TRACELINK UNIVERSITY

Return authorization request (X12)

A Return Authorization Request is a formal request that asks a supplier to approve the return of products and issue a Return Authorization (RA) number along with instructions for the return. A Return Authorization Request is a message sent by a buyer or customer to a supplier requesting permission to return previously purchased goods.

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

- **Message Type**: MPC_RETURN_AUTHORIZATION_REQUEST
- **X12 Format**: 812
- **Transform Names**:
  - B2B_EDI_X12_180_ReturnAuthorizationRequest_IB_V1

Guidelines

Input Element	Occurs	Length	Description	Example
ISA	1...1	-	**Required.** ISA interchange envelope.	-
ISA01	1...1	2/2	**Required.** Qualifier for authorization control number in ISA02.	00
ISA02	1...1	10/10	**Required.** Information used for additional identification or authorization of the interchange sender or the data in the interchange/10 spaces a valid entry.	-
ISA03	1...1	2/2	**Required.** Qualifier for security information in ISA04.	00
ISA04	1...1	10/10	**Required.** Identifies security information about the interchange sender or data.	-
ISA05	1...1	2/2	**Required.** Interchange sender partner ID qualifier.	07
ISA06	1...1	15/15	**Required.** Interchange sender identification mapping to fileSenderNumber with party type defined in ISA05.	7777776067344
ISA07	1...1	2/2	**Required.** Interchange receiver partner ID qualifier.	01
ISA08	1...1	15/15	**Required.** EDI receiver ID mapping to file control header and to ServiceLinkId.	888888404358877
ISA09	1...1	6/6	**Required.** Interchange date in 6 char YYMMDD format.	241020
ISA10	1...1	4/4	**Required.** Interchange time in 4 char HHMM format.	1420

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
ISA11	1...1	1/1	**Required.** This value is dependent on X12 version. • `Version 4012 and earlier` - This is the interchange control standards identifier. Valid value 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	**Required.** Interchange control version number. This could be any X12 version.	00501
ISA13	1...1	9/9	**Required.** Instance 1 interchange Control Number mapping to 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...*	-	**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 AN - Return Merchandise Authorization and Notification X12 180.	AN
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.	20301020
GS05	1...1	4/8	**Required.** Current time stamp in 6 char X12 time format HHMMSS.	142000
GS06	1...1	1/9	**Required.** Group Control ID Number.	619827
GS07	1...1	1/2	**Required.** Responsible Agency Code. Valid values: • T - Transportation Data Coordinating Committee (TDCC) • X - Accredited Standards Committee X12	X
GS08	1...1	1/12	**Required.** X12 message version code. This could be any X12 version.	005010
ST	1...*	-	**Required.** ST transaction set envelope. Child of GS group. Only one ST transaction expected.	-
ST01	1...1	3/3	**Required.** Transaction set identifier code.	180
ST02	1...1	4/9	**Required.** Transaction set ID number. Counter for each ST segment beginning with 1.	0001
BGN	1...1	-	**Required.** Return authorization message begin segment.	-
BGN01	1...1	2/2	**Required.** Transaction set purpose code. Valid values: • 00 - ORIGINAL • 11 - RESPONSE • 13 - REQUEST • 14 - ADVANCENOTIFICATION • 17 - CANCELREISSUE • 22 - INFORMATION	13
BGN02	1...1	1/80	**Required.** Reference transaction identifier for the return authorization request. Valid enum mapping is RAREQ.	402356726
BGN03	1...1	8/8	**Required.** Date of return authorization request transaction identifier in date format YYYYMMDD.	20241020
BGN04	0...1	4/8	Time return authorization request transaction created in time format HHMMSS.	143005
RDR	0...1	-	Return disposition reasons.	-

