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Motor carrier bills of lading transactions

Motor Carrier Bills of Lading is a standardized EDI transaction that communicates Bills of Lading information for truck shipments. Shippers, brokers, or third-party logistics providers (3PL) send this transaction to motor carriers before shipment pickup to provide shipment information and transportation instructions. The transaction serves as the operational instruction for the carrier, the legal contract of carriage, and the financial reference for freight billing and audit.

The transaction provides information such as:

- Shipper and consignee details
- Pickup and delivery locations
- Bill of Lading number
- Carrier information
- Freight description

- Shipment dates
- Freight charges
- Payment terms
- Insurance details
- Special handling instructions

The transaction uses standardized EDI segments and data elements to exchange Bills of Lading information between transportation and business systems. This standardized structure enables consistent and accurate communication while reducing manual paperwork and data entry errors. Shippers generate a Motor Carrier Bills of Lading transaction after planning a shipment and before freight pickup. The transaction establishes the official record of the shipment and communicates transportation requirements to the motor carrier.

Trading partners use the transaction to:

- Document the transfer of goods from the shipper to the carrier
- Execute freight transportation
- Support freight invoicing and auditing
- Maintain shipment records
- Verify delivered goods

- Record shipment discrepancies or damages

The Motor Carrier Bills of Lading supports road freight operations across industries such as manufacturing, retail, pharmaceuticals, automotive, food and beverage, and third-party logistics. It helps organizations improve shipment accuracy and visibility while supporting transportation and financial processes more efficiently.

Motor Carrier Bills of Lading (X12)

The Motor Carrier Bills of Lading X12 communicates shipment details and transportation instructions between shippers, carriers, and other trading partners for motor freight movements.



Contact your TraceLink Services representative for more information about integrating with this message.

- **Message Type:** MPC_MOTOR_CARRIER_BILLS_OF_LADING
- **X12 Format:** X12 211
- **Transform Names:**
 - B2B_EDI_X12_211_MotorCarrierBillsOfLading_IB_V1
 - B2B_EDI_X12_211_MotorCarrierBillsOfLading_OB_V1

Guidelines

Input Element	Occurs	Length	Description	Example
ISA	1...1	-	Required. ISA interchange envelope.	-
ISA01	1...1	2/2	Required. Qualifier for authorization control number in ISA02.	00
ISA02	1...1	10/10	Required. Information used for additional identification or authorization of the interchange sender or the data in the interchange/ 10 spaces a valid entry.	-
ISA03	1...1	2/2	Required. Qualifier for security information in ISA04.	00
ISA04	1...1	10/10	Required. Identifies security information about the interchange sender or data	-

Input Element	Occurs	Length	Description	Example
ISA05	1...1	2/2	Required. Interchange sender partner ID qualifier. Valid values: • 01 - Duns (Dun & Bradstreet). • 02 - Standard Carrier Alpha Code. • 03 - Federal Maritime Commission. • 04 - International Air Transport Association. • 07 - Global Location Number (GLN). • 08 - UCC EDI Communications ID (Comm ID). • 09 - X.121 (CCITT). • 10 - Department of Defense (DoD) Activity Address Code. • 11 - Drug Enforcement Administration Identifier. • 12 - Telephone Companies. • 13 - Used for UCS Transmissions. Includes Area Code and Telephone Number of a Modem. • 14 - Duns Plus Suffix. • 15 - Petroleum Accountants Society of Canada Company Code. • 16 - DINS Number With 4-Character Suffix. • 17 - American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit). • 18 - Association of American Railroads (AAR) Standard Distribution Code. • 19 - EDI Council of Australia (EDICA) Communications ID Number (COMM ID). • 20 - Health Industry Number (HIN). • 21 - Integrated Postsecondary Education Data System. • 22 - Federal Interagency Commission on Education, or FICE. • 23 - National Center for Education Statistics Common Core of Data 12-Digit Number for Pre-K-Grade 12 Institutes. • 24 - The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP. • 25 - 4-Digit Code of Postsecondary Institutions. • 26 - Statistics of Canada List of Postsecondary Institutions. • 27 - Carrier Identification Number as assigned by Health Care Financing Administration (HCFA). • 28 - Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA). • 29 - Medicare Provider and Supplier Identification Number assigned by Health Care Financing Administration (HCFA). • 30 - U.S. Federal Tax Identification Number. • 31 - Jurisdiction Identification Number Plus 4 assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC). • 32 - U.S. Federal Employer Identification Number (FEIN). • 33 - National Association of Insurance Commissioners Company Code (NAIC). • 34 - Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA). • 35 - Statistics Canada Canadian College Student Information System Institution Codes • 36 - Statistics Canada University Student Information System Institution Codes. • 37 - Society of Property Information Compilers and Analysts (SPICA). • 38 - The College Board and ACT, Inc. 6-Digit Code List of Secondary Institutions. • AM - Association Mexicana delCodigo de Producto (AMECOP) Communication ID. • NR - National Retail Merchants Association (NRMA) - Assigned. • SA - User Identification Number as assigned by the Safety and the Fitness Electronic Records (SAFER) System. • SN - Standard Address Number. • ZZ - Mutually Defined.	07
ISA06	1...1	15/15	Required. Interchange sender identification mapping to: • fileSenderNumber with party type defined in ISA05. • linkIdentifier • x12InterchangeControlEnvelope for sender in X12 control file header.	7777776067344

Input Element	Occurs	Length	Description	Example
ISA07	1...1	2/2	Required. Interchange receiver partner ID qualifier. Valid values: • 01 - Duns (Dun & Bradstreet). • 02 - Standard Carrier Alpha Code. • 03 - Federal Maritime Commission. • 04 - International Air Transport Association. • 07 - Global Location Number (GLN). • 08 - UCC EDI Communications ID (Comm ID). • 09 - X.121 (CCITT). • 10 - Department of Defense (DoD) Activity Address Code. • 11 - Drug Enforcement Administration Identifier. • 12 - Telephone Companies. • 13 - Used for UCS Transmissions. Includes Area Code and Telephone Number of a Modem. • 14 - Duns Plus Suffix. • 15 - Petroleum Accountants Society of Canada Company Code. • 16 - DIN5 Number With 4-Character Suffix. • 17 - American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit). • 18 - Association of American Railroads (AAR) Standard Distribution Code. • 19 - EDI Council of Australia (EDICA) Communications ID Number (COMM ID). • 20 - Health Industry Number (HIN). • 21 - Integrated Postsecondary Education Data System. • 22 - Federal Interagency Commission on Education, or FICE. • 23 - National Center for Education Statistics Common Core of Data 12-Digit Number for Pre-K-Grade 12 Institutes. • 24 - The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP. • 25 - 4-Digit Code of Postsecondary Institutions. • 26 - Statistics of Canada List of Postsecondary Institutions. • 27 - Carrier Identification Number as assigned by Health Care Financing Administration (HCFA). • 28 - Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA). • 29 - Medicare Provider and Supplier Identification Number assigned by Health Care Financing Administration (HCFA). • 30 - U.S. Federal Tax Identification Number. • 31 - Jurisdiction Identification Number Plus 4 assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC). • 32 - U.S. Federal Employer Identification Number (FEIN). • 33 - National Association of Insurance Commissioners Company Code (NAIC). • 34 - Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA). • 35 - Statistics Canada Canadian College Student Information System Institution Codes • 36 - Statistics Canada University Student Information System Institution Codes. • 37 - Society of Property Information Compilers and Analysts (SPICA). • 38 - The College Board and ACT, Inc. 6-Digit Code List of Secondary Institutions. • AM - Association Mexicana delCodigo de Producto (AMECOP) Communication ID. • NR - National Retail Merchants Association (NRMA) - Assigned. • SA - User Identification Number as assigned by the Safety and the Fitness Electronic Records (SAFER) System. • SN - Standard Address Number. • ZZ - Mutually Defined.	01
ISA08	1...1	15/15	Required. EDI receiver ID mapping to file control header and to ServiceLinkId. Interchange receiver identification mapping to ediInterchangePartyValue for receiver in X12 control file header.	888888404358877
ISA09	1...1	6/6	Required. Interchange date in 6 char YYMMDD format.	250615
ISA10	1...1	4/4	Required. Interchange time in 4 char HHMM format.	1420
ISA11	1...1	1/1	Required. This value is dependent on X12 version. • Version 4012 and earlier, this is the interchange control standards identifier. Valid value = U. • Version 4020 and later, this is the repetition separator, a delimiter that separates repeated occurrences of a data element or composite data structure, which must be different than the data element separator, component separator, and segment terminator."	^
ISA12	1...1	5/5	Required. Interchange control version number. This could be any X12 version.	00501
ISA13	1...1	9/9	Required. Interchange Control Number mapping to: • file control header. • X12 control file header interchangeControlIdentifier.	0000000000619827

