



Department
of
Defense

DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 858
Shipment Information
(Version 004010) – DoD Vendor
Shipment Information

VERSION 2

March 2018



Department
of
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DoD
Transportation
Electronic
Business (DTEB)
Convention

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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention the Department of Defense will use to process Transportation Control and Movement Data and Manifests Lading using the ASC X12 Transaction Set 858 Shipment Information (Version 004010) in support of the Defense Transportation community's Electronic Business (DTEB) program. The copyright on the ASC X12 standards is held by the Data Interchange Standards Association on behalf of ASC X12.

For further information about the DTEB program, to obtain DoD conventions or ASC X12 guidance or to recommend DoD conventions or ASC X12 maintenance, contact the following:

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

For the most recent publication, go to

https://its.ustranscom.mil/cris/dteb/ic/trans_ics.cfm

[Note: To access publication, you must have an ITS account.]

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?

A convention defines the rules for 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. Programmers use this section 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 may 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.

What's New In Version 2

Added in Version 2

DM Number	DM Description	Approval Date
1276	Add code 'A2' Military Assistance Program Address Code (MAPAC) to N103 of the 858E at the below indexes: 11-03 15-03 19-03 23-03 27-03	3/16/2018

Added in Version 1

DM Number	DM Description	Approval Date
1007	Request the code value 'ZZ' at index 4-01 be replaced with code value CN - Carriers Reference Number (PRO/Invoice)' to correct the issue of dual code meaning for the value 'ZZ'. This DM replaces DM 1006.	5/17/2011

Section 2.0

CONTROL SEGMENTS

Instruction

For detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners refer to the DoD Transportation Electronic Business (DTEB) Convention, ASC X12 Control Segments (Version 004010), located at:

https://its.ustranscom.mil/cris/dteb/ic/trans_ics.cfm

[Note: To access publication, you must have an ITS account.]

Commercial Trading Partners and DoD personnel that do not hold an ITS account may view the Convention at:

<http://www.ustranscom.mil/cmd/associated/dteb/>

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for generating air freight bills of lading using ASC X12 Transaction Set 858 Shipment Information (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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858 Shipment Information

Functional Group ID=**SI**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment Information Transaction Set (858) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the sender with the capability to transmit detailed bill-of-lading, rating, and/or scheduling information pertinent to a shipment. This transaction set can also be used to exchange Government Bills of Lading (GBLs), Commercial Bills of Lading (CBLs), Transportation Control and Movement Documents (TCMDs), and Personal Property Government Bills of Lading (PPGBLs). It may be used by the U.S. Civilian Government, U.S. Department of Defense, and any of their trading partners to exchange information about the shipment of freight, household goods, and passengers. This transaction set fulfills information requirements established by U.S. Government transportation movement rules and regulations.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
Not Used	020	ZC1	Beginning Segment for Data Correction or Change	O	1		
M	030	BX	General Shipment Information	M	1		n1
Not Used	040	BNX	Rail Shipment Information	O	1		
Not Used	050	M3	Release	O	1		
Must Use	060	N9	Reference Identification	O	30		
Not Used	065	CM	Cargo Manifest	O	3		
Not Used	070	Y6	Authentication	O	4		
Not Used	080	Y7	Priority	O	1		
	090	C3	Currency	O	1		
Not Used	100	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
	110	G62	Date/Time	O	10		
Not Used	120	PER	Administrative Communications Contact	O	3		
Not Used	130	NA	Cross-Reference Equipment	O	999		
Not Used	140	F9	Origin Station	O	1		
Not Used	150	D9	Destination Station	O	1		
Not Used	160	R1	Route Information (Air)	O	1		
Not Used	170	R2	Route Information	O	13		
Not Used	175	R3	Route Information - Motor	O	13		
Not Used	180	R4	Port or Terminal	O	5		
Not Used	190	MEA	Measurements	O	10		
	200	H3	Special Handling Instructions	O	20		
Not Used	201	PS	Protective Service Instructions	O	5		
Not Used	210	H6	Special Services	O	6		
Not Used	211	V4	Cargo Location Reference	O	1		
Not Used	212	V5	Vessel Code	O	1		
LOOP ID - E1						2	
Not Used	220	E1	Empty Car Disposition - Pended Destination Consignee	O	1		
Not Used	230	E4	Empty Car Disposition - Pended Destination City	O	1		
Not Used	240	E5	Empty Car Disposition - Pended Destination Route	O	13		

Not Used	245	PI	Price Authority Identification	O	1
Not Used	250	M1	Insurance	O	1
Not Used	260	M2	Sales/Delivery Terms	O	1
Not Used	270	L7	Tariff Reference	O	30
Not Used	280	NTE	Note/Special Instruction	O	50
Not Used	290	XH	Pro Forma - B13 Information	O	1
Not Used	330	N7	Equipment Details	O	1
Not Used	331	EM	Equipment Characteristics	O	1
Not Used	335	NA	Cross-Reference Equipment	O	30
Not Used	340	M7	Seal Numbers	O	5
Not Used	350	N5	Equipment Ordered	O	1
Not Used	360	REF	Reference Identification	O	5
Not Used	370	IC	Intermodal Chassis Equipment	O	1
Not Used	375	VC	Motor Vehicle Control	O	21
Not Used	380	GA	Canadian Grain Information	O	15
Not Used	381	E1	Empty Car Disposition - Pended Destination Consignee	O	1
Not Used	382	E4	Empty Car Disposition - Pended Destination City	O	1
Not Used	383	E5	Empty Car Disposition - Pended Destination Route	O	13
Not Used	384	PI	Price Authority Identification	O	1
Must Use	390	N1	Name	O	1
	400	N2	Additional Name Information	O	2
	410	N3	Address Information	O	2
Must Use	420	N4	Geographic Location	O	1
Not Used	430	REF	Reference Identification	O	12
Not Used	440	PER	Administrative Communications Contact	O	3
Not Used	445	H3	Special Handling Instructions	O	5
Not Used	450	S5	Stop-off Details	O	1
Not Used	460	G62	Date/Time	O	6
Not Used	470	N9	Reference Identification	O	10
Not Used	480	H6	Special Services	O	6
Not Used	490	N1	Name	O	1
Not Used	500	N2	Additional Name Information	O	2
Not Used	510	N3	Address Information	O	2
Not Used	520	N4	Geographic Location	O	1
Not Used	530	REF	Reference Identification	O	12
Not Used	540	PER	Administrative Communications Contact	O	3
	550	FA1	Type of Financial Accounting Data	O	1
M	560	FA2	Accounting Data	M	>1
Not Used	570	L10	Weight	O	1

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			>1	
M	010	HL	Hierarchical Level	M	1		
Not Used	020	N7	Equipment Details	O	1		
Not Used	030	NA	Cross-Reference Equipment	O	1		
Not Used	040	M7	Seal Numbers	O	5		
Not Used	050	N5	Equipment Ordered	O	1		
Not Used	060	REF	Reference Identification	O	5		
Not Used	070	IC	Intermodal Chassis Equipment	O	1		
Not Used	080	VC	Motor Vehicle Control	O	24		
Not Used	090	L7	Tariff Reference	O	10		
	095	SL1	Tariff Reference	O	1		
Must Use	100	N9	Reference Identification	O	10		
	105	H3	Special Handling Instructions	O	1		
Not Used	110	X1	Export License	O	6		
Not Used	120	X2	Import License	O	1		
	130	L5	Description, Marks and Numbers	O	10		
Not Used	131	PER	Administrative Communications Contact	O	5		
Not Used	132	LH2	Hazardous Classification Information	O	6		
Not Used	133	LHR	Hazardous Material Identifying Reference Numbers	O	1		
Not Used	134	LH6	Hazardous Certification	O	5		
Not Used	137	Y7	Priority	O	2		
Not Used	138	G62	Date/Time	O	10		
Not Used	140	NTE	Note/Special Instruction	O	100		
Not Used	142	LP	Load Planning	O	1		
Not Used	143	AXL	Vehicle Axle Measurements	O	12		
			LOOP ID - L0			20	
Must Use	145	L0	Line Item - Quantity and Weight	O	1		
	150	L1	Rate and Charges	O	20		
	160	MEA	Measurements	O	10		
			LOOP ID - LH1			100	
	170	LH1	Hazardous Identification Information	O	1		
	180	LH2	Hazardous Classification Information	O	4		n2
	190	LH3	Hazardous Material Shipping Name	O	12		
Not Used	191	LFH	Freeform Hazardous Material Information	O	20		
Not Used	192	LEP	EPA Required Data	O	3		
Not Used	200	LH4	Canadian Dangerous Requirements	O	1		
Not Used	201	LHT	Transborder Hazardous Requirements	O	3		
Not Used	210	LHR	Hazardous Material Identifying Reference Numbers	O	10		n3
Not Used	215	PER	Administrative Communications Contact	O	5		
Not Used	220	LHE	Empty Equipment Hazardous Material Information	O	1		n4
			LOOP ID - FA1			>1	
Not Used	230	FA1	Type of Financial Accounting Data	O	1		
Not Used	240	FA2	Accounting Data	M	>1		
Not Used	250	L10	Weight	O	1		

			LOOP ID - NM1			4
Not Used	260	NM1	Individual or Organizational Name	O	1	
Not Used	270	N3	Address Information	O	2	
Not Used	280	N4	Geographic Location	O	1	

			LOOP ID - N1			4
	290	N1	Name	O	1	
Not Used	300	N2	Additional Name Information	O	2	
Not Used	310	N3	Address Information	O	2	
Not Used	320	N4	Geographic Location	O	1	

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	L3	Total Weight and Charges	O	1		
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.
3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.
4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Business Rules: Variable Name: STST
Notes: [1] ST SEGMENT - Air Freight Bill of Lading Header (DG 10)

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set [1-01] Transaction Set Identifier Code (DG 10) 858 Shipment Information [1-01] Shipment Information	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [1-02] Transaction Set Control Number (DG 10) 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, the first five digits might indicate a group control number, with the last four digits representing the sequence of the transaction set within the functional group. Otherwise, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M AN 4/9

Segment: **BX** General Shipment Information
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identification numbers and other basic shipment data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [2] BX SEGMENT - Air Freight Bill of Lading Beginning Segment (DG 10)

Data Element Summary

<u>Ref.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BX01	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		[2-01] Transaction Set Purpose Code (DG 10)	
		Use of code '04' calls for the receiver to replace their most recent copy of the transaction.	
		00 Original	
		[2-01] Original	
		01 Cancellation	
		[2-01] Cancellation	
		04 Change	
		[2-01] Change	
M	BX02	91 Transportation Method/Type Code	M ID 1/2
		Code specifying the method or type of transportation for the shipment	
		[2-02] Transportation Method/Type Code (Mode Code) (DG 10)	
		7 Mail	
		Type of transportation provided by the U.S. Postal Service	
		[2-02] Mail	
		AF Air Freight	
		[2-02] Air Freight	
		C Consolidation	
		[2-02] Consolidation	
		Use 'C' to denote CCP Shipment	
		M Motor (Common Carrier)	
		[2-02] Motor (Common Carrier)	
		Use 'M' to denote Surface Freight Forwarder	
		MP Motor (Package Carrier)	
		[2-02] Motor (Package Carrier)	
		Use 'MP' to denote Small Package Express Carrier	
		ZZ Mutually defined	
		[2-02] Mutually defined	
		Use 'ZZ' to denote Other	
M	BX03	146 Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		[2-03] Shipment Method of Payment (DG 10)	
		CD Collect on Delivery	
		[2-03] Collect on Delivery	
		PP Prepaid (by Seller)	
		[2-03] Prepaid (by Seller)	
		Use 'PP' to denote DVD ITV prototype	

TP Third Party Pay

[2-03] Third Party Pay

>>	BX04	145	Shipment Identification Number	O AN 1/30
			Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)	
			[2-04] Bill of Lading Number (DG 10)	
			Use this element for the shipment ID assigned by the shipper. When generating bill of lading numbers, follow guidance provided by the X12 dictionary definition of data element 145.	
>>	BX05	140	Standard Carrier Alpha Code	O ID 2/4
			Standard Carrier Alpha Code	
			[2-05] Standard Carrier Alpha Code (DG 10)	
			The industry assigned alpha code representing the carrier who received the shipment.	
			SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	
X	BX06	188	Weight Unit Code	O ID 1/1
			Code specifying the weight unit	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	BX07	147	Shipment Qualifier	O ID 1/1
			Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time	
			[2-07] Shipment Type Qualifier (DG 10)	
			C Consolidated Shipment	
			[2-07] Consolidated Shipment	
			Use 'C' to denote rate is a contract rate	
X	BX08	226	Section Seven Code	O ID 1/1
			Code indicating applicability of section seven option (if not transmitted assume not in effect)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX09	195	Capacity Load Code	O ID 1/1
			Code specifying type of capacity load	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX10	160	Status Report Request Code	O ID 1/1
			Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX11	501	Customs Documentation Handling Code	O ID 2/2
			Code defining method of handling for documentation	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX12	199	Confidential Billing Request Code	O ID 1/1
			Code used by the shipper to request that the carrier inhibit origin identification information from the invoice transaction sets and/or rate and charges from waybill documents and transaction sets when shipment moves under confidential contract rates	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX13	714	Goods and Services Tax Reason Code	O ID 1/1
			Code required to identify the reason for a 0% rated goods and services tax	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	BX14	346	Application Type	O ID 2/2
			Code identifying an application	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: N9 Reference Identification
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 30
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: [3] N9 SEGMENT - Purchase Order Invoice Number (DG 10)
 SEGMENT CONDITION: Use when Purchase Order Invoice Number applies.
 [4] N9 SEGMENT - Carrier Assigned Shipment ID (DG 10)
 SEGMENT CONDITION: Use when the shipment ID assigned by the carrier, such as a PRO number applies.
 [5] N9 SEGMENT - Carrier Contract/Tender Number (DG 10)
 SEGMENT CONDITION: Use when Carrier Contract/Tender Number applies.
 [6] N9 SEGMENT - Issue Priority Designator (DG 10)
 Describes the priority of the items being shipped.
 SEGMENT CONDITION: Use if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[3-01] PO Invoice Number Qualifier (DG 10)	
		[4-01] Carrier Assigned Shipment ID Qualifier (DG 10)	
		CHANGE NOTE: Replaces 'ZZ' code user note per DM 1007.	
		[5-01] Carrier Contract Number Qualifier (DG 10)	
		[6-01] Issue Priority Designator Qualifier (DG 10)	
		CN Carrier's Reference Number (PRO/Invoice)	
		[4-01] Carrier's Reference Number (PRO/Invoice)	
		GC Government Contract Number	
		[5-01] Government Contract Number	
		PH Priority Rating	
		[6-01] Priority Rating	
		PO Purchase Order Number	
		[3-01] Purchase Order Number	
		ZZ Mutually Defined	
		[5-01] Mutually Defined	
		Use 'ZZ' to denote Tender 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 [3-02] PO Invoice Number (DG 10) [4-02] Carrier Assigned Shipment ID (DG 10) When generating shipment ID numbers for this data element 127, follow guidance provided by the X12 dictionary definition of data element 145. [5-02] Carrier Contract Number (DG 10) The contract number assigned by the Government to the carrier. Government customers use this number when placing orders with the carrier. [6-02] Issue Priority Designator (DG 10) Issue priority designator can range from 1 to 15.		
X	N903	369	Free-form Description	X	AN 1/45
			Free-form descriptive text		
X	N904	373	Date	O	DT 8/8
			Date expressed as CCYYMMDD		
X	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)		
X	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 Refer to 004010 Data Element Dictionary for acceptable code values.		
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: C3 Currency
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:

- 1 C301 is the billing currency.
- 2 C303 is the payment currency.
- 3 C304 is the rated currency.