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
RDR01	0...1	2/2	Returns disposition code. **Valid values:** • CR - CONSUMERTOSUPPLIER • DI - DISPOSE • KA - KEEPWITHALLOWANCE • KR - KEEPREPAIR • MW - MANUFACTURERWARRANTY • PA - PARTIALLYAUTHORIZED • RA - RETURNWITHRMA • RD - DENIED • RF - FACTORYREPAIR • RN - RETURNWITHOUTRMA • RP - AUTHORIZATIONPENDING • RT - SHIPTHIRDPARTY • SC - CHARITABLE • SD - SHIPFORDISPOSAL	RA
RDR02	0...1	2/2	Returns request reason code. **Valid values:** • BC - EXPIRED • CO - CUSTOMERERROR • CV - COLORVARIANCE • DA - DAMAGEDPRODUCT • DI - DISCONTINUED • DM - DEFECTIVE • DP - DEFECTIVEPACKAGING • DR - DEFECTIVERETURNED • DT - DAMAGEDINTRANSIT • EI - EXCESSINVENTORY • EO - ENDOFSEASON • EW - EXCESSIVEWEAR • LP - LABEL • MD - MARKDOWN • NA - NOTEXPECTED • OP - OUTDATEPACKAGING • PE - PRICINGERROR • PF - POORFIT • PR - PRODUCTRECALL • PS - SPOILED • PW - POORQUALITY • RE - RECALL • SD - SHORTDATED • SM - SAMPLES • SP - PASTCANCELDATE • SR - SURPLUSGOODS • ST - STYLE • TE -TERMINATED • WG - WRONGPRODUCT	DA

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
RDR03	0...1	2/2	Return response reason code. **Valid values:** • EW - INVALIDUSE • FR - SHIPMENTDAMAGE • IN - NOTDEFECTIVE • IO - ASORDERED • MI - MOREINFORMATION • NR - NORECORDOFSALE • OS - DISCONTINUED • PC - PRICEDISCREPANCY • PR - PHOTOREQUESTED • QD - QUANTITYDIFFERENCE • RR - REPAIR • RT - RETURNTIMELIMIT • SR - SAMPLEREQUESTED • UI - UNIDENTIFIABLE	OS
RDR04	0...1	0/80	Description of the return authorization request reason code.	Description
RDR05	0...1	1/1	Yes/No value that flags any special requirements for the return of a product, such as a state law requiring credit for partial returns. Valid values: • Y = yes • N = no (default)	N
DTM	0...*	-	DTM date segment for return authorization request at header level.	-
DTM01	1...1	3/3	**Required.** Date type qualifier for the processing date. Valid value: • 003 - Invoice • 004 - Purchase Order • 009 - Processing • 036 - Expiration • 050 - Received • 189 - Debit Advice • 324 - Returned This list may be expanded over time.	003
DTM02	0...1	8/8	Processing date in date format YYYYMMDD.	20241020
DTM03	0...1	4/8	Processing time in time format HHMMSS.	123422
N9	0...*	-	Extended reference information segment, for transaction identifiers.	-
N901	1...1	2/3	**Required.** Reference identification qualifier for the check number. Valid value: • PO - PURCHASEORDER • IK - INVOICE • OI - ORIGINALINVOICE • BT - BATCH • D1 - DEAORDER • DL - DEBITMEMO • GK - THIRDPARTYREFERENCE • RZ - RETURNAUTHORIZATION	PO
N902	0...1	1/80	Reference identifier value for the document or transaction identified by N901.	002621337
N903	0...1	1/45	Free form description.	-
N904	0...1	8/8	Date for transaction identifier in date format YYYY-MM-DD.	20241020
N905	0...1	4/8	Time transaction identifier created in time format HHMMSS.	123422
SAC	0...10	-	Service, promotion, allowance, or charge information.	-
SAC01	1...1	1/1	**Required.** Allowance or charge indicator code. Valid value is C - Charge	C
SAC02	0...1	1/80	Service, promotion, allowance, or charge code. Valid values: • D500 - HANDLING • F240 - PERITEM	D500
SAC05	0...1	1/15	Monetary amount.	235.00

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
SAC09	0...1	2/2	Unit of measure specifying the units in which a value is being expressed, or manner in which a measurement has been taken. **Valid values** • 02 – Statute Mile • 4G – Microliter • AM – Ampoule • AV – Capsule • BD – Bundle • BG – Bag • BO – Bottle • BX – Box • C3 – Centiliter • C8 – Cubic decimeters • 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 • 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 • MQ – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PK – Pack (Only supported Outbound) • 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