Input Element	Occurs	Length	Description	Example
ISA14	1...1	1/1	Required. Interchange level acknowledgment requested. Valid values: • 0 - No acknowledgment requested • 1 - Interchange level acknowledgment requested	0
ISA15	1...1	1/1	Required. Indicates whether the interchange is for production, test, or information purposes. Valid values: • I - Information • P - Production data • T - Test data	P
ISA16	1...1	1/1	Required. Component element separator. Delimiter that separates data elements within a composite data structure. Must be different than the data element separator and segment terminator.	>
GS	1...*	-	GS group functional envelope. Child of ISA. Only one GS group expected per interchange.	-
GS01	1...1	2/2	Required. GS group function code. Valid value is BL - Motor Carrier Bill Of Lading X12 211	BL
GS02	1...1	2/15	Required. Application Sender's Code.	222224043588
GS03	1...1	2/15	Required. Application Receiver's Code.	TRACELINK
GS04	1...1	8/8	Required. Current date stamp in 8 char X12 date format YYYYMMDD.	20250615
GS05	1...1	4/8	Required. Current time stamp in 6 char X12 time format HHMMSS.	142000
GS06	1...1	1/9	Required. Group Control ID Number.	619827
GS07	1...1	1/2	Required. Responsible Agency Code. Valid values: • T - Transportation Data Coordinating Committee (TDCC) • X - Accredited Standards Committee X12	X
GS08	1...1	1/12	Required. X12 message version code. This could be any X12 version.	005010
ST	1...*	-	ST transaction set envelope. Child of GS group. Only one ST transaction expected.	-
ST01	1...1	3/3	Required. Transaction set identifier code.	Z11
ST02	1...1	4/9	Required. Transaction set ID number. Counter for each ST segment beginning with 1.	0001
BOL	1...1	-	Required. Motor carrier Bill Of Lading beginning segment.	-
BOL01	1...1	2/4	Required. Standard Carrier Alpha Code (SCAC) of the carrier that will receive the bill of lading.	ZABC
BOL02	1...1	2/2	Required. Describes who pays for the transportation (freight) and under what shipping term. Valid values: • CC - The consignee (buyer) pays freight upon delivery. • BP - Paid by buyer • CA - Advance Collect • DF - Defined by buyer and seller • PA - Advance prepaid • PO - Prepaid only • PP - prepaid by seller • PS - Paid by seller • TP - Third Party Pay • PB - Customer pickup / backhaul • DE - Freight charges are payable at the destination as per contract • FO - FOB port of call	CC
BOL03	1...1	1/30	Required. Integration of Motor carrier bill of lading identifier for MINT integration.	123212332
BOL04	1...1	8/8	Required. Bill of lading date or pickup date in YYYYMMDD format.	20260418
BOL05	0...1	4/8	Bill of lading time.	Z2102322
BOL06	0...1	1/80	Any reference identifier given by carrier for shipment.	1235
BOL07	0...1	1/1	Shipment status report request flag. Valid values: • N - Not required • P - Proof of delivery document required • R - Automatic status report requested • S - Automatic proof of delivery document requested	2
BOL08	0...1	1/1	Indicates applicability of section seven option to this BOL (Section seven giving authority to recover amount from shipper in case of customer did not pay it) • S - In effect • N - Not in effect	S
B2A	1...1	-	Required. Transaction set purpose	-
B2A01	1...1	2/2	Required. Transaction Set Purpose Code. (missing or bad snippet)	00
B2A02	0...1	2/2	It represents the business/processing context under which the transaction is generated. (missing or bad snippet)	BL
MS3	0...12	-	MS3 segment to identify the interline carrier and relevant data.	-
MS301	1...1	2/4	Required. Standard Carrier Alpha Code.	XY13

Input Element	Occurs	Length	Description	Example
MS302	1..1	1/2	Required. Code describing the relationship of a carrier to a specific shipment movement. Valid list of values can be referred from mentioned enum list. Valid values: 0 - Original carrier 1 - First carrier after original 2 - Second carrier after original 3 - Third carrier after original 4 - Fourth carrier after original 5 - Fifth carrier after original	1
MS303	0..1	2/30	Free-form text for city name	Sacramento
MS304	0..1	1/2	Code specifying the method or type of transportation for the shipment. Valid list of values can be referred from mentioned enum list. (missing or bad snippet)	J
MS305	0..1	2/2	Code (Standard State/Province) as defined by appropriate government agency.	CA
MS2	0..1	-	MS2 segment to identify the equipment or container owner and type used in this specific shipment.	-
MS201	0..1	2/4	Standard Carrier Alpha Code (SCAC) of the carrier that owns equipment or container.	2ABC
MS202	0..1	1/15	Equipment unit identifier using as part of shipment.	1233213
MS203	0..1	2/2	Equipment description code, identifies the type code used for shipment.	TL
MS204	0..1	1/1	Equipment identifier check digit number.	1
L11	0..100	-	Reference segment for mapping to the transaction references.	-
L1101	0..1	1/80	Reference identifier value.	123456

Input Element	Occurs	Length	Description	Example
L1102	0..1	2/3	Reference identification qualifier for the contract class. Valid values: • 14 - Master account • 2I - Tracking number • A3 - Assignment • BT - Batch • BM - Bill of lading • BAF - Receipt number • BC - Customer contract number • CD - Credit advice • CK - Check number • CM - Credit memo • CN - Carrier reference • CR - Customer reference identifier • CT - Contract number • D1 - US Drug Enforcement Agency (DEA) order number • DD - Document number • DEA - DEA certificate identifier • DH - DEA identifier number • DI - Distributor invoice number • DL - Debit memo • D0 - Delivery • EM - Electronic payment • GK - Third party reference identifier • IB - Customs regulatory document identifier for shipments transiting under bond • IK - Invoice party reference identifier • IN - Consignee's Invoice Number • IV - Seller's invoice • K9 - Customer inquiry number • MA - Ship notice or manifest number for shipment • MB - Master bill of lading • OI - Original invoice • OQ - Order number • P2 - Previous DEA identifier number • PK - Packing list number • P0 - Purchase order number • PP - Purchase order revision number • PR - Price quote number • PT - Purchase Option Agreement • Q1 - Supplier quotation number • QD - DEA replacement identifier number • QP - Original purchase order number • RE - Release document number • RZ - Return authorization transaction identifier type • SI - Shipment number • SN - Seal number • S0 - Shipper's Order (Invoice Number) • TB - Trucker's Bill of Lading • TN - Transaction reference number • VAT - VAT Number • VC - Supplier contract number • VN - Supplier order number • VR - Vendor identifier number • WH - Master Reference (Link) Number • W0 - Work order (production order) number	CT
L1103	0..1	1/45	Description defined by qualifier code in REF02.	sub-340B
L1104	0..1	8/8	Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year.	20241215
L1105	0..1	4/8	Time.	121314
G62	0..6	-	Dates relevant to motor carrier bill of lading events.	-

