of the IC layout in Section 4.0 will distinguish among the multiple instances and clarify the usage requirement for each instance.

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322 Terminal Operations and Intermodal Ramp Activity

Functional Group ID=**SO**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Terminal Operations and Intermodal Ramp Activity Transaction Set (322) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide all the information necessary for a terminal operation, port authority or intermodal ramp to communicate terminal and intermodal ramp activities (e.g., "ingates" and "outgates") to authorized parties to a shipment.

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
Not Used	015	ZC1	Beginning Segment for Data Correction or Change	O	1		
M	016	Q5	Status Details	M	1		
LOOP ID - N7						1000	
M	020	N7	Equipment Details	M	1		
Not Used	030	V4	Cargo Location Reference	O	1		
Not Used	040	DTM	Date/Time Reference	O	2		
Not Used	050	M7	Seal Numbers	O	5		
Not Used	060	W09	Equipment and Temperature	O	1		
Not Used	070	W2	Equipment Identification	O	1		
Not Used	080	NA	Cross-Reference Equipment	O	30		
Not Used	085	GR5	Loading Details	O	10		
Not Used	100	Y7	Priority	O	1		
Not Used	110	V1	Vessel Identification	O	1		
LOOP ID - R4						20	
M	120	R4	Port or Terminal	M	1		
Not Used	130	DTM	Date/Time Reference	O	15		
	140	H3	Special Handling Instructions	O	6		
LOOP ID - N1						10	
Must Use	150	N1	Name	O	1		
Not Used	153	N3	Address Information	O	2		
Must Use	156	N4	Geographic Location	O	1		
Not Used	160	K1	Remarks	O	2		
Must Use	170	N9	Reference Identification	O	10		
LOOP ID - L0						999	
	180	L0	Line Item - Quantity and Weight	O	1		
	190	L5	Description, Marks and Numbers	O	1		
	200	H1	Hazardous Material	O	3		

Not Used	210	L3	Total Weight and Charges	O	2
M	220	SE	Transaction Set Trailer	M	1

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level:
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: [001] ST SEGMENT - Rail Status Header

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set [002] Transaction Set Identifier Code	M ID 3/3
		322	Terminal Operations and Intermodal Ramp Activity [002] Terminal Operations and Intermodal Ramp Activity	
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 [003] 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. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M AN 4/9

Segment: **Q5 Status Details**
Position: 016
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To specify the status of the shipment in terms of dates, time, reference numbers, and location

- Syntax Notes:**
- 1 If either Q503 or Q504 is present, then the other is required.
 - 2 If Q507 is present, then Q506 is required.
 - 3 If either Q511 or Q512 is present, then the other is required.
 - 4 If Q513 is present, then Q512 is required.
 - 5 If either Q514 or Q515 is present, then the other is required.
 - 6 If Q516 is present, then Q515 is required.

- Semantic Notes:**
- 1 Q502 is the date of the status reported in Q501.
 - 2 Q503 is the time of the status reported in Q501.
 - 3 Q513 is the direction (north or south) of the equator for the latitude given in Q512.
If Q513 is not used, north is assumed.
 - 4 If Q516 is not used, west is assumed.
Q516 is the direction (east or west) of the Greenwich Meridian for the longitude given in Q515.
 - 5 Q517 is the percent of the capacity of the trailer utilized as identified in Q510.

Comments:

Notes: [004] Q5 SEGMENT - Shipment Status

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>O</u> <u>ID</u> <u>1/2</u>
>> Q501	157 Shipment Status Code	

Code indicating the status of a shipment

[005] Shipment Status Code

Required for status events generated within CONUS and Canada.

For PowerTrack and GTN use the following code values to denote the DoD definitions as indicated:

- A - Arrived
- AL - Loaded on Rail
- AR - Notification of Delivery
- CT - Customs Released
- D -Completed Unloading at Delivery Location
- I - In-Gate
- K - Arrived at Customs
- L - Loading
- OA - Out-Gate
- P - Departed Terminal Location
- RL - Notification of Pickup

T - At Terminal; Intra-Terminal Movement
UR - Unloaded from a Rail Car

CHANGE NOTE: Code values selected per DM #0556.

The following X12 code values, shown with their X12 definitions, are used in this data element:
see the following code values:

A	Arrived Shipment has arrived at the location specified [005] Arrived
AL	Loaded on Rail [005] Loaded on Rail
AR	Rail Arrival at Destination Intermodal Ramp [005] Rail Arrival at Destination Intermodal Ramp
CT	Customs Released [005] Customs Released
D	Completed Unloading at Delivery Location Shipment was delivered to the consignee or receiver [005] Completed Unloading at Delivery Location
I	In-Gate [005] In-Gate
K	Arrived at Customs Customs delay; shipment is being processed at the customs location [005] Arrived at Customs
L	Loading Shipment is being loaded at a carrier's terminal or facility [005] Loading
OA	Out-Gate [005] Out-Gate
P	Departed Terminal Location Shipment has left the carrier's terminal or other control point [005] Departed Terminal Location
RL	Rail Departure from Origin Intermodal Ramp [005] Rail Departure from Origin Intermodal Ramp
T	At Terminal; Intra-Terminal Movement [005] At Terminal; Intra-Terminal Movement
UR	Unloaded from a Rail Car [005] Unloaded from a Rail Car

Q502 373 Date

O DT 8/8

Date expressed as CCYYMMDD

[006] Date
Provide for all status events, if available. Date of status identified in Q501.

Q503 337 Time X TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

[007] Time
Required for status events generated outside of CONUS. Time of status identified in Q501.

>> **Q504 623 Time Code X ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

[008] Time Code

ET Eastern Time

[008] Eastern Time

X Q505 641 Status Reason Code O ID 3/3

Code indicating the status reason

Q506 19 City Name X AN 2/30

Free-form text for city name

[009] City Name
Provide in all status events, if available.

Q507 156 State or Province Code O ID 2/2

Code (Standard State/Province) as defined by appropriate government agency

[010] State or Province Code
Required for status events generated within CONUS and Canada.

Q508 26 Country Code O ID 2/3

Code identifying the country

[011] Country Code
Required for status events generated outside of CONUS.

Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:

American National Standards Institute
11 West 42nd Street, 13 Floor
New York, NY 10036.

X Q509 206 Equipment Initial O AN 1/4

Prefix or alphabetic part of an equipment unit's identifying number

X	Q510	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	O AN 1/10
X	Q511	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	Q512	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	Q513	1280	Direction Identifier Code Code identifying geographic direction	O ID 1/1
X	Q514	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	Q515	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	Q516	1280	Direction Identifier Code Code identifying geographic direction	O ID 1/1
X	Q517	954	Percent Percentage expressed as a decimal	O R 1/10
X	Q518	108	Pick-up or Delivery Code Specifies the location or type of pickup or delivery	O ID 1/2

Segment: **N7** Equipment Details
Position: 020
Loop: N7 Mandatory
Level:
Usage: Mandatory
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 N705 or N716 is present, then the other is required.
- 3 If either N708 or N709 is present, then the other is required.