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
SAC10	0...1	4/8	Quantity: total number of units.	100.00
G38	0...1	-	Claim payment information for return authorization request.	-
G3801	1...1	1/18	**Required.** Monetary amount.	125.250
G3802	0...1	3/3	Payment method code. **Valid values:** • ACH - Automated clearing house • BKW - Book Entry • BOP - Financial Institution Option • CAS - Cash • CCC - Credit card • CCF - Collect Payment by Certified Funds • CCH - Bank check • CDA - Credit/Debit Account • CHK - Check • CLH - Clearinghouse • CPC - Collect Payment by Company Check • CWT - Clearing House Interbank Payment System (CHIPS) Funds/Wire Transfer • DCC - ACH Demand Cash Concentration/Disbursement (CCD) Credit • DCD - ACH Demand Cash Concentration/Disbursement (CCD) Debit • DEB - Debit Card • DLC - Pre-Arranged Payment or Deposit Plus Addendum (PPD+) Credit to a Demand Deposit Account • DLD - Pre-Arranged Payment or Deposit Plus Addendum (PPD+) Debit to a Demand Deposit Account • DXC - ACH Demand Corporate Trade Exchange (CTX) Credit • DXD - ACH Demand Corporate Trade Exchange (CTX) Debit • DYC - Pre-Arranged Payment or Deposit (PPD) Credit to a Demand Deposit Account • DYD - Pre-Arranged Payment or Deposit (PPD) Debit to a Demand Deposit Account • DZC - ACH Demand Cash Concentration/Disbursement Plus (CCD+) Credit • DZD - ACH Demand Cash Concentration/Disbursement Plus (CCD+) Debit • EBX - EDIBANX Clearing Network • EXC - 1035 Exchange • FEW - Federal Reserve Funds/Wire Transfer - Repetitive • FWT - Federal Reserve Funds/Wire Transfer - Nonrepetitive • FXP - Foreign Exchange Payments. Indicates that a foreign exchange contract must be executed to purchase the currency of payment before the payment is processed by the originating bank • IWT - International Electronic Funds Transfer • NON - Non-Payment Data • PAC - Preauthorized Check (Draft) • PBD - Draft • PDC - ACH Savings Cash Concentration/Disbursement (PPD) Credit • PDD - ACH Savings Cash Concentration/Disbursement (PDD) Debit • PDE - Payroll Deduction • QRD - Qualified Direct Rollover • QIR - Qualified Indirect Rollover • REV - ACH Reversal • SCC - ACH Savings Cash Concentration/Disbursement (CCD) Credit • SCD - ACH Savings Cash Concentration/Disbursement (CCD) Debit • SDC - ACH Savings Cash Concentration/Disbursement (PPD+) Credit • SDD - ACH Savings Cash Concentration/Disbursement (PPD+) Debit • SWT - Society for Worldwide Interbank Financial Telecommunications (S.W.I.F.T.) • SXC - ACH Savings Corporate Trade Exchange (CTX) Credit • SXD - ACH Savings Corporate Trade Exchange (CTX) Debit • SYD - Pre-Arranged Payment or Deposit (PPD) Credit to Savings • SZC - ACH Savings Cash Concentration/Disbursement Plus (CCD+) Credit • SZD - ACH Savings Cash Concentration/Disbursement Plus (CCD+) Debit • TRA - Traveler's Check • VIS - VISA Special Electronic Funds Transfer Network • X12 - X12 • ZZZ - Mutually Defined	ACH
TD1	0...10	-	Carrier details - quantity and weight.	-
TD101	1...1	3/5	**Required.** Packaging code. Identifies the packaging type for the message. Valid values: • CNT - CA - Container/Case • PLT - PL - Pallet • BDL - PK - Bundle/Inner Container	CNT
TD102	0...1	1/7	Lading quantity. Total number of units for return.	100