Input Element	Occurs	Length	Description	Example
			Date type related to shipment events, in date format YYYYMMDD and time format (IDoc/ X12) HHMMSS. Valid values: • 133 - Account receivable date • 372 - Actual arrival date • 018 - Product availability date • 964 - Billing date • 061 - Cancel by date • 020 - Check date • 097 - Created on date • 189 - Debit advise date • 035 - Date of delivery document, ASN • 002 - Delivery requested by date • 070 - Delivery schedule date • 999 - Document date • AAG - Due date • 007 - Effective date • 197 - End date • 017 - Estimated delivery date • 036 - Expiration date • 102 - Date goods issue posted • 050 - Date goods receipt posted (received into available inventory) • 184 - Inventory Update date • 003 - Invoice date • 208 - Lot expiration date • 094 - Manufacturing date • 166 - Message date • 922 - Date of original receipt • 814 - Payment due date • 008 - Purchase order received date • 009 - Processing date • 016 - Promotion end date • 024 - Promotion order end date • 023 - Promotion order start date • 026 - Promotion ship end date • 025 - Promotion ship start date • 015 - Promotion start date • 004 - Purchase order date • 050 - Goods received at receiving dock • 091 - Report end date • 090 - Report start date • 074 - Requested delivery date • 324 - Returned date • 067 - Current scheduled delivery date • 068 - Scheduled shipment date • 472 - Date services rendered • 010 - Shipment requested by date • 037 - Not before shipment date • 038 - Not later shipment date • 011 - Date shipped • 196 - Date Start • 097 - Transactional date • VLU - Validity date • 512 - Warranty date • 079 - Promised for shipment date • 168 - Release date • 188 - Credit advice date • 514 - Transfer date • 938 - Order date • 040 - Status (After and Including) • 041 - Status (Prior and Including) • 092 - Contract effective date • 093 - Contract expiration date • 139 - Estimated • 140 - Actual date • 369 - Estimated Departure Date • 370 - Actual Departure date • 371 - Estimated Arrivale date • 050 - Customs Clearance date • 161 - Loaded on vessel date • 813 - Customs entry date • 510 - Date packed • 649 - Document due date • 311 - Latest receiving / cutoff date • 146 - Closing date • 069 - Date of promised delivery • 102 - Issue date	
G6201	0...1	2/2		53
G6202	0...1	8/8	Date defined by referenced date type in date format YYYY-MM-DD. Transform will pass thru whatever it finds in IDoc date and time fields.	20241215
G6203	0...1	1/2	Event Time Type. (missing or bad snippet)	A
G6204	0...1	4/8	Time for referenced dates.	161025
G6205	0...1	2/2	Describes the time zone.	ES
AT5	0...50	-	AT5 segment for Bill of Lading Handling Requirements.	-
AT501	0...1	2/3	Code specifying special transportation handling instructions. Valid Values are: - EP = Expedite - DM = Domestic	EP
AT502	0...1	2/10	Code identifying the special service.	EC
AT503	0...1	2/30	Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate.	-

Input Element	Occurs	Length	Description	Example
AT504	0..1	2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. Valid values • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • BO - Bottle • BX - Box • C3 - Centiliter • C8 - Cubic Decimeter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CQ - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DQ - Data Records • DR - Drum • DS - Display • DZ - Dozen • EA - Each • F0 - Fluid Ounce • FT - Foot • GA - Gallon • G6 - Gram/liter • GB - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IW - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • LD - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • MO - Months • MR - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • SP - Self Package • ST - Set • SY - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years	-
AT505	0..1	1/4	Minimum temperature.	-
AT506	0..1	1/4	Maximum temperature.	-
N1 Loop	0..10	-	N1 segment loop.	-
N1	1..1	-	Required. Party identification.	-

Input Element	Occurs	Length	Description	Example
N101	1...1	2/3	Required. Entity qualifier for the Sender or Receiver party identifier and address information. Valid values: • 2P - Public health service facility: 304B entity that takes ownership of a product in the original sale. • 13 - Contracted third party service provider. Also used for third-party contracted pharmacy supporting a 340B covered entity. • 41 - Partner or business entity group initiates the transaction • A0 - Account of party • BG - Purchasing group, buying group • BK - Bank • BT - Bill to party • BS - Billto and Shipto combined • BY - Customer - buyer - sold to party • CA - Carrier (transport operator) • CN - Consignee • CI - Consignor • CL - Container location • CQ - Corporate office • C9 - Contract holder or contractor • DA - Delivery address / party • DB - Distributor branch location • DS - Distributor party or location • DT - Destination terminal • D1 - Truck driver (no EDI qualifier contextbased) • EX - Exporter • FW - Freight forwarder • FR - Message sender • HA - Owner of goods • II - Party that will issue the invoice to the payer • L8 - Head office location • MA - Final customer • MF - Manufacturer • NP - Notify party for shipper's order • N1 - First notify party • N2 - Second notify party • N3 - Third notify party • OB - Ordered by party • OE - Booking office • OT - Origin inland terminal • P0 - Party to receive invoice for goods or services • PE - Party that will receive invoice the payer or the SAP bill-to party • PR - Person or organization that pays the invoice • PW - Pickup location • QA - Retail or institutional pharmacy dispenser. Also used for contracted third party pharmacy supporting a 304b covered entity. • RD - Destination intermodal ramp • R0 - Origin intermodal ramp • SF - Shipfrom location • SH - Shipper • SI - Business party that issues the shipping instruction • ST - Shipto location • S0 - Sold to party if different then bill to party • SN - Store number with location info for store • SU - Supplier • T0 - Message receiver • VN - Vendor (alt. seller) • VI - Contact person information • WH - Warehouse keeper • YE - Third party business or location information. Also used to identify third party logistics service provider.	SU
N102	0...1	1/60	Name.	Pharma customer
N103	0...1	1/2	Identifier code qualifier. (missing or bad snippet)	UL
N104	0...1	2/80	Party identifier as qualified by N103 mapping to companyIdentifierValue.	3333331013655
N2	0...1	-	N2: Additional names: Child of customer party N1 name segment., we do support one iteration of N2	-
N201	1...1	1/60	Required. Additional name 2.	Pharma name2
N202	0...1	1/60	Additional name 2.	Pharma name2
N3	0...2	-	N3: Address: Child of customer party N1 name segment.	-

Input Element	Occurs	Length	Description	Example
N301	1...1	1/55	Required. Street address 1.	555 Neelan Road
N302	0...1	1/55	Street address 2.	Suite 123
N4	0...1	-	N4: Geographic Location. Child of customer party N1 name segment.	-
N401	0...1	2/30	City name.	Sacramento
N402	0...1	2/2	State or province code. Code (Standard state/province) as defined by appropriate government agency.	CA
N403	0...1	3/15	Postal code. Code defining international postal zone code excluding punctuation and blanks.	95833
N404	0...1	2/3	Country code.	US
N405	0...1	1/2	Type of location.	CA
N406	0...1	1/30	Specific location.	95833
N407	0...1	1/3	Country subdivision.	US
G61	0...3	-	G61 segment explains about contact information for party business or location: - G61*IC*CONTACT NAME*EM*CONTACT@EMAIL.COM- - G61*IC*CONTACT NAME*FX*000-111-2222- - G61*IC*CONTACT NAME*TE*000-111-2223-	-
G6101	1...1	2/2	Required. Contact type. Valid values: - IC - Information contact - FC - Forwarder contact - RP - Responsible contact	IC
G6102	1...1	1/60	Required. Contact name.	Grame Smith
G6103	0...1	2/2	Communication type.	EM
G6104	0...1	1/2048	Contact: - phone number - email address	897654
K1	0...10	-	Free form description or information.	-
K101	1...1	1/30	Required. Free text string.	ABCD3456
K102	0...1	1/30	Free text string.	ABCD3457
AT1 Loop	1..9999	-	Motor carrier Bill Of Lading line item segment loop.	-
AT1	1...1	-	Required. Bill of lading line item number.	-
AT101	1...1	1/3	Required. Bill of lading line item sequential number.	1
L11	0...100	-	Reference segment for mapping to the transaction lading item level references.	-
L1101	0...1	1/80	Reference identifier value.	123456
L1102	0...1	2/3	Reference identification qualifier for the contract class. Valid values: - BM - Bill of Lading Number - BN - Booking number - SI - Shipper's identifier for the shipment	BM
L1103	0...1	1/45	Description defined by qualifier code in REF02.	sub-3408
L1104	0...1	8/8	Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year.	20241215
L1105	0...1	4/8	Time.	121314
AT3	0...1	-	Describes lading item freight rate and charges details.	-
AT301	1...1	1/15	Required. BOL Item charge amount.	-
AT302	0...1	2/2	Freight or Charge rate type. Valid values - BL - Bill of Lading declared value (ocean cargo valuation) - CW - Per hundredweight (transportation rate per 100 lbs) - PF - Per cubic foot (volume-based rating) - PG - Per gallon (liquid shipments, marine/ocean bulk) - PH - Per hundred (of basic unit, flat hundred) - PM - Per mile (road, drayage, intermodal transport) - PW - Percentage of total charges (common in invoices) - SP - Per stop (accessorial charge qualifier) - FR - Flat rate (fixed dollar amount) - FC - Flat charge (similar to flat rate) - AV - Ad valorem (percent of cargo value, common in maritime) - PU - Per unit - PC - Per car - CR - Charges based on mentioned percentage - MN - Minimum charge - LB - Per pound - CM - Per cubic meter - ER - Per each request - GT - Per gross ton - PA - Per container - PD - Per day - PR - Per hour - PS - Per shipment - PZ - Per package charge - WM - Weight or Measurement	PF
AT303	0...1	1/9	Freight or charge that applies to item.	10

