

852 Product Activity Data

Functional Group ID=**PD**

Introduction:

This X12 Transaction Set 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 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:

This document defines the AAFES business requirements for the Product Activity Data, when reporting store sales data.

- 1. All segments marked "Mandatory" and all elements preceded with an "M" are mandatory by the X-12 standards.*
- 2. All segments marked "Optional (Recommended)" and all elements preceded with an "R" are required by AAFES and must always be transmitted.*
- 3. All unmarked segments and elements may be transmitted as necessary, according to the user's need.*
- 4. AAFES comments relating to segments and elements are noted in italic text with a shaded background.*

Heading:

<u>Page No.</u>	<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>
3	0100	ST	Transaction Set Header	M	1		
4	0200	XQ	Reporting Date/Action	M	1		
Not Used	0300	XPO	Preassigned Purchase Order Numbers	O	>1		
5	0400	N9	Extended Reference Information	O	>1		
Not Used	0500	PER	Administrative Communications Contact	O	3		
LOOP ID - N1						200	
6	0600	N1	Party Identification	O	1		n1
Not Used	0700	N2	Additional Name Information	O	1		
Not Used	0800	N3	Party Location	O	2		
Not Used	0900	N4	Geographic Location	O	1		
Not Used	1000	FOB	F.O.B. Related Instructions	O	1		
Not Used	1100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
Not Used	1200	DTM	Date/Time Reference	O	>1		
Not Used	1300	N9	Extended Reference Information	O	>1		
Not Used	1400	PER	Administrative Communications Contact	O	3		

Detail:

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LOOP ID - LIN						999999	

Army and Air Force Exchange Service

7	0100	LIN	Item Identification	O	1	
8	0200	CTP	Pricing Information	O	25	
Not Used	0250	SAC	Service, Promotion, Allowance, or Charge Information	O	>1	
Not Used	0300	PO4	Item Physical Details	O	1	
Not Used	0400	N9	Extended Reference Information	O	>1	
Not Used	0500	AMT	Monetary Amount Information	O	10	
Not Used	0600	PAL	Pallet Type and Load Characteristics	O	1	
Not Used	0700	QTY	Quantity Information	O	>1	
LOOP ID - ZA					>1	
9	0800	ZA	Product Activity Reporting	M	1	n2
Not Used	0900	QTY	Quantity Information	O	>1	
Not Used	1000	CTP	Pricing Information	O	25	
Not Used	1100	SDQ	Destination Quantity	O	>1	
LOOP ID - G95					1	
Not Used	1200	G95	Performance Requirements	O	1	
Not Used	1300	DTM	Date/Time Reference	O	2	

Summary:

<u>Page No.</u>	<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>
10	0100	CTT	Transaction Totals	O	1		n3
11	0200	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.
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: 0100
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) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M 1 ID 3/3
		852 Product Activity Data	
M	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 1 AN 4/9

Segment: **XQ** Reporting Date/Action
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify reporting dates, actions to be taken and an identifying number
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.
- 2 XQ04 is a unique report identifier assigned by the sender.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	XQ01	305	Transaction Handling Code Code designating the action to be taken by all parties H Notification Only	M 1 ID 1/2
M	XQ02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year <i>Reporting Range start date</i>	M 1 DT 8/8
R	XQ03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year <i>Reporting range end date</i>	O 1 DT 8/8

Segment: **N9 Extended Reference Information**
Position: 0400
Loop:
Level: Heading
Usage: Optional (Recommended)
Max Use: >1
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification IA Internal Vendor Number	M 1 ID 2/3
R	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier <i>AAFES 8-digit procurement vendor number</i>	X 1 AN 1/50

- Segment:** **N1 Party Identification**
Position: 0600
Loop: N1 Optional (Recommended)
Level: Heading
Usage: Optional (Recommended)
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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual RL Reporting Location	M 1 ID 2/3
R	N102	93	Name Free-form name	X 1 AN 1/60
R	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 92 Assigned by Buyer or Buyer's Agent UL Global Location Number (GLN) A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system	X 1 ID 1/2
R	N104	67	Identification Code Code identifying a party or other code	X 1 AN 2/80

- Segment:** **LIN** **Item Identification**
- Position:** 0100
- Loop:** LIN Optional (Recommended)
- Level:** Detail
- Usage:** Optional (Recommended)
- Max Use:** 1
- Purpose:** To specify basic item identification data
- Syntax Notes:**
- 1 If either LIN04 or LIN05 is present, then the other is required.
 - 2 If either LIN06 or LIN07 is present, then the other is required.
 - 3 If either LIN08 or LIN09 is present, then the other is required.
 - 4 If either LIN10 or LIN11 is present, then the other is required.
 - 5 If either LIN12 or LIN13 is present, then the other is required.
 - 6 If either LIN14 or LIN15 is present, then the other is required.
 - 7 If either LIN16 or LIN17 is present, then the other is required.
 - 8 If either LIN18 or LIN19 is present, then the other is required.
 - 9 If either LIN20 or LIN21 is present, then the other is required.
 - 10 If either LIN22 or LIN23 is present, then the other is required.
 - 11 If either LIN24 or LIN25 is present, then the other is required.
 - 12 If either LIN26 or LIN27 is present, then the other is required.
 - 13 If either LIN28 or LIN29 is present, then the other is required.
 - 14 If either LIN30 or LIN31 is present, then the other is required.
- Semantic Notes:**
- 1 LIN01 is the line item identification
- Comments:**
- 1 See the Data Dictionary for a complete list of IDs.
 - 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M 1 ID 2/2
			EN EAN/UCC - 13 Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)	
			EO EAN/UCC - 8 Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)	
			IB International Standard Book Number (ISBN)	
			UA U.P.C./EAN Case Code (2-5-5)	
			UK GTIN 14-digit Data Structure Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)	
			UP UCC - 12 Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)	
M	LIN03	234	Product/Service ID Identifying number for a product or service	M 1 AN 1/48

