



TRACELINK UNIVERSITY

**Home**

**Resources**

**TraceLink University**

## Product activities APIs

The product activities report is routinely distributed to trading partners, suppliers, or upstream supply chain partners. The product activities report is issued either at set intervals or in response to significant deviations in inventory levels outside the normal schedule. The report's data enables trading partners to assess inventory levels and plan for replenishment needs accurately. By analyzing product activities data, trading partners can forecast necessary shipping quantities or propose optimal replenishment quantities for distribution centers, warehouses, or retail locations.

Recipients of this transaction set are responsible for maintaining inventory and product movement records specific to each trading partner. This record-keeping process facilitates informed replenishment calculations, leveraging data provided by distributors, warehouses, or retailers. Such information allows trading partners to efficiently manage stock levels and fulfill demand while avoiding stock outs or overstock situations.

A product activities report primarily tracks two factors: current inventory levels and product sales data (often from Point of Sale systems).

## Product activities (IDoc)

The product activities IDoc message sends transfer of stock and sales data

information between SAP systems or none SAP systems via an IDoc basic type message.



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

- **Message Type:** MPC\_PRODUCT\_ACTIVITY
- **IDoc Format:** PROACT.PROACT01
- **Transform Names:**
  - B2B\_IDoc\_PROACT\_PROACT01\_ProductActivity\_OB\_V2



Review TraceLink's **API: Terms of Use**

## Product activities (X12)

The product activities X12 message comprises of essential data elements that provide valuable insights into product activities.



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

- **Message Type:** MPC\_PRODUCT\_ACTIVITY
- **X12 Format:** 852
- **Transform Names:**
  - B2B\_EDI\_X12\_852\_ProductActivity\_IB\_V2

### Guidelines

Input Element	Occurs	Length	Description	Example
ISA	1...1	-	<b>Required.</b> ISA interchange envelope.	-
ISA01	1...1	1/2	<b>Required.</b> Qualifier for authorization control number in ISA02.	00
ISA02	1...1	1/10	<b>Required.</b> 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	1/2	<b>Required.</b> Qualifier for security information in ISA04.	00
ISA04	1...1	1/10	<b>Required.</b> Identifies security information about the interchange sender or data.	-

Input Element	Occurs	Length	Description	Example
ISA05	1...1	1/2	<p><b>Required.</b> Interchange sender partner ID qualifier.</p> <p><b>Valid values:</b></p> <ul style="list-style-type: none"> <li>• 01 – Duns (Dun &amp; Bradstreet).</li> <li>• 02 – Standard Carrier Alpha Code.</li> <li>• 03 – Federal Maritime Commission.</li> <li>• 04 – International Air Transport Association.</li> <li>• 07 – Global Location Number (GLN).</li> <li>• 08 – UCC EDI Communications ID (Comm ID).</li> <li>• 09 – X.121 (CCITT).</li> <li>• 10 – Department of Defense (DoD) Activity Address Code.</li> <li>• 11 – Drug Enforcement Administration identifier.</li> <li>• 12 – Telephone Companies.</li> <li>• 13 – Used for UCS Transmissions. Includes Area Code and Telephone Number of a Modem.</li> <li>• 14 – Duns Plus Suffix.</li> <li>• 15 – Petroleum Accountants Society of Canada Company Code.</li> <li>• 16 – DINS Number With 4-Character Suffix.</li> <li>• 17 – American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit).</li> <li>• 18 – Association of American Railroads (AAR) Standard Distribution Code.</li> <li>• 19 – EDI Council of Australia (EDICA) Communications ID Number (COMM ID).</li> <li>• 20 – Health Industry Number (HIN).</li> <li>• 21 – Integrated Postsecondary Education Data System.</li> <li>• 22 – Federal Interagency Commission on Education, or FICE.</li> <li>• 23 – National Center for Education Statistics Common Core of Data 12-Digit Number for Pre-K-Grade 12 Institutes.</li> <li>• 24 – The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP.</li> <li>• 25 – 4-Digit Code of Postsecondary Institutions.</li> <li>• 26 – Statistics of Canada List of Postsecondary Institutions.</li> <li>• 27 – Carrier Identification Number as assigned by Health Care Financing Administration (HCFA).</li> <li>• 28 – Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA).</li> <li>• 29 – Medicare Provider and Supplier Identification Number assigned by Health Care Financing Administration (HCFA).</li> <li>• 30 – U.S. Federal Tax Identification Number.</li> <li>• 31 – Jurisdiction Identification Number Plus 4 assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC).</li> <li>• 32 – U.S. Federal Employer Identification Number (FEIN).</li> <li>• 33 – National Association of Insurance Commissioners Company Code (NAIC).</li> <li>• 34 – Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA).</li> <li>• 35 – Statistics Canada Canadian College Student Information System Institution Codes</li> <li>• 36 – Statistics Canada University Student Information System Institution Codes.</li> <li>• 37 – Society of Property Information Compilers and Analysts (SPICA).</li> <li>• 38 – The College Board and ACT, Inc. 6-Digit Code List of Secondary Institutions.</li> <li>• AM – Association Mexicana delCodigo de Producto (AMECOP) Communication ID.</li> <li>• NR – National Retail Merchants Association (NRMA) - Assigned.</li> <li>• SA – User Identification Number as assigned by the Safety and the Fitness Electronic Records (SAFER) System.</li> <li>• SN – Standard Address Number.</li> <li>• ZZ – Mutually Defined.</li> </ul>	07
ISA06	1...1	1/15	<p><b>Required.</b> Interchange sender identification mapping to:</p> <ul style="list-style-type: none"> <li>• fileSenderNumber with party type defined in ISA05</li> <li>• linkIdentifier</li> <li>• x12InterchangeControlEnvelope for sender in X12 control file header</li> </ul>	7777776067344