Input Element	Occurs	Length	Description	Example
AT304	0...1	2/2	Type of the quantity basis for rating. Valid values • BA - Barrels • BX - Box • EA - Identifies a billable unit as a single item. • KG - Metric weight unit used in international shipping. • LR - Liter • TN - Billing unit expressed as short tons (2,000 lbs). • CF - Volume unit used for dimensional rating. • MT - Often used in ocean freight, usually equals 1 cubic meter or 1,000 kg. • VA - Actual volume of the cargo. • VC - Volume used for billing after dimensional adjustments. • PK - Common billing unit for boxed or grouped goods. • TD - Billing unit based on number of days. • TH - Billing unit based on number of hours. • SP - Number of stops authorized as part of a shipment. • EA - Identifies a billable unit as a single item. • LB - Common weight unit in ocean freight billing. • NR - A standard shipping container unit. • NU - Generic unit of measure for shipment rating.	DK
AT305	0...1	1/15	Quantity of unit as defined by its qualifier.	200

Input Element	Occurs	Length	Description	Example
			Special charge or allowance code. Valid values • 150 - Canadian Currency Exchange. • 170 - Certificate Origin. • 295 - Special Discount. • 360 - Export Customs Clearance. • 405 - Fuel Surcharge Destination. • 495 - Miscellaneous - Destination • 585 - Document Origin. • 730 - Terminal Service Fee. • 750 - Value Added tax. • AAT - Handling Charge Tax. • AMS -Automated Manifest System. • ARB - Arbitrary (In Addition to Through Rates and Charges). • BAS - Base charge. • BLC - Bill of Lading Charge. • BRD - Bridge Charge (PEI Confederation). • BSC - Bunker Surcharge. • BUA - Bunker Adjustment. • CAC - Cash discount. • CBX - City sales tax. • CHG - Forward / Advance Charges. • CLN - Cleaning Charges. • COF - Container freight charges. • CON - Congestion Surcharge. • CSE - Customs Entry. • CTF - Chassis Destination. • CUF - Currency Adjustment Factor. • CUS - Customs Charge. • DDF - Destination Document. • DEL - Delivery Charge. • DIV - Diversion and Re-consignment. • DRC - Drayage Base-origin. • DSC - Discount. • DTC - Destination Charge. • EMS - Emergency Surcharge. • ENS - Energy Surcharge (Fuel Adjustment Factor). • EPC - Emergency Port Charge. • EXP - Expedited Service Charge. • FLT - Ferry Service. • GSS - Greater Security Service. • GST -Goods and Services Tax Charge. • HAZ - Hazardous Cargo Charge. • HDF - Heavy Duty Flat Car Charge. • HET - Heat in Transit Charges. • HNB - Handling Origin. • HST - Harmonized Sales Tax. • IIA - Invoice Adjustment. • LDG - Loading. • LLS - "Local Sales Tax (All Applicable Sales Taxes by Taxing Authorities Below the State Level) • MMT - Metropolitan Transit Tax. • NBH - N.H. D Wharfage. • ODF - Collect on Delivery Deletion Charge. • PAD - Premium Charge. • PBL - Pier Charges Other Than Wharfage. • PUD - Pick-Up and Delivery. • PPT - Parish/County Sales Tax (only). • REF - Refrigeration. • SAJ - Surcharge - Dollar Value. • SEC - Equipment Origin. • SEG - Segregating (Sorting). • SOC - Stop-Off Charge. • SST - Sales Tax (State and Local). • SSX - Sales and Use Tax (State and Local). • STC - State Surcharge. • STF - Container stuffing. • STR - Storage in Transit. • SWC - Switching Charge. • TAD - Transportation tax. • TER - Terminal Charge. • TRF - Transfer fees. • TTL - Local Tax. • TTS - State Tax. • TTM - Tax on Miscellaneous Charges. • URC - Transload fees. • USF - Special Type Flat Car. • UUT - Use Tax. • WTV - VGM Free Origin. • ZZZ - Mutually Defined. • TAD - Carbon Tax - BC (Also available as default for all Carbon Tax). • ENC - Carbon Tax - Alberta (Specific to CN). • CSK - Carbon Tax - Saskatchewan (Specific to CN). • CMB - Carbon Tax - Manitoba (Specific to CN). • CQO - Carbon Tax - Quebec (Specific to CN). • CNB - Carbon Tact - New Brunswick (Specific to CN). • CNS - Carbon Tax - Nova Scotia (Specific to CN).	
AT306	0...1	3/3		DSC
AT307	0...1	1/10	Rate percentage (e.g., 0.0 through 1.0 represents 0% through 100%).	0.1
AT4	0...99	-	Bill of lading text description.	-
AT401	1...1	1/50	Required. Description of an item as required for rating and billing purposes.	-
AT2 loop	0...1	-	AT2 segment is used to provide the carrier with the appropriate data to rate the shipment. It is included per line item when the line item includes an item of freight.	-
AT2	1...1	-	Required. Motor carrier bill of lading lading item quantity weight and classification.	-
AT201	0...1	1/7	Number of carrier handling units for the line item.	10

Input Element	Occurs	Length	Description	Example
AT202	0...1	3/3	Packing form of lading quantity. Valid values • PLL - 463L Air Pallet • BAG - Bag • BAL - Bale • BRG - Barge • BBL - Barrel • BSK - Basket or hamper • BEM - Beam • BIN - Bin • BOB - Bobbin • BOT - A bottle • BOX - Box • BXI - Box, with inner container • BXT - Bucket • BLK - Bulk • BKG - Large fabric bulk container that takes the shape of whatever is inside it. • BDL - Bundle • CAB - Cabinet • CAG - Cage • CAN - Can • CCS - Can Case • CBC - Containers of Bulk Cargo • CAR - Carrier • CTN - Carton • CAS - Case • CSK - Cask • CHS - Chest • COL - Coil • CND - Container, Commercial Highway Lift • CNT - Container • CRD - Cradle • CRT - Crate • CUB - A cube • CYL - Cylinder • CNX - 8x8x8-foot container for packaging and shipping military material • CNF - Multiwall Container Secured to Warehouse Pallet • CNE - Engine Container • CNA - Household Goods Containers, Wood • CLD - Car Load, Rail • DBK - Dry Bulk • DRK - Double-length Rack • DRM - Drum container. • DSK - Double-length Skid • DTB - Double-length Tote Bin • DUF - Duffie Bag • ENV - Envelope • FLX - A rubber liner used in a standard container for liquid material • FRM - Frame • FSK - Flask • FWR - Forward Reel • HPR - Hamper • HPT - Hopper Truck • HRB - On Hanger or Rack in Boxes • HRK - Half-standard Rack • HTB - Half-Standard Tote Bin • JAR - Jar • JUG - JugA bottle (usually 1/2 gallon or larger) fitted with a handle • KEG - Keg • KIT - Kit • KRK - Knockdown Rack • KTB - Knockdown Tote Bin • LKB - Liquid Bulk • LIF - Lifts • LOG - Log • LSE - Loose • LUG - Lug • LVN - Lift Van • MLV - 20-foot transportation van that conforms to ISO standards • MRP - Multi-Roll Pack • MKD - Mixed Type Pack • OWL - Over wrap - A cardboard wrapping around a pallet. • PCS - Pieces • PIR - Pims • PRG - Package • PLF - Platform • PLL - 463L Air Pallet • PLN - Pipeline • PLT - Pallet • PRK - Pipe Rack • RCK - Rack • REL - Reel • ROL - Roll • RVR - Reverse Reel • SAK - Sack • SBC - A plastic liner in a container to protect dry free-flowing material during transport. • SHT - Sheet • SKD - Skid • SLP - Cardboard platforms that hold product for storage or transportation • SLV - Sleeve • SPI - Spin Cylinders • SPL - Spool • SVN - 40-foot container that conforms to ISO standards for sea transport • TBE - Tube • TBN - Tote Bin • TRK - Tank Car • TKT - Tank Truck • TLD - Intermodal Trailer/Container Load (Rail) • TNK - Tank • TRC - Tierce • TRI - Box made from three-ply cardboard • TRK - Trunk and Chest • TRU -Truck • TRY - Tray • TSS - Trunk, Salesmen Sample • TTC - Tote Can. A reusable stainless steel container with handles; used for liquid material • TUB - Tub • UNP - Unpacked • UNT - Unit • VEH - Vehicles • VPK - Van Pack • WHE - On Own Wheel • WLC - Wheeled Carrier • WRP - Wrapped	CNT