Comments:

- 1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.

Notes: [7] C3 SEGMENT - Currency Code (DG 10)
This segment indicates the currency used for the bill of lading.
SEGMENT CONDITION: The segment is not required, and will not be used, when currency is in U.S. Dollars.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	C301	100	Currency Code	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
			[7-01] Currency Code (DG 10)	
			Data element C301 indicates a particular country's/region's currency used for all items on the Bill of Lading. (For example, the code value for EURO dollars is 'EUR'.) Other appropriate currency code values from the ISO 4217 table may be found on the web at:	
			http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html .	
			SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at	
			http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	
X	C302	280	Exchange Rate	O R 4/10
			Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	
X	C303	100	Currency Code	O ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	
X	C304	100	Currency Code	O ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	

Segment: **G62** Date/Time
Position: 110
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of G6201 or G6203 is required.
- 2 If either G6201 or G6202 is present, then the other is required.
- 3 If either G6203 or G6204 is present, then the other is required.

Semantic Notes:
Comments:

Notes: [8] G62 SEGMENT - Required Delivery Date (RDD) (DG 10)
 SEGMENT CONDITION: Required for repair parts pilots.
 [9] G62 SEGMENT - Carrier Pickup Date (DG 10)
 SEGMENT CONDITION: Required for FOB origin shipments.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	G6201	432 Date Qualifier	X ID 2/2
		Code specifying type of date	
		[8-01] Required Delivery Date (RDD) Qualifier (DG 10)	
		[9-01] Date Qualifier (DG 10)	
		68 Requested Delivery Date	
		[8-01] Requested Delivery Date	
		Use '68' to denote Required Delivery Date	
		86 Actual Pickup Date	
		[9-01] Actual Pickup Date	
>>	G6202	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		[8-02] Required Delivery Date (RDD) (DG 10)	
		[9-02] Carrier Pickup Date (DG 10)	
		Date shipment is picked up from the shipper by the carrier. Use CCYYMMDD format. Required for FOB origin shipments.	
		CHANGE NOTE: Requirement designation changed.	
	G6203	176 Time Qualifier	X ID 1/2
		Code specifying the reported time	
		[9-03] Time Qualifier (DG 10)	
		8 Actual Pickup Time	
		[9-03] Actual Pickup Time	
	G6204	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)	
		[9-04] Carrier Pickup Time (DG 10)	
		Time shipment is picked up from the shipper by the carrier. Use HHMM format.	
X	G6205	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 Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **H3** Special Handling Instructions
Position: 200
Loop:
Level: Heading
Usage: Optional
Max Use: 20
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:

[10] H3 SEGMENT - Split Shipment Indicator (DG 10)
 The shipper may need to split the shipment when items from the same purchase order need to be shipped in separate packages or on separate conveyances. Additionally, purchase order line item numbers need to be conveyed on the B/L to enable the consignee to reconcile split shipments.
 SEGMENT CONDITION: Use this segment when the shipment is split.

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	
			[10-01] Split Shipment Indicator (DG 10)	
			ZZZ Mutually Defined	
			[10-01] Mutually Defined	
			Use 'ZZZ' to denote The shipment was split at origin or enroute	
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	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	H304	242	Vent Instruction Code	O ID 1/7
			Code specifying vent instructions	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	H305	257	Tariff Application Code	O ID 1/1
			Code indicating to which traffic a tariff applies	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **N1** Name

Position: 390

Loop: N1 Optional (Must Use)

Level: Heading

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:

[11] N1 SEGMENT - Destination (DG 70)
Begins destination identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[15] N1 SEGMENT - Origin (DG 71)
Begins origin identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[19] N1 SEGMENT - Shipper (DG 72)
Begins shipper identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[23] N1 SEGMENT - Consignee/Mark-for-Party (DG 73)
LOOP CONDITION: Begins consignee identifier loop. The mark-for is the ultimate consignee. This loop calls for N1, N2, N3, and N4 segments.

[27] N1 SEGMENT - Payer Entity (DG 74)
SEGMENT CONDITION: Required for FOB origin shipments. Begins payer entity identifier loop. This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers. For the prototype, identify USBank in this segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[11-01] Entity Identifier Code (DG 70)	
		[15-01] Entity Identifier Code (DG 71)	
		[19-01] Entity Identifier Code (DG 72)	
		[23-01] Consignee/Mark-for-Party Qualifier (DG 73)	
		[27-01] Payer Identifier Code (DG 74)	
	BT	Bill-to-Party	
		[27-01] Bill-to-Party	
	CN	Consignee	
		[23-01] Consignee	
	SF	Ship From	
		[15-01] Ship From	
	SH	Shipper	
		[19-01] Shipper	
	ST	Ship To	
		[11-01] Ship To	

	N102	93	Name	X AN 1/60
			Free-form name	
			[11-02] Destination Name (DG 70) Name of party responsible for receiving delivery of the shipment. If DoDAAC is not available, this data element is MANDATORY.	
			[15-02] Origin Name (DG 71)	
			[19-02] Shipper Name (DG 72)	
			[23-02] Consignee/Mark-for-Party Name (DG 73)	
			[27-02] Payer Name (DG 74)	
			Use "USBank/PowerTrack" in this data element.	
>>	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			[11-03] Identification Code Qualifier (DG 70)	
			[15-03] Identification Code Qualifier (DG 71)	
			[19-03] Identification Code Qualifier (DG 72)	
			[23-03] Consignee/Mark-for-Party Identification Code Qualifier (DG 73)	
			[27-03] Payer Account Number Qualifier (DG 74)	
		1	D-U-N-S Number, Dun & Bradstreet	
			[11-03] D-U-N-S Number, Dun & Bradstreet	
			[15-03] D-U-N-S Number, Dun & Bradstreet	
			[19-03] D-U-N-S Number, Dun & Bradstreet	
			[23-03] D-U-N-S Number, Dun & Bradstreet	
			[27-03] D-U-N-S Number, Dun & Bradstreet	
		9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			[11-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			[15-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			[19-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			[23-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		10	Department of Defense Activity Address Code (DODAAC)	
			[11-03] Department of Defense Activity Address Code (DODAAC)	
			[15-03] Department of Defense Activity Address Code (DODAAC)	
			[19-03] Department of Defense Activity Address Code (DODAAC)	
			[23-03] Department of Defense Activity Address Code (DODAAC)	
		33	Commercial and Government Entity (CAGE)	
			[11-03] Commercial and Government Entity (CAGE)	
			[15-03] Commercial and Government Entity (CAGE)	
			[19-03] Commercial and Government Entity (CAGE)	
			[23-03] Commercial and Government Entity (CAGE)	

A2 Military Assistance Program Address Code (MAPAC)
 Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity
 [11-03] Military Assistance Program Address Code (MAPAC)
 [15-03] Military Assistance Program Address Code (MAPAC)
 [19-03] Military Assistance Program Address Code (MAPAC)
 [23-03] Military Assistance Program Address Code (MAPAC)
 [27-03] Military Assistance Program Address Code (MAPAC)

>>	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			[11-04] Destination DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 70) Code that identifies the activity responsible for receiving delivery of the shipment. Required for DLA prime vendor shipments.	
			[15-04] Origin DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 71) Identification code of the responsible activity at the pickup location. Required for DLA prime vendor shipments.	
			[19-04] Shipper DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 72)	
			[23-04] Consignee/Mark-for-Party DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 73)	
			[27-04] Payer Account Number (DG 74) Use US Bank's D-U-N-S Number.	
X	N105	706	Entity Relationship Code	O ID 2/2
			Code describing entity relationship	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
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: N2 Additional Name Information
Position: 400
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[12] N2 SEGMENT - Destination (DG 70)
 SEGMENT CONDITION: Use when Destination Additional Name applies.
 [16] N2 SEGMENT - Origin (DG 71)
 SEGMENT CONDITION: Use when Origin Additional Name applies.
 [20] N2 SEGMENT - Shipper (DG 72)
 SEGMENT CONDITION: Use when Shipper Additional Name applies.
 [24] N2 SEGMENT - Consignee (DG 73)
 SEGMENT CONDITION: Use when Consignee Additional Name applies.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name [12-01] Destination Additional Name (DG 70) [16-01] Origin additional Name (DG 71) [20-01] Shipper Additional Name (DG 72) [24-01] Consignee Additional Name (DG 73)	M AN 1/60
X	N202	93	Name Free-form name	O AN 1/60

Segment: N3 Address Information
Position: 410
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[13] N3 SEGMENT - Destination (DG 70)
 SEGMENT CONDITION: Use when Destination Street Address applies.
 [17] N3 SEGMENT - Origin (DG 71)
 SEGMENT CONDITION: Use when Origin Street applies.
 [21] N3 SEGMENT - Shipper (DG 72)
 SEGMENT CONDITION: Use when Shipper Street applies.
 [25] N3 SEGMENT - Consignee (DG 73)
 SEGMENT CONDITION: Use when Consignee Street applies.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N301	166	Address Information Address information [13-01] Destination Street (DG 70) [17-01] Origin Street (DG 71) [21-01] Shipper Street (DG 72) [25-01] Consignee Street (DG 73)	M AN 1/55
	N302	166	Address Information Address information [13-02] Destination Street Additional (DG 70) [17-02] Origin Street Additional (DG 71)	O AN 1/55

Segment: **N4 Geographic Location**
Position: 420
Loop: N1 Optional (Must Use)
Level: Heading
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: [14] N4 SEGMENT - Destination (DG 70)
[18] N4 SEGMENT - Origin (DG 71)
[22] N4 SEGMENT - Shipper (DG 72)
[26] N4 SEGMENT - Consignee (DG 73)

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
>>	N401	19 City Name	O AN 2/30
		Free-form text for city name	
		[14-01] Destination City (DG 70)	
		[18-01] Origin City (DG 71)	
		[22-01] Shipper City (DG 72)	
		[26-01] Consignee City (DG 73)	
	N402	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		[14-02] Destination State or Province Code (DG 70)	
		If a CONUS location, this element is MANDATORY.	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[18-02] Origin State or Province Code (DG 71)	
		If a CONUS location, this element is MANDATORY.	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[22-02] Shipper State or Province Code (DG 72)	
		If a CONUS location, this element is MANDATORY.	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
		[26-02] Consignee State or Province Code (DG 73)	
		If a CONUS location, this element is MANDATORY.	
		SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	

N403 **116** **Postal Code** **O ID 3/15**
Code defining international postal zone code excluding punctuation and blanks
(zip code for United States)



N404 **26** **Country Code** **O ID 2/3**
Code identifying the country



			National Standards Institute.	
X	N405	309	Location Qualifier	X ID 1/2
Code identifying type of location				
Refer to 004010 Data Element Dictionary for acceptable code values.				
X	N406	310	Location Identifier	O AN 1/30
Code which identifies a specific location				

Segment: **FA1** Type of Financial Accounting Data
Position: 550
Loop: FA1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation

Syntax Notes:
Semantic Notes: 1 FA101 Identifies the organization controlling the assignment of financial accounting information.
 2 FA102 Identifies the purpose of the accounting allowance or charge information.

Comments:
Notes: [28] FA1 SEGMENT - Appropriation Number (DG 90)
 This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners.
 SEGMENT CONDITION: Carriers do not need to receive appropriation data.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	FA101	559	Agency Qualifier Code Code identifying the agency assigning the code values [28-01] Agency Qualifier Code (DG 90) Code identifying the agency assigning the code values. CHANGE NOTE: Correct 'HS' code user note per DM 911.	M ID 2/2
			DF Department of Defense (DoD) [28-01] Department of Defense (DoD)	
			DN Department of the Navy [28-01] Department of the Navy	
			DX United States Marine Corps [28-01] United States Marine Corps	
			DY Department of Air Force [28-01] Department of Air Force	
			DZ Department of Army [28-01] Department of Army	
			HS Department of Health and Human Services [28-01] Department of Health and Human Services Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG)	
X	FA102	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge	O ID 4/4
X	FA103	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **FA2 Accounting Data**
Position: 560
Loop: FA1 Optional
Level: Heading
Usage: Mandatory
Max Use: >1
Purpose: To specify the detailed accounting data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [29] FA2 SEGMENT - Appropriation Number (DG 90)
 Note: Required if FA1 loop appears.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	FA201	1196 Breakdown Structure Detail Code	M ID 2/2
Codes identifying details relating to a reporting breakdown structure tree			
[29-01] Breakdown Structure Detail Code (DG 90)			
		18 Funds Appropriation	
		Coding to track the source of funds (such as various government agencies)	
		[29-01] Funds Appropriation	
		84 Total Direct Costs	
		[29-01] Total Direct Costs	
		A1 Department Indicator	
		[29-01] Department Indicator	
		A2 Transfer from Department	
		[29-01] Transfer from Department	
		A3 Fiscal Year Indicator	
		[29-01] Fiscal Year Indicator	
		A4 Basic Symbol Number	
		[29-01] Basic Symbol Number	
		A5 Sub-class	
		[29-01] Sub-class	
		A6 Sub-Account Symbol	
		[29-01] Sub-Account Symbol	
		AT Air Force Transportation Account Code (ATAC)	
		[29-01] Air Force Transportation Account Code (ATAC)	
		B1 Budget Activity Number	
		[29-01] Budget Activity Number	
		B2 Budget Sub-activity Number	
		[29-01] Budget Sub-activity Number	
		B3 Budget Program Activity	
		[29-01] Budget Program Activity	
		C1 Program Element	
		[29-01] Program Element	
		C2 Project Task or Budget Subline	
		[29-01] Project Task or Budget Subline	
		D1 Defense Agency Allocation Recipient	
		[29-01] Defense Agency Allocation Recipient	

D4	Component Sub-allocation Recipient
	[29-01] Component Sub-allocation Recipient
D6	Sub-allotment Recipient
	[29-01] Sub-allotment Recipient
D7	Work Center Recipient
	[29-01] Work Center Recipient
E1	Major Reimbursement Source Code
	[29-01] Major Reimbursement Source Code
E2	Detail Reimbursement Source Code
	[29-01] Detail Reimbursement Source Code
E3	Customer Indicator
	[29-01] Customer Indicator
F1	Object Class
	[29-01] Object Class
F3	Government or Public Sector Identifier
	[29-01] Government or Public Sector Identifier
G2	Special Interest Code or Special Program Cost Code
	[29-01] Special Interest Code or Special Program Cost Code
I1	Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)
	[29-01] Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)
J1	Document or Record Reference Number
	[29-01] Document or Record Reference Number
K6	Accounting Classification Reference Code
	[29-01] Accounting Classification Reference Code
L1	Accounting Installation Number
	[29-01] Accounting Installation Number
M1	Local Installation Data
	[29-01] Local Installation Data
MD	Movement Designator Code (MDC)
	[29-01] Movement Designator Code (MDC)
N1	Transaction Type
	[29-01] Transaction Type
P5	Foreign Military Sales (FMS) Line Item Number
	[29-01] Foreign Military Sales (FMS) Line Item Number
TA	Transportation Account Code (TAC)
	[29-01] Transportation Account Code (TAC)
ZZ	Mutually Defined
	[29-01] Mutually Defined

M FA202 1195 Financial Information Code M AN 1/80

Code representing financial accounting information

[29-02] Appropriation Number (DG 90)

When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.