Semantic Notes:

- 1 N712 is the owner of the equipment.
- 2 N723 is the operator or carrier of the rights of the equipment.

Comments:

- 1 N701 is mandatory for rail transactions.
- 2 N720 and N721 are expressed in inches.

Notes: [012] N7 SEGMENT - Equipment
This segment may be used only once. This segment passes the first piece of equipment on a rail consist (initials and number). This may be a railcar, flat car, trailer or container. It may be equivalent to the N7 or NA on the original bill of lading.

Data Element Summary

Ref.	Data			Attributes
Des.	Element	Name		
>>	N701	206	Equipment Initial	O AN 1/4
			Prefix or alphabetic part of an equipment unit's identifying number	
			[013] Equipment Initial	
M	N702	207	Equipment Number	M AN 1/10
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
			[014] Equipment Number	
	N703	81	Weight	X R 1/10
			Numeric value of weight	
			[015] Weight	
			Must include dunnage weight.	
	N704	187	Weight Qualifier	X ID 1/2
			Code defining the type of weight	
			[016] Weight Qualifier	
			Required if N703 is present.	
		G	Gross Weight	
			[016] Gross Weight	
		N	Actual Net Weight	
			[016] Actual Net Weight	
X	N705	167	Tare Weight	X N0 3/8
			Weight of the equipment	

X	N706	232	Weight Allowance	O N0 2/6
			Allowance made for increased weight due to such factors as snow	
X	N707	205	Dunnage	O N0 1/6
			Weight of material used to protect lading (even bracings, false floors, etc.)	
X	N708	183	Volume	X R 1/8
			Value of volumetric measure	
X	N709	184	Volume Unit Qualifier	X ID 1/1
			Code identifying the volume unit	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N710	102	Ownership Code	O ID 1/1
			Code indicating the relationship of equipment to carrier or ownership of equipment	
	N711	40	Equipment Description Code	O ID 2/2
			Code identifying type of equipment used for shipment	
			[017] Equipment Description Code	
			CN Container	
			[017] Container	
			ID Idler Car	
			[017] Idler Car	
			RR Rail Car	
			[017] Rail Car	
			TL Trailer (not otherwise specified)	
			[017] Trailer (not otherwise specified)	
	N712	140	Standard Carrier Alpha Code	O ID 2/4
			Standard Carrier Alpha Code	
			[018] Standard Carrier Alpha Code	
			SCAC of equipment owner.	
X	N713	319	Temperature Control	O AN 3/6
			Free-form abbreviation of temperature range or flash-point temperature	
X	N714	219	Position	O AN 1/3
			Relative position of shipment in car, trailer, or container (mutually defined)	
	N715	567	Equipment Length	O N0 4/5
			Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	
			[019] Equipment Length	
			Outside length of equipment.	
X	N716	571	Tare Qualifier Code	X ID 1/1
			Code identifying the type of tare	
	N717	188	Weight Unit Code	O ID 1/1
			Code specifying the weight unit	

			[020] Weight Unit Code	
			L Pounds	
			[020] Pounds	
	N718	761	Equipment Number Check Digit	O N0 1/1
			Number which designates the check digit applied to a piece of equipment	
			[021] Equipment Number Check Digit	
			Check digit for the container.	
X	N719	56	Type of Service Code	O ID 2/2
			Code specifying extent of transportation service requested	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	N720	65	Height	O R 1/8
			Vertical dimension of an object measured when the object is in the upright position	
			[022] Height	
			Express in inches.	
	N721	189	Width	O R 1/8
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position	
			[023] Width	
			Express in inches.	
	N722	24	Equipment Type	O ID 4/4
			Code identifying equipment type	
			[024] Equipment Type	
			ISO size and type code: a 4-digit code for container type based on the ISO standard. The source for these codes is the Identification Marking Code For Freight Containers (ISO 6346-1995). It can be obtained from the American National Standards Institute.	
			CHANGE NOTE: ISO reference updated per DM 740.	
	N723	140	Standard Carrier Alpha Code	O ID 2/4
			Standard Carrier Alpha Code	
			[025] Standard Carrier Alpha Code	
			SCAC of operator or carrier of the rights of the equipment.	
X	N724	301	Car Type Code	O ID 1/4
			Code specifying type of rail car or intermodal equipment type and its general characteristics	

Segment: **R4** Port or Terminal
Position: 120
Loop: R4 Mandatory
Level:
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: [026] R4 SEGMENT

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	R401	115 Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		[027] Port or Terminal Function Code	
		1 Final Port of Discharge (Operational)	
		Last port at which cargo is unloaded from vessel	
		[027] Final Port of Discharge (Operational)	
		5 Activity Location (Operational)	
		Place at which the activity being reported is occurring	
		[027] Activity Location (Operational)	
		6 Origin Rail Intermodal Terminal	
		[027] Origin Rail Intermodal Terminal	
		7 Destination Rail Intermodal Terminal	
		[027] Destination Rail Intermodal Terminal	
		D Port of Discharge (Operational)	
		Port at which cargo is unloaded from vessel	
		[027] Port of Discharge (Operational)	
		E Place of Delivery (Contractual)	
		Place at which cargo leaves its care and custody of carrier	
		[027] Place of Delivery (Contractual)	
		I Interim Point (Operational)	
		Place at which cargo is transferred from one inland means of transport to another	
		[027] Interim Point (Operational)	
		L Port of Loading (Operational)	
		Port at which cargo is loaded on vessel	
		[027] Port of Loading (Operational)	

		M	Destination (Operational) Place at which carrier actually turns cargo to consignee or his agent [027] Destination (Operational)	
		P	Dispatching Pool (Operational) Place from which equipment is dispatched [027] Dispatching Pool (Operational)	
		R	Place of Receipt (Contractual) Place at which cargo enters the care and custody of carrier [027] Place of Receipt (Contractual)	
R402	309	Location Qualifier		X ID 1/2
			Code identifying type of location [028] Location Qualifier	
		CS	Canadian SPLC [028] Canadian SPLC	
		SL	U.S. SPLC [028] U.S. SPLC	
R403	310	Location Identifier		X AN 1/30
			Code which identifies a specific location [029] Location Identifier	
R404	114	Port Name		O AN 2/24
			Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property [030] Port Name Required for each port to be identified. Use rail 19-character city name as defined in the Centralized Station Master (CSM).	
X	R405	26	Country Code	O ID 2/3
			Code identifying the country	
X	R406	174	Terminal Name	O AN 2/30
			Free-form field for terminal name	
X	R407	113	Pier Number	O AN 1/4
			Identifying number for the pier	
X	R408	156	State or Province Code	O ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency	