Input Element	Occurs	Length	Description	Example
ISA07	1...1	1/2	<p><b>Required.</b> Interchange receiver partner ID qualifier.</p> <p><b>Valid values:</b></p> <ul style="list-style-type: none"> <li>• 01 – Duns (Dun &amp; Bradstreet).</li> <li>• 02 – Standard Carrier Alpha Code.</li> <li>• 03 – Federal Maritime Commission.</li> <li>• 04 – International Air Transport Association.</li> <li>• 07 – Global Location Number (GLN).</li> <li>• 08 – UCC EDI Communications ID (Comm ID).</li> <li>• 09 – X.121 (CCITT).</li> <li>• 10 – Department of Defense (DoD) Activity Address Code.</li> <li>• 11 – Drug Enforcement Administration identifier.</li> <li>• 12 – Telephone Companies.</li> <li>• 13 – Used for UCS Transmissions. Includes Area Code and Telephone Number of a Modem.</li> <li>• 14 – Duns Plus Suffix.</li> <li>• 15 – Petroleum Accountants Society of Canada Company Code.</li> <li>• 16 – DINS Number With 4-Character Suffix.</li> <li>• 17 – American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit).</li> <li>• 18 – Association of American Railroads (AAR) Standard Distribution Code.</li> <li>• 19 – EDI Council of Australia (EDICA) Communications ID Number (COMM ID).</li> <li>• 20 – Health Industry Number (HIN).</li> <li>• 21 – Integrated Postsecondary Education Data System.</li> <li>• 22 – Federal Interagency Commission on Education, or FICE.</li> <li>• 23 – National Center for Education Statistics Common Core of Data 12-Digit Number for Pre-K-Grade 12 Institutes.</li> <li>• 24 – The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP.</li> <li>• 25 – 4-Digit Code of Postsecondary Institutions.</li> <li>• 26 – Statistics of Canada List of Postsecondary Institutions.</li> <li>• 27 – Carrier Identification Number as assigned by Health Care Financing Administration (HCFA).</li> <li>• 28 – Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA).</li> <li>• 29 – Medicare Provider and Supplier Identification Number assigned by Health Care Financing Administration (HCFA).</li> <li>• 30 – U.S. Federal Tax Identification Number.</li> <li>• 31 – Jurisdiction Identification Number Plus 4 assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC).</li> <li>• 32 – U.S. Federal Employer Identification Number (FEIN).</li> <li>• 33 – National Association of Insurance Commissioners Company Code (NAIC).</li> <li>• 34 – Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA).</li> <li>• 35 – Statistics Canada Canadian College Student Information System Institution Codes</li> <li>• 36 – Statistics Canada University Student Information System Institution Codes.</li> <li>• 37 – Society of Property Information Compilers and Analysts (SPICA).</li> <li>• 38 – The College Board and ACT, Inc. 6-Digit Code List of Secondary Institutions.</li> <li>• AM – Association Mexicana delCodigo de Producto (AMECOP) Communication ID.</li> <li>• NR – National Retail Merchants Association (NRMA) - Assigned.</li> <li>• SA – User Identification Number as assigned by the Safety and the Fitness Electronic Records (SAFER) System.</li> <li>• SN – Standard Address Number.</li> <li>• ZZ – Mutually Defined.</li> </ul>	01
ISA08	1...1	1/15	<p><b>Required.</b> EDI receiver ID mapping to file control header and to ServiceLinkId.</p> <p>Interchange receiver identification mapping to ediInterchangePartyValue for receiver in X12 control file header.</p>	888888404358877
ISA09	1...1	6/6	<b>Required.</b> Interchange date in 6 char YYMMDD format.	241020
ISA10	1...1	4/4	<b>Required.</b> Interchange time in 4 char HHMM format	1420