Input Element		Occurs	Length	Description	Example
				Required. Type of weight recorded. Valid values: • A5 - Average weight • A4 - Average weight per load • B - Billed weight • CE - Certified weight of cargo • A - Consolidated weight • F - Deficit weight • E - Estimated net weight • O - Excess weight over maximum • FR - Freight weight • G - Gross weight • L - Legal weight • LC - Maximum lading capacity • M - Minimum weight for rate • N - Actual net weight • ND - Non-chargeable dunnage • V - Non transit weight - transit bills only • PA - Pallet weight • U - Weight per unit • A3 - Shipper's weight • SK - Skid weight • T - Tare weight • W - Transit weight - transit bills only • S0 - Storage in transit out	G
				Required. Type of weight recorded. Valid values: • E - Metric ton • G - Grams • KI - Kilograms • L - Pounds • O - Ounces	E
	AT205	1...1	1/10	Required. Weight value.	10
	AT206	0...1	1/7	Number of inner packages inside the lading quantity use this in case lading Quantity is pallet skid or slip sheet.	20

Input Element		Occurs	Length	Description	Example
				Inner packing form of lading quantity. Valid values • PLL - 463L Air Pallet • BAG - Bag • BAL - Bale • BRG - Barge • BBL - Barrel • BSK - Basket or hamper • BEM - Beam • BIN - Bin • BOB - Bobbin • BOT - A bottle • BOX - Box • BXT - Box, with inner container • BXT - Bucket • BLK - Bulk • BKG - Large fabric bulk container that takes the shape of whatever is inside it. • BDL - Bundle • CAB - Cabinet • CAG - Cage • CAN - Can • CCS - Can Case • CBC - Containers of Bulk Cargo • CAR - Carrier • CTN - Carton • CAS - Case • CSK - Cask • CHS - Chest • COL - Coil • CND - Container, Commercial Highway Lift • CNT - Container • CRD - Cradle • CRT - Crate • CUB - A cube • CYL - Cylinder • CNX - 8x8x8-foot container for packaging and shipping military material • CNF - Multiwall Container Secured to Warehouse Pallet • CNE -Engine Container • CNA - Household Goods Containers, Wood • CLD - Car Load, Rail • DBK - Dry Bulk • DRK - Double-length Rack • DRW - Drum container. • DSK - Double-length Skid • DTB - Double-length Tote Bin • DUF - Duffle Bag • ENV - Envelope • FLX - A rubber liner used in a standard container for liquid material • FRM - Frame • FSK - Flask • FWR - Forward Reel • HPR - Hamper • HPT - Hopper Truck • HRB - On Hanger or Rack in Boxes • HRK - Half-standard Rack • HTB - Half-Standard Tote Bin • JAR - Jar • JUG - JugA bottle (usually 1/2 gallon or larger) fitted with a handle • KEG - Keg • KIT - Kit • KRK - Knockdown Rack • KTB - Knockdown Tote Bin • LBK - Liquid Bulk • LIF - Lifts • LOG - Log • LSE - Loose • LUG - Lug • LVN - Lift Van • MLV - 20-foot transportation van that conforms to ISO standards • MRP - Multi-Roll Pack • MXD - Mixed Type Pack • OVW - Over wrap - A cardboard wrapping around a pallet. • PCS - Pieces • PIR - Pims • PKG - Package • PLF - Platform • PLL - 463L Air Pallet • PLN - Pipeline • PLT - Pallet • PRK - Pipe Rack • RCK - Rack • REL - Reel • ROL - Roll • RVR - Reverse Reel • SAK - Sack • SBC - A plastic liner in a container to protect dry free-flowing material during transport. • SHT -Sheet • SKD - Skid • SLP - Cardboard platforms that hold product for storage or transportation • SLV - Sleeve • SPI - Spin Cylinders • SPL - Spool • SVN - 40-foot container that conforms to ISO standards for sea transport • TBE - Tube • TBN - Tote Bin • TKR - Tank Car • TKT - Tank Truck • TLD - Intermodal Trailer/Container Load (Rail) • TNK - Tank • TRC - Tierce • TRI - Box made from three-ply cardboard • TRK - Trunk and Chest • TRU -Truck • TRY - Tray • TSS - Trunk, Salesmen Sample • TTC - Tote Can. A reusable stainless steel container with handles; used for liquid material • TUB - Tub • UNP - Unpacked • UNT - Unit • VEH - Vehicles • VPK - Van Pack • WHE - On Own Wheel • WLC - Wheeled Carrier • WRP - Wrapped	
	AT207	0...1	3/3	gallon or larger) fitted with a handle • KEG - Keg • KIT - Kit • KRK - Knockdown Rack • KTB - Knockdown Tote Bin • LBK - Liquid Bulk • LIF - Lifts • LOG - Log • LSE - Loose • LUG - Lug • LVN - Lift Van • MLV - 20-foot transportation van that conforms to ISO standards • MRP - Multi-Roll Pack • MXD - Mixed Type Pack • OVW - Over wrap - A cardboard wrapping around a pallet. • PCS - Pieces • PIR - Pims • PKG - Package • PLF - Platform • PLL - 463L Air Pallet • PLN - Pipeline • PLT - Pallet • PRK - Pipe Rack • RCK - Rack • REL - Reel • ROL - Roll • RVR - Reverse Reel • SAK - Sack • SBC - A plastic liner in a container to protect dry free-flowing material during transport. • SHT -Sheet • SKD - Skid • SLP - Cardboard platforms that hold product for storage or transportation • SLV - Sleeve • SPI - Spin Cylinders • SPL - Spool • SVN - 40-foot container that conforms to ISO standards for sea transport • TBE - Tube • TBN - Tote Bin • TKR - Tank Car • TKT - Tank Truck • TLD - Intermodal Trailer/Container Load (Rail) • TNK - Tank • TRC - Tierce • TRI - Box made from three-ply cardboard • TRK - Trunk and Chest • TRU -Truck • TRY - Tray • TSS - Trunk, Salesmen Sample • TTC - Tote Can. A reusable stainless steel container with handles; used for liquid material • TUB - Tub • UNP - Unpacked • UNT - Unit • VEH - Vehicles • VPK - Van Pack • WHE - On Own Wheel • WLC - Wheeled Carrier • WRP - Wrapped	CTN
	AT208	0...1	1/1	Describes whether the carrier will be required to verify the number of units contained on a pallet slip sheet or skid. • Y - Yes, required carrier to count • N - No, indicates not required to count	N

Input Element		Occurs	Length	Description	Example
	AT209	0...1	1/30	National motor freight classification number.	10981004
	AT210	0...1	2/5	Generalized classification code that applies to one or more items in shipment. Freight class comes from the National Motor Freight Traffic Association system (NMFC classification).	70
	MAN	0...*	-	Motor carrier bill of lading item marks and numbers.	-
	MAN01	1...1	1/2	Required. Packaging identifier format type used for parent level physical packing aggregation for delivery. X12 pass through	CA
	MAN02	1...1	1/48	Required. Packaging identifier value, if range is provided this is from value.	654H
	MAN03	0...1	1/48	Packaging identifier to value, use this to provide range of values.	694H
	OID (> 4010.)	0...999999	-	OID segment is used to specify order information detail.	-
	OID01	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	123456
	OID02	0...1	1/22	Identifying number for Purchase Order assigned by the orderer/purchaser.	6789345
	OID03	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. It is a number assigned by the consignee to further define the purchase order number.	-