Segment: **HL Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes:

[30] HL SEGMENT - Pallet Description Loop (DG 140)
 LOOP CONDITION: This segment begins the pallet description loop. It occurs once for each pallet in the shipment. This loop calls for HL, L5, L0, and MEA segments.

[34] HL SEGMENT - Box/Cooler Description Loop (DG 120)
 This segment begins the box and cooler description loop. It occurs once for each box or cooler in the shipment. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix. The loop contains HL, L5, L0, and MEA segments.
 SEGMENT CONDITION: Use if Pallet Weight applies.

[39] HL SEGMENT - Bill of Lading Line Item Description Loop (DG 100)
 Begins bill of lading (B/L) line item description loop. This loop calls for HL, N9, L0, L1, LH1, LH2, and LH3 segments. The B/L line item contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order. If the purchase order line item is broken into multiple handling loads (box/cooler/pallet) for shipment, then this loop should occur once for each handling unit.

[54] HL SEGMENT - Level of Service Loop (DG 300)
 SEGMENT CONDITION: This loop applies once for the bill of lading. This loop calls for HL and SL1 segments. Required for express packages shipment.

[56] HL SEGMENT - Accessorial Service Description Loop (DG 301)
 SEGMENT CONDITION: Begins accessorial service description loop. This loop calls for HL, L0, and L1 segments. This loop occurs once for each accessorial service that applies to the shipment.

Data Element Summary

Ref.	Des.	Data Element	Name	Attributes
M	HL01	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure [30-01] Hierarchical ID Number (DG 140) A sequential number assigned by the shipper's application system. [34-01] Hierarchical ID Number (DG 120) A sequential number assigned by the shipper's application system. [39-01] Hierarchical ID Number (DG 100) A sequential number assigned by the shipper's application system. [54-01] Hierarchical ID Number (DG 300) A sequential number assigned by the shipper's application system. [56-01] Hierarchical ID Number (DG 301) A sequential number assigned by the shipper's application system.	M AN 1/12
X	HL02	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure [30-03] Hierarchical Level Code (DG 140) [34-03] Hierarchical Level Code (DG 120) [39-03] Hierarchical Level Code (DG 100) Qualifier identifying that all information within this HL loop corresponds to bill of lading line item details. [54-03] Hierarchical Level Code (DG 300) [56-03] Hierarchical Level Code (DG 301) 9 Line Detail Code identifying the supporting detail associated with the charge or group [39-03] Line Detail 41 Product Level [54-03] Product Level P Pack [34-03] Pack Use 'P' to denote Box/Cooler SS Services [56-03] Services UT Unit or Lot [30-03] Unit or Lot	M ID 1/2
X	HL04	736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **SL1** **Tariff Reference**
Position: 095
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service
Syntax Notes: 1 At least one of SL103 or SL104 is required.
Semantic Notes: 1 SL101 is the service requested by the customer.
2 SL105 is the effective date.
3 SL106 is the service provided by the carrier.
Comments: 1 Scale and commodity codes are proprietary codes maintained by the carrier.
Notes: [55] SL1 SEGMENT - Level of Service (DG 300)
SEGMENT CONDITION: Use if Level of Service applies.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SL101	284 Service Level Code	M ID 2/2
		Code indicating the level of transportation service or the billing service offered by the transportation carrier	
		[55-01] Service Level Code (DG 300)	
		DF Deferred Service	
		[55-01] Deferred Service	
		NF Next Flight Out	
		[55-01] Next Flight Out	
		ON Overnight	
		[55-01] Overnight	
		SC Second Day Air	
		Delivery during business day hours no later than second business day	
		[55-01] Second Day Air	
X	SL102	171 Tariff Number	O AN 1/7
		Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	
X	SL103	22 Commodity Code	X AN 1/30
		Code describing a commodity or group of commodities	
X	SL104	320 Scale	X AN 1/10
		A carrier-maintained reference used to further identify a schedule of rates within a tariff	
X	SL105	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
X	SL106	284 Service Level Code	O ID 2/2
		Code indicating the level of transportation service or the billing service offered by the transportation carrier	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	SL107	146 Shipment Method of Payment	O ID 2/2
		Code identifying payment terms for transportation charges	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	SL108	982 Data Source Code	O ID 2/2
		Code identifying source of data	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	SL109	210 International/Domestic Code	O ID 1/1
		Code indicating international or domestic shipment	

Segment: **N9 Reference Identification**
Position: 100
Loop: HL Mandatory
Level: Detail
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:

[40] N9 SEGMENT - Vendor Contract Number (DG 100)
SEGMENT CONDITION: Use if Vendor Contract Number applies.
[41] N9 SEGMENT - Purchase Order Line Item Number (DG 100)
In the event a purchase order line item is split into two or more bill of lading line items, this segment will enable the buyer and seller to identify all parts of a purchase order line item.
[42] N9 SEGMENT - Requisition Number (DG 100)
SEGMENT CONDITION: Required for repair parts vendors receiving requisition numbers from their ICPs.
[43] N9 SEGMENT - Purchase Call Number (DG 100)
For DVD ITV prototype, use this segment for the order call number.
[44] N9 SEGMENT - Pallet Identifier (DG 100)
SEGMENT CONDITION: This segment identifies the pallet on which the bill of lading line item is conveyed.
[45] N9 SEGMENT - Box/Cooler Identifier (DG 100)
SEGMENT CONDITION: This segment identifies the box or cooler in which the bill of lading line item is conveyed. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix.
[46] N9 SEGMENT - Transportation Control Number (TCN) (DG 100)
SEGMENT CONDITION: Required for vendors using TCNs when shipping to a CCP.
[47] N9 SEGMENT - Description of Articles (DG 100)
SEGMENT CONDITION: Required for DVD ITV prototype.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[40-01] Vendor Contract Number Qualifier (DG 100)	
		[41-01] Purchase Order Line Item Number Qualifier (DG 100)	
		[42-01] Requisition Number Qualifier (DG 100)	
		[43-01] Purchase Call Number Qualifier (DG 100)	
		[44-01] Pallet Identification Qualifier (DG 100)	
		[45-01] Box/Cooler Identification Qualifier (DG 100)	
		[46-01] TCN Qualifier (DG 100)	
		[47-01] Product Code Qualifier (DG 100)	
		Code values '3Q' and 'CH' pertain to the ITV prototype.	
		3Q Food and Drug Administration (FDA) Product Code	
		[47-01] Food and Drug Administration (FDA) Product Code	
		Use '3Q' to denote National Drug Code/FDA Product Code	
		BV Purchase Order Line Item Identifier (Buyer)	
		[41-01] Purchase Order Line Item Identifier (Buyer)	

CH	Customer catalog number [47-01] Customer catalog number Use 'CH' to denote Vendor catalog number
MF	Manufacturers Part Number [47-01] Manufacturers Part Number
NS	National Stock Number [47-01] National Stock Number
OZ	Product Number [47-01] Product Number
PG	Product Group [47-01] Product Group
PIN	Platform Identification Number [44-01] Platform Identification Number
PO	Purchase Order Number [43-01] Purchase Order Number
Q2	Starting Package Number The beginning package number in a shipment or container of numbered packages [45-01] Starting Package Number
RQ	Purchase Requisition Number [42-01] Purchase Requisition Number
TG	Transportation Control Number (TCN) [46-01] Transportation Control Number (TCN)
VC	Vendor Contract Number [40-01] Vendor Contract Number
XY	Other Unlisted Type of Reference Number [47-01] Other Unlisted Type of Reference 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 [40-02] Vendor Contract Number (DG 100) [41-02] Purchase Order Line Item Number (DG 100) [42-02] Requisition Number (DG 100) [43-02] Purchase Call Number (DG 100) A number that uniquely identifies the purchase transaction that resulted in the shipment. [44-02] Pallet Identifier (DG 100) [45-02] Box/Cooler Identifier (DG 100) [46-02] TCN (DG 100) [47-02] Product Code (DG 100)	
	N903	369	Free-form Description	X AN 1/45
			Free-form descriptive text [47-03] Product Description (DG 100) Clear text description of the unit of sale being shipped.	
X	N904	373	Date	O DT 8/8
			Date expressed as CCYYMMDD	
X	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)	

X	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
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: **H3** Special Handling Instructions
Position: 105
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
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: [48] H3 SEGMENT - Refrigerated Item Indicator (DG 100)
 SEGMENT CONDITION: Use this segment when shipment contains refrigerated item(s).

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	H301	152	Special Handling Code Code specifying special transportation handling instructions [48-01] Refrigerated Item Indicator (DG 100) MRF Refrigerated [48-01] Refrigerated	X ID 2/3
X	H302	153	Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate	X AN 2/30
X	H303	241	Protective Service Code Code specifying perishable protective service- rail carriers only Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/4
X	H304	242	Vent Instruction Code Code specifying vent instructions Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/7
X	H305	257	Tariff Application Code Code indicating to which traffic a tariff applies Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **L5** Description, Marks and Numbers
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
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:
 [31] L5 SEGMENT - Pallet ID (DG 140)
 SEGMENT CONDITION: Use if Pallet ID applies.
 [35] L5 SEGMENT - Box's Parent Pallet ID (DG 120)
 SEGMENT CONDITION: Use if Box's Parent Pallet ID applies.
 [36] L5 SEGMENT - Box ID (DG 120)
 SEGMENT CONDITION: Use if Box ID applies.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
X	L501	213	Lading Line Item Number Sequential line number for a lading item	O N0 1/3
X	L502	79	Lading Description Description of an item as required for rating and billing purposes	O AN 1/50
X	L503	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
X	L504	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1
X	L505	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
>>	L506	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment [31-06] Pallet ID (DG 140) [35-06] Pallet ID (DG 120) [36-06] Box ID (DG 120)	X AN 1/48
>>	L507	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) [31-07] Pallet ID Qualifier (DG 140) [35-07] Pallet ID Qualifier (DG 120) [36-07] Box ID Qualifier (DG 120) CA Shipper-Assigned Case Number Number identifying unit shipped [36-07] Shipper-Assigned Case Number W Pallet Number [31-07] Pallet Number [35-07] Pallet Number	O ID 1/2
X	L508	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/1

X	L509	22	Commodity Code Code describing a commodity or group of commodities	X AN 1/30
X	L510	595	Compartment ID Code Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **L0** Line Item - Quantity and Weight
Position: 145
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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:

[32] L0 SEGMENT - Pallet Weight (DG 140)
 SEGMENT CONDITION: Use if Pallet Weight applies.
 [37] L0 SEGMENT - Box Weight (DG 120)
 SEGMENT CONDITION: Use if Box Weight applies.
 [49] L0 SEGMENT - Bill of Lading Line Item Quantities (DG 100)
 [57] L0 SEGMENT - Accessorial Service (DG 301)

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	L001	213	Lading Line Item Number	O N0 1/3
			Sequential line number for a lading item [57-01] Lading Line Item Number (DG 301) To use the L1 segment to identify service level code, enter '1' in this data element to satisfy X12 syntax.	
X	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	
X	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 Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L004	81	Weight	X R 1/10
			Numeric value of weight [32-04] Actual Pallet Weight (DG 140) The actual weight of the loaded pallet. [37-04] Actual Box Weight (DG 120) [49-04] Actual Weight of Bill of Lading Line Item (DG 100) The combined weight of the total units of sale shipped under this bill of lading line item. This is always expressed in pounds and may extend to two decimal places.	

>>	L005	187	Weight Qualifier	X	ID 1/2
			Code defining the type of weight		
			[32-05] Actual Pallet Weight Qualifier (DG 140)		
			[37-05] Actual Box Weight Qualifier (DG 120)		
			[49-05] Actual Weight Qualifier (DG 100)		
		FR	Freight Weight		
			[49-05] Freight Weight		
		PA	Pallet Weight		
			[32-05] Pallet Weight		
		Z	Mutually Defined		
			[37-05] Mutually Defined		
	L006	183	Volume	X	R 1/8
			Value of volumetric measure		
			[49-06] Cube of Bill of Lading Line Item (DG 100)		
	L007	184	Volume Unit Qualifier	X	ID 1/1
			Code identifying the volume unit		
			[49-07] Cube Unit Qualifier (DG 100)		
		E	Cubic Feet		
			[49-07] Cubic Feet		
		N	Cubic Inches		
			[49-07] Cubic Inches		
>>	L008	80	Lading Quantity	X	N0 1/7
			Number of units (pieces) of the lading commodity		
			[49-08] Actual Quantity of Bill of Lading Line Item (DG 100)		
			This element carries the quantity of the units of sale shipped under this line item.		
>>	L009	211	Packaging Form Code	X	ID 3/3
			Code for packaging form of the lading quantity		
			[49-09] Packaging Form Code (DG 100)		
			This data element qualifies the quantity of NDC units identified in the L008 data element 80.		
			CHANGE NOTE: "PLL" Migration Code value added per DM 0549.		
		PLL	New Code Added by IC		
			[49-09] [Migration Code] 463L Air Pallet		
		PLT	Pallet		
			[49-09] Pallet		
		UNT	Unit		
			[49-09] Unit		
X	L010	458	Dunnage Description	O	AN 2/25
			Material used to protect lading		
X	L011	188	Weight Unit Code	O	ID 1/1
			Code specifying the weight unit		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	L012	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.		
	L013	380	Quantity	X	R 1/15
			Numeric value of quantity		
			[49-13] Freight Pieces (DG 100)		
			Use to distinguish between total freight pieces and quantity of items shipped (e.g., shipping a quantity of 15, where total freight pieces = 1 box and quantity of items shipped = 15).		

