TRACELINK UNIVERSITY

Invoice (X12)

The Invoice X12 message sends a request for payment from the seller to the buyer and details information such as the full amount due and payment terms. When sending an invoice X12 message from your company inbound to TraceLink, TraceLink requires that the values for the following elements in the message header control settings must be present for TraceLink to correctly process the B2B message:

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

- **Message Type**: MPC_INVOICE (Invoice)
- **X12 Format**: 810
- **Transform Names**:
  - B2B_EDI_X12_810_Invoice_IB_V8
  - B2B_EDI_X12_810_Invoice_OB_V8

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. Valid values: • 00 - No authorization info present. • 03 - Additional data identification.	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.	–

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Input Element	Occurs	Length	Description	Example
ISA03	1...1	2/2	**Required.** Qualifier for security information in ISA04. Valid values: • 00 - No security information present. • 01 - Password.	00
ISA04	1...1	10/10	**Required.** Identifies security information about the interchange sender or data.	–
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 del Codigo 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.** EDI sender ID.	7777776067344

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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 – 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 del Codigo 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
ISA08	1...1	15/15	**Required.** EDI receiver ID.	888888404358877
ISA09	1...1	6/6	**Required.** Interchange date in 6 char YYMMDD format.	231020
ISA10	1...1	4/4	**Required.** Interchange time in 4 char HHMM format.	1420
ISA11	1...1	1/1	**Required.** Repetition separator. Delimiter that separates repeated occurrences of a data element or composite data structure. Must be different than the data element separator, component separator, and segment terminator	:
ISA12	1...1	5/5	**Required.** Interchange control version number. Valid value is 00501.	00501
ISA13	1...1	9/9	**Required.** Interchange control number for file control header.	0000000000619827

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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...1	–	**Required.** 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 IN - Invoice.	IN
GS02	1...1	2/15	**Required.** Application sender's code.	2222224043588
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.	231020
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 value is X.	X
GS08	1...1	1/12	**Required.** X12 message version code. Valid value is 004010.	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.	810
ST02	1...1	4/9	**Required.** Transaction set ID number. Counter for each ST segment beginning with 1.	1
BIG	1...1	–	**Required.** Beginning segment for Invoice. Child of ST transaction set.	–
BIG01	1...1	8/8	**Required.** Invoice issue date.	20231020
BIG02	1...1	1/22	**Required.** Invoice number.	4506733288
BIG03	1...1	8/8	**Required.** Date assigned by the purchaser to purchase order.	20230915
BIG04	0...1	1/22	Purchase order number.	1234567890
BIG05	0...1	1/30	Release document number. Identifies a release against a Purchase Order.	789
BIG06	0...1	1/8	Change order sequence number.	–
BIG07	0...1	2/2	Transaction Type Code. Only to further define the type of invoice when needed. Valid values: • CR - Credit Memo • DR - Debit Memo • DO - Drop Ship	–
CUR	0...1	–	Invoice currency	–
CUR01	1...1	2/3	**Required.** Entity identifier code identifying an organizational entity, a physical location, property or individual using the identified currency code.	BY
CUR02	1...1	3/3	**Required.** ISO currency code for the country whose currency the charges are specified.	USD
REF	0...1	–	Reference Information	–
REF01	1...1	2/3	Reference Identification Qualifier	IA
REF02	1...1	3/3	Reference Identification	INTERNAL_VENDOR_NUMBER
N1	0...1	–	N1: Name segment loop for: • Ship to party. • Bill to party. • Ship to party. • Selling party. • Remit to party. • Buyer to party. • Invoice Payer party.	–
N101	1...1	2/3	**Required.** Entity identifier code for party identifier and address information for: • ST – Ship to party. • BT – Bill to party. • BS – Bill and ship to party. • SU – Supplier party. • RI or RE – Remit To, Party to receive commercial invoice remittance. • BY – Buyer. • PR – Payer.	ST
N102	1...1	1/60	**Required.** Name.	Wholesale Inc