Input Element		Occurs	Length	Description	Example
				Code for packaging form of the lading quantity. Use enum list for references. Valid values • PLL - 463L Air Pallet • BAG - Bag • BAL - Bale • BRG - Barge • BBL - Barrel • BSK - Basket or hamper • BEM - Beam • BIN - Bin • BOB - Bobbin • BOT - A bottle • BOX - Box • BXI - Box, with inner container • BXT - Bucket • BLK - Bulk • BKG - Large fabric bulk container that takes the shape of whatever is inside it. • BDL - Bundle • CAB - Cabinet • CAG - Cage • CAN - Can • CCS - Can Case • CBC - Containers of Bulk Cargo • CAR - Carrier • CTN - Carton • CAS - Case • CSK - Cask • CHS - Chest • COL - Coil • CND - Container, Commercial Highway Lift • CNT - Container • CRD - Cradle • CRT - Crate • CUB - A cube • CYL - Cylinder • CMX - 8x8x8-foot container for packaging and shipping military material • CNF - Multiwall Container Secured to Warehouse Pallet • CNE - Engine Container • CHA - Household Goods Containers, Wood • CLD - Car Load, Rail • DBK - Dry Bulk • DRK - Double-length Rack • DRH - Drum container. • DSK - Double-length Skid • DTB - Double-length Tote Bin • DUF - Duffle Bag • ENV - Envelope • FLX - A rubber liner used in a standard container for liquid material • FRM - Frame • FSK - Flask • FWR - Forward Reel • HPR - Hamper • HPT - Hopper Truck • HRB - On Hanger or Rack in Boxes • HRK - Half-standard Rack • HTB - Half-Standard Tote Bin • JAR - jar • JUG - JugA bottle (usually 1/2 gallon or larger) fitted with a handle • KEG - Keg • KIT - Kit • KRK - Knockdown Rack • KTB - Knockdown Tote Bin • LBK - Liquid Bulk • LIF - Lifts • LOG - Log • LSE - Loose • LUG - Lug • LVN - Lift Van • MLV - 20-foot transportation van that conforms to ISO standards • MRP - Multi-Roll Pack • MXD - Mixed Type Pack • OVW - Over wrap - A cardboard wrapping around a pallet. • PCS - Pieces • PIR - Pims • PKG - Package • PLF - Platform • PLL - 463L Air Pallet • PLN - Pipeline • PLT - Pallet • PRK - Pipe Rack • RCK - Rack • REL - Reel • ROL - Roll • RVR - Reverse Reel • SAK - Sack • SBC - A plastic liner in a container to protect dry free-flowing material during transport. • SHT -Sheet • SKD - Skid • SLP - Cardboard platforms that hold product for storage or transportation • SLV - Sleeve • SPI - Spin Cylinders • SPL - Spool • SVN - 40-foot container that conforms to ISO standards for sea transport • TBE - Tube • TBN - Tote Bin • TKR - Tank Car • TKT - Tank Truck • TLD - Intermodal Trailer/Container Load (Rail) • TNK - Tank • TRC - Tierce • TRI - Box made from three-ply cardboard • TRK - Trunk and Chest • TRU -Truck • TRY - Tray • TSS - Trunk, Salesmen Sample • TTC - Tote Can. A reusable stainless steel container with handles; used for liquid material • TUB - Tub • UNP - Unpacked • UNT - Unit • VEH - Vehicles • VPK - Van Pack • WHE - On Own Wheel • WLC - Wheeled Carrier • WRP - Wrapped	
	OID04	0...1	3/3		PLT
	OID05	0...1	1/15	Numeric value of quantity.	50

Input Element		Occurs	Length	Description	Example
	OID06	0...1	1/1	Code defining the type of weight. Valid values: • E - Metric ton • G - Gram • K - Kilogram • L - Pounds • M - Measurement ton • O - Ounces • S - Short ton • T - Long ton	E
	OID07	0...1	1/10	Numeric value of weight.	-
	OID08	0...1	1/1	Code identifying the volume unit. Valid values: • B - Volume of barge • T - Volume of container • C - Cubic centimeters • M - Cubic decimeters • E - Cubic feet • N - Cubic inches • X - Cubic meters • G - Gallons • V - Liter • L - Total volume of load	T
	OID09	0...1	1/8	Value of volumetric measure.	-
	SPO (for 4010 version)	0...999999	-	OID segment is used to specify order information detail.	-
	SPO01	0...1	1/22	Identifying number for Purchase Order assigned by the orderer/purchaser.	6789345
	SPO02	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	123456
	SPO03	0...1	2/2	Unit of measure for the quantity. Valid values • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • BO - Bottle • BX - Box • C3 - Centiliter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CQ - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DR - Drum • DS - Display • DZ - Dozen • EA - Each • FD - Fluid Ounce • FT - Foot • GA - Gallon • GL - Gram/liter • GR - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IN - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • LO - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • MO - Months • MR - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • ST - Set • SV - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years	EA
	SPO04	0...1	1/15	Numeric value of quantity.	50
	SPO05	0...1	1/1	Code defining the type of weight. Valid values: • E - Metric ton • G - Gram • K - Kilogram • L - Pounds • M - Measurement ton • O - Ounces • S - Short ton • T - Long ton	E
	SPO06	0...1	1/10	Numeric value of weight.	-
	L4	0...1	-	Motor carrier bill of lading lading item measurement details like length, width, height, etc.	-
	L401	1...1	1/8	Required. Equipment length used in shipment booking , in inches, can include upto 5 decimals.	12.234
	L402	1...1	1/8	Required. Equipment width used in shipment booking , in inches, can include upto 5 decimals.	12.234
	L403	1...1	1/8	Required. Equipment height used in shipment booking , in inches, can include upto 5 decimals.	12.234

Input Element		Occurs	Length	Description	Example
				Required. Unit of measurement for shipment dimensions. Valid values • B2 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BB - Bundle • BG - Bag • B0 - Bottle • BX - Box • C3 - Centiliter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CQ - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DR - Drum • DS - Display • DZ - Dozen • EA - Each • F0 - Fluid Ounce • FT - Foot • GA - Gallon • GL - Gram/liter • GR - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IN - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • L0 - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • MO - Months • MR - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • ST - Set • SY - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years	
	L404	1...1	1/1		X
	L405	0...1	1/15	Quantity for shipment dimensions.	Z0
	LXloop	0..999999	-	LX loop to map unmapped items to bill of lading details.	-
	LX001	1...1	1/50	Required. LX loop line item number.	-
	MAN	0...*	-	Motor carrier bill of lading item marks and numbers.	-
	MAN01	1...1	1/2	Required. Packaging identifier format type used for parent level physical packing aggregation for delivery. X12 pass through.	CA
	MAN02	1...1	1/48	Required. Packaging identifier value, if range is provided this is from value.	654H
	MAN03	0...1	1/48	Packaging identifier to value, use this to provide range of values.	694H
	OID (> 4010.)	0..999999	-	OID segment is used to specify order information detail.	-
	OID01	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	123456
	OID02	0...1	1/22	Identifying number for Purchase Order assigned by the orderer/purchaser.	6789345
	OID03	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. It is a number assigned by the consignee to further define the purchase order number.	-

