



TRACELINK UNIVERSITY

Home

Resources

TraceLink University

Inventory balances (IDoc)

Inventory balances allow suppliers to communicate with their remote or third-party warehouses about their available and upcoming inventory levels. Inventory balances contain several types of inventory information such as physical product location within a warehouse, product category, and total available inventory. Communicating inventory levels ensures suppliers can keep the required amount of inventory stocked at their locations and enables them to perform other key activities like properly preparing to fulfill large orders. Inventory balances are usually sent at regular intervals or because the buyer requests inventory information.

Suppliers use inventory balances to communicate about available and upcoming inventory levels with their remote or third-party warehouses or buyers.



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

- **Message Type:** MPC_INVENTORY_BALANCE (Inventory Balance)
- **IDoc Format:** INVRPT01
- **Transform Names:**
 - B2B_IDoc_INVRPT_INVRPT01_InventoryBalance_IB_V4
 - B2B_IDoc_INVRPT_INVRPT01_InventoryBalance_OB_V3

Guidelines

Input Element	Occurs	Length	Description	Example
INVRPT01	1...1	-	Required. XML IDoc DESADV root element.	-
IDOC	1...1	-	Required. IDoc root.	-
@BEGIN	1...1	0/*	Required. Begin of message attribute.	1
EDI_DC40	1...1	-	Required. IDoc control record.	-
@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
TABNAM	1...1	0/*	Required. IDoc table name.	EDI_DC40
MANDT	0...1	0/3	Client.	300
DOCNUM	0...1	0/16	IDoc number.	000000000619827
STATUS	0...1	0/*	Current IDoc processing status.	03
DIRECT	1...1	0/*	Required. Direction.	1
OUTMOD	0...1	0/1	Output mode.	2
EXPRSS	0...1	0/1	Overriding in inbound processing.	-
TEST	0...1	0/1	Test flag.	-
IDOCTYP	1...1	0/30	Required. IDoc basic type.	INVRPT
CIMTYP	0...1	0/*	Name of extension type.	-
MESTYP	0...1	0/*	Logical message type.	INVRPT01
MESCOD	0...1	0/3	Logical message code.	-
MESFCT	0...1	0/3	Logical message function.	-
STD	0...1	0/1	EDI standard.	-
STDVRS	0...1	0/6	Version of EDI standard.	-
STDMES	0...1	0/6	EDI message type.	-
SNDPOR	1...1	0/10	Required. Sender port (SAP System, EDI subsystem).	SAPD11
SNDPRT	1...1	0/2	Required. Partner type of sender.	LS
SNDPFC	0...1	0/2	Partner function of sender.	-
SNDPRN	0...1	0/10	Partner number of sender.	ERPCLNT302
SNDSAD	0...1	0/21	Sender address (SADR).	-
SNDLAD	0...1	0/70	Logical address of sender mapping to fileSenderNumber. Require a value that concatenates party type with party identifier in party type format.	0010136941923
RCVPOR	1...1	0/10	Required. SAP receiver port.	TRACELINK
RCVPRT	0...1	0/2	Partner type of receiver.	LS
RCVPFC	0...1	0/2	Partner function of receiver.	LS
RCVPRN	0...1	0/10	Partner number of receiver.	TRACELINK
RCVSAD	0...1	0/21	Receiver address (SADR).	-
RCVLAD	0...1	0/70	Logical address of receiver. Required for TraceLink. Identifies the receiver of the IDoc for the TraceLink system. 's location ID. Must match the value that the IDoc sender has configured for their receiver partner in TraceLink.	3333331013655
CREDAT	1...1	8/8	Required. Date IDoc was created in format YYYYMMDD.	20230511
CRETIM	1...1	6/6	Required. Time IDoc was created in format HHMMSS.	161000
REFINT	0...1	0/14	Reference to interchange file.	-
REFGRP	0...1	0/14	Reference to message group.	-
REFMES	0...1	0/14	Reference to message.	-
ARCKEY	0...1	0/70	EDI archive key.	-
SERIAL	0...1	0/20	EDI/ALE: Serialization field.	-
E1DRM01	1...1	-	Required. Inventory balance report header segment.	-
@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
ACTION	0...1	0/3	Processing action code for the whole IDoc message. Valid values: • 000 - Original. • 001 - Reverse. • 002 - Change (header level) . Not populated - Not applicable.	ORIGINAL
EFF_DATE	0...1	0/8	Effective date for inventory balance report.	20240228
EFF_TIME	0...1	0/6	Effective time.	12:40:34
TRANSNO	0...1	0/35	Inventory balance report document number.	0081426104
TRANDATE	0...1	0/8	Inventory balance report document date.	2024-03-08
TRANTIME	0...1	0/6	Inventory balance report document time.	1
E1ADRM0	0...10	-	Mapping for bill-to party (customer) identifier and address information.	-
@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
PARTNER_Q	0...1	0/3	Qualifier identifying customer party location data. Valid values: • AG - Sold to customer. • LF - Vendor, supplier. • MF - Manufacturer. • WE - Ship to location.	AG
ADDRESS_T	0...1	0/1	Address type.	-
PARTNER_ID	0...1	0/17	SAP partner number.	0001307782
JURISDIC	0...1	0/17	Location for tax calculation - Tax Jurisdiction Code.	-
LANGUAGE	0...1	0/2	Language key.	EN
NAME1	0...1	0/40	Party name or description.	BLUE FERRET HEALTH
NAME2	0...1	0/*	Party name or description.	-
NAME3	0...1	0/*	Party name or description.	-