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Input Element	Occurs	Length	Description	Example
N103	1...1	1/2	**Required.** Identifier code qualifier. Valid values: • 01 – DUNS • 09 – DUNS+4 • 11 – Drug Enforcement Agency registration number • 21 – Health Industry Number • 54 - Warehouse • 91 – Company identifier • 92 – Company location identifier • UL – Global Location Number	11
N104	1...1	2/80	**Required.** Ship to party identifier, as qualified by N103.	3333331013655
N3	0...1	–	N3: Address. Child of Ship to N1 Name segment.	–
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 ship to 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 (zip code for United States)	95833
N404	0...1	2/3	Country code	US
N405	0...1	1/2	Placeholder for future use of SGLN.	–
N406	0...1	1/30	Placeholder for future use. Origin or Destination Shipping Location ID. SGLN number. NNI will not have sGLNs defined for any of their customers for the 2015 requirement.	–
PER	0...1	–	Administrative communications contact.	–
PER01	0...1	2/2	Contact function code. Valid value is IC = Information contact.	–
PER02	0...1	1/60	Name.	ContactName
PER03	0...1	2/2	Communication number qualifier.	TE
PER04	0...1	1/256	Communication number.	ContactNumber
PER05	0...1	2/2	Communication number qualifier.	EM
PER06	0...1	1/256	Communication number.	ContactEmail
ITD	0...*	–	Terms of sale or deferred terms of sale.	–
ITD01	0...1	2/2	Terms of sale type code. Identifies type of payment code. **Valid values:** • 01 – Basic terms of sale • 02 – End of month • 03 – Fixed date for payment • 04 – Deferred or installment • 05 – Discount not applicable • 06 – Missed terms • 07 – Extended terms • 09 - Proximo • 13 – Seller to advise buyer • 14 – Previously agreed terms • 15 – Special proximo	01
ITD02	0...1	1/2	Terms of sale basis code. Identifies beginning of the terms of payment code. Valid values: • 1 – Ship date • 2 – Delivery date • 3 – Invoice date • 5 – Invoice receipt date • 7 – Effective date • 09 – Purchase order date	3
ITD03	0...1	1/6	Percentage of discount availablle to the purchaser if an invoice is paid on or before the terms of payment discount due date.	1.25
ITD04	0...1	8/8	Discount due date in X12 date format YYYYMMDD..	–
ITD05	0...1	1/3	Number of days payment is due within discount period to qualify for the discount.	–
ITD06	0...1	8/8	Terms net due date. Date when the invoice total amount is due in X12 date format YYYYMMDD.	20231125
ITD07	0...1	1/3	Number of days total invoice payment is due where no discount is applicable.	30
ITD08	0...1	1/10	Total amount of terms of sale discount.	–
ITD09	0...1	8/8	Deferred due date for terms of sale. Refers to deferred payment or percent of invoice payable in X12 date format YYYYMMDD.	20231215
ITD10	0...1	1/10	Deferred amount due for payment.	55.25
ITD11	0...1	1/5	Percent of invoice payable. The amount of the invoice payable expressed as a percentage.	100.00
ITD12	0...1	0/80	Description.	description
ITD13	0...1	0/80	Day of the month, this value can be min 1 and max can be maximum day in a month, expected to get this validated at front end or back end.	21
DTM	0...10	–	DTM header level dates.	–

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Input Element	Occurs	Length	Description	Example
DTM01	1...1	3/3	**Required.** Date type. Valid values: • 011 – Shipped • AAG – Due date	004
DTM02	0...1	8/8	Date value in date format YYYYMMDD.	20240329
DTM03	0...1	4/8	Time in time format HHMMSS.	092413
IT1	1...*	–	Baseline item data (Invoice) - Looping Group.	–
IT101	0...1	1/20	Invoice line item number.	000010
IT102	0...1	1/15	Quantity invoiced.	25