X	L014	211	Packaging Form Code	O ID 3/3
			Code for packaging form of the lading quantity	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	L015	1073	Yes/No Condition or Response Code	X ID 1/1
			Code indicating a Yes or No condition or response	
			[49-15] Freight Pieces Qualifier (DG 100)	
			N	No
				[49-15] No
				Use 'N' to denote Number

Segment: **L1 Rate and Charges**
Position: 150
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes:
1 If either L102 or L103 is present, then the other is required.
2 At least one of L104 L105 or L106 is required.
3 If either L114 or L115 is present, then the other is required.
4 If either L117 or L118 is present, then the other is required.

Semantic Notes:
1 L119 is the percent used to determine the charge in L104.
2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3 L121 is the origin rated as charge amount.

Comments:

Notes: [58] L1 SEGMENT - Accessorial Service Charge (DG 301)
 SEGMENT CONDITION: Use if Accessorial Service Charge applies

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
X	L101	213 Lading Line Item Number Sequential line number for a lading item	O N0 1/3
X	L102	60 Freight Rate Rate that applies to the specific commodity	X R 1/9
X	L103	122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
>>	L104	58 Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified [58-04] Service Charge (DG 301) The charge for an accessorial service. Use up to 9-digits with an implied decimal at the second position.	X N2 1/12
X	L105	191 Advances Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	X N2 1/9
X	L106	117 Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	X N2 1/9
X	L107	120 Rate Combination Point Code The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/9
>>	L108	150 Special Charge or Allowance Code Code identifying type of special charge or allowance [58-08] Service Code (DG 301) When implementation requirements are identified, DoD will develop a complete list of service codes. 400 Freight [58-08] Freight Use '400' to denote Normal	O ID 3/3

HAZ	Hazardous Cargo Charge [58-08] Hazardous Cargo Charge Use 'HAZ' to denote HAZMAT
REF	Refrigeration [58-08] Refrigeration Use 'REF' to denote Perishable
ZZZ	Mutually Defined [58-08] Mutually Defined

X	L109	121	Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/3
X	L110	39	Entitlement Code Code identifying entitlement party Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	L111	16	Charge Method of Payment Code defining method of payment Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	L112	276	Special Charge Description Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150	O AN 2/25
X	L113	257	Tariff Application Code Code indicating to which traffic a tariff applies Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	L114	74	Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	X N2 2/12
X	L115	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	L116	372	Lading Liability Code Code identifying limits of liability Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	L117	220	Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81	X R 1/11
X	L118	221	Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	L119	954	Percent Percentage expressed as a decimal	O R 1/10
X	L120	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	O ID 3/3
X	L121	610	Amount Monetary amount	O N2 1/15

Segment: **MEA** Measurements
Position: 160
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

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

Notes: [33] MEA SEGMENT - Pallet Dimensions (DG 140)
Repeat this segment for each pallet dimension. All dimensions are required for all 3PL carrier shipments.
CHANGE NOTE: User note added for clarification per SDDC guidance.
SEGMENT CONDITION: Use if Pallet Weight applies.
[38] MEA SEGMENT - Box Dimensions (DG 120)
CHANGE NOTE: User note added for clarification per SDDC guidance.
SEGMENT CONDITION: Repeat this segment for each box/cooler dimension. All dimensions are required for all 3PL carrier shipments.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	MEA01	737 Measurement Reference ID Code	O ID 2/2
		Code identifying the broad category to which a measurement applies	
		[33-01] Pallet Measurement Reference ID Code (DG 140)	
		[38-01] Box Measurement Reference ID Code (DG 120)	
		PA Pallet Dimensions	
		[33-01] Pallet Dimensions	
		PK Package Dimensions	
		[38-01] Package Dimensions	
		Use 'PK' to denote Box Dimensions	
>>	MEA02	738 Measurement Qualifier	O ID 1/3
		Code identifying a specific product or process characteristic to which a measurement applies	
		[33-02] Pallet Measurement Qualifier (DG 140)	
		[38-02] Box Measurement Qualifier (DG 120)	
		HT Height	
		[33-02] Height	
		[38-02] Height	
		LN Length	
		[33-02] Length	
		[38-02] Length	
		WD Width	
		[33-02] Width	
		[38-02] Width	
>>	MEA03	739 Measurement Value	X R 1/20
		The value of the measurement	
		[33-03] Pallet Measurement Value (DG 140)	
		[38-03] Box Measurement Value (DG 120)	

>>	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			[33-04] Composite Unit of Measure (DG 140)	
			C00101 calls for an identifier from the DE 355 code list.	
			[38-04] Composite Unit of Measure (DG 120)	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			[33-04-01] English Measurement Code (DG 140)	
			[38-04-01] English Measurement Code (DG 120)	
			IN Inch	
			[33-04-01] Inch	
			[38-04-01] Inch	
	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
X	MEA05	740	Range Minimum	X R 1/20
			The value specifying the minimum of the measurement range	

X	MEA06	741	Range Maximum The value specifying the maximum of the measurement range	X R 1/20
X	MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/4

Segment: **LH1 Hazardous Identification Information**
Position: 170
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: [50] LH1 SEGMENT - HAZMAT Indicator (DG 100)
This segment begins the HAZMAT loop. The loop may occur only once per line item. If the shipment calls for a simple HAZMAT indicator, use only the LH1 segment. If the shipment calls for more than an indicator, use the LH1, LH2, and LH3 segments as required.
SEGMENT CONDITION: Use this segment to indicate when an item is a hazardous material.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LH101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			[50-01] HAZMAT - Unit of Measure Code (DG 100)	
			If an item requires a HAZMAT indicator ONLY, use code value 'ZZ' in this data element and value zero (0) in LH102.	
			ZZ Mutually Defined	
			[50-01] Mutually Defined	
M	LH102	80	Lading Quantity	M N0 1/7
			Number of units (pieces) of the lading commodity	
			[50-02] HAZMAT - Lading Quantity (DG 100)	
			Use value zero (0).	
>>	LH103	277	UN/NA Identification Code	O ID 6/6
			Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
			[50-03] HAZMAT - UN/NA Identification Code (DG 100)	
			Contains the United Nations/North America (UN/NA) code.	
			SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	
X	LH104	200	Hazardous Materials Page	O AN 1/6
			The United Nations page number as required for the international transport of hazardous materials	
X	LH105	22	Commodity Code	O AN 1/30
			Code describing a commodity or group of commodities	
X	LH106	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH107	380	Quantity	O R 1/15
			Numeric value of quantity	

X	LH108	595	Compartment ID Code	O ID 1/1
			Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH109	665	Residue Indicator Code	O ID 1/1
			Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded Refer to 004010 Data Element Dictionary for acceptable code values.	
	LH110	254	Packing Group Code	O ID 1/3
			Code indicating degree of danger in terms of Roman number I, II or III [50-10] HAZMAT - Packing Group Code (DG 100) 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. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada	
X	LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
			Identifies the current regulatory version number used for hazardous materials shipments	

Segment: **LH2 Hazardous Classification Information**
Position: 180
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes: 1 If either LH206 or LH207 is present, then the other is required.
2 If either LH208 or LH209 is present, then the other is required.
3 If either LH210 or LH211 is present, then the other is required.
Semantic Notes: 1 LH206 and LH207 indicate the flashpoint temperature.
2 LH208 and LH209 indicate the control temperature.
3 LH210 and LH211 indicate the emergency temperature.
Comments:
Notes: [51] LH2 SEGMENT - HAZMAT Classification (DG 100)
SEGMENT CONDITION: Use if HAZMAT Classification applies.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	LH201	215 Hazardous Classification	O ID 1/30
		The hazardous classification corresponding to the shipping name of the hazardous commodity [51-01] HAZMAT - Hazardous Class Division (DG 100) Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This loop needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	
>>	LH202	983 Hazardous Class Qualifier	O ID 1/1
		Code qualifying hazardous class [51-02] HAZMAT - Hazardous Class Qualifier (DG 100) Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P Primary [51-02] Primary S Secondary [51-02] Secondary	
X	LH203	218 Hazardous Placard Notation	O ID 14/40
		The placard notation corresponding to the hazard class of the hazardous commodity	
X	LH204	222 Hazardous Endorsement	O ID 4/25
		The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	
X	LH205	759 Reportable Quantity Code	O ID 2/2
		Code to identify presence of hazardous substance Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH206	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 Refer to 004010 Data Element Dictionary for acceptable code values.	

X	LH207	408	Temperature Temperature	X R 1/4
X	LH208	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	LH209	408	Temperature Temperature	X R 1/4
X	LH210	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	LH211	408	Temperature Temperature	X R 1/4

Segment: **LH3** Hazardous Material Shipping Name
Position: 190
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: [52] LH3 SEGMENT - HAZMAT Names (DG 100)
 SEGMENT CONDITION: Use if HAZMAT Names apply.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	LH301	224 Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49 [52-01] HAZMAT - Proper Shipping Name (DG 100) From table at 49 CFR 172.101, column 2. MANDATORY for all hazardous material shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	
>>	LH302	984 Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name [52-02] HAZMAT - Proper Shipping Name Qualifier (DG 100)	
		C	Canadian Shipping Name [52-02] Canadian Shipping Name
		D	Domestic (United States) Shipping Name [52-02] Domestic (United States) Shipping Name
		I	International Shipping Name [52-02] International Shipping Name
X	LH303	985 N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LH304	1073 Yes/No Condition or Response Code	O ID 1/1
		Code indicating a Yes or No condition or response Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **N1** Name
Position: 290
Loop: N1 Optional
Level: Detail
Usage: Optional
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: [53] N1 SEGMENT - Consignee DoDAAC (DG 100)
 SEGMENT CONDITION: The consignee DoDAAC should be derived from the Purchase Order.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[53-01] Consignee Qualifier (DG 100)	
		CN Consignee	
		[53-01] Consignee	
X	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		[53-03] Consignee DoDAAC Qualifier (DG 100)	
		10 Department of Defense Activity Address Code (DODAAC)	
		[53-03] Department of Defense Activity Address Code (DODAAC)	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		[53-04] Consignee DoDAAC (DG 100)	
X	N105	706 Entity Relationship Code	O ID 2/2
		Code describing entity relationship	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
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: **L3 Total Weight and Charges**
Position: 010
Loop:
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

- Syntax Notes:**
- 1 If either L301 or L302 is present, then the other is required.
 - 2 If either L303 or L304 is present, then the other is required.
 - 3 If either L309 or L310 is present, then the other is required.
 - 4 If L312 is present, then L301 is required.
 - 5 If either L314 or L315 is present, then the other is required.
- Semantic Notes:**
- 1 L305 is the total charges.

Comments:

Notes: [59] L3 SEGMENT - Totals for Shipment (DG 900)

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
>>	L301	81 Weight	X R 1/10
		Numeric value of weight	
		[59-01] Total Actual Weight of Shipment (DG 900) See Section 9.0 (DTEDI Air Freight Bill of Lading Implementation Convention) for instruction about calculating the greater of actual or dimensional (GAD) weight.	
>>	L302	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[59-02] GAD Weight Qualifier (DG 900)	
		G Gross Weight	
		[59-02] Gross Weight	
X	L303	60 Freight Rate	X R 1/9
		Rate that applies to the specific commodity	
X	L304	122 Rate/Value Qualifier	X ID 2/2
		Code qualifying how to extend charges or interpret value	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	L305	58 Charge	O N2 1/12
		For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified	
		[59-05] Total Charge for the Shipment (DG 900)	
X	L306	191 Advances	O N2 1/9
		Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified	
X	L307	117 Prepaid Amount	O N2 1/9
		Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified	
X	L308	150 Special Charge or Allowance Code	O ID 3/3
		Code identifying type of special charge or allowance	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	L309	183 Volume	X R 1/8
		Value of volumetric measure	
		[59-09] Total Cube of Shipment (DG 900)	

	L310	184	Volume Unit Qualifier Code identifying the volume unit [59-10] Total Cube Unit Qualifier (DG 900) E Cubic Feet [59-10] Cubic Feet	X	ID 1/1
X	L311	80	Lading Quantity Number of units (pieces) of the lading commodity	O	N0 1/7
X	L312	188	Weight Unit Code Code specifying the weight unit Refer to 004010 Data Element Dictionary for acceptable code values.	O	ID 1/1
X	L313	171	Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s)	O	AN 1/7
X	L314	74	Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified	X	N2 2/12
X	L315	122	Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

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

Notes: [60] SE SEGMENT - Air Freight Bill of Lading Trailer (DG 900)

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
			[60-01] Number of Included Segments (DG 900)	
			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	
			[60-02] Transaction Set Control Number (DG 900)	
			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. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

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 “Route Order Number Qualifier.” This is more concise than using the generic X12 label of “Qualifier.” 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 bill of lading into the ASC X12 Transaction Set 858 Shipment Information. These requirements were developed by transportation activities involved in the DoD electronic data interchange effort.

This IC includes all changes approved by the DTEB Committee and described in DTEB data maintenance (DM) items up to the publication date of the IC.