Input Element	Occurs	Length	Description	Example
ISA11	1...1	1/1	<b>Required.</b> This value is dependent on X12 version. • Version 4012 and earlier, this is the interchange control standards identifier. The valid value is 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	<b>Required.</b> Interchange control version number. This could be any X12 version.	00501
ISA13	1...1	1/9	<b>Required.</b> Interchange Control Number mapping to file control header.	000000000619827
ISA14	1...1	1/1	<b>Required.</b> Interchange level acknowledgment requested. Valid values: • 0 - No acknowledgment requested • 1 - Interchange level acknowledgment requested	0
ISA15	1...1	1/1	<b>Required.</b> 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	<b>Required.</b> 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	-	<b>Required.</b> GS group functional envelope. Child of ISA. Only one GS group expected per interchange.	-
GS01	1...1	2/2	<b>Required.</b> GS group function code. Valid value is PD - Product Activity data X12 852	PD
GS02	1...1	2/15	<b>Required.</b> Application Sender's Code.	222224043588
GS03	1...1	2/15	<b>Required.</b> Application Receiver's Code.	TRACELINK
GS04	1...1	8/8	<b>Required.</b> Current date stamp in 8 char X12 date format YYYYMMDD.	20241020
GS05	1...1	4/8	<b>Required.</b> Current time stamp in 6 char X12 time format HHMMSS.	142000
GS06	1...1	1/9	<b>Required.</b> Group Control ID Number.	619827
GS07	1...1	1/2	<b>Required.</b> Responsible Agency Code. Valid values: • T - Transportation Data Coordinating Committee (TDCC) • X - Accredited Standards Committee X12	X
GS08	1...1	1/12	<b>Required.</b> X12 message version code. This could be any X12 version.	005010
ST	1...1	-	<b>Required.</b> ST transaction set envelope. Child of GS group. Only one ST transaction expected.	-
ST01	1...1	3/3	<b>Required.</b> Transaction set identifier code.	852
ST02	1...1	4/9	<b>Required.</b> Transaction set ID number. Counter for each ST segment beginning with 1.	0001
XQ	1...1	-	<b>Required.</b> Product activity message begin segment.	-
XQ01	1...1	1/2	<b>Required.</b> Code identifying purpose of product activity transaction set. Valid Values: • G - Plan orders and ship product • H - Notification only • F - Suggested purchase order numbers	G
XQ02	1...1	8/8	<b>Required.</b> Date. If the product activity transaction includes only one date at the header level, this represents the report date. If there is a date range the fromDate represents the start date of the date range.	20241020
XQ03	0...1	8/8	Date. If present, this is the end date of a date range.	20241120
XQ04	0...1	0/80	Reference Identification, a unique report identifier sent by the sender.	PA123
XPO	0...*	-	Preassigned purchase order number. Suggested PO numbers for a VMI relationship will be sent in this segment.	-
XPO01	1...1	1/22	<b>Required.</b> Suggested purchase order number. If a range of suggested PO numbers is sent, this attribute would store the first number in the range. If XPO segment present, XPO01 is required.	5505869746
XPO02	0...1	1/22	The last purchase order number when a range of suggested purchase order numbers is sent.	5505869950

Input Element	Occurs	Length	Description	Example
XPO03	0...1	1/2	Company identifier code qualifier. If XPO04 populated, then XPO03 is required. Valid values: <ul style="list-style-type: none"> <li>• 1 - DUNS</li> <li>• 2 - SCAC</li> <li>• 9 - DUNS+4</li> <li>• 11 - Drug Enforcement Agency registration number</li> <li>• 21 - Health Industry Number</li> <li>• 91 - Company identifier</li> <li>• 92 - Company location identifier</li> <li>• UL - Global Location Number</li> <li>• PI - US_340B_ID</li> <li>• PP - Pharmacy_Processor_Number</li> </ul>	91
XPO04	0...1	2/80	Company identifier value for business partner If XPO03 populated, then XPO03 is required.	0673452050
N9	0...*	-	Extended reference information segment.	-
N901	1...1	2/3	<b>Required.</b> Reference identification qualifier. Specifies the type of identifier recorded. Valid values: <ul style="list-style-type: none"> <li>• IA - Internal vendor identifier</li> <li>• VR- Vendor identifier</li> </ul> If N9 Segment populated, then N901 is required.	IA
N902	0...1	1/80	Reference identifier as specified by the reference identification qualifier in N901. If N901 is populated then N902 is required.	6878425871
N1	0...*	-	N1 name segment loop for the reporting location identifier and address information.	-
N101	1...1	2/3	<b>Required.</b> Entity qualifier for the reporting location identifier and address information. Valid value: <ul style="list-style-type: none"> <li>• RL - Reporting location</li> <li>• SU - Supplier party</li> <li>• SF - Ship from party</li> <li>• BY - Buyer party</li> <li>• ST - Ship to party</li> <li>• DB - Distributor branch party</li> <li>• DS - Distributor party</li> </ul> If N1 segment populated, then N101 is required.	RL
N102	0...1	1/60	Name	Contract Service Provider
N103	0...1	1/2	Identifier code qualifier. If N104 populated, then N103 is required. Valid values: <ul style="list-style-type: none"> <li>• 1 - DUNS</li> <li>• 2 - SCAC</li> <li>• 9 - DUNS+4</li> <li>• 11 - Drug Enforcement Agency registration number</li> <li>• 21 - Health Industry Number</li> <li>• 91 - Company identifier</li> <li>• 92 - Company location identifier</li> <li>• UL - Global Location Number</li> <li>• PI - US_340B_ID</li> <li>• PP - Pharmacy_Processor_Number</li> </ul>	UL
N104	0...1	2/80	Party identifier as qualified by N103 mapping to companyIdentifierValue. If N103 populated, then N104 is required.	8568745
N3	0...2	-	N3: Address: Child of supplier party N1 name segment.	-
N301	1...1	1/55	<b>Required.</b> Street address 1.	555 Neelan Road
N302	0...1	1/55	Street address 2.	Suite 123
N4	0...1	-	N4: Geographic Location. Child of supplier party N1 name segment.	-