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
N1	0...1	-	Instances of the N1 loop with N101. Valid values: • BY - Buyer party • L8 - Head office party • SN - Store number information • 2P - Public health service facility • QA - Pharmacy identifier and address - • 13 - Contract service provider • SU - Supplier party • YE - Third party logistics provider • XI - Original claimant party • RI - Remit to party • DS - Distributor party • DB - Distributor branch party	-
N101	1...1	2/3	**Required.** Entity qualifier for the party identifier and address information.	BY
N102	1...1	1/60	**Required.** Name.	Pharma customer
N103	1...1	1/2	**Required.** Identifier code qualifier. Valid values: • 1 - DUNS • 2 - SCAC • 9 - DUNS+4 • 11 - Drug Enforcement Agency registration number • 21 - Health Industry Number • 91 - Company identifier • 92 - Company location identifier • UL - Global Location Number • PI - US_340B_ID • PP - Pharmacy_Processor_Number	UL
N104	1...1	2/80	**Required.** Bill to party identifier as qualified by N103 mapping to companyIdentifierValue.	3333331013655
N3	0...1	-	N3: Address: Child of warehouse party 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 warehouse party N1 name segment.	-
N401	1...1	2/30	**Required.** City name.	Sacramento
N402	1...1	2/2	**Required.** State or province code. Code (Standard state/province) as defined by appropriate government agency.	CA
N403	1...1	3/15	**Required.** Postal code. Code defining international postal zone code excluding punctuation and blanks.	95833
N404	1...1	2/3	**Required.** Country code.	US
PER	0...6	-	Contact Information.	-
PER01	1...1	2/2	**Required.** Contact function code identifying major duty or responsibility of person or group named as contact. Valid value is AJ - Primary contact	AJ
PER02	1...1	1/40	**Required.** Name of the contact person responsible for authenticating the pedigree information.	John Smith
PER03	1...1	2/2	**Required.** Communication Number Qualifier identifying the contact person's telephone number or email address. Valid value: • TE - Telephone number • EM - email address	TE
PER04	1...1	11/20	**Required.** Communication Telephone number or Email address of the contact person expected in this field.	+1.516.747.6849
PER05	1...1	2/2	**Required.** Communication Number Qualifier identifying the contact person's telephone number or email address. Valid value: • TE - Telephone number • EM - email address	EM
PER06	1...1	6/50	**Required.** Communication number Email address or Telephone number for the contact person expected in this field.	jsmith@manufac.com
BLI	1...*	-	**Required.** Baseline item data for return authorization request.	-

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
BLI01	1...1	2/2	**Required.** Product or service identifier qualifier. Valid values: • BP - CUSTOMER • VC - VENDORCATALOG • VN - SUPPLIER • UK - GTIN14 • UP - UPC • UX - UPN (universal product number) • MF - MANUFACTURER • NH - US_NHRIC • N1 - US_NDC442 • N2 - US_NDC532 • N3 - US_NDC541 • N4 - US_NDC542 • N5 - US_NHRIC55 • N6 - US_NHRIC64	BP
BLI02	1...1	1/80	**Required.** Product code identifier value.	0089754125
BLI03	0...1	1/15	**Required.** Quantity of return product in return authorization request.	100.250

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
BLI04	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 • C8 – Cubic decimeters • 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 • 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 • MQ – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PK – Pack (Only supported Outbound) • 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

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
BLI05	0...1	3/3	Price identifier code. Valid values: • ACT - ACTUAL • CON - CONTRACT • EST - ESTIMATED	ACT
BLI06	0...1	1/17	Unit price for return item.	12.000

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
BLI07	0...1	2/2	Unit of measure used for pricing. **Valid values** • 02 – Statute Mile • 4G – Microliter • AM – Ampoule • AV – Capsule • BD – Bundle • BG – Bag • BO – Bottle • BX – Box • C3 – Centiliter • C8 – Cubic decimeters • 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 • 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 • MQ – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PK – Pack (Only supported Outbound) • 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

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
BLI08	0...1	2/2	Qualifier that identifies subline item in BLI09, if present. Valid value is A7 - Subline item number	A7
BLI09	0...1	1/80	Product code identifier value.	000010
BLI10	0...1	2/2	Product or service identifier qualifier. Valid value is UK - GTIN14 HDA: The product GTIN in this transaction must match the GTIN encoded with AI(01) in the GS1 2D DataMatrix bar code found on the drug package or linear bar code if returning a homogeneous case.	UK
BLI11	0...1	1/80	Product code identifier value as qualified by BLI10.	00897541252453
N9	0...20	-	Reference identification for invoice.	-
N901	1...1	2/3	**Required.** Reference identification qualifier. Valid values: • IK - INVOICE • OI - ORIGINALINVOICE	IK
N902	0...1	1/30	Reference identifier qualified by N901. HDA: Original Sales invoice number.	0003258745
N904	0...1	8/8	Date of referenced document. Invoice date for HDA.	20241020
PID	0...5	-	Product/item description.	-
PID01	1...1	1/1	**Required.** Item description type code. Valid value is F - Free form text	F
PID05	0...1	1/80	Product description.	Pharma product
RDR	0...1	-	Return disposition reasons.	-
RDR01	0...1	2/2	Returns disposition code. **Valid values:** • CR - CONSUMERTOSUPPLIER • DI - DISPOSE • KA - KEEPWITHALLOWANCE • KR - KEEPREPAIR • MW - MANUFACTURERWARRANTY • PA - PARTIALLYAUTHORIZED • RA - RETURNWITHRMA • RD - DENIED • RF - FACTORYREPAIR • RN - RETURNWITHOUTRMA • RP - AUTHORIZATIONPENDING • RT - SHIPTHIRDPARTY • SC - CHARITABLE • SD - SHIPFORDISPOSAL	RD