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

DoD VENDOR SHIPMENT INFORMATION
858.E.004010

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 Lvl	Lp ID	Ref Des	DE #	Attributes	
1	10	ST SEGMENT - Air Freight Bill of Lading Header	M	1	010	M	1							
1-01	10	Transaction Set Identifier Code 858 - Shipment Information	M ID 3/3	1	010	M	1				ST01	143	M ID	3/3
				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).										
1-02	10	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, the first five digits might indicate a group control number, with the last four digits representing the sequence of the transaction set within the functional group. Otherwise, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M AN 4/9	1	010	M	1				ST02	329	M AN	4/9
2	10	BX SEGMENT - Air Freight Bill of Lading Beginning Segment	M	1	030	M	1							
2-01	10	Transaction Set Purpose Code Use of code '04' calls for the receiver to replace their most recent copy of the transaction. 00 - Original 01 - Cancellation 04 - Change	M ID 2/2	1	030	M	1				BX01	353	M ID	2/2
2-02	10	Transportation Method/Type Code (Mode Code) 7 - Mail AF - Air Freight C - Consolidation <i>Use 'C' to denote CCP Shipment.</i> M - Motor (Common Carrier) <i>Use 'M' to denote Surface Freight Forwarder.</i> MP - Motor (Package Carrier) <i>Use 'MP' to denote Small Package Express Carrier.</i> ZZ - Mutually defined <i>Use 'ZZ' to denote Other.</i>	M ID 1/2	1	030	M	1				BX02	91	M ID	1/2

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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 Lvl	Lp ID	Ref Des	DE #	Attributes	
2-03	10	Shipment Method of Payment CD - Collect on Delivery PP - Prepaid (by Seller) <i>Use 'PP' to denote DVD ITV prototype.</i> TP - Third Party Pay	M	ID	2/2	1	030	M	1				BX03	146	M	ID 2/2
2-04	10	Bill of Lading Number Use this element for the shipment ID assigned by the shipper. When generating bill of lading numbers, follow guidance provided by the X12 dictionary definition of data element 145.	M	AN	1/30	1	030	M	1				BX04	145	O	AN 1/30
2-05	10	Standard Carrier Alpha Code The industry assigned alpha code representing the carrier who received the shipment. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M	ID	2/4	1	030	M	1				BX05	140	O	ID 2/4
2-07	10	Shipment Type Qualifier C - Consolidated Shipment <i>Use 'C' to denote rate is a contract rate.</i>	C	ID	1/1	1	030	M	1				BX07	147	O	ID 1/1
3	10	N9 SEGMENT - Purchase Order Invoice Number SEGMENT CONDITION: Use when Purchase Order Invoice Number applies.	C			1	060	O	30							At least one of N902 or N903 is required. If N906 is present, then N905 is required.
3-01	10	PO Invoice Number Qualifier PO - Purchase Order Number	M	ID	2/2	1	060	O	30				N901	128	M	ID 2/3
3-02	10	PO Invoice Number	M	AN	1/30	1	060	O	30				N902	127	C	AN 1/30
4	10	N9 SEGMENT - Carrier Assigned Shipment ID SEGMENT CONDITION: Use when the shipment ID assigned by the carrier, such as a PRO number applies.	M			1	060	O	30							At least one of N902 or N903 is required. If N906 is present, then N905 is required.
4-01	10	Carrier Assigned Shipment ID Qualifier CHANGE NOTE: Replaces 'ZZ' code user note per DM 1007. CN - Carrier's Reference Number (PRO/Invoice)	M	ID	2/2	1	060	O	30				N901	128	M	ID 2/3
4-02	10	Carrier Assigned Shipment ID When generating shipment ID numbers for this data element 127, follow guidance provided by the X12 dictionary definition of data element 145.	M	AN	1/30	1	060	O	30				N902	127	C	AN 1/30

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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 Lvl	Lp ID	Ref Des	DE #	Attributes	
5	10	N9 SEGMENT - Carrier Contract/Tender Number SEGMENT CONDITION: Use when Carrier Contract/Tender Number applies.	C	1	060	O	30							
5-01	10	Carrier Contract Number Qualifier GC - Government Contract Number ZZ - Mutually Defined <i>Use 'ZZ' to denote Tender Number.</i>	M ID 2/2	1	060	O	30				N901	128	M ID	2/3
5-02	10	Carrier Contract Number The contract number assigned by the Government to the carrier. Government customers use this number when placing orders with the carrier.	M AN 1/30	1	060	O	30				N902	127	C AN	1/30
6	10	N9 SEGMENT - Issue Priority Designator SEGMENT CONDITION: Use if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply. Describes the priority of the items being shipped.	C	1	060	O	30							
6-01	10	Issue Priority Designator Qualifier PH - Priority Rating	M ID 2/2	1	060	O	30				N901	128	M ID	2/3
6-02	10	Issue Priority Designator Issue priority designator can range from 1 to 15.	M AN 1/2	1	060	O	30				N902	127	C AN	1/30
7	10	C3 SEGMENT - Currency Code SEGMENT CONDITION: The segment is not required, and will not be used, when currency is in U.S. Dollars. This segment indicates the currency used for the bill of lading.	C	1	090	O	1							
7-01	10	Currency Code Data element C301 indicates a particular country's/region's currency used for all items on the Bill of Lading. (For example, the code value for EURO dollars is 'EUR'.) Other appropriate currency code values from the ISO 4217 table may be found on the web at: http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html . SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	M ID 3/3	1	090	O	1				C301	100	M ID	3/3
8	10	G62 SEGMENT - Required Delivery Date (RDD) SEGMENT CONDITION: Required for repair parts pilots.	C	1	110	O	10							

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DoD VENDOR SHIPMENT INFORMATION
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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 Lvl	Lp ID	Ref Des	DE #	Attributes			
8-01	10	Required Delivery Date (RDD) Qualifier 68 - Requested Delivery Date <i>Use '68' to denote Required Delivery Date.</i>	M	ID	2/2	1	110	O	10			G6201	432	C	ID	2/2	
8-02	10	Required Delivery Date (RDD)	M	DT	8/8	1	110	O	10			G6202	373	C	DT	8/8	
9	10	G62 SEGMENT - Carrier Pickup Date SEGMENT CONDITION: Required for FOB origin shipments.	C			1	110	O	10								
																At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.	
9-01	10	Date Qualifier 86 - Actual Pickup Date	M	ID	2/2	1	110	O	10			G6201	432	C	ID	2/2	
9-02	10	Carrier Pickup Date Date shipment is picked up from the shipper by the carrier. Use CCYYMMDD format. Required for FOB origin shipments. CHANGE NOTE: Requirement designation changed.	C	DT	8/8	1	110	O	10			G6202	373	C	DT	8/8	
9-03	10	Time Qualifier 8 - Actual Pickup Time	C	ID	1/1	1	110	O	10			G6203	176	C	ID	1/2	
9-04	10	Carrier Pickup Time Time shipment is picked up from the shipper by the carrier. Use HHMM format.	C	TM	4/4	1	110	O	10			G6204	337	C	TM	4/8	
10	10	H3 SEGMENT - Split Shipment Indicator SEGMENT CONDITION: Use this segment when the shipment is split. The shipper may need to split the shipment when items from the same purchase order need to be shipped in separate packages or on separate conveyances. Additionally, purchase order line item numbers need to be conveyed on the B/L to enable the consignee to reconcile split shipments.	C			1	200	O	20							Only one of H301 or H302 may be present.	
10-01	10	Split Shipment Indicator ZZZ - Mutually Defined <i>Use 'ZZZ' to denote The shipment was split at origin or enroute.</i>	C	ID	3/3	1	200	O	20			H301	152	C	ID	2/3	
11	70	N1 SEGMENT - Destination Begins destination identifier loop. This loop calls for N1, N2, N3, and N4 segments.	M			1	390	O	1	12	1	N1				At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.	
11-01	70	Entity Identifier Code ST - Ship To	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes		Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
11-02	70	Destination Name Name of party responsible for receiving delivery of the shipment. If DoDAAC is not available, this data element is MANDATORY.	C	AN	1/60	1	390	O	1	12	1	N1	N102	93	C AN 1/60
11-03	70	Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix A2 - Military Assistance Program Address Code (MAPAC)	C	ID	1/2	1	390	O	1	12	1	N1	N103	66	C ID 1/2
11-04	70	Destination DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 Code that identifies the activity responsible for receiving delivery of the shipment. Required for DLA prime vendor shipments.	C	AN	5/13	1	390	O	1	12	1	N1	N104	67	C AN 2/80
12	70	N2 SEGMENT - Destination SEGMENT CONDITION: Use when Destination Additional Name applies.	C			1	400	O	2	12	1	N1			
12-01	70	Destination Additional Name	M	AN	1/60	1	400	O	2	12	1	N1	N201	93	M AN 1/60
13	70	N3 SEGMENT - Destination SEGMENT CONDITION: Use when Destination Street Address applies.	C			1	410	O	2	12	1	N1			
13-01	70	Destination Street	M	AN	1/55	1	410	O	2	12	1	N1	N301	166	M AN 1/55
13-02	70	Destination Street Additional	C	AN	1/55	1	410	O	2	12	1	N1	N302	166	O AN 1/55
14	70	N4 SEGMENT - Destination	M			1	420	O	1	12	1	N1			
14-01	70	Destination City If N406 is present, then N405 is required.	M	AN	2/30	1	420	O	1	12	1	N1	N401	19	O AN 2/30
14-02	70	Destination State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O ID 2/2

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
14-03	70	Destination Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C ID 3/15	1	420	O	1	12	1	N1	N403	116	O	ID 3/15	
14-04	70	Destination Country Code When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country where delivery will occur. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C ID 2/3	1	420	O	1	12	1	N1	N404	26	O	ID 2/3	
15	71	N1 SEGMENT - Origin Begins origin identifier loop. This loop calls for N1, N2, N3, and N4 segments.	M	1	390	O	1	12	1	N1	At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.				
15-01	71	Entity Identifier Code SF - Ship From	M ID 2/2	1	390	O	1	12	1	N1	N101	98	M	ID 2/3	
15-02	71	Origin Name	C AN 1/60	1	390	O	1	12	1	N1	N102	93	C	AN 1/60	
15-03	71	Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix A2 - Military Assistance Program Address Code (MAPAC)	M ID 1/2	1	390	O	1	12	1	N1	N103	66	C	ID 1/2	
15-04	71	Origin DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 Identification code of the responsible activity at the pickup location. Required for DLA prime vendor shipments.	M AN 5/13	1	390	O	1	12	1	N1	N104	67	C	AN 2/80	
16	71	N2 SEGMENT - Origin SEGMENT CONDITION: Use when Origin Additional Name applies.	C	1	400	O	2	12	1	N1					
16-01	71	Origin additional Name	M AN 1/60	1	400	O	2	12	1	N1	N201	93	M	AN 1/60	

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17	71	N3 SEGMENT - Origin SEGMENT CONDITION: Use when Origin Street applies.	C	1	410	O	2	12	1	N1					
17-01	71	Origin Street	M AN 1/55	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
17-02	71	Origin Street Additional	C AN 1/55	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
18	71	N4 SEGMENT - Origin	M	1	420	O	1	12	1	N1					
18-01	71	Origin City	M AN 2/30	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
													A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.		
18-02	71	Origin State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C ID 2/2	1	420	O	1	12	1	N1	N402	156	O	ID	2/2
													N402 is required only if city name (N401) is in the U.S. or Canada.		
18-03	71	Origin Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C ID 3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
18-04	71	Origin Country Code When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country of origination. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C ID 2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3
19	72	N1 SEGMENT - Shipper Begins shipper identifier loop. This loop calls for N1, N2, N3, and N4 segments.	M	1	390	O	1	12	1	N1					
													At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.		
19-01	72	Entity Identifier Code SH - Shipper	M ID 2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
19-02	72	Shipper Name	C AN 1/60	1	390	O	1	12	1	N1	N102	93	C	AN	1/60

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
19-03	72	Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix A2 - Military Assistance Program Address Code (MAPAC)	M	ID	1/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
19-04	72	Shipper DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4	M	AN	5/13	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
						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.											
20	72	N2 SEGMENT - Shipper SEGMENT CONDITION: Use when Shipper Additional Name applies.	C			1	400	O	2	12	1	N1					
20-01	72	Shipper Additional Name	M	AN	1/60	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
21	72	N3 SEGMENT - Shipper SEGMENT CONDITION: Use when Shipper Street applies.	C			1	410	O	2	12	1	N1					
21-01	72	Shipper Street	M	AN	1/55	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
22	72	N4 SEGMENT - Shipper	M			1	420	O	1	12	1	N1					
						If N406 is present, then N405 is required.											
22-01	72	Shipper City	M	AN	2/30	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
						A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.											
22-02	72	Shipper State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O	ID	2/2
						N402 is required only if city name (N401) is in the U.S. or Canada.											
22-03	72	Shipper Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S. Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
22-04	72	Shipper Country Code If an OCONUS location, this element is MANDATORY. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C ID 2/3	1	420	O	1	12	1	N1	N404	26	O	ID 2/3
23	73	N1 SEGMENT - Consignee/Mark-for-Party LOOP CONDITION: Begins consignee identifier loop. The mark-for is the ultimate consignee. This loop calls for N1, N2, N3, and N4 segments.	C	1	390	O	1	12	1	N1				
23-01	73	Consignee/Mark-for-Party Qualifier CN - Consignee	M ID 2/2	1	390	O	1	12	1	N1	N101	98	M	ID 2/3
23-02	73	Consignee/Mark-for-Party Name	C AN 1/60	1	390	O	1	12	1	N1	N102	93	C	AN 1/60
23-03	73	Consignee/Mark-for-Party Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix A2 - Military Assistance Program Address Code (MAPAC)	M ID 1/2	1	390	O	1	12	1	N1	N103	66	C	ID 1/2
23-04	73	Consignee/Mark-for-Party DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4	M AN 5/13	1	390	O	1	12	1	N1	N104	67	C	AN 2/80
24	73	N2 SEGMENT - Consignee SEGMENT CONDITION: Use when Consignee Additional Name applies.	C	1	400	O	2	12	1	N1				
24-01	73	Consignee Additional Name	M AN 1/60	1	400	O	2	12	1	N1	N201	93	M	AN 1/60
25	73	N3 SEGMENT - Consignee SEGMENT CONDITION: Use when Consignee Street applies.	C	1	410	O	2	12	1	N1				
25-01	73	Consignee Street	M AN 1/55	1	410	O	2	12	1	N1	N301	166	M	AN 1/55
26	73	N4 SEGMENT - Consignee	M	1	420	O	1	12	1	N1				
														If N406 is present, then N405 is required.