	Input Element	Occurs	Length	Description	Example
	STREET1	0...1	0/40	House number and street.	5995 COMMERCE CENTER DR
	STREET2	0...1	0/40	House number and street.	-
	STREET3	0...1	0/40	House number and street.	-
	POSTL_COD1	0...1	0/10	Postal code.	43125
	CITY1	0...1	0/40	Town or city.	GROVEPORT
	TELEPHONE1	0...1	0/30	Telephone number.	6144096700
	TELEFAX	0...1	0/30	Telephone number.	6144096751
	COUNTRY1	0...1	0/3	Country indicator (ISO alphanumeric).	US
	REGION	0...1	0/3	Region, state code.	OH
	E1DRM02	0...*	-	Inventory balance report line item details.	-
	@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
	POSEX	0...1	0/6	Line item number for inventory balance report.	000010
	ACTION	0...1	0/3	Processing function, transaction set purpose code. Valid values: • 001 - Item added. • 002 - Item changed. • 003 - Cancel (item). • 005 - Item locked. Not populated - Not applicable.	-
	STQTY	0...1	0/15	Line item quantity.	1000

Input Element	Occurs	Length	Description	Example
MEASUNIT	0...1	0/3	Unit of measure for total line item quantity. Valid values <ul style="list-style-type: none"> • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • B0 - 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 • F0 - 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 • L0 - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • M0 - 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

Input Element				Occurs	Length	Description	Example
			EFF_DATE	0...1	0/8	Effective date.	20240308
			E1DRM04	0...*	-	On hand quantity at storage locations for product at line item level.	-
			@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
			QUALF	0...1	0/3	Qualifier identifying quantity type recorded in IDoc. Valid value for IDoc is 079 - ONHAND.	079
			STOCK_LOC	0...1	0/10	Quantity Details for storage locations.	4578
			QTY	0...1	0/15	On hand quantity at storage location.	500

Input Element	Occurs	Length	Description	Example
			Unit of measure for on hand quantity. Valid values <ul style="list-style-type: none"> • 02 - Statute Mile • 4G - Microliter • AM - Ampoule • AV - Capsule • BD - Bundle • BG - Bag • B0 - 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 • F0 - 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 • L0 - Lot (unit of procurement) • LT - Liter • LY - Linear Yard • MC - Microgram • ME - Milligram • ML - Milliliter • MM - Millimeter • M0 - 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

Input Element	Occurs	Length	Description	Example
EIEDP19	0...*	-	On hand quantity at storage locations for product at line item level.	-
@SEGMENT	1...1	0/*	Required. Begin of segment attribute.	1
QUALF	0...1	0/3	Qualifier identifying type of material identifier. Valid values: • 001 - Customer • 002 - Supplier • 003 - GTIN14 • 004 - Manufacturer • 010 - Batch	001
IDTNR	0...1	0/35	Product code identifier value.	00015874962358
KTEXT	0...1	0/70	Product name or description.	PHARMA PRODUCT NAME