Input Element	Occurs	Length	Description	Example
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
LIN	1...*	-	<b>Required.</b> Baseline item data for product activity report.	-
LIN01	0...1	1/20	Line item number.	000010
LIN02	1...1	2/2	<b>Required.</b> Product or service identifier qualifier. <b>Valid values</b> <ul style="list-style-type: none"> <li>• BP – Customer's material number</li> <li>• CB – Buyer Catalog</li> <li>• EN – EAN 2-5-5-1</li> <li>• FV – Canada product number</li> <li>• IN – Customer's(Buyer's) product item number</li> <li>• MF – Manufacturer's product number</li> <li>• N1 – US National-Drug-Code-NDC442-with-hyphen-separators</li> <li>• N2 – US National-Drug-Code-NDC532-with-hyphen-separators</li> <li>• N3 – US National-Drug-Code-NDC541-with-hyphen-separators</li> <li>• N4 – US-National-Drug-Code-NDC542-with-hyphen-separators</li> <li>• N5 – US National Health Related Item Code with hypen separator with 5 and characters</li> <li>• N6 – US National Health Related Item Code with hypen separators with 6 and 4 characters</li> <li>• NH – US National Health Related Item Code</li> <li>• SK – Stock keeping unit</li> <li>• UA – UPC Case Code (2-5-5)</li> <li>• UI – UPC Consumer Package Code (1-5-5)</li> <li>• UK – GTIN14 identifier</li> <li>• UP – EAN/UPC Universal Item Number/GTIN12</li> <li>• UX – Universal product number</li> <li>• VC – Vendor (Supplier) material number</li> <li>• VN – Supplier material number.</li> </ul>	BP
LIN03	1...1	1/80	<b>Required.</b> Product/service identifier value as qualifier by LIN02.	100021
LIN04	0...1	2/2	Product or service identifier qualifier. If LIN05 populated, then LIN04 is required. <b>Valid values</b> <ul style="list-style-type: none"> <li>• BP – Customer's material number</li> <li>• CB – Buyer Catalog</li> <li>• EN – EAN 2-5-5-1</li> <li>• FV – Canada product number</li> <li>• IN – Customer's(Buyer's) product item number</li> <li>• MF – Manufacturer's product number</li> <li>• N1 – US National-Drug-Code-NDC442-with-hyphen-separators</li> <li>• N2 – US National-Drug-Code-NDC532-with-hyphen-separators</li> <li>• N3 – US National-Drug-Code-NDC541-with-hyphen-separators</li> <li>• N4 – US-National-Drug-Code-NDC542-with-hyphen-separators</li> <li>• N5 – US National Health Related Item Code with hypen separator with 5 and characters</li> <li>• N6 – US National Health Related Item Code with hypen separators with 6 and 4 characters</li> <li>• NH – US National Health Related Item Code</li> <li>• SK – Stock keeping unit</li> <li>• UA – UPC Case Code (2-5-5)</li> <li>• UI – UPC Consumer Package Code (1-5-5)</li> <li>• UK – GTIN14 identifier</li> <li>• UP – EAN/UPC Universal Item Number/GTIN12</li> <li>• UX – Universal product number</li> <li>• VC – Vendor (Supplier) material number</li> <li>• VN – Supplier material number.</li> </ul>	VN
LIN05	0...1	1/80	Product/service identifier value as qualifier by LIN04. If LIN04 populated, then LIN05 is required.	1000818