Segment: **H3** Special Handling Instructions
Position: 140
Loop: N7 Mandatory
Level:
Usage: Optional
Max Use: 6
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes: [031] H3 SEGMENT - Special Handling

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
		152	Special Handling Code	X ID 2/3
			Code specifying special transportation handling instructions	
			[032] Special Handling Code	
			DM Domestic	
			[032] Domestic	
			HM Endorsed as Hazardous Material	
			[032] Endorsed as Hazardous Material	
			IP Import Shipment	
			[032] Import Shipment	
			XP Export	
			[032] Export	
X	H302	153	Special Handling Description	X AN 2/30
			Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	
X	H303	241	Protective Service Code	O ID 1/4
			Code specifying perishable protective service- rail carriers only	
X	H304	242	Vent Instruction Code	O ID 1/7
			Code specifying vent instructions	
X	H305	257	Tariff Application Code	O ID 1/1
			Code indicating to which traffic a tariff applies	

Segment: **N1** Name
Position: 150
Loop: N1 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.

Notes: [033] N1 SEGMENT - Shipper (SH)
[041] N1 SEGMENT - Consignee (CN)
[049] N1 SEGMENT - Destination (N1)
This segment identifies name and address information of the carrier's delivery location.
[059] N1 SEGMENT - Origin (SF)

Data Element Summary

Ref.	Data	Attributes
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>M</u> <u>ID</u> <u>2/3</u>
M	98 Entity Identifier Code	M ID 2/3
	Code identifying an organizational entity, a physical location, property or an individual	
	[042] Consignee (CN) Qualifier [050] Destination Name (N1) Qualifier Use the following code value to denote the DoD definition as indicated: N1 - Destination Name Government will convert code value 'N1' to code value 'ST' The following X12 code value, shown with its X12 definition, is used in this data element: . [060] Origin Name (SF) Qualifier This qualifier identifies the name and address information of the carrier's pickup location. [034] Shipper (SH) Qualifier	
	CN Consignee [042] Consignee	
	N1 Notify Party no. 1 [050] Notify Party no. 1	
	SF Ship From	

				[060] Ship From	
			SH	Shipper	
				[034] Shipper	
>>	N102	93	Name		X AN 1/60
			Free-form name		
			[035] Shipper Name (SH)		
			[043] Consignee Name (CN)		
			[051] Destination Name (N1)		
			[061] Origin Name (SF)		
X	N103	66	Identification Code Qualifier		X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
X	N104	67	Identification Code		X AN 2/80
			Code identifying a party or other code		
X	N105	706	Entity Relationship Code		O ID 2/2
			Code describing entity relationship		
X	N106	98	Entity Identifier Code		O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **N4 Geographic Location**
Position: 156
Loop: N1 Optional (Must Use)
Level:
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [036] N4 SEGMENT - Shipper (SH)
[044] N4 SEGMENT - Consignee (CN)
[052] N4 SEGMENT- Destination (N1)
[062] N4 SEGMENT - Origin (SF)

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	N401	19	City Name	O AN 2/30
			Free-form text for city name	
			[037] City (SH)	
			[045] City (CN)	
			[053] City (N1)	
			[063] City (SF)	
>>	N402	156	State or Province Code	O ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency	
			[038] State or Province Code (SH)	
			Mandatory if shipment is Domestic or Canadian.	
			[046] State Code (CN)	
			[054] State or Province Code (N1)	
			Mandatory if shipment is Domestic or Canadian.	
			[064] State or Province Code (SF)	
			Mandatory if shipment is Domestic or Canadian.	
	N403	116	Postal Code	O ID 3/15
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
			[039] Zip/Postal Code (SH)	
			CHANGE NOTE: Requirement attribute changed per final review.	
			[047] Zip/Postal Code (CN)	
			Mandatory if shipment is Domestic or Canadian.	
			[055] Zip/Postal Code (N1)	
			CHANGE NOTE: Requirement attribute changed per final review.	
			[065] Zip/Postal Code (SF)	

CHANGE NOTE: Requirement attribute changed per final review.

N404

26

Country Code

O ID 2/3

Code identifying the country

[040] Country Code (SH)

If origin is OCONUS, ISO country code is required.

Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:

American National Standards Institute

11 West 42nd Street, 13 Floor

New York, NY 10036.

[048] Country Code (CN)

If origin is OCONUS, ISO country code is required.

Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:

American National Standards Institute

11 West 42nd Street, 13 Floor

New York, NY 10036.

[056] Country Code (N1)

If destination is OCONUS, country code is required.

Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:

American National Standards Institute

11 West 42nd Street, 13 Floor

New York, NY 10036.

[066] Country Code (SF)

If origin is OCONUS, ISO country code is required.

Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from:

American National Standards Institute

11 West 42nd Street, 13 Floor

New York, NY 10036.

>>

N405

309

Location Qualifier

X ID 1/2

Code identifying type of location

[057] Destination SPLC (N1) Qualifier

[067] Shipping Point SPLC (SF) Qualifier

CS

Canadian SPLC

[057] Canadian SPLC

[067] Canadian SPLC

SL

U.S. SPLC

[057] U.S. SPLC

[067] U.S. SPLC

>>

N406

310

Location Identifier

O AN 1/30

Code which identifies a specific location

[058] Destination SPLC (N1)

Nine-digit SPLC is required for costing

[068] Shipping Point SPLC (SF)

Nine-digit SPLC is required for costing.

Segment: **N9 Reference Identification**
Position: 170
Loop: N7 Mandatory
Level:
Usage: Optional (Must Use)
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: [069] N9 SEGMENT - Bill of Lading Number
Should report at least one shipment identification number; both are not required.
CHANGE NOTE: User note added per final review.
[075] N9 SEGMENT - Waybill Number

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[070] Bill of Lading Number Qualifier	
		[076] Waybill Number Qualifier	
		BL Government Bill of Lading	
		[070] Government Bill of Lading	
		BM Bill of Lading Number	
		[070] Bill of Lading Number	
		WY Waybill Number	
		[076] Waybill Number	
	N902	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[071] Bill of Lading Number	
		[077] Waybill Number	
X	N903	369 Free-form Description	X AN 1/45
		Free-form descriptive text	
	N904	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
		[072] Bill of Lading Date	

			[078] Waybill Date	
	N905	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
			[073] Bill of Lading Time [079] Waybill Time	
	N906	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
			[074] Bill of Lading Time Code Required if N905 is present. [080] Waybill Number Time Code	
			ET Eastern Time	
			[074] Eastern Time [080] Eastern Time	
X	N907	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
X	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	
X	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
X	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	
X	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
X	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	
X	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **L0** Line Item - Quantity and Weight
Position: 180
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

- Syntax Notes:**
- 1 If either L002 or L003 is present, then the other is required.
 - 2 If either L004 or L005 is present, then the other is required.
 - 3 If either L006 or L007 is present, then the other is required.
 - 4 If either L008 or L009 is present, then the other is required.
 - 5 If L011 is present, then L004 is required.
 - 6 If either L013 or L015 is present, then the other is required.

