



Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003040 Transaction Set 852 Product Activity Data

Implementation Convention



U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Institute of
Standards and Technology

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¹At Boulder, CO 80303.

²Some elements at Boulder, CO.

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Electronic Commerce Acquisition Program Management Office
Standard Management Committee - Secretariat
National Institute of Standards and Technology
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The National Institute of Standards and Technology (NIST)'s Information Technology Laboratory (ITL) develops standards and guidelines, provides technical assistance, and conducts research for computers and resources. As part of the overall federal effort to establish a single face to industry for conducting electronic commerce, ITL has been designated as the organization responsible for coordinating the development of Federal Implementation Conventions (ICs) for Electronic Data Interchange (EDI). ICs are defined by functional-area experts who create and select options from standard EDI Transaction Sets to yield the implementations to be used for practical EDI. These ICs are made available to federal agencies and industry by electronic means and this Special Publication Series.

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852 Product Activity Data

Functional Group ID=**PD**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Activity Data Transaction Set (852) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a distributor, warehouse, or retailer to advise a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets. The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

Notes:

1. Organizations use this transaction set to provide asset balance and point of sale information to vendors responsible for replenishing distribution centers, warehouses or retail outlets.

2. Use a single occurrence of this transaction set to report asset balance and point of sale information to a single vendor for a single distribution center, warehouse or retail outlet.

Heading:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---------------------|-----------------|----------------|---|------------------|----------------|--------------------|---------------------------|
| Must Use | 010 | ST | Transaction Set Header | M | 1 | | |
| Must Use | 020 | XQ | Reporting Date/Action | M | 1 | | |
| Must Use | 030 | XPO | Preassigned Purchase Order Numbers | O | >1 | | |
| Not Used | 040 | N9 | Reference Number | O | >1 | | |
| Not Used | 050 | PER | Administrative Communications Contact | O | 3 | | |
| LOOP ID - N1 | | | | | | 200 | |
| | 060 | N1 | Name | O | 1 | | n1 |
| Not Used | 070 | N2 | Additional Name Information | O | 1 | | |
| Not Used | 080 | N3 | Address Information | O | 2 | | |
| Not Used | 090 | N4 | Geographic Location | O | 1 | | |
| Not Used | 100 | FOB | F.O.B. Related Instructions | O | 1 | | |
| Not Used | 110 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 1 | | |
| Not Used | 120 | DTM | Date/Time/Period | O | >1 | | |
| Not Used | 130 | N9 | Reference Number | O | >1 | | |
| Not Used | 140 | PER | Administrative Communications Contact | O | 3 | | |

Detail:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|----------------------|-----------------|----------------|-----------------------|------------------|----------------|--------------------|---------------------------|
| LOOP ID - LIN | | | | | | 999999 | |
| Must Use | 150 | LIN | Item Identification | O | 1 | | |
| Not Used | 160 | CTP | Pricing Information | O | 25 | | |
| Not Used | 170 | PO4 | Item Physical Details | O | 1 | | |
| Not Used | 171 | N9 | Reference Number | O | >1 | | |
| Not Used | 175 | AMT | Monetary Amount | O | 10 | | |

| LOOP ID - ZA | | | 99 | | | |
|--------------|-----|-----|----------------------------|---|----|----|
| Must Use | 180 | ZA | Product Activity Reporting | M | 1 | n2 |
| Not Used | 190 | CTP | Pricing Information | O | 25 | |
| Not Used | 200 | SDQ | Destination Quantity | O | >1 | |

Summary:

| | <u>Pos.</u> <u>No.</u> | <u>Seg.</u> <u>ID</u> | <u>Name</u> | <u>Req.</u> <u>Des.</u> | <u>Max.Use</u> | <u>Loop</u> <u>Repeat</u> | <u>Notes and</u> <u>Comments</u> |
|----------|---------------------------|--------------------------|-------------------------|----------------------------|----------------|------------------------------|-------------------------------------|
| Must Use | 210 | CTT | Transaction Totals | O | 1 | | n3 |
| Must Use | 220 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes

1. The reporting location is required. The reporting location is specified explicitly in the N1 segment using the code RL in N101, or implicitly using the SDQ segment (Table 2) with the location data elements. They are mutually exclusive (the SDQ and the N1 with N101 containing RL).
 2. The quantity for the item identified in the LIN segment is required. Quantity is specified either in the ZA segment (ZA02) or in the SDQ segment, but not in both.
 3. The number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction set.
- When sending item and activity data in the LIN loop, the CTT segment is required.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|---|-------------------|
| Must Use | ST01 | 143 | Transaction Set Identifier Code Code uniquely identifying a Transaction Set 852 X12.52 Product Activity Data | M ID 3/3 |
| Must Use | ST02 | 329 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | M AN 4/9 |

Segment: XQ Reporting Date/Action
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify reporting date and action to be taken
Syntax Notes:
Semantic Notes: 1 XQ02 is the reporting date. If reporting a date range, then XQ02 is the start date and XQ03 is the end date.
Comments:

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|----------------------------|-------------------------------|---|-------------------|
| Must Use | XQ01 | 305 | Transaction Handling Code Code designating the action to be taken by all parties F Plan and Submit Suggested Purchase Order(s) G Plan Order(s) and Ship Product H Notification Only | M ID 1/1 |
| Must Use | XQ02 | 373 | Date Date (YYMMDD) | M DT 6/6 |
| Not Used | XQ03 | 373 | Date Date (YYMMDD) | O DT 6/6 |

Segment: **XPO** Preassigned Purchase Order Numbers
Position: 030
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: >1
Purpose: To transmit preassigned purchase order numbers
Syntax Notes: 1 If either XPO03 or XPO04 is present, then the other is required.
Semantic Notes: 1 XPO01 is the preassigned purchase order number. If a range of purchase order numbers is to be transmitted, use XPO01 for the first number and XPO02 as the ending number.
Comments: 1 XPO03 and XPO04 specify the location that the purchase order numbers apply to.

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|----------------------------|-------------------------------|---|-------------------|
| Must Use | XPO01 | 324 | Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser <i>Agency preassigned purchase order number. There will be a separate purchase order number for each warehouse receiving location.</i> | M AN 1/22 |
| Not Used | XPO02 | 324 | Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser | O AN 1/22 |
| Not Used | XPO03 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) | X ID 1/2 |
| Not Used | XPO04 | 67 | Identification Code Code identifying a party or other code | X AN 2/17 |

Segment: N1 Name
Position: 060
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----------|------------------|---------------------|--|-------------------|
| Must Use | N101 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual RL Reporting Location | M ID 2/2 |
| Not Used | N102 | 93 | Name Free-form name | X AN 1/35 |
| Must Use | N103 | 66 | Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 10 Department of Defense Activity Address Code (DODAAC) 54 Warehouse M4 Department of Defense Routing Identifier Code (RIC) An integral and predetermined participant in an established logistical system performing general logistic control, distribution, and storage functions | X ID 1/2 |
| Must Use | N104 | 67 | Identification Code Code identifying a party or other code <i>Enter the code applicable to the warehouse reporting location.</i> | X AN 2/17 |
| Not Used | N105 | 706 | Entity Relationship Code Code describing entity relationship | O ID 2/2 |
| Not Used | N106 | 98 | Entity Identifier Code Code identifying an organizational entity, a physical location, or an individual | O ID 2/2 |

Segment: **LIN** Item Identification

Position: 150

Loop: LIN Optional (Must Use)

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If LIN04 is present, then LIN05 is required.
- 2 If LIN06 is present, then LIN07 is required.
- 3 If LIN08 is present, then LIN09 is required.
- 4 If LIN10 is present, then LIN11 is required.
- 5 If LIN12 is present, then LIN13 is required.
- 6 If LIN14 is present, then LIN15 is required.
- 7 If LIN16 is present, then LIN17 is required.
- 8 If LIN18 is present, then LIN19 is required.
- 9 If LIN20 is present, then LIN21 is required.
- 10 If LIN22 is present, then LIN23 is required.
- 11 If LIN24 is present, then LIN25 is required.
- 12 If LIN26 is present, then LIN27 is required.
- 13 If LIN28 is present, then LIN29 is required.
- 14 If LIN30 is present, then LIN31 is required.

