TRACELINK UNIVERSITY

Purchase order acknowledgments (X12)

Purchase orders allow companies to exchange data about requests to purchase goods and services with upstream and downstream supply chain trade partners without giving these trade partners access to their serialization system of record. These purchase orders can be used to request specific products and quantities from their Partners and confirm that partners have the requested product and quantities on hand and intend to fulfill the request via a purchase order acknowledgment.

The PO Acknowledgment X12 855 message sends a response to a PO from the seller to the buyer. In addition to confirming the receipt of a new order, the acknowledgment tells the buyer if the PO was accepted, if there are any required changes, or if it was rejected.

These guidelines are unofficial and may not necessarily list all message formatting and element requirements. Contact your TraceLink Services representative for more information about integrating with this message.

- **Message Type**: MPC_PURCHASE_ORDER_ACK (Purchase Order Acknowledgment)
- **X12 Format**: 855

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- **Transform Names**:
  - B2B_EDI_X12_855_PurchaseOrderAcknowledgment_IB_V8
  - B2B_EDI_X12_855_PurchaseOrderAcknowledgment_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.	–
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	–

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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 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.	01
ISA06	1...1	15/15	**Required.** EDI sender ID mapping to file control header and to ServiceLinkId.	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.	01
ISA08	1...1	15/15	**Required.** EDI receiver ID mapping to file control header.	888888404358877
ISA09	1...1	6/6	**Required.** Interchange date in 6 character YYMMDD format.	231020
ISA10	1...1	4/4	**Required.** Interchange time in 4 character HHMM format.	1420

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Input Element	Occurs	Length	Description	Example
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 `00401`.	00501
ISA13	1...1	9/9	**Required.** Interchange Control Number for file control header.	0000000000619827
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 PR – Purchase order acknowledgment.	PR
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 character X12 date format YYYYMMDD.	231020
GS05	1...1	4/8	**Required.** Current time stamp in 6 character 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...*	–	**Required.** ST transaction set envelope. Child of GS group. Only one ST transaction expected.	–
ST01	1...1	3/3	**Required.** Transaction set identifier code.	855
ST02	1...1	4/9	**Required.** Transaction set ID number. Counter for each ST segment beginning with 1.	1
BAK	1...1		Beginning segment for Purchase Order Acknowledgment	BAK
BAK01	1...1	2/2	Transaction purpose code. Valid values: • `00` – Original document • `01` – Cancel order • `04` – Change order • `06` – Confirm • `CO` – Correction	00
BAK02	1...1	2/2	Acknowledgment type. **Valid values:** • AC – Acknowledge - With Detail and Change. • AD – Acknowledge - With Detail, No Change. • AE – Acknowledge - With Exception Detail Only. • AH – Hold. • AK – Acknowledge - No Detail or Change. • AP – Product replenishment. • AT – Accepted. • NA – Not required. • RD – Rejected with detail. • RF – Rejected with exception detail. • RJ – Rejected - No Detail. • RO – Rejected counteroffer. • RV – Rejected violated practices. • Missing or not populated – Rejected.	AC
BAK03	1...1	1/22	Purchase Order number.	4506733288
BAK04	1...1	8/8	Purchase order date YYYYMMDD X12 date format.	20231020
BAK05	0...1	1/30	Release document number. Identifies a release against a Purchase Order.	4500003288
CUR	0...1	–	Purchase order 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

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Input Element	Occurs	Length	Description	Example
CUR02	1...1	3/3	**Required.** ISO currency code for the country whose currency the charges are specified.	USD
REF	0...*	–	Purchase order reference information.	–
REF01	1...1	2/3	**Required.** Reference identification qualifier. Valid values: • BC – Customer (Buyers's) contract number. • CT – Contract number. • DM – Message or document number • OQ – Order number. • PO – Customer purchase order. • RE – Release document number. • VC – Supplier contract number. • VN – Supplier sales order.	DM
REF02	0...1	1/50	Reference identification for the purchase order as specified by the reference identification qualifier.	009875623
REF03	0...1	1/80	Description referenced identifier.	–
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 available 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
DTM	0...10	–	Shipping date. Child of HL shipment.	–
DTM01	1...1	3/3	**Required.** Date or time qualifier identifying shipment date. Valid values: • 002 – Delivery requested date • 004 – Purchase order date • 010 – Requested shipment date • 011 – Shipped date • 017 – Estimated delivery date • 018 – Availability date • 036 – Expiration date • 061 – Cancel if not delivered by date	011
DTM02	0...1	8/8	Date in CCYYMMDD format for shipment or delivery date of sending party.	20231125
DTM03	0...1	4/8	Time in HHMMSS or HHMM format for shipment or delivery date of sending party.	1230