Example

```

<INVRPT01>
  <IDOC BEGIN="1">
    <EDI_DC40 SEGMENT="1">
      <TABNAM>EDI_DC40</TABNAM>
      <MANDT>999</MANDT>
      <DOCNUM>DOCNUM</DOCNUM>
      <STATUS>03</STATUS>
      <DIRECT>1</DIRECT>
      <OUTMOD>2</OUTMOD>
      <EXPRSS>1</EXPRSS>
      <TEST>X</TEST>
      <IDOCTYP>INVRPT01</IDOCTYP>
      <CIMTYP></CIMTYP>
      <MESTYP>INVRPT</MESTYP>
      <MESCOD>COD</MESCOD>
      <MESFCT>s5</MESFCT>
      <STD>s</STD>
      <STDVRS>s7</STDVRS>
      <STDMES>s8</STDMES>
      <SNDPOR>s9</SNDPOR>
      <SNDPRT>s1</SNDPRT>
      <SNDPFC>s1</SNDPFC>
      <SNDPRN>s92</SNDPRN>
      <SNDSAD>SenAdd</SNDSAD>
      <SNDLAD>Sender</SNDLAD>
      <RCVPOR>s13</RCVPOR>
      <RCVPRT>LS</RCVPRT>
      <RCVPFC>LS</RCVPFC>
      <RCVPRN>s93</RCVPRN>
      <RCVSAD></RCVSAD>
      <RCVLAD>Receiver</RCVLAD>
      <CREDAT>20240103</CREDAT>
      <CRETIM>091013</CRETIM>
      <REFINT>s17</REFINT>
      <REFGRP>s18</REFGRP>
      <REFMES>s19</REFMES>
      <ARCKEY>s20</ARCKEY>
      <SERIAL>s21</SERIAL>
    </EDI_DC40 SEGMENT="1">
  </IDOC BEGIN="1">
</INVRPT01>