- Segment:** **CTP Pricing Information**
- Position:** 0200
- Loop:** LIN Optional (Recommended)
- Level:** Detail
- Usage:** Optional (Recommended)
- Max Use:** 25
- Purpose:** To specify pricing information
- Syntax Notes:**
- 1 If either CTP04 or CTP05 is present, then the other is required.
 - 2 If CTP06 is present, then CTP07 is required.
 - 3 If CTP09 is present, then CTP02 is required.
 - 4 If CTP10 is present, then CTP02 is required.
 - 5 If CTP11 is present, then CTP03 is required.
- Semantic Notes:**
- 1 CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
 - 2 CTP08 is the rebate amount.
- Comments:**
- 1 See Figures Appendix for an example detailing the use of CTP03 and CTP04. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
R	CTP02	236	Price Identifier Code Code identifying pricing specification PRP Promotional price UCP Unit cost price	X 1 ID 3/3
R	CTP03	212	Unit Price Price per unit of product, service, commodity, etc.	X 1 R 1/17

Segment: **ZA Product Activity Reporting**
Position: 0800
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: 1 ZA08 determines if the product activity code in ZA01 refers to a product that is categorized as In-bond merchandise. A "Y" indicates that the activity code applies to a product that is In-bond; an "N" indicates that the activity code does not refer to a product that is In-bond.
Comments:
Notes: ZA*QA*I*EA~
 ZA*QL*0*EA~
 ZA*QM*0*EA~
 ZA*QP*0*EA~
 ZA*QS*I*EA*173* 20150912~
 ZA*QU*0*EA~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ZA01	859 Activity Code	M 1 ID 2/2
		Code identifying activity details for the product being reported	
		QA Current Inventory Quantity Available for Shipment or Sale	
		Indicates the quantity currently available to be sold or shipped	
		QL Minimum Inventory Quantity	
		The minimum inventory quantity for replenishment purposes	
		QM Maximum Inventory Quantity	
		The maximum inventory quantity for replenishment purposes	
		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	
		QU Quantity Returned By Consumer	
R	ZA02	380 Quantity	X 1 R 1/15
		Numeric value of quantity	
R	ZA03	355 Unit or Basis for Measurement Code	X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		EA Each	
	ZA04	374 Date/Time Qualifier	X 1 ID 3/3
		Code specifying type of date or time, or both date and time	
		173 Week Ending	
		<i>Currently only sent for QS (Quantity Sold).</i>	
	ZA05	373 Date	X 1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
		<i>Currently only sent for QS (Quantity Sold).</i>	

Segment: **CTT** Transaction Totals
Position: 0100
Loop:
Level: Summary
Usage: Optional (Recommended)
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other 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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set	M 1 N0 1/6

Segment: **SE** Transaction Set Trailer
Position: 0200
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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
M	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	M 1 AN 4/9

Transaction Set Notes

ZA*QA*1*EA~
ZA*QL*0*EA~
ZA*QM*0*EA~
ZA*QP*0*EA~
ZA*QS*1*EA*173*20150912~
ZA*QU*0*EA~

- Quantity On-Hand (QA): Total QTY as of transmission date. On-Hand data pulls up until the date of transmission.
- Quantity Sold (QS): Total QTY based on reporting date/range at XQ Segment (Daily: Prior day or Weekly: Sunday – Saturday). There is no relationship between QTY Sold (QS) and QTY On-Hand (QA)
- Quantity On-Order (QP): If there are no approved / processed purchase orders for the item (No due-ins QTY) during the reporting period, the ZA02 element will indicate as zero value
- Quantity Returned (QU): If there are no returns during the reporting period, the ZA02 element will indicate as zero value

Transaction Example

```
ST*852*11045~  
XQ*H*20150906*20150912~  
N9*IA*12345678~  
N1*RL*LAJES FLD MAIN STORE*92*1047701~  
LIN**UP*XXXXXXXXXXXX~  
CTP**UCP*11~  
ZA*QA*1*EA~  
ZA*QL*0*EA~  
ZA*QM*0*EA~  
ZA*QP*0*EA~  
ZA*QS*0*EA*173*20150912~  
ZA*QU*0*EA~  
LIN**UP*XXXXXXXXXXXX~  
CTP**UCP*9.25~  
ZA*QA*0*EA~  
ZA*QL*0*EA~  
ZA*QM*0*EA~  
ZA*QP*0*EA~  
ZA*QS*1*EA*173*20150912~  
ZA*QU*0*EA~  
CTT*2~  
SE*22*11045~
```