

The Product Activity Data Transaction - 852



A warehouse distributor or retailer who advises a trading partner of inventory, sales, and other product activity information can use the Product Activity Data Transaction (852) set. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses, or retail outlets.

Each pair of trading partners should determine the frequency of data transmission. Data should be transmitted at least once per planned replenishment cycle, although more frequent data transmission is worthwhile. The balance of data transmission and processing costs must be balanced with the benefit of more frequent data.

Similarly, trading partners should determine whether all part numbers should be included in each transmission or only those with activity. For instance, a monthly transmission could include on-hand balances for each product while weekly transmissions would include only those products having sales, returns, or inventory adjustment activity.

The transaction set is constructed to allow up to 200 reporting locations to be included in each transmission, and up to 999,999 products. This guideline recommends minimizing the amount of data being transmitted to satisfy requirements for trading partner automatic replenishment of inventories. After the trading partner processes the data, the receiver of this transaction set would send a purchase order acknowledgment to the sender. The purchase order acknowledgment would include purchase order numbers being assigned for each reporting location, the date the order was processed, and the items and quantities being on order.

852 - Sample Data

EXAMPLE:

```
ISA*00*bbbbbbbbbb*00*bbbbbbbbbb*01*007061617*01*00507479*950613*0800*U*
00303*000000001*0*P^^
GS*PD*007061617*005070479*950613*0800*132*X*003030^
ST*852*1357^
XQ*G*950613^
XPO*MO00929001*MO00999990*92*007061617^
XPO*MO01038501*MO01099990*92*007061618^ - illustrative purposes only
N1*RL**92*007061617^
LIN**BP*54-P96A*VP*P96A^
ZA*QA*10*EA^
ZA*QP*6*EA^ shown for illustrative purposes only
LIN**BP*54-P99A*VP*P99A^ - Shown for illustrative purposes only
ZA*QA*77*EA^ - Shown for illustrative purposes only
N1*RL**92*007061618^ - Shown for illustrative purposes only
LIN**BP*54-P99A*VP*P99A^ - Shown for illustrative purposes only
ZA*QO*4*EA^ - Shown for illustrative purposes only
CTT*3^
SE*15*1357^
GE*1*132^
IEA*1*000000001
```

**Note: Red – Not part of Sample Data.*

852 Product Activity Data Segments

HEADER	DETAIL	SUMMARY
ST	LIN	CTT
XQ	ZA	SE
XPO		SE
N1		

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.

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		
	030	XPO	Preassigned Purchase Order Numbers	O	>1		
			LOOP ID - N1			200	
	060	N1	Name	O	1		n1

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	M	1		
			LOOP ID - ZA			99	
Must Use	180	ZA	Product Activity Reporting	M	1		n2

Summary:

	<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	210	CTT	Transaction Totals	M	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.

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:

Notes: Segment Example: ST*852*1357^

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	ST01	143	Transaction Set Identifier Code	M ID 3/3
			Code uniquely identifying a Transaction Set	
			Refer to 003030 Data Element Dictionary for acceptable code values.	
>>	ST02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

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:
Notes: Segment Example: XG*G*950613^

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
>> XQ01	305	Transaction Handling Code		M ID 1/1
		Code designating the action to be taken by all parties		
		Suggested codes for aftermarket usage. Any ASC X12 approved code value may be used.		
		G Plan Order(s) and Ship Product		
		H Notification Only		
>> XQ02	373	Date		M DT 6/6
		Date (YYMMDD)		
XQ03	373	Date		O DT 6/6
		Date (YYMMDD)		

Segment: **XPO** Preassigned Purchase Order Numbers
Position: 030
Loop:
Level: Heading
Usage: Optional
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.
Notes: Segment Example: XPO*M000929001*M00099999*92*007061617^
This is an optional segment.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
>> XPO01	324	Purchase Order Number		M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser		
XPO02	324	Purchase Order Number		O AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser		
XPO03	66	Identification Code Qualifier		X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		Suggested qualifier values for aftermarket usage. Any ASC X12 approved qualifier may be used.		
		91 Assigned by Seller or Seller's Agent		
		92 Assigned by Buyer or Buyer's Agent		
XPO04	67	Identification Code		X AN 2/17
		Code identifying a party or other code		

Segment: **N1** Name

Position: 060

Loop: N1

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.

Notes: Segment Example: N1*RL**92*00706167^

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
>> N101	98	Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		Suggested code value for aftermarket usage. Any ASC X12 approved code value may be used.	
		RL Reporting Location	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		Suggested qualifier values for aftermarket usage. Any ASC X12 approved qualifiers may be used.	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code	X AN 2/17
		Code identifying a party or other code	

Segment: **LIN** Item Identification

Position: 150

Loop: LIN

Level: Detail

Usage: Mandatory

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:

- 1 LIN01 is the line item identification

Comments:

- 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.

Notes: Segment Example: LIN**BP*54-P99A*VP*P99A^

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	LIN02	235	Product/Service ID Qualifier	M ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Suggested qualifiers for aftermarket usage. Any ASC X12 approved qualifiers may be used.	
			BL Brand/Label	
			BP Buyer's Part Number	
			MF Manufacturer	
			MG Manufacturer's Part Number	
			UP U.P.C. Consumer Package Code (1-5-5-1)	
			VN Vendor's (Seller's) Item Number	
			VP Vendor's (Seller's) Part Number	
>>	LIN03	234	Product/Service ID	M AN 1/30
			Identifying number for a product or service	

Segment: **ZA** Product Activity Reporting

Position: 180

Loop: ZA

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:

Notes: Segment Example: ZA*QA*10*EA^

Data Element Summary

Ref.	Data	Name	Attributes
>>	ZA01	859 Activity Code	M ID 2/2
		Code identifying activity details for the product being reported	
		Suggested activity codes for aftermarket usage. Any ASC X12 approved codes may be used.	
		QA Current Inventory Quantity Available for Shipment or Sale	
		Indicates the quantity currently available to be sold or shipped	
		QC Quantity Committed	
		Quantity reserved for orders not shipped	
		QO Quantity Out of Stock	
		QP Quantity On Order, Not Yet Received	
		Total quantity expected to be received from supplier for current reporting period, but not yet received	
		QS Quantity Sold	
		QT Adjustment to Inventory Quantity	
	ZA02	380 Quantity	X R 1/15
		Numeric value of quantity	
	ZA03	355 Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Suggested unit of measure codes for aftermarket usage. Any ASC X12 approved unit of measure codes may be used.	
		CA Case	
		EA Each	
		FT Foot	

MR	Meter
P4	Four-pack
P6	Six pack
P8	Eight-pack

Segment: **CTT Transaction Totals**

Position: 210

Loop:

Level: Summary

Usage: Mandatory

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.

Notes: Segment Example: CTT*1^

Data Element Summary

Ref.	Data	Attributes
Des.	Element Name	
>> CTT01	354 Number of Line Items Total number of line items in the transaction set	M N0 1/6
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.	O R 1/10

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.

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.

Notes: Segment Example: SE*9*1357^

Data Element Summary

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