Input Element	Occurs	Length	Description	Example
LIN06	0...1	2/2	<p>Product or service identifier qualifier. If LIN07 populated, then LIN06 is required.</p> <p><b>Valid values</b></p> <ul style="list-style-type: none"> <li>• BP – Customer's material number</li> <li>• CB – Buyer Catalog</li> <li>• EN – EAN 2-5-5-1</li> <li>• FV – Canada product number</li> <li>• IN – Customer's(Buyer's) product item number</li> <li>• MF – Manufacturer's product number</li> <li>• N1 – US National-Drug-Code-NDC442-with-hyphen-separators</li> <li>• N2 – US National-Drug-Code-NDC532-with-hyphen-separators</li> <li>• N3 – US National-Drug-Code-NDC541-with-hyphen-separators</li> <li>• N4 – US-National-Drug-Code-NDC542-with-hyphen-separators</li> <li>• N5 – US National Health Related Item Code with hyphen separator with 5 and characters</li> <li>• N6 – US National Health Related Item Code with hyphen separators with 6 and 4 characters</li> <li>• NH – US National Health Related Item Code</li> <li>• SK – Stock keeping unit</li> <li>• UA – UPC Case Code (2-5-5)</li> <li>• UI – UPC Consumer Package Code (1-5-5)</li> <li>• UK – GTIN14 identifier</li> <li>• UP – EAN/UPC Universal Item Number/GTIN12</li> <li>• UX – Universal product number</li> <li>• VC – Vendor (Supplier) material number</li> <li>• VN – Supplier material number.</li> </ul>	UK
LIN07	0...1	1/80	Product/service identifier value as qualifier by LIN06. If LIN06 populated, then LIN07 is required.	00002541789536
LIN08	0...1	2/2	<p>Product/service identifier value as qualifier by LIN09. If LIN09 populated, then LIN08 is required.</p> <p><b>Valid values</b></p> <ul style="list-style-type: none"> <li>• BP – Customer's material number</li> <li>• CB – Buyer Catalog</li> <li>• EN – EAN 2-5-5-1</li> <li>• FV – Canada product number</li> <li>• IN – Customer's(Buyer's) product item number</li> <li>• MF – Manufacturer's product number</li> <li>• N1 – US National-Drug-Code-NDC442-with-hyphen-separators</li> <li>• N2 – US National-Drug-Code-NDC532-with-hyphen-separators</li> <li>• N3 – US National-Drug-Code-NDC541-with-hyphen-separators</li> <li>• N4 – US-National-Drug-Code-NDC542-with-hyphen-separators</li> <li>• N5 – US National Health Related Item Code with hyphen separator with 5 and characters</li> <li>• N6 – US National Health Related Item Code with hyphen separators with 6 and 4 characters</li> <li>• NH – US National Health Related Item Code</li> <li>• SK – Stock keeping unit</li> <li>• UA – UPC Case Code (2-5-5)</li> <li>• UI – UPC Consumer Package Code (1-5-5)</li> <li>• UK – GTIN14 identifier</li> <li>• UP – EAN/UPC Universal Item Number/GTIN12</li> <li>• UX – Universal product number</li> <li>• VC – Vendor (Supplier) material number</li> <li>• VN – Supplier material number.</li> </ul>	UP
LIN09	0...1	1/80	Product/service identifier value as qualifier by LIN08. If LIN08 populated, then LIN09 is required.	000025417895
PO4	0...1	-	Specifies physical qualities, packaging, weights, and dimensions relating for the product.	-
PO401	0...1	1/6	The number of inner containers, or number of eaches if there are no inner containers, per outer container.	12
ZA	1...*	-	<b>Required.</b> Product activity reporting. Provides activity details for the current product being reported.	-



Input Element	Occurs	Length	Description	Example
ZA01	1...1	2/2	<p><b>Required.</b> Code identifying activity details for the product being reported.</p> <p><b>Valid values:</b></p> <ul style="list-style-type: none"> <li>• AA - STOLEN</li> <li>• AB - SHIPPED</li> <li>• BS - DELIVERYLEADTIME</li> <li>• BT - SEASONAL</li> <li>• DG - LOSTSALESDAMAGED</li> <li>• HL - ONHOLD</li> <li>• LS- UNFULFILLEDSALES</li> <li>• MS - LEADTIMEVARIANCE</li> <li>• OF - DROPSHIPED</li> <li>• OH - RETURNEDTOMANUFACTURER</li> <li>• OP - REPACKEDSALES</li> <li>• OQ - PLANNEDORDER</li> <li>• PA - DEVIATION</li> <li>• P0 - REORDERPOINT</li> <li>• Q1 - NETSOLD</li> <li>• Q2 - RETURNEDTODISTRIBUTOR</li> <li>• Q3 - DEFECTIVERETURNS</li> <li>• Q4 - ORDERED</li> <li>• QA- UNRESTRICTED</li> <li>• QB - ONHAND</li> <li>• QC - COMMITED</li> <li>• QD - FORECASTSALESDEMAND</li> <li>• QE - ENDINGBALANCE</li> <li>• QF - ADJUSTEDSERVICELEVEL</li> <li>• QH - MORGUEINVENTORY</li> <li>• QI - INTRANSIT</li> <li>• QK - TRADINGCOMPANYSALES</li> <li>• QL - MINIMUMINVENTORY</li> <li>• QM - MAXIMUMINVENTORY</li> <li>• QN - PLANNEDINVENTORY</li> <li>• QO - OUTFSTOCK</li> <li>• QP - ONORDER</li> <li>• QR - RECEIVED</li> <li>• QS - TOTALSOLD</li> <li>• QT - ADJUSTMENT</li> <li>• QU - RETURNEDBYCONSUMER</li> <li>• QW - TOTALWITHDRAWN</li> <li>• QX - REPLENISHMENTOVERRIDE</li> <li>• QZ - TRANSFERRED</li> <li>• RE - RETAILSLES</li> <li>• RQ - TOTALRETURNED</li> <li>• TS - TOTALSALES</li> <li>• WQ - WHOLESALE</li> </ul>	HL
ZA02	0...1	1/15	Quantity of product Conditionally Required - At least one quantity must be present in either ZA02 or SDQ segment.	25.00