- Semantic Notes:**
- 1 L008 is the number of handling units of the line item tendered to the carrier.
 - 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
 - 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

- Comments:**
- 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Notes: [081] L0 SEGMENT - Line Item

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
L001	213	Lading Line Item Number	O N0 1/3
		Sequential line number for a lading item	
		[082] Lading Line Item Number	
L002	220	Billed/Rated-as Quantity	X R 1/11
		Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	
		[083] Billed/Rated-as Quantity	
L003	221	Billed/Rated-as Qualifier	X ID 2/2
		Code identifying the type of quantity or value on which the rate or item pricing is based	
		[084] Billed/Rated-as Qualifier	
		Required if L002 is present. Select appropriate Billed/Rated-as code from EDI X12 Draft Version 4 Release 1 Standards, DE 221.	
L004	81	Weight	X R 1/10
		Numeric value of weight	
		[085] Weight	
		Required if L011 is present.	
L005	187	Weight Qualifier	X ID 1/2

		Code defining the type of weight	
		[086] Weight Qualifier Required if L004 is present.	
		N Actual Net Weight	
		[086] Actual Net Weight	
L006	183	Volume	X R 1/8
		Value of volumetric measure	
		[087] Volume	
L007	184	Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		[088] Volume Unit Qualifier Required if L006 is present.	
		E Cubic Feet	
		[088] Cubic Feet	
		S Measurement Ton	
		[088] Measurement Ton	
		X Cubic Meters	
		[088] Cubic Meters	
L008	80	Lading Quantity	X N0 1/7
		Number of units (pieces) of the lading commodity	
		[089] Lading Quantity Number of handling units or the line item tendered.	
L009	211	Packaging Form Code	X ID 3/3
		Code for packaging form of the lading quantity	
		[090] Packaging Form Code Required if L008 is present.	
		Use migration code value 'SLD' to denote Sled.	
		The following X12 code value, shown with its X12 definition, is used in this data element:	
		PLT Pallet	
		[090] Pallet	
		SKD Skid	
		[090] Skid	
L010	458	Dunnage Description	O AN 2/25
		Material used to protect lading	
		[091] Dunnage Description	
L011	188	Weight Unit Code	O ID 1/1
		Code specifying the weight unit	
		[092] Weight Unit Code	
		K Kilograms	

			[092] Kilograms	
		L	Pounds	
			[092] Pounds	
L012	56	Type of Service Code		O ID 2/2
		Code specifying extent of transportation service requested		
		[093] Type of Service Code		
L013	380	Quantity		X R 1/15
		Numeric value of quantity		
		[094] Quantity		
		Use only if L009 contains code values 'PLT' or 'SKD'.		
L014	211	Packaging Form Code		O ID 3/3
		Code for packaging form of the lading quantity		
		[095] Packaging Form Code		
		Select appropriate packaging code from EDI X12 Draft Version 4 Release 1 Standards, DE 211.		
L015	1073	Yes/No Condition or Response Code		X ID 1/1
		Code indicating a Yes or No condition or response		
		[096] Yes/No Condition or Response Code		
		Required if L013 is present.		
		Use the following code values to denote the DoD definitions as indicated:		
		N - Verification Not Required		
		Y - Carrier will be Required to Verify the Number of Units Contained on a Pallet/Slip Sheet or Skid		
		The following X12 code values, shown with their X12 definitions, are used in this data element:		
		N	No	
			[096] No	
		Y	Yes	
			[096] Yes	

Segment: **L5** Description, Marks and Numbers
Position: 190
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

- Syntax Notes:**
- 1 If either L503 or L504 is present, then the other is required.
 - 2 If L507 is present, then L506 is required.
 - 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:

- Comments:**
- 1 L502 may be used to send quantity information as part of the product description.

Notes: [097] L5 SEGMENT - Commodity Code

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
L501	213	Lading Line Item Number	O N0 1/3
		Sequential line number for a lading item	
		[098] Lading Line Item Number	
		Start with value '1' and increment by 1 for each new commodity.	
L502	79	Lading Description	O AN 1/50
		Description of an item as required for rating and billing purposes	
		[099] Lading Description	
		May send quantity information as part of product description.	
L503	22	Commodity Code	X AN 1/30
		Code describing a commodity or group of commodities	
		[100] Commodity Code	
L504	23	Commodity Code Qualifier	X ID 1/1
		Code identifying the commodity coding system used for Commodity Code	
		[101] Commodity Code Qualifier	
		Required if L503 is present.	
		T Standard Transportation Commodity Code (STCC)	
		[101] Standard Transportation Commodity Code (STCC)	
L505	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	
		[102] Packaging Code	
L506	87	Marks and Numbers	X AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	

		[103] Marks and Numbers Required if L507 is present. Use to report VIN numbers.	
L507	88	Marks and Numbers Qualifier	O ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
		[104] Marks and Numbers Qualifier Use the following code value to denote the DoD definition as indicated:	
		ZZ - Marks and Numbers	
		The following X12 code value, shown with its X12 definition, is used in this data element:	
		ZZ Mutually Defined	
		[104] Mutually Defined	
L508	23	Commodity Code Qualifier	X ID 1/1
		Code identifying the commodity coding system used for Commodity Code	
		[105] Commodity Code Qualifier	
		T Standard Transportation Commodity Code (STCC)	
		[105] Standard Transportation Commodity Code (STCC)	
L509	22	Commodity Code	X AN 1/30
		Code describing a commodity or group of commodities	
		[106] Commodity Code	
L510	595	Compartment ID Code	O ID 1/1
		Code identifying the compartment in a compartmentalized tank car	
		[107] Compartment ID Code	
		Code identifying compartment in compartment tank car.	
		1 Brake End	
		[107] Brake End	
		2 2nd from Brake End	
		[107] 2nd from Brake End	
		3 3rd from Brake End	
		[107] 3rd from Brake End	
		4 4th from Brake End	
		[107] 4th from Brake End	
		5 5th from Brake End	
		[107] 5th from Brake End	
		6 6th from Brake End	
		[107] 6th from Brake End	