Input Element		Occurs	Length	Description	Example
				Code for packaging form of the lading quantity. Use enum list for references. Valid values • PLL - 463L Air Pallet • BAG - Bag • BAL - Bale • BRG - Barge • BBL - Barrel • BSK - Basket or hamper • BEM - Beam • BIN - Bin • BOB - Bobbin • BOT - A bottle • BOX - Box • BXI - Box, with inner container • BXT - Bucket • BLK - Bulk • BKG - Large fabric bulk container that takes the shape of whatever is inside it. • BOL - Bundle • CAB - Cabinet • CAG - Cage • CAN - Can • CCS - Can Case • CBC - Containers of Bulk Cargo • CAR - Carrier • CTN - Carton • CAS - Case • CSK - Cask • CHS - Chest • COL - Coil • CND - Container, Commercial Highway Lift • CNT - Container • CRD - Cradle • CRT - Crate • CUB - A cube • CYL - Cylinder • CMX - 8x8x8-foot container for packaging and shipping military material • CNF - Multiwall Container Secured to Warehouse Pallet • CNE - Engine Container • CHA - Household Goods Containers, Wood • CLD - Car Load, Rail • DBK - Dry Bulk • DRK - Double-length Rack • DRH - Drum container. • DSK - Double-length Skid • DTB - Double-length Tote Bin • DUF - Duffle Bag • ENV - Envelope • FLX - A rubber liner used in a standard container for liquid material • FRM - Frame • FSK - Flask • FWR - Forward Reel • HPR - Hamper • HPT - Hopper Truck • HRB - On Hanger or Rack in Boxes • HRK - Half-standard Rack • HTB - Half-Standard Tote Bin • JAR - jar • JUG - JugA bottle (usually 1/2 gallon or larger) fitted with a handle • KEG - Keg • KIT - Kit • KRK - Knockdown Rack • KTB - Knockdown Tote Bin • LBK - Liquid Bulk • LIF - Lifts • LOG - Log • LSE - Loose • LUG - Lug • LVN - Lift Van • MLV - 20-foot transportation van that conforms to ISO standards • MRP - Multi-Roll Pack • MXD - Mixed Type Pack • OVW - Over wrap - A cardboard wrapping around a pallet. • PCS - Pieces • PIR - Pims • PKG - Package • PLF - Platform • PLL - 463L Air Pallet • PLN - Pipeline • PLT - Pallet • PRK - Pipe Rack • RCK - Rack • REL - Reel • ROL - Roll • RVR - Reverse Reel • SAK - Sack • SBC - A plastic liner in a container to protect dry free-flowing material during transport. • SHT -Sheet • SKD - Skid • SLP - Cardboard platforms that hold product for storage or transportation • SLV - Sleeve • SPI - Spin Cylinders • SPL - Spool • SVN - 40-foot container that conforms to ISO standards for sea transport • TBE - Tube • TBN - Tote Bin • TKR - Tank Car • TKT - Tank Truck • TLD - Intermodal Trailer/Container Load (Rail) • TNK - Tank • TRC - Tierce • TRI - Box made from three-ply cardboard • TRK - Trunk and Chest • TRU -Truck • TRY - Tray • TSS - Trunk, Salesmen Sample • TTC - Tote Can. A reusable stainless steel container with handles; used for liquid material • TUB - Tub • UNP - Unpacked • UNT - Unit • VEH - Vehicles • VPK - Van Pack • WHE - On Own Wheel • WLC - Wheeled Carrier • WRP - Wrapped	
	OID04	0...1	3/3		PLT
	OID05	0...1	1/15	Numeric value of quantity.	50

Input Element		Occurs	Length	Description	Example
	OID06	0...1	1/1	Code defining the type of weight. Valid values: • E - Metric ton • G - Gram • K - Kilogram • L - Pounds • M - Measurement ton • O - Ounces • S - Short ton • T - Long ton	E
	OID07	0...1	1/10	Numeric value of weight.	-
	OID08	0...1	1/1	Code identifying the volume unit. Valid values: • B - Volume of barge • T - Volume of container • C - Cubic centimeters • M - Cubic decimeters • E - Cubic feet • N - Cubic inches • X - Cubic meters • G - Gallons • V - Liter • L - Total volume of load	T
	OID09	0...1	1/8	Value of volumetric measure.	-
	SPO (for 4010 version)	0...999999	-	OID segment is used to specify order information detail.	-
	SPO01	0...1	1/22	Identifying number for Purchase Order assigned by the orderer/purchaser.	6789345
	SPO02	0...1	1/80	Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.	123456
	SPO03	0...1	2/2	unit of measure for the quantity.	EA
	SPO04	0...1	1/15	Numeric value of quantity.	50
	SPO05	0...1	1/1	Code defining the type of weight. Valid values: • E - Metric ton • G - Gram • K - Kilogram • L - Pounds • M - Measurement ton • O - Ounces • S - Short ton • T - Long ton	E
	SPO06	0...1	1/10	Numeric value of weight.	-
	G61	0...99	-	G61 segment explains about contact information and incharge for respective dangerous goods.	-
	G6101	1...1	2/2	Required. Contact type. (missing or bad snippet)	FC
	G6102	1...1	1/60	Required. Contact name.	Grame Smith
	G6103	0...1	2/2	Title of contact.	Mr
	G6104	0...1	1/2118	Contact phone number or Contact email address.	897654 gsmith@gmail.com
	G6105	0...1	1/20	Additional reference number or description to clarify a contact number.	-
	L11	0...5	-	Reference segment for mapping to the transaction references.	-
	L1101	0...1	1/80	Reference identifier value.	123456

Input Element		Occurs	Length	Description	Example
				Reference identification qualifier for the contract class. Valid values: • AG - Agent shipment number • AW - Airway bill • A3 - Assignment • BT - Batch • BM - Bill of lading • CN - Carrier reference • CK - Check number • CT - Contract number • CD - Credit advice • IX - Credit debit adjustment identifier type • CM - Credit memo • BC - Customer contract number • K9 - Customer inquiry number • CR - Customer reference identifier • D1 - US Drug Enforcement Agency (DEA) order number • DL - Debit memo • D0 - Delivery • DD - Document number • EM - Electronic payment • IV - Seller's invoice • 14 - Master account • MB - Master bill of lading • OQ - Order number • OI - Original invoice • PK - Packing list number • PO - Purchase order number • BAF - Receipt number • RE - Release document number • RZ - Return authorization transaction identifier type • SN - Seal number • SI - Shipment number • VC - Supplier contract number • VN - Supplier order number • Q1 - Supplier quotation number • GK - Third party reference identifier • ZI - Tracking number • TN - Transaction reference number • TB - Trucker's Bill of Lading • W0 - Work order (production order) number • AM - Chargeback adjustment memo • QP - Original purchase order number • DH - DEA identifier number • P2 - Previous DEA identifier number • QD - DEA replacement identifier number • DEA - DEA certificate identifier • CG - Consignee order number • PR - Price quote number • 10 - Consolidated Shipment Number • VR - Vendor identifier number • DI - Distributor invoice number • 92 - Document change Tracking number • 72 - Schedule reference identifier • CB - Combined Shipment • VAT - VAT Number • IK - Invoice party reference identifier • PP - Purchase order revision number • C0 - Customer order number, identifies the number assigned by the customer to their order. • S0 - Shipper's Order (Invoice Number) • BL - Government Bill of Lading • IN - Consignee's Invoice Number • MH - Master Reference (Link) Number • PT - Purchase Option Agreement • IB - Customs regulatory document identifier for shipments transiting under bond • MA - Ship notice or manifest number	
	L1102	0...1	2/3		CT

Input Element	Occurs	Length	Description	Example
L1103	0...1	1/45	Description defined by qualifier code in REF02.	sub-340B
L1104	0...1	8/8	Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year.	20241215
L1105	0...1	4/8	Time.	121314
LH6	0...6	-	To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification.	-
LH601	0...1	1/60	Free-form name of the person or organization approved the certificate.	ABCD3456
LH602	0...1	1/1	To specify the form of the hazardous certification. Valid values: • ABBREVIATED - Abbreviated Hazardous Certification • LONGFORM - Long Form of Hazardous Certification	1
LH603	0...1	1/25	Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate.	ABCD3456
LH604	0...1	1/25	Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations.	-
LH1 Loop	0...25	-	-	-
LH1	1...1	-	Required. It describes the hazardous commodity identification reference number and quantity.	-
LH101	1...1	2/2	Required. Specifies the unit used to measure the lading quantity in LH102. Valid values • BZ - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • B0 - Bottle • BX - Box • C3 - Centiliter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CQ - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DR - Drum • DS - Display • DZ - Dozen • EA - Each • FO - Fluid Ounce • FT - Foot • GA - Gallon • GL - Gram/liter • GR - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IN - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • LO - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • MO - Months • MB - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • ST - Set • SY - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years	EA
LH102	1...1	1/7	Required. Lading Quantity - Number of hazardous material packages.	123
LH103	0...1	6/6	The United Nations / North America number assigned to the hazardous material (e.g., UN1203 = Gasoline).	-
LH104	0...1	1/6	Refers to the page number in the applicable hazardous materials regulation book (e.g., 337 for IMDG). Used for quick lookup.	1
LH105	0...1	1/30	Code describing a commodity or group of commodities.	C2343
LH106	0...1	2/2	The unit used to measure the quantity in LH107 (e.g., "KG" = kilograms, "GA" = gallons)	-
LH107	0...1	1/15	Quantity - Amount of hazardous content inside packages, most likely weight or volume of substance being shipped.	800
LH108	0...1	1/1	Indicates the tank or compartment within a multi-compartment vehicle or container where the hazardous cargo is located.	-