Semantic Notes:

Comments:

- 1 LIN01 is the line item identification
- 1 See the Data Dictionary for a complete list of ID's.
- 2 LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|----------|-------------|----------------|--|-------------------|
| | <u>Des.</u> | <u>Element</u> | | |
| Must Use | LIN01 | 350 | Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set <i>Enter Agency unique system assigned number.</i> | O AN 1/11 |
| Must Use | LIN02 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) FS National Stock Number SK Stock Keeping Unit (SKU) UA U.P.C./EAN Case Code (2-5-5) UD U.P.C./EAN Consumer Package Code (2-5-5) UI U.P.C. Consumer Package Code (1-5-5) | M ID 2/2 |
| Must Use | LIN03 | 234 | Product/Service ID Identifying number for a product or service <i>Enter the code of the product whose activity is being reported.</i> | M AN 1/30 |
| Not Used | LIN04 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O ID 2/2 |
| Not Used | LIN05 | 234 | Product/Service ID Identifying number for a product or service | X AN 1/30 |
| Not Used | LIN06 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O ID 2/2 |
| Not Used | LIN07 | 234 | Product/Service ID Identifying number for a product or service | X AN 1/30 |
| Not Used | LIN08 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in | O ID 2/2 |

| | | | | | |
|----------|-------|-----|---|---|---------|
| Not Used | LIN09 | 234 | Product/Service ID (234) Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN10 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN11 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN12 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN13 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN14 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN15 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN16 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN17 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN18 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN19 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN20 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN21 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN22 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN23 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN24 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN25 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN26 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN27 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN28 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN29 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |
| Not Used | LIN30 | 235 | Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) | O | ID 2/2 |
| Not Used | LIN31 | 234 | Product/Service ID Identifying number for a product or service | X | AN 1/30 |

Segment: **ZA** Product Activity Reporting

Position: 180

Loop: ZA Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To provide activity details concerning product being reported

Syntax Notes: 1 If either ZA02 or ZA03 is present, then the other is required.

2 If either ZA04 or ZA05 is present, then the other is required.

3 If either ZA06 or ZA07 is present, then the other is required.

Semantic Notes:

Comments:

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|----------|-------------|----------------|--|---|
| | <u>Des.</u> | <u>Element</u> | | |
| Must Use | ZA01 | 859 | Activity Code Code identifying activity details for the product being reported <i>Enter QA in first iteration of ZA loop. Enter QS in second iteration of ZA loop.</i> | M ID 2/2 |
| | | | QA | Current Inventory Quantity Available for Shipment or Sale Indicates the quantity currently available to be sold or shipped |
| | | | QS | Quantity Sold |
| Must Use | ZA02 | 380 | Quantity Numeric value of quantity <i>Enter Quantity applicable to QA/QS.</i> | X R 1/15 |
| Must Use | ZA03 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <i>Enter unit of issue for item being reported.</i> Refer to 003040 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| Not Used | ZA04 | 374 | Date/Time Qualifier Code specifying type of date or time, or both date and time | X ID 3/3 |
| Not Used | ZA05 | 373 | Date Date (YYMMDD) | X DT 6/6 |
| Not Used | ZA06 | 128 | Reference Number Qualifier Code qualifying the Reference Number. | X ID 2/2 |
| Not Used | ZA07 | 127 | Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier. | X AN 1/30 |

Segment: CTT Transaction Totals

Position: 210

Loop:

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax Notes: 1 If CTT03 is present, then CTT04 is required.

2 If CTT05 is present, then CTT06 is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|----------|-------------|----------------|--|-------------------|
| | <u>Des.</u> | <u>Element</u> | | |
| Must Use | CTT01 | 354 | Number of Line Items Total number of line items in the transaction set <i>Enter the number of occurrences of LIN.</i> | M N0 1/6 |
| Not Used | CTT02 | 347 | Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field. | O R 1/10 |
| Not Used | CTT03 | 81 | Weight Numeric value of weight | O R 1/10 |
| Not Used | CTT04 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | X ID 2/2 |
| Not Used | CTT05 | 183 | Volume Value of volumetric measure | O R 1/8 |
| Not Used | CTT06 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | X ID 2/2 |
| Not Used | CTT07 | 352 | Description A free-form description to clarify the related data elements and their content | O AN 1/80 |

Segment: SE Transaction Set Trailer
Position: 220
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

| | <u>Ref.</u> | <u>Data</u> | <u>Attributes</u> |
|----------|-------------|--|-------------------|
| | <u>Des.</u> | <u>Element</u> <u>Name</u> | |
| Must Use | SE01 | 96 Number of Included Segments Total number of segments included in a transaction set including ST and SE segments | M N0 1/10 |
| Must Use | SE02 | 329 Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set <i>Enter the same number cited in ST02.</i> | M AN 4/9 |





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