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Input Element	Occurs	Length	Description	Example
IT103	0...1	2/2	Unit of measure for 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 • CH – Container • 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 – Cubic decimeters • DR – Drum • DS – Display • DZ – Dozen • EA – Each • FO – US Fluid Ounce • FT – Foot • GA – US Gallon • GL – Gram/Liter • GR – Gram • GS – Gross • H4 – Hectoliter • HF – Hundred Feet • HR – Hours • IN – Inch • K6 – Kiloliters • KG – Kilogram • KT – Kit • LB – US Pound • LF – Linear Foot • LO – Lot (unit of procurement) • LT – Liter • LY – Linear Yard • MC – Microgram • ME – Milligram • ML – Milliliter • MM – Millimeter • MO – Months • 01 – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PH – Pack • 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 • SZ – Syringe • T3 – Thousand Pieces • TB – Tube • TH – Thousands • TN – Tonne • TS – Thousands • TY – Tray • U2 – Tablet • UM – Million • UN – Unit • US – Dosage Form • V2 – Pouch • VI – Vial • WK – Week • YD – Yard • YR – Years	EA

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Input Element	Occurs	Length	Description	Example
IT104	0...1	1/17	Unit price per saleable unit for ordered quantity.	25.22
IT106	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	VN
IT107	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	08202000230
IT108	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	IN
IT109	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	08202000230
IT110	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	MF
IT111	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	08202000230

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Input Element	Occurs	Length	Description	Example
IT112	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	N4
IT113	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	
IT114	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	UK
IT115	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
IT116	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	UP
IT117	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–

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Input Element	Occurs	Length	Description	Example
IT118	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	FV
IT119	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
IT120	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	ND
IT121	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
IT122	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	SK
IT123	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–

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Input Element	Occurs	Length	Description	Example
IT124	0...1	2/2	Product service ID qualifier mapping from global standards enum list. **Valid values:** • BP – Buyer item code • FV – Canada National Drug Identification Number • LT – Lot number • MF – Manufacturer's product number • N1 – US National-Drug-Code-NDC442-with-hyphen-separators • N2 – US National-Drug-Code-NDC532-with-hyphen-separators • N3 – US National-Drug-Code-NDC541-with-hyphen-separators • N4 – US-National-Drug-Code-NDC542-with-hyphen-separators • ND – US-National-Drug-Code-NDC542-with-hyphen-separators • PI or IN – Customer's (Purchaser's) item code • SK – Stock keeping unit • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN (UCC-12) • VC – Vendor catalog material Number. • VN – Vendor/Supplier material Number.	BP
IT125	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
IT3	0...5	–	Additional Item information	–
IT301	0...1	0/10	No of units shipped	12

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Input Element	Occurs	Length	Description	Example
IT302	0...1	2/2	Unit or Basis for Measurement Code. **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 • CH – Container • 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 – Cubic decimeters • DR – Drum • DS – Display • DZ – Dozen • EA – Each • FO – US Fluid Ounce • FT – Foot • GA – US Gallon • GL – Gram/Liter • GR – Gram • GS – Gross • H4 – Hectoliter • HF – Hundred Feet • HR – Hours • IN – Inch • K6 – Kiloliters • KG – Kilogram • KT – Kit • LB – US Pound • LF – Linear Foot • LO – Lot (unit of procurement) • LT – Liter • LY – Linear Yard • MC – Microgram • ME – Milligram • ML – Milliliter • MM – Millimeter • MO – Months • 01 – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PH – Pack • 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 • SZ – Syringe • T3 – Thousand Pieces • TB – Tube • TH – Thousands • TN – Tonne • TS – Thousands • TY – Tray • U2 – Tablet • UM – Million • UN – Unit • US – Dosage Form • V2 – Pouch • VI – Vial • WK – Week • YD – Yard • YR – Years	CA