Segment: **H1** Hazardous Material
Position: 200
Loop: L0 Optional
Level:
Usage: Optional
Max Use: 3
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: [108] H1 SEGMENT - Hazardous Information
 Required if shipment contains hazardous materials.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	H101	Hazardous Material Code	M AN 4/10
		Code relating to hazardous material code qualifier for regulated hazardous materials	
		[109] UN Number	
	H102	Hazardous Material Class Code	O AN 1/4
		Code specifying the kind of hazard for a material	
		[110] IMD Class Code	
	H103	Hazardous Material Code Qualifier	O ID 1/1
		Code which qualifies the Hazardous Material Class Code (209)	
		[111] Hazardous Material Code Qualifier	
		I Intergovernmental Maritime Organization (IMO) Code	
		[111] Intergovernmental Maritime Organization (IMO) Code	
	H104	Hazardous Material Description	O AN 2/30
		Material name, special instructions, and phone number if any	
		[112] Proper Shipping Name	
	H105	Hazardous Material Contact	O AN 1/24
		Phone number and name of person or department to contact in case of emergency	
		[113] Hazardous Material Contact	
	H106	Hazardous Materials Page	O AN 1/6
		The United Nations page number as required for the international transport of hazardous materials	
		[114] IMD Page Number	
	H107	Flashpoint Temperature	X N 1/3
		The flashpoint temperature for hazardous material	

[115] Flashpoint Temperature
Highest temperature for hazardous materials.

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

[116] Unit or Basis for Measurement Code

CE Centigrade, Celsius

[116] Centigrade

FA Fahrenheit

[116] Fahrenheit

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

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

[117] Packing Group Code

Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101.

Segment: **SE** Transaction Set Trailer
Position: 220
Loop:
Level:
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: [118] SE SEGMENT - Rail Status Trailer

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</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 [119] Number of Included Segments Total segments in this transaction set including the 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 [120] Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

Section 4.0

IC ELEMENT MATRIX

OVERVIEW

In order to implement an EDI transaction set, trading partners need to identify the application data elements they plan to exchange, identify where they plan to carry the data within the structure of the EDI transaction (a task commonly called mapping), identify any additional X12 data such as qualifier codes, and publish that information in an implementation convention (IC). This section contains an IC element matrix that lists that information.

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. The application notes section below describes the application specific to this IC element matrix.

HOW TO READ THE IC ELEMENT MATRIX

To read the matrix, trading partners need to understand matrix record types, two categories of matrix information, the matrix layout, and the sort order of the matrix.

Record Types

The matrix contains two types of records: segment header records and element records.

- Segment header records begin the description of a segment. Each segment header record starts the description of a discrete occurrence of an X12 segment. The element records (see below) that follow a segment header record cannot be co-mingled with elements from other segments, including those segments with matching IDs.
- Element records identify an individual data element that occurs within a segment. Each element satisfies either an application requirement or X12 standard syntax. If one element in a segment is passed, all elements in the segment need to be passed in accordance with the IC requirement designator.

Two Categories of Record Information

The matrix contains two categories of information: IC application information and ASC X12 information.

- IC application information describes attributes outside the structure and syntax of the ASC X12 standard.

- ASC X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

Matrix Layout

The IC element matrix lists information in sixteen columns.

- IC Index Number (Index) enables designers and programmers to quickly cite a record in the matrix.
- IC Data Group Number (DG) is a number assigned by the IC developers. That number identifies an IC element with a group of elements that form a database table within the application data model. In order to quickly reference a table, Defense transportation developers label database tables with a Data Group number. For example, a “Bill To Address” may belong to the “PURCHASE ORDER” parent table with GRP = 10. A “Stop-off Delivery Address” may belong to the “ITEM DELIVERY” child table with GRP = 60.
- IC Data Element Name (Data Name) is a label for each data element using terminology common to the business environment. The IC element matrix identifies an element as a “Carrier Shipment ID.” This is more concise than using the generic X12 label of “Shipment Identification Number.” A segment header record identifies the segment ID in this field.
- IC Notes & Codes (DoD Information Notes and Codes) can contain application notes about various segment and element conditions or requirements. This column may also list both X12 standard codes and DoD unique codes. If the list is larger than 20 codes, it may appear in the section that contains Code Lists.
- IC Attributes (Attributes). When part of a segment header record, this column indicates the usage of the segment. When part of an element record, this column indicates the usage of the element within the segment, if the segment is used. Attributes may differ from those in the ASC X12 standard. For example, if trading partners expect to exchange a purchase order number that has a specific length and structure, those attributes are described here. Attributes include requirement designator, data element type, minimum length and maximum length.
- X12 Transaction Set Table Number (Tabl).
- X12 Segment Position (Pos).
- X12 Requirement Designator (Req Des) . This column applies only to Segment Header type matrix records.
- X12 Maximum Usage (Max Use). This column applies only to Segment Header type matrix records.
- X12 Loop Repeat (Lp Rpt) indicates the number of times a loop may be used. This column applies only to Segment Header type matrix records.
- X12 Loop Level (Lp Lv). Loops may be nested within other loops. This column indicates the nesting level for each loop and applies only to Segment Header type matrix records.
- X12 Loop ID (Lp ID). This column applies only to Segment Header type matrix records.
- X12 Segment Reference Designator (Ref Des) . This column applies only to Element type matrix records.

- X12 Simple or Composite Data Element Number (DE#). This column applies only to Element type matrix records.
- X12 Simple Data Element Attributes (Attributes). Attributes listed include the data element requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.
- X12 Composite Data Element Attributes ((Composite) Attributes) . Attributes listed include the simple data element number, requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.

Sort Order of the Matrix

The matrix presents IC elements in an order that enables programmers to generate application-to- translator interface files (also known as user-defined files or UDFs) that are syntactically correct to ASC X12 standards. IC elements are grouped under segment header records. When exchanging an IC element, the programmer needs to generate the entire segment under which the element is listed. Likewise, when exchanging a segment, the programmer needs to generate the entire loop structure to which the segment belongs.