Input Element	Occurs	Length	Description	Example
ZA03	0...1	2/2	<p>Unit of measure used for pricing.</p> <p><b>Valid values</b></p> <ul style="list-style-type: none"> <li>◦ 02 - Statute Mile</li> <li>◦ 4G - Microliter</li> <li>◦ AM - Ampoule</li> <li>◦ AV - Capsule</li> <li>◦ BD - Bundle</li> <li>◦ BG - Bag</li> <li>◦ B0 - Bottle</li> <li>◦ BX - Box</li> <li>◦ C3 - Centiliter</li> <li>◦ C8 - Cubic decimeters</li> <li>◦ CA - Case</li> <li>◦ CC - Cubic Centimeter</li> <li>◦ CF - Cubic Feet</li> <li>◦ CG - Card Blister</li> <li>◦ CH - Container</li> <li>◦ CI - Cubic Inches</li> <li>◦ CL - Cylinder</li> <li>◦ CM - Centimeter</li> <li>◦ CN - Can</li> <li>◦ CP - Crate</li> <li>◦ CQ - Cartridge</li> <li>◦ CR - Cubic Meters</li> <li>◦ CT - Carton</li> <li>◦ DA - Day</li> <li>◦ DI - Dispenser</li> <li>◦ DK - Kilometers</li> <li>◦ DL - Deciliter</li> <li>◦ DM - Decimeter</li> <li>◦ DR - Drum</li> <li>◦ DS - Display</li> <li>◦ DZ - Dozen</li> <li>◦ EA - Each</li> <li>◦ F0 - US Fluid Ounce</li> <li>◦ FT - Foot</li> <li>◦ GA - US Gallon</li> <li>◦ GL - Gram/Liter</li> <li>◦ GR - Gram</li> <li>◦ GS - Gross</li> <li>◦ H4 - Hectoliter</li> <li>◦ HF - Hundred Feet</li> <li>◦ HR - Hours</li> <li>◦ IN - Inch</li> <li>◦ K6 - Kiloliters</li> <li>◦ KG - Kilogram</li> <li>◦ KT - Kit</li> <li>◦ LB - US Pound</li> <li>◦ LF - Linear Foot</li> <li>◦ L0 - Lot (unit of procurement)</li> <li>◦ LT - Liter</li> <li>◦ LY - Linear Yard</li> <li>◦ MC - Microgram</li> <li>◦ ME - Milligram</li> <li>◦ ML - Milliliter</li> <li>◦ MM - Millimeter</li> <li>◦ M0 - Months</li> <li>◦ MQ - Cubic millimeter</li> <li>◦ MR - Meter</li> <li>◦ OZ - Ounce</li> <li>◦ P1 - Percent</li> <li>◦ PC - Piece</li> <li>◦ PF - Pallet</li> <li>◦ PK - Pack (Only supported Outbound)</li> <li>◦ PK - Package</li> <li>◦ PR - Pair</li> <li>◦ PT - Pint</li> <li>◦ QT - Quart</li> <li>◦ RL - Roll</li> <li>◦ SC - Square Centimeter</li> <li>◦ SF - Square Foot</li> <li>◦ SH - Sheet</li> <li>◦ SI - Square Inch</li> <li>◦ SM - Square Meter</li> <li>◦ SP - Self Package</li> <li>◦ ST - Set</li> <li>◦ SY - Square Yard</li> <li>◦ SZ - Syringe</li> <li>◦ T3 - Thousand Pieces</li> <li>◦ TB - Tube</li> <li>◦ TH - Thousands</li> <li>◦ TN - Tonne</li> <li>◦ TS - Thousands</li> <li>◦ TY - Tray</li> <li>◦ U2 - Tablet</li> <li>◦ UM - Million</li> <li>◦ UN - Unit</li> <li>◦ US - Dosage Form</li> <li>◦ V2 - Pouch</li> <li>◦ VI - Vial</li> <li>◦ WK - Week</li> <li>◦ YD - Yard</li> <li>◦ YR - Years</li> </ul> <p>If ZA02 populated, then ZA03 is required.</p>	EA

Input Element	Occurs	Length	Description	Example
ZA04	0...1	3/3	Date type for date recorded in product activity details. Valid values: <ul style="list-style-type: none"> <li>002 - DELIVERYREQUESTED</li> <li>006 - EFFECTIVE</li> <li>007 - SOLD</li> </ul> If ZA05 populated, then ZA04 is required.	002
ZA05	0...1	8/8	Date recorded in product activity details. If ZA04 populated, then ZA05 is required.	20241020
ZA06	0...1	2/3	Referenced document identification qualifier. Mapping purchase order number. Valid value is P0 - PURCHASEORDER If ZA07 populated, then ZA06 is required.	PO
ZA07	0...1	1/80	Referenced document identifier value. Purchase order number. If ZA06 populated, then ZA07 is required.	7065172002
SDQ	0...*	-	SDQ: Destination quantity segment. Specifies location destination for product and quantity to be shipped to that location. Conditionally Required - At least one quantity must be present in either ZA02 or SDQ segment.	-