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Input Element	Occurs	Length	Description	Example
IT303	0...1	2/2	Status code for the order or shipment. **Valid values:** • BK – Back Ordered from Previous Order • BO – Back ordered • BP – Shipment Partial, Back Order to Ship on (Date) • CC – Shipment Complete on (Date). For complete shipment of backordered merchandise • CM – Shipment Complete with Additional Quantity. To meet minimum order quantity • CP – Partial Shipment on (Date), Considered No Backorder • HQ – Held Awaiting Qualification. Manufacturer needs more information to process order • IC – Item Canceled. Discontinued item. • ID – Insufficient Information • IS – Item Represents Substitution from Original Order. • NN – Not in Process - No Shipping Schedule. Item currently unavailable—please reorder • NS – Not In Process, Scheduled to Ship on (Date) • PD – Purchase Order Complete • PH – Product On Hold • PR – Partial Shipment • PS – In Process, Scheduled to Ship On (Date). Item currently unavailable—backorder to follow • SS – Split Shipment	PS
IT304	0...1	1/9	Numeric value of variance between ordered and shipped quantities.	3
PID	0...*	–	Product or item description.	–
PID01	0...1	1/1	Item description type. Valid value is F – Free from.	F
PID05	0...1	1/80	Item description.	Sublocade 100MG/0.5ML CIII
DTM	0...10	–	DTM date segment for expiry date	–
DTM01	1...1	3/3	**Required.** Date type qualifier for the date type. Valid value is 208 = Expiry date.	208
DTM02	0...1	8/8	Expiry date in date format YYYYMMDD.	20240628
DTM03	0...1	4/8	Processing time in time format HHMMSS.	123422
SAC	0...25	–	Service, promotion, allowance, or charge information.	–
SAC01	1...1	1/1	**Required.** Allowance or charge indicator. Identifies an allowance or charge for the invoice. Valid values: • A – Allowance. • C – Charge. • N – No allowance or charge.	C
SAC02	0...1	4/4	Service, promotion, allowance, or charge code. **Valid values:** • A010 – Absolute minimum charge • A150 – Adjustment for maximum charge billing • A170 – Adjustments to credits or charges • A172 – Administrative credits or charges • A210 – Advance fee • A250 – Advances on credits or charges • A260 – Advertising Allowance • A320 – Air transport charge • A380 – Advance on allowance • A400 – Allowance Non-performance • A480 – Assembly credit or charge • A520 – Base charge • A600 – Bill of lading charge • A880 – Cancelation charge • A930 – Carrier credit allowance • A940 – Carrier debit allowance • A960 – Carrier charge • A980 – Cartage credit or charge • C030 – Delivery surcharge • C040 – Delivery credit or charge • C110 – Deposit • C150 – Destination charge • C310 – Discount • C340 – Distribution service • C350 – Distributor discount/allowance • C370 – Diversion charge • C400 – Documentation charge • C760 – Excess weight charge • D040 – Finance charge • D070 – Flat rate • D200 – Delivery Fee (Freight Charges to Destination) • F800 – Promotional Allowance • F810 – Promotional Discount • H000 – Special Allowance • I410 – Unsaleable minimum charge allowance	C030
SAC05	0...1	1/15	Amount of allowance or charge.	60.00