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the Rail Status Message. DoD derived the IC elements from the following sources:

- Analysis of existing carrier 322 Implementation Guides
- Analysis of the American Trucking Association (ATA) 214 Implementation Guide
- Analysis of sample data received from carriers into Global Transportation Network (GTN)
- Comments submitted by transportation activities involved in the DoD electronic data interchange effort

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION					
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes	
1		ST SEGMENT - Rail Status Header		M	1	10	M	1								
2		Transaction Set Identifier Code		M ID 3/3	1	10		1				ST01	143	M ID 3/3		
		322 - Terminal Operations and Intermodal Ramp Activity														
3		Transaction Set Control Number		M AN 4/9	1	10		1				ST02	329	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. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)														
4		Q5 SEGMENT - Shipment Status		M	1	16	M	1								

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION						
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
				M	ID	1/2											
5		Shipment Status Code		M	ID	1/2	1	16		1				Q501	157	O	ID 1/2
<p>Required for status events generated within CONUS and Canada. For PowerTrack and GTN use the following code values to denote the DoD definitions as indicated:</p> <ul style="list-style-type: none"> A - Arrived AL - Loaded on Rail AR - Notification of Delivery CT - Customs Released D -Completed Unloading at Delivery Location I - In-Gate K - Arrived at Customs L - Loading OA - Out-Gate P - Departed Terminal Location RL - Notification of Pickup T - At Terminal; Intra-Terminal Movement UR - Unloaded from a Rail Car <p>CHANGE NOTE: Code values selected per DM #0556.</p> <p>The following X12 code values, shown with their X12 definitions, are used in this data element: se the following code values:</p> <ul style="list-style-type: none"> I - In-Gate K - Arrived at Customs L - Loading OA - Out-Gate P - Departed Terminal Location RL - Rail Departure from Origin Intermodal Ramp T - At Terminal; Intra-Terminal Movement UR - Unloaded from a Rail Car A - Arrived AL - Loaded on Rail AR - Rail Arrival at Destination Intermodal Ramp CT - Customs Released D - Completed Unloading at Delivery Location 																	

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION					
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
6		Date		C	DT 8/8	1	16		1				Q502	373	O DT 8/8	
			Provide for all status events, if available. Date of status identified in Q501.													
7		Time		C	TM 4/8	1	16		1				Q503	337	C TM 4/8	
			Required for status events generated outside of CONUS. Time of status identified in Q501.													
8		Time Code		M	ID 2/2	1	16		1				Q504	623	C ID 2/2	
			ET - Eastern Time													
9		City Name		C	AN 2/30	1	16		1				Q506	19	C AN 2/30	
			Provide in all status events, if available.													
10		State or Province Code		C	ID 2/2	1	16		1				Q507	156	O ID 2/2	
			Required for status events generated within CONUS and Canada.													
11		Country Code		C	ID 2/3	1	16		1				Q508	26	O ID 2/3	
			Required for status events generated outside of CONUS. Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.													
12		N7 SEGMENT - Equipment		M		1	20	M	1	1000	1	N7				
			This segment may be used only once. This segment passes the first piece of equipment on a rail consist (initials and number). This may be a railcar, flat car, trailer or container. It may be equivalent to the N7 or NA on the original bill of lading.													
13		Equipment Initial		M	AN 1/4	1	20		1	1000	1	N7	N701	206	O AN 1/4	

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION					
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
14		Equipment Number		M	AN 1/10	1	20		1	1000	1	N7	N702	207	M	AN 1/10
15		Weight		C	R 1/10	1	20		1	1000	1	N7	N703	81	C	R 1/10
		Must include dunnage weight.														
16		Weight Qualifier		C	ID 1/1	1	20		1	1000	1	N7	N704	187	C	ID 1/2
		Required if N703 is present. G - Gross Weight N - Actual Net Weight														
17		Equipment Description Code		C	ID 2/2	1	20		1	1000	1	N7	N711	40	O	ID 2/2
		CN - Container ID - Idler Car RR - Rail Car TL - Trailer (not otherwise specified)														
18		Standard Carrier Alpha Code		C	ID 2/4	1	20		1	1000	1	N7	N712	140	O	ID 2/4
		SCAC of equipment owner.														
19		Equipment Length		C	NO 4/5	1	20		1	1000	1	N7	N715	567	O	NO 4/5
		Outside length of equipment.														
20		Weight Unit Code		C	ID 1/1	1	20		1	1000	1	N7	N717	188	O	ID 1/1
		L - Pounds														
21		Equipment Number Check Digit		C	NO 1/1	1	20		1	1000	1	N7	N718	761	O	NO 1/1
		Check digit for the container.														
22		Height		C	R 1/8	1	20		1	1000	1	N7	N720	65	O	R 1/8
		Express in inches.														
23		Width		C	R 1/8	1	20		1	1000	1	N7	N721	189	O	R 1/8
		Express in inches.														

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
24		Equipment Type		C ID 4/4	1	20		1	1000	1	N7	N722	24	O ID 4/4	
			ISO size and type code: a 4-digit code for container type based on the ISO standard. The source for these codes is the Identification Marking Code For Freight Containers (ISO 6346-1995). It can be obtained from the American National Standards Institute. CHANGE NOTE: ISO reference updated per DM 740.												
25		Standard Carrier Alpha Code		C ID 2/4	1	20		1	1000	1	N7	N723	140	O ID 2/4	
			SCAC of operator or carrier of the rights of the equipment.												
26		R4 SEGMENT		M	1	120	M	1	20	2	R4				
27		Port or Terminal Function Code		M ID 1/1	1	120		1	20	2	R4	R401	115	M ID 1/1	
			1 - Final Port of Discharge (Operational) 5 - Activity Location (Operational) 6 - Origin Rail Intermodal Terminal 7 - Destination Rail Intermodal Terminal D - Port of Discharge (Operational) E - Place of Delivery (Contractual) I - Interim Point (Operational) L - Port of Loading (Operational) M - Destination (Operational) P - Dispatching Pool (Operational) R - Place of Receipt (Contractual)												
28		Location Qualifier		C ID 2/2	1	120		1	20	2	R4	R402	309	C ID 1/2	
			CS - Canadian SPLC SL - U.S. SPLC												
29		Location Identifier		C AN 1/30	1	120		1	20	2	R4	R403	310	C AN 1/30	

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION					
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes	
30		Port Name		C	AN 2/19	1	120		1	20	2	R4	R404	114	O	AN 2/24	
		Required for each port to be identified. Use rail 19-character city name as defined in the Centralized Station Master (CSM).															
31		H3 SEGMENT - Special Handling		C		1	140	O	6	1000	1	N7					
32		Special Handling Code		C	ID 2/2	1	140		6	1000	1	N7	H301	152	C	ID 2/3	
		DM - Domestic HM - Endorsed as Hazardous Material IP - Import Shipment XP - Export															
33		N1 SEGMENT - Shipper (SH)		M		1	150	O	1	10	2	N1					
34		Shipper (SH) Qualifier		M	ID 2/2	1	150		1	10	2	N1	N101	98	M	ID 2/3	
		SH - Shipper															
35		Shipper Name (SH)		M	AN 1/30	1	150		1	10	2	N1	N102	93	C	AN 1/60	
36		N4 SEGMENT - Shipper (SH)		M		1	156	O	1	10	2	N1					
37		City (SH)		M	AN 2/19	1	156		1	10	2	N1	N401	19	O	AN 2/30	
38		State or Province Code (SH)		M	ID 2/2	1	156		1	10	2	N1	N402	156	O	ID 2/2	
		Mandatory if shipment is Domestic or Canadian.															
39		Zip/Postal Code (SH)		C	ID 3/15	1	156		1	10	2	N1	N403	116	O	ID 3/15	
		CHANGE NOTE: Requirement attribute changed per final review.															