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Input Element	Occurs	Length	Description	Example
DTM04	0...1	2/2	Time Zone Code: Valid values: • CS – Central Standard Time. • ET – Eastern Time. • MT – Mountain Time. • PT – Pacific Time.	1230
TD5	0...*	–	Carrier Details - Routing. Child of HL shipment.	–
TD501	0...1	1/2	Routing sequence code describing relationship of a carrier to a specific shipment movement. Valid values: • B – Origin carrier regardless of mode. • O – Origin carrier, air, motor or ocean.	O
TD502	0...1	1/2	Code identifying the type of identifier in TD03. Valid values: • 2 – SCAC. • 92 – Assigned by buyer or buyer's agent.	2
TD503	1...1	2/80	**Required.** Identifier code as defined by TD02.	ABFS
TD504	0...1	1/2	Transportation method type code identifying the method or type of transport used for the shipment. **Valid values:** • A – Air • AE – Air Express • H – Customer pickup • I- Common irregular carrier • J – Truck • K - Backhaul • L - Contract carrier • LT – Less than trailer load (LTL) • M – Motor (common carrier) • N - Private Vessel • O – Container sea • P - Private Parcel service • R – Rail • S – Sea/Ocean • SR – Supplier truck • T - Best way • U - Inland waterway • U – Private parcel service (HDMA) • X – Intermodal (piggy-back) • ZZ - Mutually defined • 7 – Mail	A
TD505	0...1	1/35	Routing. Free-form description of routing or requested routing for shipment or for originating carrier's identity.	–
N1	0...1	–	Name segment loop for: • Ship to party. • Buyer party. • Bill to party. • Supplier party. • Ship from party. • Carrier party.	–
N101	1...1	2/3	**Required.** Entity identifier code for party identifier and address information for: • ST – Ship to party. • BY – Buyer party. • BT – Bill to party. • SU – Supplier. • SF – Ship from party. • CA – Carrier party.	ST
N102	1...1	1/60	**Required.** Ship to party name .	Wholesale Inc
N103	1...1	1/2	**Required.** Identifier code qualifier of ship to party. 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	–	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	–	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

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Input Element	Occurs	Length	Description	Example
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	SGLN.	–
N406	0...1	1/30	Origin or Destination Shipping Location ID. SGLN number.	–
PER	0...1	–	Administrative Communications Contact  This segment is not mapped for ST, BT, SF, CA qualifiers.	–
PER01	1...1	2/2	**Required.** Contact function code identifying major duty or responsibility of person or group named as contact.	CN
PER02	1...1	1/60	Name of the contact person responsible for authenticating the pedigree information.	John Smith
PER03	1...1	2/2	Communication Number Qualifier identifying the contact person's telephone number or email address. Email address is expected. Valid values: • EM – Email address • TE – Telephone number	EM
PER04	1...1	1/256	Communication type value associated with PER03. The telephone number of the contact person is expected in this field.	jsmith@manufac.com
PER05	1...1	2/2	Communication Number Qualifier identifying the contact person's telephone number or email address. Telephone number is expected. Valid values: • EM – Email address • TE – Telephone number	TE
PER06	1...1	1/20	Communication type value associated with PER05. The email address of the contact person is expected in this field.	+1.516.747.6849
PO1	1...*	–	**Required.** Baseline item data.	–
PO101	0...1	1/20	PO line item number.	000010
PO102	0...1	1/15	**Required.** Quantity of ordered product.	200

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Input Element	Occurs	Length	Description	Example
PO103	0...1	2/2	**Required.** 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 • 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 • 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	EA