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
RDR02	0...1	2/2	Returns request reason code. **Valid values:** • BC - EXPIRED • CO - CUSTOMERERROR • CV - COLORVARIANCE • DA - DAMAGEDPRODUCT • DI - DISCONTINUED • DM - DEFECTIVE • DP - DEFECTIVEPACKAGING • DR - DEFECTIVERETURNED • DT - DAMAGEDINTRANSIT • EI - EXCESSINVENTORY • EO - ENDOFSEASON • EW - EXCESSIVEWEAR • LP - LABEL • MD - MARKDOWN • NA - NOTEXPECTED • OP - OUTDATEPACKAGING • PE - PRICINGERROR • PF - POORFIT • PR - PRODUCTRECALL • PS - SPOILED • PW - POORQUALITY • RE - RECALL • SD - SHORTDATED • SM - SAMPLES • SP - PASTCANCELDATE • SR - SURPLUSGOODS • ST - STYLE • TE -TERMINATED • WG - WRONGPRODUCT	DA
RDR03	0...1	2/2	Return response reason code. **Valid values:** • EW - INVALIDUSE • FR - SHIPMENTDAMAGE • IN - NOTDEFECTIVE • IO - ASORDERED • MI - MOREINFORMATION • NR - NORECORDOFSALE • OS - DISCONTINUED • PC - PRICEDISCREPANCY • PR - PHOTOREQUESTED • QD - QUANTITYDIFFERENCE • RR - REPAIR • RT - RETURNTIMELIMIT • SR - SAMPLEREQUESTED • UI - UNIDENTIFIABLE	IO
RDR04	0...1	0/80	Description of the return authorization request reason code.	Product description
RDR05	0...1	1/1	Yes/No value that flags any special requirements for the return of a product, such as a state law requiring credit for partial returns. Valid values: • Y = yes • N = no	N
SAC	0...1	-	Service, promotion, allowance, or charge information.	-
SAC01	1...1	1/1	**Required.** Allowance or charge indicator code. Valid value is C - Charge	C
SAC02	0...1	1/80	Service, promotion, allowance, or charge code. Valid values: • D500 - HANDLING • F240 - PERITEM	D500

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
SAC05	0...1	1/15	Monetary amount.	235.00
AMT	0...*	-	Monetary amount.	-
AMT01	1...1	1/3	**Required.** Qualifier code defining net amount for return. Valid value is CQ - NET	CQ
AMT02	1...1	1/18	**Required.** Monetary amount.	275.36
AMT03	0...1	1/1	Credit or debit flag code indicating whether the amount is a credit or a debit. Valid values: • C - Credit • D - Debit	D
MEA	0...*	-	Physical measurements of return item.	-
MEA01	0...1	2/2	Measurement reference code identifying the the broad category to which a measurement applies. Valid value is WT - Weights	WT
MEA02	0...1	2/2	Measurement qualifier. Not mapped inbound. Valid value: • WT - WEIGHT • G - GROSSWEIGHT • N - NETWEIGHT	WT
MEA03	0...1	1/20	Measurement value.	100.000

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
MEA04	0...1	2/2	Unit of measure for weight. **Valid values** • 02 – Statute Mile • 4G – Microliter • AM – Ampoule • AV – Capsule • BD – Bundle • BG – Bag • BO – Bottle • BX – Box • C3 – Centiliter • C8 – Cubic decimeters • 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 • 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 • MQ – Cubic millimeter • MR – Meter • OZ – Ounce • P1 – Percent • PC – Piece • PF – Pallet • PK – Pack (Only supported Outbound) • 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	KG