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes	
26-01	73	Consignee City	M	AN	2/30	1	420	O	1	12	1	N1	N401	19	O	AN 2/30
						A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
26-02	73	Consignee State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O	ID 2/2
						N402 is required only if city name (N401) is in the U.S. or Canada.										
26-03	73	Consignee Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S. Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID 3/15
26-04	73	Consignee Country Code If an OCONUS location, this element is MANDATORY. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID 2/3
27	74	N1 SEGMENT - Payer Entity SEGMENT CONDITION: Required for FOB origin shipments. Begins payer entity identifier loop. This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers. For the prototype, identify USBank in this segment.	C			1	390	O	1	12	1	N1				
						At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
27-01	74	Payer Identifier Code BT - Bill-to-Party	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID 2/3
27-02	74	Payer Name Use "USBank/PowerTrack" in this data element.	C	AN	1/60	1	390	O	1	12	1	N1	N102	93	C	AN 1/60
27-03	74	Payer Account Number Qualifier 1 - D-U-N-S Number, Dun & Bradstreet A2 - Military Assistance Program Address Code (MAPAC)	M	ID	1/1	1	390	O	1	12	1	N1	N103	66	C	ID 1/2
27-04	74	Payer Account Number Use US Bank's D-U-N-S Number.	M	AN	9/9	1	390	O	1	12	1	N1	N104	67	C	AN 2/80
						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.										

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28	90	FA1 SEGMENT - Appropriation Number SEGMENT CONDITION: Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners.	C	1	550	O	1	>1	1	FA1				
28-01	90	Agency Qualifier Code Code identifying the agency assigning the code values. CHANGE NOTE: Correct 'HS' code user note per DM 911. DF - Department of Defense (DoD) DN - Department of the Navy DX - United States Marine Corps DY - Department of Air Force DZ - Department of Army HS - Department of Health and Human Services <i>Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG).</i>	M ID 2/2	1	550	O	1	>1	1	FA1	FA101	559	M ID 2/2	FA101 Identifies the organization controlling the assignment of financial accounting information.
29	90	FA2 SEGMENT - Appropriation Number Note: Required if FA1 loop appears.	M	1	560	M	>1	>1	1	FA1				
29-01	90	Breakdown Structure Detail Code See Section 6 for list of data values.	M ID 2/2	1	560	M	>1	>1	1	FA1	FA201	1196	M ID 2/2	
29-02	90	Appropriation Number When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.	M AN 1/80	1	560	M	>1	>1	1	FA1	FA202	1195	M AN 1/80	
30	140	HL SEGMENT - Pallet Description Loop LOOP CONDITION: This segment begins the pallet description loop. It occurs once for each pallet in the shipment. This loop calls for HL, L5, L0, and MEA segments.	C	2	010	M	1	>1	1	HL				The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.
30-01	140	Hierarchical ID Number A sequential number assigned by the shipper's application system.	M AN 1/12	2	010	M	1	>1	1	HL	HL01	628	M AN 1/12	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
30-03	140	Hierarchical Level Code UT - Unit or Lot	M ID 2/2	2	010	M	1	>1	1	HL	HL03	735	M ID 1/2	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

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31	140	L5 SEGMENT - Pallet ID SEGMENT CONDITION: Use if Pallet ID applies.	C			2	130	O	10	>1	1	HL					
31-06	140	Pallet ID	C	AN	1/48	2	130	O	10	>1	1	HL	L506	87	C	AN	1/48
31-07	140	Pallet ID Qualifier W - Pallet Number	C	ID	1/1	2	130	O	10	>1	1	HL	L507	88	O	ID	1/2
32	140	L0 SEGMENT - Pallet Weight SEGMENT CONDITION: Use if Pallet Weight applies.	C			2	145	O	1	20	2	L0					
32-04	140	Actual Pallet Weight The actual weight of the loaded pallet.	M	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
32-05	140	Actual Pallet Weight Qualifier PA - Pallet Weight	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
33	140	MEA SEGMENT - Pallet Dimensions SEGMENT CONDITION: Use if Pallet Weight applies. Repeat this segment for each pallet dimension. All dimensions are required for all 3PL carrier shipments. CHANGE NOTE: User note added for clarification per SDDC guidance.	C			2	160	O	10	20	2	L0					
33-01	140	Pallet Measurement Reference ID Code PA - Pallet Dimensions	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
33-02	140	Pallet Measurement Qualifier HT - Height LN - Length WD - Width	M	ID	2/2	2	160	O	10	20	2	L0	MEA02	738	O	ID	1/3
33-03	140	Pallet Measurement Value	M	R	1/20	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
33-04	140	Composite Unit of Measure C00101 calls for an identifier from the DE 355 code list.	M	CE		2	160	O	10	20	2	L0	MEA04	C001	C	CE	

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33-04-01	140	English Measurement Code IN - Inch	O	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M ID 2/2
34	120	HL SEGMENT - Box/Cooler Description Loop SEGMENT CONDITION: Use if Pallet Weight applies. This segment begins the box and cooler description loop. It occurs once for each box or cooler in the shipment. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix. The loop contains HL, L5, L0, and MEA segments.	C		2	010	M	1	>1	1	HL				
												The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.			
34-01	120	Hierarchical ID Number A sequential number assigned by the shipper's application system.	M	AN	1/12	2	010	M	1	>1	1	HL	HL01	628	M AN 1/12
												HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.			
34-03	120	Hierarchical Level Code P - Pack <i>Use 'P' to denote Box/Cooler.</i>	M	ID	1/1	2	010	M	1	>1	1	HL	HL03	735	M ID 1/2
												HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.			
35	120	L5 SEGMENT - Box's Parent Pallet ID SEGMENT CONDITION: Use if Box's Parent Pallet ID applies.	C		2	130	O	10	>1	1	HL				
												If either L503 or L504 is present, then the other is required. If L507 is present, then L506 is required. If either L508 or L509 is present, then the other is required.			
35-06	120	Pallet ID	M	AN	1/48	2	130	O	10	>1	1	HL	L506	87	C AN 1/48
35-07	120	Pallet ID Qualifier W - Pallet Number	M	ID	1/1	2	130	O	10	>1	1	HL	L507	88	O ID 1/2
36	120	L5 SEGMENT - Box ID SEGMENT CONDITION: Use if Box ID applies.	C		2	130	O	10	>1	1	HL				
												If either L503 or L504 is present, then the other is required. If L507 is present, then L506 is required. If either L508 or L509 is present, then the other is required.			
36-06	120	Box ID	M	AN	1/48	2	130	O	10	>1	1	HL	L506	87	C AN 1/48
36-07	120	Box ID Qualifier CA - Shipper-Assigned Case Number	M	ID	2/2	2	130	O	10	>1	1	HL	L507	88	O ID 1/2
37	120	L0 SEGMENT - Box Weight SEGMENT CONDITION: Use if Box Weight applies.	C		2	145	O	1	20	2	L0				
												If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.			

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
37-04	120	Actual Box Weight	M	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
37-05	120	Actual Box Weight Qualifier Z - Mutually Defined	M	ID	1/1	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
38	120	MEA SEGMENT - Box Dimensions SEGMENT CONDITION: Repeat this segment for each box/cooler dimension. All dimensions are required for all 3PL carrier shipments. CHANGE NOTE: User note added for clarification per SDDC guidance.	C			2	160	O	10	20	2	L0					
38-01	120	Box Measurement Reference ID Code PK - Package Dimensions <i>Use 'PK' to denote Box Dimensions.</i>	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
38-02	120	Box Measurement Qualifier HT - Height LN - Length WD - Width	M	ID	2/2	2	160	O	10	20	2	L0	MEA02	738	O	ID	1/3
38-03	120	Box Measurement Value	M	R	1/20	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
38-04	120	Composite Unit of Measure	M	CE		2	160	O	10	20	2	L0	MEA04	C001	C	CE	
38-04-01	120	English Measurement Code IN - Inch	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
39	100	HL SEGMENT - Bill of Lading Line Item Description Loop Begins bill of lading (B/L) line item description loop. This loop calls for HL, N9, L0, L1, LH1, LH2, and LH3 segments. The B/L line item contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order. If the purchase order line item is broken into multiple handling loads (box/cooler/pallet) for shipment, then this loop should occur once for each handling unit.	M			2	010	M	1	>1	1	HL					
39-01	100	Hierarchical ID Number A sequential number assigned by the shipper's application system.	M	AN	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12

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Index	DG	Data Name Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
39-03	100	Hierarchical Level Code Qualifier identifying that all information within this HL loop corresponds to bill of lading line item details. 9 - Line Detail	M ID 1/1	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
				HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.											
40	100	N9 SEGMENT - Vendor Contract Number SEGMENT CONDITION: Use if Vendor Contract Number applies.	C	2	100	O	10	>1	1	HL					
				At least one of N902 or N903 is required. If N906 is present, then N905 is required.											
40-01	100	Vendor Contract Number Qualifier VC - Vendor Contract Number	M ID 2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
40-02	100	Vendor Contract Number	M AN 1/30	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
41	100	N9 SEGMENT - Purchase Order Line Item Number In the event a purchase order line item is split into two or more bill of lading line items, this segment will enable the buyer and seller to identify all parts of a purchase order line item.	M	2	100	O	10	>1	1	HL					
				At least one of N902 or N903 is required. If N906 is present, then N905 is required.											
41-01	100	Purchase Order Line Item Number Qualifier BV - Purchase Order Line Item Identifier (Buyer)	M ID 2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
41-02	100	Purchase Order Line Item Number	M AN 1/30	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
42	100	N9 SEGMENT - Requisition Number SEGMENT CONDITION: Required for repair parts vendors receiving requisition numbers from their ICPs.	C	2	100	O	10	>1	1	HL					
				At least one of N902 or N903 is required. If N906 is present, then N905 is required.											
42-01	100	Requisition Number Qualifier RQ - Purchase Requisition Number	M ID 2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
42-02	100	Requisition Number	C AN 14/17	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
43	100	N9 SEGMENT - Purchase Call Number For DVD ITV prototype, use this segment for the order call number.	M	2	100	O	10	>1	1	HL					
				At least one of N902 or N903 is required. If N906 is present, then N905 is required.											
43-01	100	Purchase Call Number Qualifier PO - Purchase Order Number	M ID 2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3

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43-02	100	Purchase Call Number A number that uniquely identifies the purchase transaction that resulted in the shipment.	M	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C AN 1/30
44	100	N9 SEGMENT - Pallet Identifier SEGMENT CONDITION: This segment identifies the pallet on which the bill of lading line item is conveyed.	C		2	100	O	10	>1	1	HL	At least one of N902 or N903 is required. If N906 is present, then N905 is required.			
44-01	100	Pallet Identification Qualifier PIN - Platform Identification Number	M	ID	3/3	2	100	O	10	>1	1	HL	N901	128	M ID 2/3
44-02	100	Pallet Identifier	M	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C AN 1/30
45	100	N9 SEGMENT - Box/Cooler Identifier SEGMENT CONDITION: This segment identifies the box or cooler in which the bill of lading line item is conveyed. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix.	C		2	100	O	10	>1	1	HL	At least one of N902 or N903 is required. If N906 is present, then N905 is required.			
45-01	100	Box/Cooler Identification Qualifier Q2 - Starting Package Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M ID 2/3
45-02	100	Box/Cooler Identifier	M	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C AN 1/30
46	100	N9 SEGMENT - Transportation Control Number (TCN) SEGMENT CONDITION: Required for vendors using TCNs when shipping to a CCP.	C		2	100	O	10	>1	1	HL	At least one of N902 or N903 is required. If N906 is present, then N905 is required.			
46-01	100	TCN Qualifier TG - Transportation Control Number (TCN)	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M ID 2/3
46-02	100	TCN	M	AN	17/17	2	100	O	10	>1	1	HL	N902	127	C AN 1/30
47	100	N9 SEGMENT - Description of Articles SEGMENT CONDITION: Required for DVD ITV prototype.	C		2	100	O	10	>1	1	HL	At least one of N902 or N903 is required. If N906 is present, then N905 is required.			

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47-01	100	Product Code Qualifier Code values '3Q' and 'CH' pertain to the ITV prototype. 3Q - Food and Drug Administration (FDA) Product Code <i>Use '3Q' to denote National Drug Code/FDA Product Code.</i> CH - Customer catalog number <i>Use 'CH' to denote Vendor catalog number.</i> MF - Manufacturers Part Number NS - National Stock Number OZ - Product Number PG - Product Group XY - Other Unlisted Type of Reference Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
47-02	100	Product Code	C	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
47-03	100	Product Description Clear text description of the unit of sale being shipped.	C	AN	1/45	2	100	O	10	>1	1	HL	N903	369	C	AN	1/45
48	100	H3 SEGMENT - Refrigerated Item Indicator SEGMENT CONDITION: Use this segment when shipment contains refrigerated item(s).	C			2	105	O	1	>1	1	HL					
48-01	100	Refrigerated Item Indicator MRF - Refrigerated	M	ID	3/3	2	105	O	1	>1	1	HL	H301	152	C	ID	2/3
49	100	L0 SEGMENT - Bill of Lading Line Item Quantities	M			2	145	O	1	20	2	L0					
49-04	100	Actual Weight of Bill of Lading Line Item The combined weight of the total units of sale shipped under this bill of lading line item. This is always expressed in pounds and may extend to two decimal places.	C	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
49-05	100	Actual Weight Qualifier FR - Freight Weight	C	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
49-06	100	Cube of Bill of Lading Line Item	C	R	1/8	2	145	O	1	20	2	L0	L006	183	C	R	1/8

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49-07	100	Cube Unit Qualifier E - Cubic Feet N - Cubic Inches	C	ID	1/1	2	145	O	1	20	2	L0	L007	184	C	ID 1/1
49-08	100	Actual Quantity of Bill of Lading Line Item This element carries the quantity of the units of sale shipped under this line item.	M	NO	1/7	2	145	O	1	20	2	L0	L008	80	C	NO 1/7
						L008 is the number of handling units of the line item tendered to the carrier.										
49-09	100	Packaging Form Code This data element qualifies the quantity of NDC units identified in the L008 data element 80. CHANGE NOTE: "PLL" Migration Code value added per DM 0549. PLL - [Migration Code] 463L Air Pallet PLT - Pallet UNT - Unit	M	ID	3/3	2	145	O	1	20	2	L0	L009	211	C	ID 3/3
49-13	100	Freight Pieces Use to distinguish between total freight pieces and quantity of items shipped (e.g., shipping a quantity of 15, where total freight pieces = 1 box and quantity of items shipped = 15).	C	R	1/15	2	145	O	1	20	2	L0	L013	380	C	R 1/15
						L013 can only be used if the code in L009 is PLT, SKD, or SLP. 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.										
49-15	100	Freight Pieces Qualifier N - No Use 'N' to denote Number.	C	ID	1/1	2	145	O	1	20	2	L0	L015	1073	C	ID 1/1
						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.										
50	100	LH1 SEGMENT - HAZMAT Indicator SEGMENT CONDITION: Use this segment to indicate when an item is a hazardous material. This segment begins the HAZMAT loop. The loop may occur only once per line item. If the shipment calls for a simple HAZMAT indicator, use only the LH1 segment. If the shipment calls for more than an indicator, use the LH1, LH2, and LH3 segments as required.	C			2	170	O	1	100	2	LH1				
50-01	100	HAZMAT - Unit of Measure Code If an item requires a HAZMAT indicator ONLY, use code value 'ZZ' in this data element and value zero (0) in LH102. ZZ - Mutually Defined	M	ID	2/2	2	170	O	1	100	2	LH1	LH101	355	M	ID 2/2
						LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.										
50-02	100	HAZMAT - Lading Quantity Use value zero (0).	M	NO	1/1	2	170	O	1	100	2	LH1	LH102	80	M	NO 1/7