Input Element			Occurs	Length	Description	Example
			LH109 0..1	1/1	Types of residue indicator. Valid values: • B - Box • G - Residue Last Contained Description (Small Means of Containment) • P - Residue Last Contained Description (Packages) • R - Residue Last Contained Description (Rail Car).	G
			LH110 0..1	1/3	Dangerous goods packaging group in terms of Roman number I, II or III.	I
			LH111 0..1	1/5	Identifies the current regulatory version number used for hazardous materials shipments.	V1
			LH112 0..1	1/30	Industry Code.	-
			LH2 0..4	-	LH2 segment describes about hazardous material notation and endorsement.	-
			LH201 0..1	1/30	Specifies the code that classifies the hazardous material	5.1
			LH202 0..1	1/1	Indicates the qualifier for the hazardous class. Valid values: • P - Primary Goods • S - Secondary Goods	P
			LH203 0..1	14/40	Provides the code for hazardous placard notation.	FLAMMABLE LIQUID
			LH211 0..1	4/25	Specifies the code for hazardous endorsements.	NONE
			LH205 0..1	2/2	Indicates the code for reportable quantities.	RQ
			LH206 0..1	2/2	Specifies the unit or basis for measurement. Valid values • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • B0 - Bundle • BG - Bag • B0 - Bottle • BX - Box • C3 - Centiliter • CA - Case • CC - Cubic Centimeter • CF - Cubic Feet • CG - Card, Blister • CI - Cubic Inches • CL - Cylinder • CM - Centimeter • CN - Can • CP - Crate • CO - Cartridge • CR - Cubic Meters • CT - Carton • DA - Day • DI - Dispenser • DK - Kilometers • DL - Deciliter • DM - Decimeter • DR - Drum • DS - Display • DZ - Dozen • EA - Each • F0 - Fluid Ounce • FT - Foot • GA - Gallon • GL - Gram/liter • GR - Gram • GS - Gross • H4 - Hectoliter • HF - Hundred Feet • HR - Hours • IH - Inch • K6 - Kiloliters • KG - Kilogram • KT - Kit • LB - Pounds • LF - Linear Foot • LD - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • MO - Months • MR - Meter • OZ - Ounces • PC - Piece • PF - Pallet • PK - Package • PR - Pair • PT - Pint • QT - Quart • RL - Roll • SC - Square Centimeter • SF - Square Foot • SH - Sheet • SI - Square Inch • SM - Square Meter • ST - Set • SY - Square Yard • T3 - Thousand Pieces • TB - Tube • TH - Thousand • TY - Tray • U2 - Tablet • UM - Million • UN - Unit • V2 - Pouch • VI - Vial • WK - Week • YD - Yard • YR - Years	KG
			LH207 0..1	1/4	Indicating the flashpoint of the goods, expressed in the unit of measure defined for temperature. Applicable only for dangerous goods of type "IMDG."	20
			LH208 0..1	2/2	Specifies the unit or basis for measurement related to LH209	C
			LH209 0..1	1/4	Indicating the controlled temperature of the goods, expressed in the unit of measure defined for temperature. Applicable only for dangerous goods of type "IMDG."	68
			LH210 0..1	2/2	Specifies the unit or basis for measurement related to LH210	F
			LH211 0..1	1/4	Indicating the maximum emergency temperature of the goods, expressed in the unit of measure defined for temperature. Applicable only for dangerous goods of type "IMDG."	77

Input Element	Occurs	Length	Description	Example
LH212	0...1	1/1	Type of weight recorded. Valid values: • E - Metric ton • G - Gram • K - Kilogram • L - Pounds • M - Measurement ton • O - Ounces • S - Short ton • T - Long ton	L
LH213	0...1	1/10	Net Explosive Quantity.	50
LH3	0...10	-	Additional Dangerous Goods information to be considered while specifying shipment instructions.	-
LH301	0...1	1/25	Material name, special instructions, and phone number if any.	EMS
LH302	0...1	1/1	Free-form description of hazardous material classification or division or label requirements.	123
LFH	0...20	-	To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments.	-
LFH01	1...1	3/3	Required. Type of shipment description recorded. (missing or bad snippet)	EMS
LFH02	1...1	1/25	Required. Specific information required by law for hazardous material shipments.	123
LFH03	0...1	1/25	Specific information required by law for hazardous material shipments.	-
SE	1...1	-	Required. ST ... SE transaction set trailer envelope. Child of GS group. Only one ST transaction expected.	-
SE01	1...1	1/10	Required. Total count of segments in ST ... SE transaction set including ST and SE segments.	10
SE02	1...1	4/9	Required. Transaction set control number.	0001
GE	1...1	-	Required. GS ... GE functional group trailer envelope. Child of ISA interchange. Only one GS group expected.	-
GE01	1...1	1/6	Required. Number of transaction sets in functional group.	5
GE02	1...1	1/9	Required. Functional group control number.	619827
IEA	1...1	-	Required. ISA ... IEA interchange control trailer envelope. Only one interchange expected per transmission.	-
IEA01	1...1	1/5	Required. Number of functional groups in interchange.	1
IEA02	1...1	9/9	Required. Interchange control number.	000000000619827

Example

```

ISA*00*                *00*                *01*7777776067344
*ZZ*888888404358877*260612*1121*^*00501*000000011*0*T*:~
GS*BL*PHARMAMFG*COLDCHAIN3PL*20260612*112139*18*X*005010~
ST*211*0001~
BOL*CCRπ*CC*123212332*20260612*1121*TEMP-CONTROLLEπ*P*N*40*DD*2-8C~
B2A*00*BD~
MS3*CCRX*1*FDEG*I*CA~
MS2*CCRX*TRAILER-7821*SD*4~
L11*S0-4500098765*AGP*Pharma Sales Order*20260612*N~
G62*10*20260612*E*112139*CS~
G62*10*20260613*E*093000*CS~
G62***E*112139*CS~
AT5*G0C*C1*GDP-COMPLIANT*C3*55*56~
N1*ST*MEDICINE DISTRIBUTION CENTER*92*0004000050~
N3*100 Healthcare Logistics Parkway*Cold Chain Receiving Dock 3~
N4*Basel*BS*4051*CH*94*47.5596.7.5886.0~
G61*IC*Dr. Anna Keller*TE*+41-61-555-0100~
G61*IC*Dr. Anna Keller*EM*receiving@meddist.example.com~
K1*Temp Contr PharmaShipment*Maintain 2-8C at all times~
AT1*10~
L11*P0-785522*CR*Customer Purchase Order*20260612*Y~
AT3*87*FR*1200*LB*91*TRF*3~
AT4*Pharma prod packed & validated insulated shippers~
AT2*95*TKT*L*E*99*100*CBC*Y*TEMP-LOGGER-7788*104*W*106*S*108~
MAN*SM*SSCC-003400000123456789*SHIPPER-

```

BOX-001*SR*TEMPLLOGGER-7788*SEAL-445566~
SP0*P0-785522*REF-555*DZ*20*0*120~
OID*ORDER-100045*P0-785522*NDC-0002-8215-01*CAS*20*S*129*E*131*NOD*2-8
C*RAL*135~
L4*120*48*60*N*140*KG~
LX*12~
MAN*SR*SSCC-003400000123456790*CASE-
ID-3333*GI*GTIN-00340000000123*LOT-AB12345~
SP0*P0-785522*REF-8855*B0*10*T*154*NIF*2-8C~
OID*SHIP-
REF-8888*P0-785522*NDC-0002-8215-01*BDL*10*E*163*G*165*MB*LOT-
AB12345*FLX*20270630~
G61*IC*Cold Chain Control Tower*TE*+1-999-999-0000~
L11*TEMP-LOGGER-7788*CTS*Continuous temperature monitor
active*20260612*Y~
LH6*CERT-GDP-787545*1*Dry Ice Declaration*UN1845~
LH1*F0*184*DRY ICE*LH104*LH10*F0*189*5*G*UN1*III*PACKINGGROUPIII~
LH2*DRY ICE*P*CARBON DIOXIDE SOLID*RQ*RQ*KG*20*203*FZ*205*M*L*50~
LH3*UN1845*I*DRY ICE*N~
LFH*LQY*DRY ICE USED FOR COOLING*PHARMA COLD
CHAIN*D*GL*217*218*20260612~
LEP*GDP-COLD-CHAIN*VALIDATED-SHIPPER*2-8C*TEMP-MONITORED~
LH4*5*KG*DRYICE*COOLING*FOR*PHARMA*I*230*REGULATED*S*233*GW~
LHT*TEMP CONTROLLED*PHARMACEUTICAL PRODUCT*2-8C~
L11*NDC-0002-8215-01*25*National Drug Code*20260612*W~
SE*41*0001~
GE*1*18~
IEA*1*000000011~



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