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
CRC	0...*	-	Medical conditions indicator code.	-
CRC01	1...1	2/2	**Required.** Code category. Specifies the situation or category to which the code applies. Valid value is DH - RECEIVERSHIP	DH
CRC02	1...1	1/1	**Required.** Yes/No condition or response code. Valid values: • N - No means seal not intact • Y - Yes means seal intact	Y
CRC03	1...1	2/2	**Required.** Condition indicator. Valid values: • JS - PARTIAL • VL - FURNISHED	JS
NTE	0...*	-	Note or special instruction. Free text. HDA: Some Wholesale distributors require an attestation from the dispenser that the product being returned for resale was properly stored per instructions on the product label. The segment provides for dispenser to send that attestation.	-
NTE01	0...1	3/3	Note reference code. Valid value is CBB - Consideration to be received	CBB
NTE02	0...1	1/80	A free-form description to clarify the related data elements and their content. Example attestation of labeled storage conditions (HDA): Saleable product has been stored according to label specification at all times.	Saleable product has been stored according to label specification at all times.
PRF	0...1	-	Purchase order reference.	-
PRF01	1...1	1/22	**Required.** Purchase order number.	0045874582
PRF04	0...1	8/8	Purchase order date.	20241020
PRF07	0...1	2/2	Purchase order type code.	-
DTM	0...1	-	DTM date segment for standalone adjustment in ENT-ADX loop group 2300.	-
DTM01	1...1	3/3	**Required.** Date type qualifier for the standalone adjustment in the ENT-ADX loop. Valid values: • 002 - REQUESTEDDELIVERY • 003 - INVOICE • 004 - PURCHASEORDER • 009 - PROCESSING • 011 - SHIPPED • 036 - EXPIRATION • 050 - RECEIVED • 097 - TRANSACTION • 999 - DOCUMENT Preliminary list of qualifiers. More may be added in future. HDA specifies that all valid standard DTM01 qualifiers may be used.	003
DTM02	0...1	8/8	Processing date in date format YYYYMMDD.	20240628
DTM03	0...1	4/8	Processing time in time format HHMMSS.	123422
QTY	0...*	-	Quantity loop identifying quantity of product for return by lot number and expiration date. Also includes a list of serial numbers for all items by lot in the return authorization request.	-
QTY01	1...1	2/2	**Required.** Quantity type for return. Valid values: • 01 - DISCRETE • KA - ESTIMATED	01
QTY02	0...1	1/15	**Required.** Quantity of product.	25.00
QTY03-1	0...1	2/2	**Required.** Unit of measure used for pricing. Valid values: • 1N - COUNT • P1 - PERCENT	1N
LX	0...*	-	BLI-QTY-LX loop identifiying the transaction set line item number for the lot and serial number list for the item to be returned in the return authorization request message.	-
LX01	0...1	1/6	**Required.** Line item number.	000010
N9	0...*	-	BLI-QTY-LX-N9 loop identifiying the lot number, expiration date, and serial numbers for the item to be returned in the return authorization request message.	-
N901	0...1	2/3	**Required.** Code qualifying the reference identification, in this case the lot number. Valid value is LT - Lot number	LT
N902	0...1	1/30	Lot number identifier. HDA: The product Lot/batch number in this transaction must match the lot/batch encoded with AI(10) in the GS1 2D data-matrix bar code found on the drug package or linear bar code if returning a homogeneous case.	48725Xy7A
N904	0...1	8/8	Lot expiration date in date format YYYYMMDD. HDA: Lot Expire Date - The product Lot/batch expired date in this transaction must match the lot/batch encoded with AI(17) in the GS1 2D Data-Matrix bar code found on the drug package or linear bar code if returning a homogeneous case.	20271018
N907-01	0...1	2/3	Qualifier identifying the reference identifier as a serial number. Valid value is SE = Serial number.	SE