Input Element	Occurs	Length	Description	Example
SDQ01	1...1	2/2	<p><b>Required.</b> Unit of measure for SDQ segment quantity. If SDQ segment populated, then SDQ01 is required.</p> <p><b>Valid values</b></p> <ul style="list-style-type: none"> <li>◦ 02 - Statute Mile</li> <li>◦ 4G - Microliter</li> <li>◦ AM - Ampoule</li> <li>◦ AV - Capsule</li> <li>◦ BD - Bundle</li> <li>◦ BG - Bag</li> <li>◦ B0 - Bottle</li> <li>◦ BX - Box</li> <li>◦ C3 - Centiliter</li> <li>◦ C8 - Cubic decimeters</li> <li>◦ CA - Case</li> <li>◦ CC - Cubic Centimeter</li> <li>◦ CF - Cubic Feet</li> <li>◦ CG - Card Blister</li> <li>◦ CH - Container</li> <li>◦ CI - Cubic Inches</li> <li>◦ CL - Cylinder</li> <li>◦ CM - Centimeter</li> <li>◦ CN - Can</li> <li>◦ CP - Crate</li> <li>◦ CQ - Cartridge</li> <li>◦ CR - Cubic Meters</li> <li>◦ CT - Carton</li> <li>◦ DA - Day</li> <li>◦ DI - Dispenser</li> <li>◦ DK - Kilometers</li> <li>◦ DL - Deciliter</li> <li>◦ DM - Decimeter</li> <li>◦ DR - Drum</li> <li>◦ DS - Display</li> <li>◦ DZ - Dozen</li> <li>◦ EA - Each</li> <li>◦ F0 - US Fluid Ounce</li> <li>◦ FT - Foot</li> <li>◦ GA - US Gallon</li> <li>◦ GL - Gram/Liter</li> <li>◦ GR - Gram</li> <li>◦ GS - Gross</li> <li>◦ H4 - Hectoliter</li> <li>◦ HF - Hundred Feet</li> <li>◦ HR - Hours</li> <li>◦ IN - Inch</li> <li>◦ K6 - Kiloliters</li> <li>◦ KG - Kilogram</li> <li>◦ KT - Kit</li> <li>◦ LB - US Pound</li> <li>◦ LF - Linear Foot</li> <li>◦ L0 - Lot (unit of procurement)</li> <li>◦ LT - Liter</li> <li>◦ LY - Linear Yard</li> <li>◦ MC - Microgram</li> <li>◦ ME - Milligram</li> <li>◦ ML - Milliliter</li> <li>◦ MM - Millimeter</li> <li>◦ M0 - Months</li> <li>◦ MQ - Cubic millimeter</li> <li>◦ MR - Meter</li> <li>◦ OZ - Ounce</li> <li>◦ P1 - Percent</li> <li>◦ PC - Piece</li> <li>◦ PF - Pallet</li> <li>◦ PK - Pack (Only supported Outbound)</li> <li>◦ PK - Package</li> <li>◦ PR - Pair</li> <li>◦ PT - Pint</li> <li>◦ QT - Quart</li> <li>◦ RL - Roll</li> <li>◦ SC - Square Centimeter</li> <li>◦ SF - Square Foot</li> <li>◦ SH - Sheet</li> <li>◦ SI - Square Inch</li> <li>◦ SM - Square Meter</li> <li>◦ SP - Self Package</li> <li>◦ ST - Set</li> <li>◦ SY - Square Yard</li> <li>◦ SZ - Syringe</li> <li>◦ T3 - Thousand Pieces</li> <li>◦ TB - Tube</li> <li>◦ TH - Thousands</li> <li>◦ TN - Tonne</li> <li>◦ TS - Thousands</li> <li>◦ TY - Tray</li> <li>◦ U2 - Tablet</li> <li>◦ UM - Million</li> <li>◦ UN - Unit</li> <li>◦ US - Dosage Form</li> <li>◦ V2 - Pouch</li> <li>◦ VI - Vial</li> <li>◦ WK - Week</li> <li>◦ YD - Yard</li> <li>◦ YR - Years</li> </ul>	EA