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50-03	100	HAZMAT - UN/NA Identification Code Contains the United Nations/North America (UN/NA) code. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	ID	6/6	2	170	O	1	100	2	LH1	LH103	277	O	ID 6/6
50-10	100	HAZMAT - 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. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada	C	ID	1/3	2	170	O	1	100	2	LH1	LH110	254	O	ID 1/3
51	100	LH2 SEGMENT - HAZMAT Classification SEGMENT CONDITION: Use if HAZMAT Classification applies.	C			2	180	O	4	100	2	LH1				
51-01	100	HAZMAT - Hazardous Class Division Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This loop needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	ID	1/30	2	180	O	4	100	2	LH1	LH201	215	O	ID 1/30
51-02	100	HAZMAT - Hazardous Class Qualifier Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P - Primary S - Secondary	M	ID	1/1	2	180	O	4	100	2	LH1	LH202	983	O	ID 1/1
52	100	LH3 SEGMENT - HAZMAT Names SEGMENT CONDITION: Use if HAZMAT Names apply.	C			2	190	O	12	100	2	LH1				
52-01	100	HAZMAT - Proper Shipping Name From table at 49 CFR 172.101, column 2. MANDATORY for all hazardous material shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	AN	1/25	2	190	O	12	100	2	LH1	LH301	224	C	AN 1/25

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52-02	100	HAZMAT - Proper Shipping Name Qualifier C - Canadian Shipping Name D - Domestic (United States) Shipping Name I - International Shipping Name	M	ID	1/1	2	190	O	12	100	2	LH1	LH302	984	C	ID	1/1
53	100	N1 SEGMENT - Consignee DoDAAC SEGMENT CONDITION: The consignee DoDAAC should be derived from the Purchase Order.	C			2	290	O	1	4	2	N1					
																	At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.
53-01	100	Consignee Qualifier CN - Consignee	M	ID	2/2	2	290	O	1	4	2	N1	N101	98	M	ID	2/3
53-03	100	Consignee DoDAAC Qualifier 10 - Department of Defense Activity Address Code (DODAAC)	C	ID	2/2	2	290	O	1	4	2	N1	N103	66	C	ID	1/2
53-04	100	Consignee DoDAAC	C	AN	2/80	2	290	O	1	4	2	N1	N104	67	C	AN	2/80
																	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.
54	300	HL SEGMENT - Level of Service Loop SEGMENT CONDITION: This loop applies once for the bill of lading. This loop calls for HL and SL1 segments. Required for express packages shipment.	C			2	010	M	1	>1	1	HL					
																	The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.
54-01	300	Hierarchical ID Number A sequential number assigned by the shipper's application system.	M	AN	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
																	HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
54-03	300	Hierarchical Level Code 41 - Product Level	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
																	HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
55	300	SL1 SEGMENT - Level of Service SEGMENT CONDITION: Use if Level of Service applies.	C			2	095	O	1	>1	1	HL					
																	At least one of SL103 or SL104 is required. Scale and commodity codes are proprietary codes maintained by the carrier.
55-01	300	Service Level Code DF - Deferred Service NF - Next Flight Out ON - Overnight SC - Second Day Air	M	ID	2/2	2	095	O	1	>1	1	HL	SL101	284	M	ID	2/2
																	SL101 is the service requested by the customer.

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56	301	HL SEGMENT - Accessorial Service Description Loop SEGMENT CONDITION: Begins accessorial service description loop. This loop calls for HL, L0, and L1 segments. This loop occurs once for each accessorial service that applies to the shipment.	C	2	010	M	1	>1	1	HL				
56-01	301	Hierarchical ID Number A sequential number assigned by the shipper's application system.	M AN 1/12	2	010	M	1	>1	1	HL	HL01	628	M AN 1/12	
56-03	301	Hierarchical Level Code SS - Services	M ID 2/2	2	010	M	1	>1	1	HL	HL03	735	M ID 1/2	
57	301	L0 SEGMENT - Accessorial Service	M	2	145	O	1	20	2	L0				
57-01	301	Lading Line Item Number To use the L1 segment to identify service level code, enter '1' in this data element to satisfy X12 syntax.	M N0 1/1	2	145	O	1	20	2	L0	L001	213	O N0 1/3	
58	301	L1 SEGMENT - Accessorial Service Charge SEGMENT CONDITION: Use if Accessorial Service Charge applies	C	2	150	O	20	20	2	L0				
58-04	301	Service Charge The charge for an accessorial service. Use up to 9-digits with an implied decimal at the second position.	M N2 1/12	2	150	O	20	20	2	L0	L104	58	C N2 1/12	

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58-08	301	Service Code When implementation requirements are identified, DoD will develop a complete list of service codes. 400 - Freight <i>Use '400' to denote Normal.</i> HAZ - Hazardous Cargo Charge <i>Use 'HAZ' to denote HAZMAT.</i> REF - Refrigeration <i>Use 'REF' to denote Perishable.</i> ZZZ - Mutually Defined	M	ID	3/3	2	150	O	20	20	2	L0	L108	150	O	ID	3/3
59	900	L3 SEGMENT - Totals for Shipment	M			3	010	O	1								
																	If either L301 or L302 is present, then the other is required. If either L303 or L304 is present, then the other is required. If either L309 or L310 is present, then the other is required. If L312 is present, then L301 is required. If either L314 or L315 is present, then the other is required.
59-01	900	Total Actual Weight of Shipment See Section 9.0 (DTEDI Air Freight Bill of Lading Implementation Convention) for instruction about calculating the greater of actual or dimensional (GAD) weight.	M	R	1/10	3	010	O	1			L301	81	C	R	1/10	
59-02	900	GAD Weight Qualifier G - Gross Weight	M	ID	1/1	3	010	O	1			L302	187	C	ID	1/2	
59-05	900	Total Charge for the Shipment	C	N2	1/12	3	010	O	1			L305	58	O	N2	1/12	
59-09	900	Total Cube of Shipment	C	R	1/8	3	010	O	1			L309	183	C	R	1/8	
59-10	900	Total Cube Unit Qualifier E - Cubic Feet	C	ID	1/1	3	010	O	1			L310	184	C	ID	1/1	
60	900	SE SEGMENT - Air Freight Bill of Lading Trailer	M			3	020	M	1								
																	SE is the last segment of each transaction set.
60-01	900	Number of Included Segments Total segments in this transaction set including the ST and SE segments.	M	N0	1/10	3	020	M	1			SE01	96	M	N0	1/10	

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 Lvl	Lp ID	Ref Des	DE #	Attributes
60-02	900	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.	M AN 4/9	3	020	M	1				SE02	329	M AN 4/9

Section 5.0

IC ELEMENTS IN EDI FORMAT

This section contains one example of the air freight bill of lading data requirement mapped to the ASC X12 transaction set 858 shipment information.

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Example - Prime Vendor Three Pound Package

ST~858~123450001 n/l	Transaction set header
BX~00~AF~CD~I413834~EWCF~~C n/l	Vendor order number and carrier SCAC
N9~ZZ~{carrier assigned shipment ID} n/l	
N9~GC~{carrier's Government contract number} n/l	
G62~86~19981020 n/l	Carrier pickup date
H3~ZZZ n/l	Split shipment indicator
N1~ST~USAMMCE Europe~10~{DoDAAC} n/l	Ship to address
N3~Husterhoeh Kaserne~ Building 4171 n/l	
N4~Pirmasen~~66953~EU n/l	City, postal code, and country
N1~SF~Bindley Western Drug Company~33~{CAGE code} n/l	Ship from
N2~Carolina Division n/l	
N3~1305 Frederick Street n/l	
N4~Shelby~NC~28151~US n/l	
N1~SH~Defense Personnel Support Ctr~10~{DoDAAC} n/l	Shipper
N3~2800 S 20 th Street n/l	
N4~Philadelphia~PA~19101~US n/l	
N1~CN~USAMMCE Europe~10~{DoDAAC} n/l	Consignee
N3~Husterhoeh Kaserne~ Building 4171 n/l	
N4~Pirmasen~~66953~EU n/l	City, postal code, and country
N1~BT~USBank/PowerTrack~25~{payer account number} n/l	Party responsible for payment
FA1~DF n/l	Appropriation number
FA2~18~97 7010045000571151099902200000001811900D230S7 n/l	Appropriation line of accounting
HL~1~~UT n/l	Pallet description loop
L5~~~~~9999~W n/l	Pallet ID
L0~~~~~1300~PA n/l	Pallet actual weight
MEA~PK~HT~60~IN n/l	Box height
MEA~PK~LN~60~IN n/l	Box length
MEA~PK~WD~60~IN n/l	Box width

HL~2~~P	Box description loop
L5~~~~~9999~W n/l	Parent pallet ID
L5~~~~~0001~CA n/l	Box ID
L0~~~~4.25~Z n/l	Box actual weight
MEA~PK~HT~10~IN n/l	Box height
MEA~PK~LN~10~IN n/l	Box length
MEA~PK~WD~10~IN n/l	Box width
HL~3~~9 n/l	B/L line item description loop
N9~BV~1 n/l	Purchase order line item number
N9~PO~K201 n/l	Purchase call number
N9~PIN~9999 n/l	Pallet number assigned by shipper
N9~Q2~0001 n/l	Box number
N9~VC~{ vendor's Government contract number } n/l	
L0~~~~1~FR~~~4~UNT n/l	Actual weight of 1 lbs., 4 sales units
N1~CN~~10~{ customer's DoDAAC } n/l	
HL~4~~9 n/l	B/L line item description loop
N9~BV~2 n/l	Purchase order line item number
N9~PO~K201 n/l	Purchase call number
N9~PIN~9999 n/l	Pallet number assigned by shipper
N9~Q2~0001 n/l	Box number
N9~VC~{ vendor's Government contract number } n/l	
L0~~~~1~FR~~~20~UNT n/l	Actual weight of 1 lbs., 20 sales units
N1~CN~~10~{ customer's DoDAAC } n/l	
HL~5~~9 n/l	B/L line item description loop
N9~BV~3 n/l	Purchase order line item number
N9~PO~K201 n/l	Purchase call number
N9~PIN~9999 n/l	Pallet number assigned by shipper
N9~Q2~0001 n/l	Box number
N9~VC~{ vendor's Government contract number } n/l	
L0~~~~1~FR~~~24~UNT n/l	Actual weight of 1 lbs., 24 sales units
N1~CN~~10~{ customer's DoDAAC } n/l	

HL~6~~9 n/l	B/L line item description loop
N9~BV~4 n/l	Purchase order line item number
N9~PO~K201 n/l	Purchase call number
N9~PIN~9999 n/l	Pallet number assigned by shipper
N9~Q2~0001 n/l	Box number
N9~VC~{ vendor's Government contract number } n/l	
H3~MRF n/l	Refrigerated item indicator
L0~~~~1~FR~~~2~UNT n/l	Actual weight of 1 lbs., 2 sales units
N1~CN~~10~{customer's DoDAAC} n/l	
.	
.	
HL~7~~P	Additional box descriptions
L5~VANCOMYCIN 500MG FLIP VL 10~0074-4332-01~Z n/l	Lading description and commodity code
.	
HL~{8 THROUGH 16}~~9 n/l	Additional B/L line items
.	
.	
HL~17~~41 n/l	Level of service loop
SL1~SC n/l	Second day air service
L3~1300~G~~~231400 n/l	Total weight, and charge of \$2,314.00
SE~46~123450001 n/l	Number of segments and transaction ID

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Section 6.0

APPLICATION CODE LISTS

29-01 -- Breakdown Structure Detail Code

Data Value - Definition
18 - Funds Appropriation
84 - Total Direct Costs
A1 - Department Indicator
A2 - Transfer from Department
A3 - Fiscal Year Indicator
A4 - Basic Symbol Number
A5 - Sub-class
A6 - Sub-Account Symbol
AT - Air Force Transportation Account Code (ATAC)
B1 - Budget Activity Number
B2 - Budget Sub-activity Number
B3 - Budget Program Activity
C1 - Program Element
C2 - Project Task or Budget Subline
D1 - Defense Agency Allocation Recipient
D4 - Component Sub-allocation Recipient
D6 - Sub-allotment Recipient
D7 - Work Center Recipient
E1 - Major Reimbursement Source Code
E2 - Detail Reimbursement Source Code
E3 - Customer Indicator
F1 - Object Class
F3 - Government or Public Sector Identifier
G2 - Special Interest Code or Special Program Cost Code
I1 - Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)
J1 - Document or Record Reference Number
K6 - Accounting Classification Reference Code
L1 - Accounting Installation Number
M1 - Local Installation Data
MD - Movement Designator Code (MDC)
N1 - Transaction Type
P5 - Foreign Military Sales (FMS) Line Item Number
TA - Transportation Account Code (TAC)
ZZ - Mutually Defined

7.0 FA2 Appropriation Line of Accounting (LOA)

The activity (shipper or costing party) responsible for including financial management data on the B/L needs to generate LOA fund cite using the FA1/FA2 segments located in tables 1 and 2 of the X12 transaction set. There are two approaches for populating the FA1/FA2 segments with LOA data: a parsed fund cite that takes full advantage of the FA1/FA2 capability, or a clear-text fund cite in fixed length record format. (See implementation convention code list contained in FA101 for valid origin fund cites.)