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Input Element	Occurs	Length	Description	Example
N907-02	0...1	1/30	Serial number. HDA: The product serial number in this transaction must match the lot/batch encoded with AI(21) in the GS1 2D DataMatrix bar code found on the drug package or linear bar code if returning a homogeneous case.	010002587014821745624
SE	1...1	-	**Required.** ST ... SE transaction set trailer envelope. Child of GS group. Only one ST transaction expected.	-
SE01	1...1	1/10	**Required.** Total count of segments in ST ... SE transaction set including ST and SE segments.	10
SE02	1...1	4/9	**Required.** Transaction set control number.	0001
GE	1...1	-	**Required.** GS ... GE functional group trailer envelope. Child of ISA interchange. Only one GS group expected.	-
GE01	1...1	1/6	**Required.** Number of transaction sets in functional group.	5
GE02	1...1	1/9	**Required.** Functional group control number.	619827
IEA	1...1	-	**Required.** ISA ... IEA interchange control trailer envelope. Only one interchange expected per transmission.	-
IEA01	1...1	1/5	**Required.** Number of functional groups in interchange.	1
IEA02	1...1	9/9	**Required.** Interchange control number.	000000000619827

Example

```
ISA*00*          *00*          *ZZ*7777776067344  *ZZ*8888404358877
*230901*1123*U*00401*000000001*0*I*:
GS*AN*2222224043588*Receiver*20230901*112310*1*X*004010
ST*180*00000001
BGN*00*4023567.26*20241020*140545
RDR*CR*PS*EW*INVALIDUSE*Y
PRF*PO12345*RE246810*2*20240607*Alphanumeric555*235679
DTM*324*20030124*123456
N9*IK*0003680876882*Free Form*20240529*12345612
SAC*C*D500***100****PC*1
G38*5.34*ACH
TD1*CNT*10
N1*BY*BY-BORDERS GROUP*PI*454522
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*John Smith*EM*sdfgf@email111.com*TE*11111111
N1*L8*L8-BORDERS GROUP*PP*112417
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Bob Smith*TE*22222222-L8
N1*SN*Store GROUP*11*DEA-11
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Al Smith*EM*sdfgf@emailStore.com
N1*2P*RANDOM HOUSE MERCH GROUP*21*HIN-11
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Name*TE*454522222-2P
PER*AJ*n*EM*sdfgf@email2P.com
N1*QA*Pharmacy*1*Duns
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Name*TE*454522222-QA
N1*13*Contract*9*Duns4
N3*Address1* Address2
```

© TraceLink Inc. 2009 - 2025 All Rights Reserved

```
N4*City*MA*454562*US
PER*AJ*n*EM*sdfgf@email13.com
N1*SU*Supplier*11*Dea
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Name*TE*454522222-SU
N1*YE*3rd Party*21*Hin
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*n*EM*sdfgf@emailYE.com
N1*XI*Orig Claimant*91*Comp-ID
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Name*TE*454522222-XI
N1*RI*Remit*92*Comp-Site
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*n*EM*sdfgf@emailRI.com
N1*DS*Dist*PI*US_304B_ID
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*Name*TE*454522222-DS
N1*DB*Dist Branch*PP*Processor_Num
N3*Address1* Address2
N4*City*MA*454562*US
PER*AJ*n*EM*sdfgf@emailDB.com
BLI*BP*0440227518*3*UN*CON*13.77*CP*A7*225*UK*145455
N9*IK*0003680876882**20240529
RDR*DI*ST*IN*Product description*Y
SAC*C*F240***111
AMT*D8*40*C
MEA*WT*G*222*LB
CRC*DH*Y*VL
NTE*GSI*R
PRF*PO24545***20240501***22
DTM*003*20240509*12345612
QTY*01*203*1N
LX*0010
N9*LT*LT-111111**20351231***SE:45622787852
SE*15*00000001
GE*1*1
IEA*1*000000001
```

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

© TraceLink Inc. 2009 - 2025 All Rights Reserved

Related Content



Forecast plan (IDoc)

Forecasting APIs allow companies to exchange data about anticipated product demand and supply availability with upstream supply chain Partners without giving these Partners access to their serialization system of record.

View More



Forecast plan (X12)

Forecasting APIs allow companies to exchange data about anticipated product demand and supply availability with upstream supply chain Partners without giving these Partners access to their serialization system of record.

View More



Forecast plan response (IDoc)

Forecasting APIs allow companies to exchange data about anticipated product demand and supply availability with downstream supply chain Partners without giving these Partners access to their serialization system of record.

View More

© TraceLink Inc. 2009 - 2025 All Rights Reserved