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Input Element	Occurs	Length	Description	Example
SAC06	0...1	1/1	Allowance or charge percentage qualifer. **Valid values:** • 0 – Gross amount. • 1 – Item list cost. • 2 – Item net cost. • 3 – Discount/gross. • 4 – Discount/net. • 5 – Base price per unit. • 6 – Base price amount. • 7 – Base price amount less previous discount. • 8 – Net monthly on all invoices past due. • 9 – Late payment charge base amount. • B – Item total amount. • C – Item unit price. • D – Order total amount.	B
SAC07	0...1	1/6	Percentage of allowance or charge in decimal format.	1.0
SAC12	0...1	2/2	Allowance or Charge Method of Handling Code. Valid values: • 01 – Bill back • 02 – Off invoice • 04 – Credit customer account	–
SAC13	0...1	0/50	Reference Identification.	–
SAC14	0...1	0/20	Option Number.	–
SAC15	0...1	0/80	Description.	Freight Charge
TDS	0...1	–	Total Monetary Value Summary	–
TDS01	1...1	1/15	**Required.** Amount Total Invoice. The amount of invoice before terms discount, if applicable.	69050
TDS02	1...1	1/15	**Required.** Amount Invoice Amount subject to discount. The amount upon which the terms discount amount is calculated.	69050
TDS03	1...1	1/15	**Required.** Amount The amount of invoice due if paid by terms discount due date (total invoice amount less cash discount).	69000
TDS04	1...1	1/15	**Required.** Amount The total amount of terms discount.	50
TXI	0...*	–	Tax Information	–
TXI01	1...1	2/2	**Required.** Tax Type Code **Valid values:** • AB – SurTax • BE – Harmonized Sales Tax • CG – Customs Duty Tax (Federal Value Added tax on goods) • CS – City Sales Tax • CT – County Sales Tax • FD – Federal Excise Tax • GS – Goods and Services Tax • PG – Provincial Sales Tax • ST – State Sales Tax • TX – All Taxes • VA – Value Added Tax	CS
TXI02	0...1	1/18	Monetary amount.	5.43
TXI03	0...1	1/10	Percentage as decimal.	–
TXI04	0...1	2/2	Tax jurisdiction code qualifier. Valid values: • CD – Customer defined • MB – Taxing Authority Code • SP – State or Province • ST – State Defined • VD – Vendor Defined • VE – Vertex	–
TXI05	0...1	1/10	Tax jurisdiction code.	–
TXI06	0...1	1/1	Tax exempt code. Valid values: • 1 – Yes (Tax Exempt) • 2 – No (Tax Exempt)	2
TXI07	0...1	1/1	Relationship code.	–
TXI08	0...1	1/9	Dollar basis for percent.	–
TXI09	0...1	1/20	Tax identification number.	–
SAC	0...25	–	Service, promotion, allowance, or charge information.	–
SAC01	1...1	1/1	**Required.** Allowance or charge indicator. Identifies an allowance or charge for the invoice. Valid values: • A – Allowance. • C – Charge. • N – No allowance or charge.	C

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Input Element	Occurs	Length	Description	Example
SAC02	0...1	4/4	Service, promotion, allowance, or charge code. **Valid values:** • A010 – Absolute minimum charge • A150 – Adjustment for maximum charge billing • A170 – Adjustments to credits or charges • A172 – Administrative credits or charges • A210 – Advance fee • A250 – Advances on credits or charges • A260 – Advertising Allowance • A320 – Air transport charge • A380 – Advance on allowance • A400 – Allowance Non-performance • A480 – Assembly credit or charge • A520 – Base charge • A600 – Bill of lading charge • A880 – Cancelation charge • A930 – Carrier credit allowance • A940 – Carrier debit allowance • A960 – Carrier charge • A980 – Cartage credit or charge • C030 – Delivery surcharge • C040 – Delivery credit or charge • C110 – Deposit • C150 – Destination charge • C310 – Discount • C340 – Distribution service • C350 – Distributor discount/allowance • C370 – Diversion charge • C400 – Documentation charge • C760 – Excess weight charge • D040 – Finance charge • D070 – Flat rate • D200 – Delivery Fee (Freight Charges to Destination) • F800 – Promotional Allowance • F810 – Promotional Discount • H000 – Special Allowance • I410 – Unsaleable minimum charge allowance	C030
SAC05	0...1	1/15	Amount of allowance or charge.	6000
SAC06	0...1	1/1	Allowance or charge percentage qualifier. **Valid values:** • 0 – Gross amount. • 1 – Item list cost. • 2 – Item net cost. • 3 – Discount/gross. • 4 – Discount/net. • 5 – Base price per unit. • 6 – Base price amount. • 7 – Base price amount less previous discount. • 8 – Net monthly on all invoices past due. • 9 – Late payment charge base amount. • B – Item total amount. • C – Item unit price. • D – Order total amount.	B
SAC07	0...1	1/6	Percentage of allowance or charge in decimal format.	1.0
SAC12	0...1	2/2	Allowance or Charge Method of Handling Code. Valid values: • 01 – Bill back • 02 – Off invoice • 04 – Credit customer account	–
SAC13	0...1	0/50	Reference identification.	–
SAC14	0...1	0/20	Option number.	–
SAC15	0...1	0/80	Description.	Freight Charge
CTT	0...1	–	CTT-Transaction totals.	–
CTT01	1...1	1/6	**Required.** Total number of line items in the transaction set.	15
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.	1
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	0000000000619827