```

```
</EDI_DC40>
<E1DRM01 SEGMENT="1">
  <ACTION>000</ACTION>
  <EFF_DATE>20240101</EFF_DATE>
  <EFF_TIME>110123</EFF_TIME>
  <TRANSNO>s25</TRANSNO>
  <TRANDATE>20231229</TRANDATE>
  <TRANTIME>100001</TRANTIME>
</E1DRM01>
<E1ADRM0 SEGMENT="1">
  <PARTNER_Q>AG</PARTNER_Q>
  <ADDRESS_T>A</ADDRESS_T>
  <PARTNER_ID>BillTo</PARTNER_ID>
  <JURISDIC>Juris</JURISDIC>
  <LANGUAGE>EN</LANGUAGE>
  <NAME1>BillTo</NAME1>
  <NAME2>BillToName2</NAME2>
  <NAME3>BillToName3</NAME3>
  <STREET1>BillToStreet1</STREET1>
  <STREET2>BillToStreet2</STREET2>
  <STREET3>BillToStreet3</STREET3>
  <POSTL_COD1>BTPostal</POSTL_COD1>
  <CITY1>BTCity</CITY1>
  <TELEPHONE1>BTPhone</TELEPHONE1>
  <TELEFAX>BTFax</TELEFAX>
  <COUNTRY1>BT</COUNTRY1>
  <REGION>S1</REGION>
</E1ADRM0>
<E1ADRM0 SEGMENT="1">
  <PARTNER_Q>LF</PARTNER_Q>
  <ADDRESS_T>A</ADDRESS_T>
  <PARTNER_ID>SUPPLIER</PARTNER_ID>
  <JURISDIC>Juris</JURISDIC>
  <LANGUAGE>EN</LANGUAGE>
  <NAME1>Supplier</NAME1>
  <NAME2>SupplierName2</NAME2>
  <NAME3>SupplierName3</NAME3>
  <STREET1>LFStreer1</STREET1>
  <STREET2>LFStreer2</STREET2>
  <STREET3>LFStreet3</STREET3>
  <POSTL_COD1>Post2</POSTL_COD1>
  <CITY1>LFCity</CITY1>
  <TELEPHONE1>LFPhone</TELEPHONE1>
  <TELEFAX>LFFax</TELEFAX>
  <COUNTRY1>LF</COUNTRY1>
  <REGION>LF</REGION>
```

```
</E1ADRM0>
<E1ADRM0 SEGMENT="1">
  <PARTNER_Q>MF</PARTNER_Q>
  <ADDRESS_T>A</ADDRESS_T>
  <PARTNER_ID>MANUFACTURER</PARTNER_ID>
  <JURISDIC>Juris</JURISDIC>
  <LANGUAGE>EN</LANGUAGE>
  <NAME1>Manufacturer</NAME1>
  <NAME2>ManufacturerName2</NAME2>
  <NAME3>ManufacturerName3</NAME3>
  <STREET1>MFStreet1</STREET1>
  <STREET2>MFStreet2</STREET2>
  <STREET3>MFStreet3</STREET3>
  <POSTL_COD1>MFPost</POSTL_COD1>
  <CITY1>MFCity</CITY1>
  <TELEPHONE1>MFPhone</TELEPHONE1>
  <TELEFAX>MFFax</TELEFAX>
  <COUNTRY1>MF</COUNTRY1>
  <REGION>MFR</REGION>
</E1ADRM0>
<E1ADRM0 SEGMENT="1">
  <PARTNER_Q>WE</PARTNER_Q>
  <ADDRESS_T>A</ADDRESS_T>
  <PARTNER_ID>SHIPTO</PARTNER_ID>
  <JURISDIC>Juris</JURISDIC>
  <LANGUAGE>EN</LANGUAGE>
  <NAME1>ShipTo</NAME1>
  <NAME2>ShipToName2</NAME2>
  <NAME3>ShipToName3</NAME3>
  <STREET1>WEStreet1</STREET1>
  <STREET2>WEStreet2</STREET2>
  <STREET3>WEStreet3</STREET3>
  <POSTL_COD1>WEPost</POSTL_COD1>
  <CITY1>WECity</CITY1>
  <TELEPHONE1>WEPhone</TELEPHONE1>
  <TELEFAX>WEFAX</TELEFAX>
  <COUNTRY1>WE</COUNTRY1>
  <REGION>WER</REGION>
</E1ADRM0>
<E1ADRM0 SEGMENT="1">
  <PARTNER_Q>OSP</PARTNER_Q>
  <ADDRESS_T>A</ADDRESS_T>
  <PARTNER_ID>SHIPFROM</PARTNER_ID>
  <JURISDIC>Juris</JURISDIC>
  <LANGUAGE>EN</LANGUAGE>
  <NAME1>ShipFrom</NAME1>
```

```
<NAME2>ShipFromName2</NAME2>
<NAME3>ShipFromName3</NAME3>
<STREET1>SFStreet1</STREET1>
<STREET2>SFStreet2</STREET2>
<STREET3>SFStreet3</STREET3>
<POSTL_COD1>SFPost</POSTL_COD1>
<CITY1>SFCity</CITY1>
<TELEPHONE1>SFPhone</TELEPHONE1>
<TELEFAX>SFFax</TELEFAX>
<COUNTRY1>SF</COUNTRY1>
<REGION>SFR</REGION>
</E1ADRM0>
<E1DRM02 SEGMENT="1">
  <POSEX>000010</POSEX>
  <ACTION>005</ACTION>
  <STQTY>1305750</STQTY>
  <MEASUNIT>CR</MEASUNIT>
  <EFF_DATE>20240101</EFF_DATE>
  <E1DRM04 SEGMENT="1">
    <QUALF>079</QUALF>
    <STOCK_LOC>A-100</STOCK_LOC>
    <QTY>1500</QTY>
    <UOM>BX</UOM>
    <E1EDP19 SEGMENT="1">
      <QUALF>004</QUALF>
      <IDTNR>MANUFACTURER</IDTNR>
      <KTEXT>ProdName 1</KTEXT>
    </E1EDP19>
    <E1EDP19 SEGMENT="1">
      <QUALF>002</QUALF>
      <IDTNR>Supplier</IDTNR>
      <KTEXT>Name 2</KTEXT>
    </E1EDP19>
    <E1EDP19 SEGMENT="1">
      <QUALF>003</QUALF>
      <IDTNR>GTIN14</IDTNR>
      <KTEXT>Name 3</KTEXT>
    </E1EDP19>
    <E1EDP19 SEGMENT="1">
      <QUALF>001</QUALF>
      <IDTNR>CUSTOMER</IDTNR>
      <KTEXT>Customer Desc 3</KTEXT>
    </E1EDP19>
  </E1DRM04>
</E1DRM02>
</IDOC>
```

</INVRPT01>



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

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](#)