DoD INFORMATION				X12 SEGMENT INFORMATION									X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes	
40		Country Code (SH)		C ID 2/3	1	156		1	10	2	N1	N404	26	O ID 2/3		
			If origin is OCONUS, ISO country code is required.													
			Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.													
41		N1 SEGMENT - Consignee (CN)		M	1	150	O	1	10	2	N1					
42		Consignee (CN) Qualifier		M ID 2/2	1	150		1	10	2	N1	N101	98	M ID 2/3		
			CN - Consignee													
43		Consignee Name (CN)		M AN 1/30	1	150		1	10	2	N1	N102	93	C AN 1/60		
44		N4 SEGMENT - Consignee (CN)		M	1	156	O	1	10	2	N1					
45		City (CN)		M AN 2/19	1	156		1	10	2	N1	N401	19	O AN 2/30		
46		State Code (CN)		M ID 2/2	1	156		1	10	2	N1	N402	156	O ID 2/2		
47		Zip/Postal Code (CN)		C ID 3/15	1	156		1	10	2	N1	N403	116	O ID 3/15		
			Mandatory if shipment is Domestic or Canadian.													
48		Country Code (CN)		C ID 2/3	1	156		1	10	2	N1	N404	26	O ID 2/3		
			If origin is OCONUS, ISO country code is required.													
			Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.													

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
49		N1 SEGMENT - Destination (N1)		C	1	150	O	1	10	2	N1				
		This segment identifies name and address information of the carrier's delivery location.													
50		Destination Name (N1) Qualifier		M ID 2/2	1	150		1	10	2	N1	N101	98	M ID 2/3	
		Use the following code value to denote the DoD definition as indicated: N1 - Destination Name Government will convert code value 'N1' to code value 'ST' The following X12 code value, shown with its X12 definition, is used in this data element: N1 - Notify Party no. 1													
51		Destination Name (N1)		M AN 1/30	1	150		1	10	2	N1	N102	93	C AN 1/60	
52		N4 SEGMENT- Destination (N1)		C	1	156	O	1	10	2	N1				
53		City (N1)		M AN 2/19	1	156		1	10	2	N1	N401	19	O AN 2/30	
54		State or Province Code (N1)		C ID 2/2	1	156		1	10	2	N1	N402	156	O ID 2/2	
		Mandatory if shipment is Domestic or Canadian.													
55		Zip/Postal Code (N1)		C ID 3/15	1	156		1	10	2	N1	N403	116	O ID 3/15	
		CHANGE NOTE: Requirement attribute changed per final review.													

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
56		Country Code (N1)		C ID 2/3	1	156		1	10	2	N1	N404	26	O ID 2/3	
			If destination is OCONUS, country code is required.												
			Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.												
57		Destination SPLC (N1) Qualifier		M ID 2/2	1	156		1	10	2	N1	N405	309	C ID 1/2	
			CS - Canadian SPLC SL - U.S. SPLC												
58		Destination SPLC (N1)		M AN 9/9	1	156		1	10	2	N1	N406	310	O AN 1/30	
			Nine-digit SPLC is required for costing												
59		N1 SEGMENT - Origin (SF)		C	1	150	O	1	10	2	N1				
60		Origin Name (SF) Qualifier		M ID 2/2	1	150		1	10	2	N1	N101	98	M ID 2/3	
			This qualifier identifies the name and address information of the carrier's pickup location. SF - Ship From												
61		Origin Name (SF)		M AN 1/30	1	150		1	10	2	N1	N102	93	C AN 1/60	
62		N4 SEGMENT - Origin (SF)		C	1	156	O	1	10	2	N1				
63		City (SF)		M AN 2/19	1	156		1	10	2	N1	N401	19	O AN 2/30	
64		State or Province Code (SF)		M ID 2/2	1	156		1	10	2	N1	N402	156	O ID 2/2	
			Mandatory if shipment is Domestic or Canadian.												

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
65		Zip/Postal Code (SF)		C ID 3/15	1	156		1	10	2	N1	N403	116	O ID 3/15	
CHANGE NOTE: Requirement attribute changed per final review.															
66		Country Code (SF)		C ID 2/3	1	156		1	10	2	N1	N404	26	O ID 2/3	
If origin is OCONUS, ISO country code is required.															
Valid country codes are found in Codes for Representation of Names of Countries, ISO 3166- (Latest Release). The publication may be obtained from: American National Standards Institute 11 West 42nd Street, 13 Floor New York, NY 10036.															
67		Shipping Point SPLC (SF) Qualifier		M ID 2/2	1	156		1	10	2	N1	N405	309	C ID 1/2	
CS - Canadian SPLC SL - U.S. SPLC															
68		Shipping Point SPLC (SF)		M AN 9/9	1	156		1	10	2	N1	N406	310	O AN 1/30	
Nine-digit SPLC is required for costing.															
69		N9 SEGMENT - Bill of Lading Number		M	1	170	O	10	1000	1	N7				
Should report at least one shipment identification number; both are not required.															
CHANGE NOTE: User note added per final review.															
70		Bill of Lading Number Qualifier		M ID 2/2	1	170		10	1000	1	N7	N901	128	M ID 2/3	
BL - Government Bill of Lading BM - Bill of Lading Number															
71		Bill of Lading Number		C AN 1/30	1	170		10	1000	1	N7	N902	127	C AN 1/30	
72		Bill of Lading Date		C DT 8/8	1	170		10	1000	1	N7	N904	373	O DT 8/8	
73		Bill of Lading Time		C TM 4/8	1	170		10	1000	1	N7	N905	337	C TM 4/8	

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
74		Bill of Lading Time Code		C ID 2/2	1	170		10	1000	1	N7	N906	623	O ID 2/2	
		Required if N905 is present. ET - Eastern Time													
75		N9 SEGMENT - Waybill Number		C	1	170	O	10	1000	1	N7				
76		Waybill Number Qualifier		M ID 2/2	1	170		10	1000	1	N7	N901	128	M ID 2/3	
		WY - Waybill Number													
77		Waybill Number		C AN 1/30	1	170		10	1000	1	N7	N902	127	C AN 1/30	
78		Waybill Date		C DT 8/8	1	170		10	1000	1	N7	N904	373	O DT 8/8	
79		Waybill Time		C TM 4/8	1	170		10	1000	1	N7	N905	337	C TM 4/8	
80		Waybill Number Time Code		C ID 2/2	1	170		10	1000	1	N7	N906	623	O ID 2/2	
		ET - Eastern Time													
81		L0 SEGMENT - Line Item		C	1	180	O	1	999	2	L0				
82		Lading Line Item Number		C NO 1/3	1	180		1	999	2	L0	L001	213	O NO 1/3	
83		Billed/Rated-as Quantity		C R 1/11	1	180		1	999	2	L0	L002	220	C R 1/11	
84		Billed/Rated-as Qualifier		C ID 2/2	1	180		1	999	2	L0	L003	221	C ID 2/2	
		Required if L002 is present. Select appropriate Billed/Rated-as code from EDI X12 Draft Version 4 Release 1 Standards, DE 221.													
85		Weight		C R 1/8	1	180		1	999	2	L0	L004	81	C R 1/10	
		Required if L011 is present.													