PARSED FUND CITE

For all DTEDI transaction sets using FA1/FA2 segments, go to web for current accounting data:

<http://www.lmi.org/dtedi/>

Instructions: At that web location, look in the "IC Development" or "ICs Completed" menu. Then select the "FA2 Appropriation Guide for Electronic Data Interchange (EDI) Payment of Transportation Service at DFAS-IN". That guide is available in PDF format.

CLEAR-TEXT LOA FUND CITE

The clear-text LOA fund cite should be mapped to the FA202. The fund cite should be qualified in the FA201 with the X12 code value that identifies the origin of the fund cite. (See implementation convention code list contained in FA101 for valid origin fund cites.)

Currently, the only official guidance for formatting clear text fund cites for the FA202 is located on the Army's Financial Management web site (sponsored by the Assistant Secretary of the Army for Financial Management and Comptroller (ASA(FM&C))). On the web, go to:

<http://www.asafm.army.mil/>

Instructions: At that web location, look in the "Publications" menu under "DFAS". Then select the "Revised Appropriation Guide for Electronic Data Interchange (EDI) Payment of Transportation Service at DFAS-IN, 1 November 1996". That guide is available in MSWord, .PDF, and HTML formats.

The following is an example of an Operation and Maintenance, Defense (0100) LOA mapped to the FA1/FA2 segments.

FA1~DF n/l

FA2~ZZ~97 7010045000571151099902200000001811900D230S7

The LOA in the FA202 data element is identified only as a "Funds Appropriation" by code value "ZZ" in the FA201. To identify the individual pieces of the LOA, the developer needs to parse the fund cite.

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Section 9.0

ADDITIONAL INFORMATION FOR THE DEVELOPER

This section describes the looping logic the system developer needs to follow as they build an 858 Air Freight Bill of Lading (B/L). Further, this section offers detailed explanations of several functional issues including:

What is a B/L line item?

How will the Department of Defense cost air freight shipments?

What enables GTN to identify line item detail?

What line-of-accounting (LOA) format will DoD use on B/Ls?

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Looping Logic for Air Freight B/L Data Groups

Each element in the Section 4 IC Element Matrix is assigned to a data group. The data group number is identified in the second column labeled DG. Matrix elements that belong to the same data group are related by a functional requirement. For example, all elements in DG 100 are a member of the B/L line item requirement. This section contains added explanation of data groups 100, 120, 140, 300, 301, and 900. Some examples are included for clarification.

DATA GROUP 10 – B/L HEADER INFORMATION

The developer does not need to follow special looping requirements to generate header information.

DATA GROUP 70 – ADDRESSES

This data group is broken into several sub groups. Each group identifies a requirement for specific address types. Follow the requirement in Section 4.0 to generate address information.

DATA GROUP 90 – APPROPRIATION NUMBER(S)

This data group enables the shipper to identify the appropriation number it uses to cite transportation payment. Generate one occurrence of the FA1 loop for each appropriation number identified on the B/L. See the section below entitled “FA1/FA2 Appropriation Line of Accounting (LOA)” for further instructions on the format of that data.

DATA GROUP 100 – B/L LINE ITEMS

This data group enables the shipper to identify individual B/L line items. To identify a single line item, generate one occurrence of the HL loop following data group 100 requirements. To identify two line items, generate two occurrences of the HL loop — et cetera. The B/L costing activity or the carrier should not process B/L line items as a billable unit. To understand the functional characteristics of the B/L line item, see the discussion about *What is a B/L line item?* further on in this section.

DATA GROUP 120 – BOX/COOLER LOAD

This data group enables the shipper to identify a box load. To identify a single box/cooler, generate one occurrence of the HL loop following DG 120 requirements. To identify two boxes/coolers, generate two occurrences of the HL loop — et cetera. The costing activity and the carrier should use the Greater of Actual weight or Dimensional weight (GAD) of the box/cooler to rate the shipment.

DATA GROUP 140 – PALLET LOAD

This data group enables the shipper to identify a pallet load. To identify a single pallet, generate one occurrence of the HL loop following DG 140 requirements. To identify two pallets, generate two occurrences of the HL loop — et cetera. The costing activity and the carrier should use the Greater of Actual weight or Dimensional weight (GAD) of the pallet to rate the shipment.

DATA GROUP 190 - HAZMAT INFORMATION

The data group 190 - HAZMAT Information, if applicable, appears once for each HL 100 loop in the LH1 loop. Sometimes shipment level HAZMAT instructions appear on the B/L cover page. Carry those instructions in the LH1 loop under the first occurrence of the HL 100 loop. Carry B/L line item specific instructions in the LH1 loop with their corresponding line item. If a B/L line item requires a HAZMAT indicator only, carry that indicator in the LH1 segment. No other LH segments are required.

DATA GROUP 300 – ACCESSORIAL SERVICES

This data group enables the shipper to identify accessorial services it wants the carrier to perform. The B/L costing activity and the carrier should process an accessorial service as a billable unit. Generate one occurrence of the HL loop for each accessorial service.

DATA GROUP 301 – LEVEL OF TRANSPORTATION SERVICE

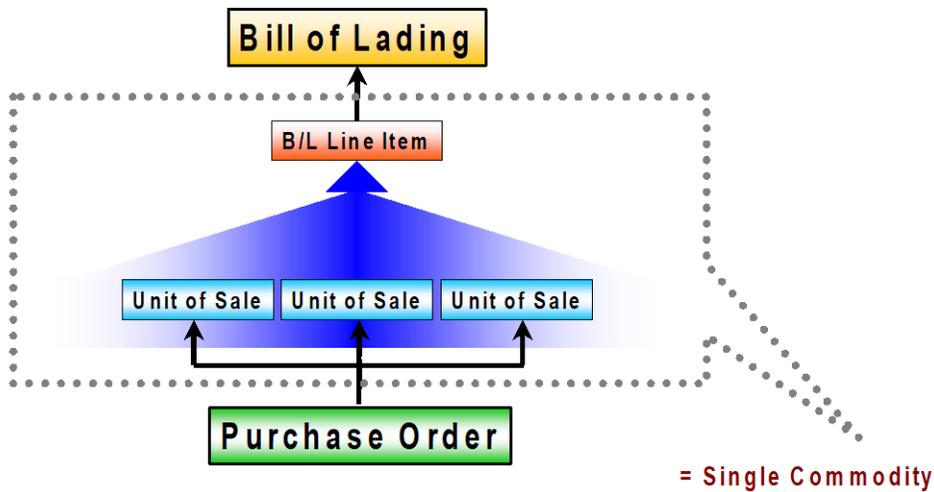
This data group enables the shipper to identify the level of transportation service it wants the carrier to perform. The B/L costing activity and the carrier should not process the level of transportation service as a billable unit. However, different levels of service usually result in different transportation line haul rates. Those rates are identified in the carrier's contract/tender. Generate one occurrence of the HL loop to describe the level of service.

The B/L Line Item

This section defines the characteristics of the B/L line item. There are two key definitions to remember:

- A unit of sale is always composed of a single commodity identified by a commodity code such as a National Motor Freight Code (NMFC), National Drug Code (NDC), or other industry code.
- A B/L line item describes some quantity of a single unit of sale.

The figure below illustrates how a purchase order (bottom of the illustration) that calls for three units of sale results in one B/L line item. The resulting line item on the B/L describes the total quantity of units of sale and the total weight and cube of those units of sale.

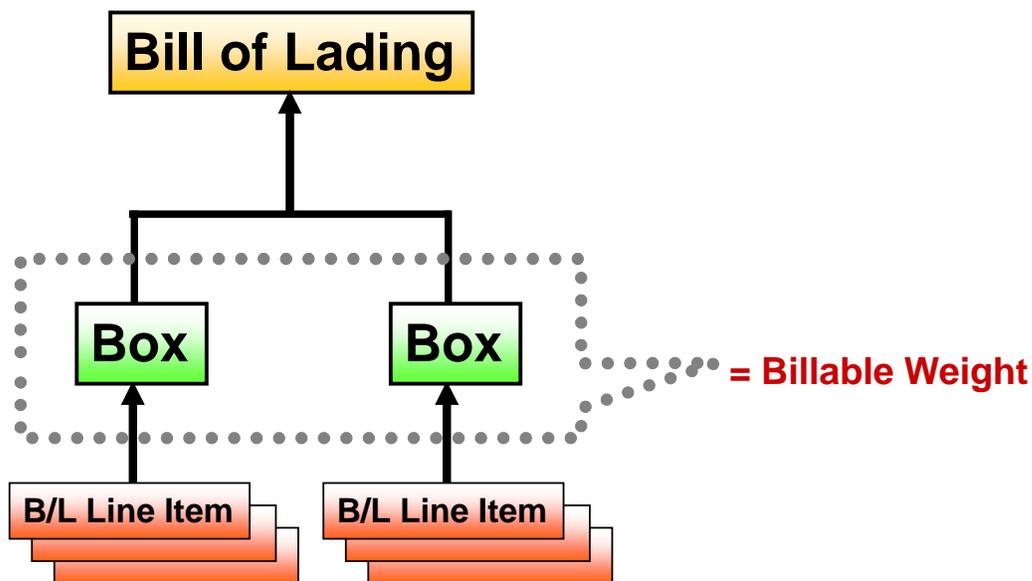


Costing/Billing Requirements

To cost B/Ls, there are several factors the shipper and carrier need to consider.

WEIGHTS

Air freight shippers calculate shipping costs using the weight of two types of load units (box and pallet). The box or pallet may contain one or more B/L line items. The figure below illustrates a shipment containing boxes. For that configuration, the shipper needs to report billable weights at the box level of the shipment. To report box weight, the shipper needs to generate one HL loop for each box.



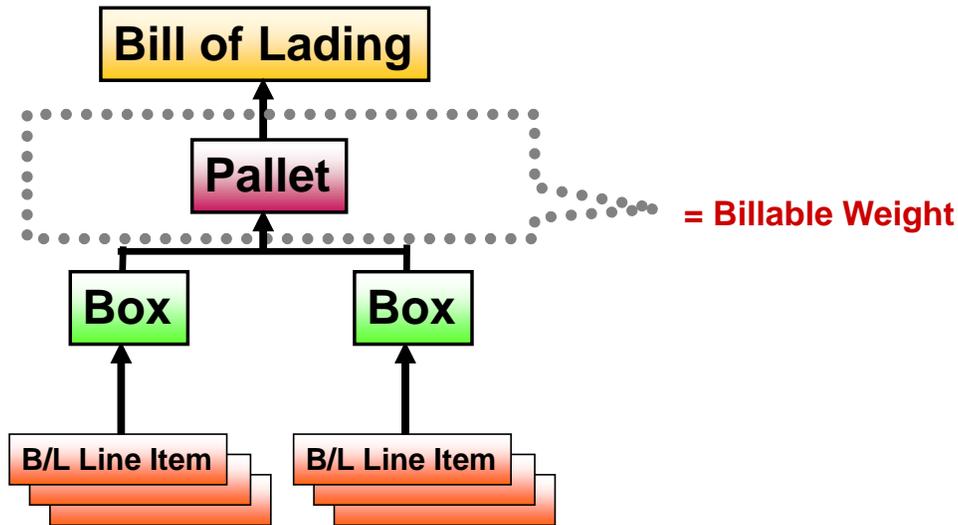
The next figure illustrates a shipment containing a pallet. For that configuration, the shipper needs to report the billable weights at the pallet level of the shipment. To report the pallet weight, the shipper needs to generate one HL loop for each pallet.

LEVEL OF SERVICE

In air freight moves, the carrier offers several categories of transit times. Each category is identified in the shipper/carrier contract as a level of service. Each level of service may call for a unique set of rates. The shipper needs to identify the correct set of rates before costing the B/L. The shipper can select only one level of service per B/L. To report that level of service, the shipper generates one HL loop.

ACCESSORIAL SERVICES

{reserved}



COSTING METHODS

Costing shipments calls on the shipper to identify a level of service and its corresponding rates. Then the shipper needs to calculate the greater of actual or dimensional (GAD) weight. The shipper then uses the GAD weight to calculate the cost of the shipment.

The figure below illustrates how to calculate the dimensional (DIM) weight of a pallet load.

Formula

$$\frac{(L'' * W'' * H'')}{\text{DIM Factor}} = \text{DIM Weight}$$

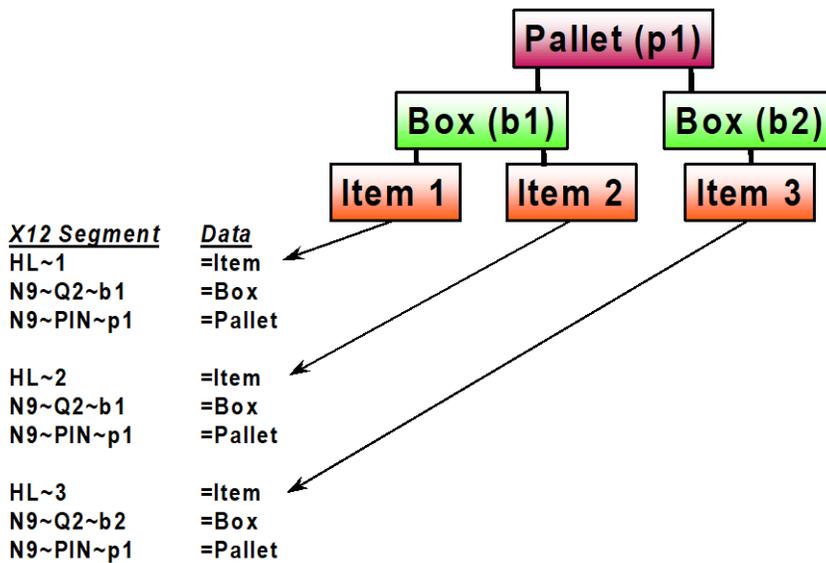
Example

$$\frac{(60'' * 60'' * 60'')}{194} = 1113.4 \text{ lbs}$$

If the actual weight of the pallet is 950 lbs. and the dimensional weight is 1113.4 lbs., then 1113.4 is the GAD. The shipper uses that weight to cost the shipment.

ITV Capability

The goal of the Global Transportation Network (GTN) is to provide the Defense transportation customer with visibility of shipment line items. This implementation convention identifies a method for achieving that level of visibility. That method calls on the shipper to identify box or pallet identifiers with each B/L line item. The figure below illustrates the physical relation of items to boxes to pallets. It also shows how that relationship is identified using the X12 B/L line item segments. The box and pallet identifier(s) are carried with the description of each B/L line item. Within the segments that describe Item 3, the Box identifier changes to “b2”.



This method will enable Defense transportation customers to see the items carried inside pallets and boxes.