Input Element	Occurs	Length	Description	Example
SDQ02	0...1	1/2	Location identification code qualifier. If SDQ Segment populated, the SDQ02 is required. Valid values: <ul style="list-style-type: none"> <li>1 - DUNS</li> <li>2 - SCAC</li> <li>9 - DUNS+4</li> <li>11 - Drug Enforcement Agency registration number</li> <li>21 - Health Industry Number</li> <li>91 - Company identifier</li> <li>92 - Company location identifier</li> <li>UL - Global Location Number</li> <li>PI - US_340B_ID</li> <li>PP - Pharmacy_Processor_Number</li> </ul>	92
SDQ03	1...1	2/80	<b>Required.</b> Location identification code value. If SDQ Segment populated, the SDQ03 is required.	000258745
SDQ04	1...1	1/15	<b>Required.</b> Quantity if SDQ segment populated, then SDQ05 is required.	1000
SDQ05	0...1	2/80	Location identification code value.	000258746
SDQ06	0...1	1/15	Quantity.	500
SDQ07	0...1	2/80	Location identification code value.	000258747
SDQ08	0...1	1/15	Quantity.	750
SDQ09	0...1	2/80	Location identification code value.	000258748
SDQ10	0...1	1/15	Quantity .	800
SDQ11	0...1	2/80	Location identification code value.	000258749
SDQ12	0...1	1/15	Quantity	690
SDQ13	0...1	2/80	Location identification code value.	000258750
SDQ14	0...1	1/15	Quantity.	450
SDQ15	0...1	2/80	Location identification code value.	000258751
SDQ16	0...1	1/15	Quantity.	825
SDQ17	0...1	2/80	Location identification code value.	000258752
SDQ18	0...1	1/15	Quantity.	825
SDQ19	0...1	2/80	Location identification code value.	000258753
SDQ20	0...1	1/15	Quantity.	675
SDQ21	0...1	2/80	Location identification code value.	000258754
SDQ22	0...1	1/15	Quantity.	380
CTT	1...1	-	<b>Required.</b> Transaction totals segment.	-
CTT01	1...1	1/6	<b>Required.</b> Total number of line items. Count of LIN segments.	12
SE	1...1	-	<b>Required.</b> ST ... SE transaction set trailer envelope. Child of GS group. Only one ST transaction expected.	-
SE01	1...1	1/10	<b>Required.</b> Total count of segments in ST ... SE transaction set including ST and SE segments.	10
SE02	1...1	4/9	<b>Required.</b> Transaction set control number.	0001
GE	1...1	-	<b>Required.</b> GS ... GE functional group trailer envelope. Child of ISA interchange. Only one GS group expected.	-
GE01	1...1	1/6	<b>Required.</b> Number of transaction sets in functional group.	5
GE02	1...1	1/9	<b>Required.</b> Functional group control number.	619827
IEA	1...1	-	<b>Required.</b> ISA ... IEA interchange control trailer envelope. Only one interchange expected per transmission.	-
IEA01	1...1	1/5	<b>Required.</b> Number of functional groups in interchange.	1
IEA02	1...1	9/9	<b>Required.</b> Interchange control number.	000000000619827

### Example

```

ISA*00* *00* *07*7777776067344
*01*888888404358877*240821*1709*^*00501*000619827*0*P*:~
GS*PD*2222224043588*TRACELINK*20240821*120546*619827*X*005010~
ST*852*0001~
XQ*G*20240820*20250820*ProdAct123~
XP0*5505869746*5505869950*1*0673452050~
N9*IA*6878425871~
N1*RL*Reporting_BusinessName*1*8568745~
N3*RL_address1*RL_address2~

```

N4\*RL\_City\*CA\*RL\_Postal\*US~  
N1\*SU\*Supplier\_BusinessName\*9\*8568745~  
N3\*SU\_address1\*SU\_address2~  
N4\*SU\_City\*CA\*SU\_Postal\*US~  
N1\*SF\*ShipFrom\_BusinessName\*11\*8568745~  
N3\*SF\_address1\*SF\_address2~  
N4\*SF\_City\*CA\*SF\_Postal\*US~  
N1\*BY\*Buyer\_BusinessName\*21\*8568745~  
N3\*BY\_address1\*BY\_address2~  
N4\*BY\_City\*CA\*BY\_Postal\*US~  
N1\*ST\*ShipTo\_BusinessName\*91\*8568745~  
N3\*ST\_address1\*ST\_address2~  
N4\*ST\_City\*CA\*ST\_Postal\*US~  
N1\*DB\*DistBranch\_BusinessName\*92\*8568745~  
N3\*DB\_address1\*DB\_address2~  
N4\*DB\_City\*CA\*DB\_Postal\*US~  
N1\*DS\*DistBuss\_BusinessName\*UL\*8568745~  
N3\*DS\_address1\*DS\_address2~  
N4\*DS\_City\*CA\*DS\_Postal\*US~  
LIN\*000010\*BP\*100021\*VC\*100022\*VN\*100023\*UJ\*100024~  
P04\*100~  
ZA\*AA\*25.00\*EA\*002\*20240820\*P0\*7065172002~  
SDQ\*CA\*1\*000258745\*1000\*000258746\*500\*000258747\*600\*000258748\*700\*0002  
58749\*800\*  
000258750\*900\*000258751\*400\*000258752\*300\*000258753\*200\*000258754\*100~  
CTT\*4~  
SE\*75\*s131~  
GE\*132\*133~  
IEA\*134\*135111111~



Review TraceLink's **API: Terms of Use**

## Related Content



### Intro to asynchronous messages

Asynchronous messages allow Owners and Partners to send large amounts of data back and forth, using different file formats (e.g.

**[View More](#)**



### **Remittance advice (X12)**

Buyers use remittance advices to notify suppliers of payment confirmation and details for one or more invoices.

**[View More](#)**



### **Remittance advice (IDoc)**

Buyers use remittance advices to notify suppliers of payment confirmation and details for one or more invoices.

**[View More](#)**