Example

```
ISA*01*0000000000*01*0000000000*01*ABCDEFGHIJ      *07*123456789012
*101127*1719*^*00400*000003438*0*P*>
```

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```
GS*IN*4405197800*999999999*20101205*1710*1320*X*004010VICS
ST*810*1004
BIG*20231020*4506733288*20230915*1234567890*789
CUR*BY*USD
N1*ST*ShipTo*92*COMPANYSITEID
N3*Address1_ST*Address2_ST
N4*City_ST*ST*999-000@ST*ST**
N1*BT*BillTo*UL*GLN
N3*Address1_BT*Address2_BT
N4*City_BT*BT*999-000@BT*BT**
N1*SU*Supplier*91*COMPANYID
N3*Address1_SU*Address2_SU
N4*City_SU*SU*999-000@SU*SU**
PER*IC*Supplier_IC*EM*supplierIC@email.com*TE*1-111-111-1111
N1*RI*Remit*21*HIN
N3*Address1_RI*Address2_RI
N4*City_RI*RI*999-000@RI*RI**
PER*IC*RemitTo_IC*EM*remittoIC@email.com*TE*1-111-111-4444
N1*BY*Buyer*11*DEA-BY
N3*Address1_BY*Address2_BY
N4*City_BY*BY*999-000@BY*BY**
PER*IC*Buyer_IC*EM*buyerIC@email.com*TE*1-111-111-7777
N1*PR*Payer*9*DUNS4-PR
N3*Address1_PR*Address2_PR
N4*City_PR*PR*999-111@PR*PR**
PER*IC*Payer_IC*EM*payerIC@email.com*TE*1-111-111-1212
ITD*01*1*1**0*20240201*10**20231231*100*1.21*TEST INVOICE 1
IT1*001*11*EA*11.11**UP*UPC*BP*BUYER*PI*CUSTOMER*VN*SUUPLIER*UK*GTIN14
*MF*MANUFACTURER*FV*CA_DIN*N1*US_NDC442*N2*US_NDC532*N3*US_NDC541
SAC*A*A170***100*0*1.1*****01***DESC_1
SAC*C*A172***200*1*1.2*****02***DESC_2
SAC*N*A250***300*2*1.3*****04***DESC_3
IT1*002*22*EA*22.22**UP*999999330023*N4*US_NDC542*SK*SKU*VN*SUUPLIER*U
K*GTIN14*MF*MANUFACTURER*FV*CA_DIN*N1*US_NDC442*N2*US_NDC532*N3*US_NDC
541
SAC*A*A380***400*3*1.4*****05***DESC_4
SAC*C*A210***500*4*1.5*****06***DESC_5
SAC*N*A320***600*5*1.6*****07***DESC_6
IT1*003*33*EA*33.33**UP*999999330023*N4*US_NDC542_1*SK*SKU_1*VN*SUUPLI
ER_1*UK*GTIN14_1*MF*MANUFACTURER_1*FV*CA_DIN_1*N1*US_NDC442_1*N2*US_ND
C532_1*N3*US_NDC541_1
SAC*A*A600***700*6*1.7*****08***DESC_7
SAC*C*A880***800*7*1.8*****09***DESC_8
SAC*N*A960***900*8*1.9*****10***DESC_9
TDS*21740
TXI*CS*1.1**CD*J-CODE_1*1***
```

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```
TXI*CT*2.2**MB*J-CODE_2*2***
TXI*CG*3.3**SP*J-CODE_3*1***
SAC*C*F810***111*B*2.2*****CA***DESC_Header_1
SAC*N*H000***222*C*3.3*****CC***DESC_Header_2
SAC*A*I410***333*D*4.4*****PP***DESC_Header_3
CTT*10
SE*18*1004
GE*1*1320
IEA*1*000001320
```

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