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Input Element	Occurs	Length	Description	Example
PO104	0...1	1/17	Unit price per sale able unit for ordered quantity.	21.25
PO106	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	VN
PO107	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	08202000230
PO108	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	IN
PO109	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	08202000230
PO110	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	MF
PO111	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
PO112	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	VC
PO113	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
PO114	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	UK
PO115	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
PO116	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	UP
PO117	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
PO118	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	N4
PO119	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
PO120	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	FV
PO121	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
PO122	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	N2
PO123	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
PO124	0...1	2/2	Instance 2 product service ID qualifier mapping from global standards enumeration list. **Valid values:** • PI – Customer's (Purchaser's) material number • VC – Vendor catalog Number. • VN – Vendor material Number. • UK – GTIN14 identifier • UP – EAN/UPC Universal Item Number/GTIN • MF – Manufacturer's product number • FV – Canada National Drug Identification 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 or ND – US-National-Drug-Code-NDC542-with-hyphen-separators • SK – Stock keeping unit	UP
PO125	0...1	1/48	Product or service identifier. Should be the same identifiers that will be used in the invoice.	–
PID	0...*	–	SN1- Item details. Child of HL level Item.	–
PID01	0...1	1/1	Item description type. Valid value is F – Free from.	F
PID05	0...1	1/80	Item description.	–
ACK		–	Line-Item Acknowledgment	–
ACK01	1...1	2/2	Line item status code. **Valid values:** • BP – Item Accepted - Partial Shipment, Balance Backordered • IA – Item Accepted • IB – Item Backordered • ID – Item Deleted • IH – Item on Hold • IP – Item Accepted - Price Changed • IQ – Item Accepted - Quantity Changed • IR – Item Rejected • IS – Item Accepted - Substitution Made • R1 – Item Rejected, Not a Contract Item • R2 – Item Rejected, Invalid Item Product Number • R3 – Item Rejected, Invalid Unit of Issue • R4 – Item Rejected, Contract Item not Available • SP – Item Accepted - Schedule Date Pending	–
ACK02	0...1	0/15	Quantity.	–

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Input Element	Occurs	Length	Description	Example
ACK03	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 • 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 • 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	–

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Input Element	Occurs	Length	Description	Example
ACK04	0...1	3/3	Date or time qualifier. Valid values: • 002 – Delivery requested date • 004 – Purchase order date • 010 – Requested shipment date • 011 – Shipped date • 017 – Estimated delivery date • 018 – Availability date • 036 – Expiration date • 061 – Cancel if not delivered by date	–
ACK05	0...1	8/8	Dateformat YYYYMMDD.	–
ACK07	0...1	2/2	Product or service ID qualifier. Valid value is SR – Substitute product number.	SR
ACK08	0...1	1/48	Product or service ID.	–
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*06*YYY        *00*xxx        *01*ss007PL         *ZZ*RECV
*120709*1612*^*00501*000619827*0*T*:
GS*PR*2222224043588*TRACELINK*20231020*1420*619827*X*005010
ST*855*0023
BAK*00*AT*PO888123*20230624*RELEASE 123
CUR*BY*USD
REF*CT*CT888123*CT_Description
ITD*01*3*1.25*20231103*10*20231125*25**20231215*5525*100.0
DTM*004*20230111*1220*CS
TD5*B*2*ABFS*A*Desc1
N1*ST*SHIP TO PARTY (WE/SH)*92*0004000050
N3*Central 101*Local, WST-190. E
N4*Stein*GL*4AA332!*CH*ST*SGLN
N1*BY*Wholesale Inc*1*001000285
N3*7956 VICTORY*Suite 2
N4*BASEL*GL*888@002*CH*10*SGLN
PER*CN*John Smith*EM*SmithJohn@Domain.com*TE*6083351580
N1*SU*SUPPLIER/VENDOR (LF/SU)*11*001000286
N3*Stella Maris*Condado Ave 14
N4*San Juan*PR*00 902*US*10*SGLN
PER*CN*John Smith*EM*SmithJohn@Domain.com*TE*6083351580
N1*BT*Wholesale Inc*91*0001000285
N3*7956 VICTORY*Suite 2
N4*BASEL*GL*40&02*CH*10*SGLN
```

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```
N1*SF*SHIPFROMPARTYNAME*1*0010002869028
N3*Stella Maris*Condado Ave 14
N4*San Juan*PR*00$902*US*10*SGLN
N1*CA*2 CARRIER PARTY (SP)*UL*22200090056
N3*Stree 10*Suite5
N4*2 City*MH*220  00*MX*10*SGLN
PO1*000010*100*PC*21.25**VN*VNDR-PRDTID*MF*MANU-PRDTID*UP*UPC-
PRDTID*UK*GTIN-PRDTID*PI*CUST-PRDTID*N4*NDC542-PRDTID*N3*NDC541-
PRDTID*N2*NDC532-PRDTID*FV*DIN-PRDTID*N1*NDC442-PRDTID
PID*F****Product Description 001
ACK*AA*100*01*001*20231113**00*ACK08
CTT*15
SE*59*0001
GE*1*619827
IEA*1*000619827
```

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