DoD INFORMATION				X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
86		Weight Qualifier		C ID 1/2	1	180		1	999	2	L0	L005	187	C ID 1/2	
			Required if L004 is present. N - Actual Net Weight												
87		Volume		C R 1/8	1	180		1	999	2	L0	L006	183	C R 1/8	
88		Volume Unit Qualifier		C ID 1/1	1	180		1	999	2	L0	L007	184	C ID 1/1	
			Required if L006 is present. E - Cubic Feet S - Measurement Ton X - Cubic Meters												
89		Lading Quantity		C NO 1/7	1	180		1	999	2	L0	L008	80	C NO 1/7	
			Number of handling units or the line item tendered.												
90		Packaging Form Code		C ID 3/3	1	180		1	999	2	L0	L009	211	C ID 3/3	
			Required if L008 is present. Use migration code value 'SLD' to denote Sled. The following X12 code value, shown with its X12 definition, is used in this data element: PLT - Pallet SKD - Skid												
91		Dunnage Description		C AN 2/25	1	180		1	999	2	L0	L010	458	O AN 2/25	
92		Weight Unit Code		C ID 1/1	1	180		1	999	2	L0	L011	188	O ID 1/1	
			K - Kilograms L - Pounds												
93		Type of Service Code		C ID 2/2	1	180		1	999	2	L0	L012	56	O ID 2/2	

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION						
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes		(Composite) Attributes	
94		Quantity		C	R	1/15	1	180	1	999	2	L0	L013	380	C	R	1/15	
			Use only if L009 contains code values 'PLT' or 'SKD'.															
95		Packaging Form Code		C	ID	3/3	1	180	1	999	2	L0	L014	211	O	ID	3/3	
			Select appropriate packaging code from EDI X12 Draft Version 4 Release 1 Standards, DE 211.															
96		Yes/No Condition or Response Code		C	ID	1/1	1	180	1	999	2	L0	L015	1073	C	ID	1/1	
			Required if L013 is present. Use the following code values to denote the DoD definitions as indicated: N - Verification Not Required Y - Carrier will be Required to Verify the Number of Units Contained on a Pallet/Slip Sheet or Skid The following X12 code values, shown with their X12 definitions, are used in this data element: N - No Y - Yes															
97		L5 SEGMENT - Commodity Code		C			1	190	O	1	999	2	L0					
98		Lading Line Item Number		C	NO	1/3	1	190	1	999	2	L0	L501	213	O	NO	1/3	
			Start with value '1' and increment by 1 for each new commodity.															
99		Lading Description		C	AN	1/50	1	190	1	999	2	L0	L502	79	O	AN	1/50	
			May send quantity information as part of product description.															
100		Commodity Code		C	AN	1/30	1	190	1	999	2	L0	L503	22	C	AN	1/30	
101		Commodity Code Qualifier		C	ID	1/1	1	190	1	999	2	L0	L504	23	C	ID	1/1	
			Required if L503 is present. T - Standard Transportation Commodity Code (STCC)															

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
102		Packaging Code		C	AN 3/5	1	190		1	999	2	L0	L505	103	O AN 3/5	
103		Marks and Numbers		C	AN 1/48	1	190		1	999	2	L0	L506	87	C AN 1/48	
			Required if L507 is present. Use to report VIN numbers.													
104		Marks and Numbers Qualifier		C	ID 2/2	1	190		1	999	2	L0	L507	88	O ID 1/2	
			Use the following code value to denote the DoD definition as indicated: ZZ - Marks and Numbers The following X12 code value, shown with its X12 definition, is used in this data element: ZZ - Mutually Defined													
105		Commodity Code Qualifier		C	ID 1/1	1	190		1	999	2	L0	L508	23	C ID 1/1	
			T - Standard Transportation Commodity Code (STCC)													
106		Commodity Code		C	AN 1/30	1	190		1	999	2	L0	L509	22	C AN 1/30	
107		Compartment ID Code		C	ID 1/1	1	190		1	999	2	L0	L510	595	O ID 1/1	
			Code identifying compartment in compartment tank car. 1 - Brake End 2 - 2nd from Brake End 3 - 3rd from Brake End 4 - 4th from Brake End 5 - 5th from Brake End 6 - 6th from Brake End													
108		H1 SEGMENT - Hazardous Information		C		1	200	O	3	999	2	L0				
			Required if shipment contains hazardous materials.													
109		UN Number		M	AN 4/10	1	200		3	999	2	L0	H101	62	M AN 4/10	

DoD INFORMATION				X12 SEGMENT INFORMATION								X12 ELEMENT INFORMATION				
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
110		IMD Class Code		C	AN 1/4	1	200		3	999	2	LO	H102	209	O	AN 1/4
111		Hazardous Material Code Qualifier		C	ID 1/1	1	200		3	999	2	LO	H103	208	O	ID 1/1
		I - Intergovernmental Maritime Organization (IMO) Code														
112		Proper Shipping Name		C	AN 2/30	1	200		3	999	2	LO	H104	64	O	AN 2/30
113		Hazardous Material Contact		C	AN 1/24	1	200		3	999	2	LO	H105	63	O	AN 1/24
114		IMD Page Number		C	AN 1/6	1	200		3	999	2	LO	H106	200	O	AN 1/6
115		Flashpoint Temperature		C	N 1/3	1	200		3	999	2	LO	H107	77	C	N 1/3
		Highest temperature for hazardous materials.														
116		Unit or Basis for Measurement Code		C	ID 2/2	1	200		3	999	2	LO	H108	355	C	ID 2/2
		CE - Centigrade FA - Fahrenheit														
117		Packing Group Code		C	ID 1/3	1	200		3	999	2	LO	H109	254	O	ID 1/3
		Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101.														
118		SE SEGMENT - Rail Status Trailer		M		1	220	M	1							
119		Number of Included Segments		M	NO 1/10	1	220		1				SE01	96	M	NO 1/10
		Total segments in this transaction set including the ST and SE segments.														
120		Transaction Set Control Number		M	AN 4/9	1	220		1				SE02	329	M	AN 4/9
		This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.														