

# 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:

**This document identifies the AAFES business requirements for the 852, Product Activity Data, in support of the Store Vendor Managed Inventory Program. Segments required by AAFES, but not required by the standards are marked "RECOMMENDED." Elements required by AAFES are marked "R" and will always be transmitted. All elements marked ">>" are mandatory by the standards. All unmarked elements may be transmitted as necessary in their respective segments.**

## 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	010	ST	Transaction Set Header	M	1		
4	020	XQ	Reporting Date/Action	M	1		
5	030	XPO	Preassigned Purchase Order Numbers	O	>1		
Not Used	040	N9	Reference Identification	O	>1		
Not Used	050	PER	Administrative Communications Contact	O	3		
<b>LOOP ID - N1</b>						<b>200</b>	
6	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 Reference	O	>1		
Not Used	130	N9	Reference Identification	O	>1		
Not Used	140	PER	Administrative Communications Contact	O	3		

## Detail:

<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>
<b>LOOP ID - LIN</b>						<b>999999</b>	
7	010	LIN	Item Identification	O	1		
Not Used	020	CTP	Pricing Information	O	25		
Not Used	030	PO4	Item Physical Details	O	1		
Not Used	040	N9	Reference Identification	O	>1		
Not Used	050	AMT	Monetary Amount	O	10		
Not Used	060	PAL	Pallet Information	O	1		
Not Used	070	QTY	Quantity	O	1		

# Army and Air Force Exchange Service

LOOP ID - ZA			>1			
8	080	ZA	Product Activity Reporting	M	1	n2
Not Used	090	QTY	Quantity	O	1	n3
Not Used	100	CTP	Pricing Information	O	25	
Not Used	110	SDQ	Destination Quantity	O	>1	
LOOP ID - G95			1			
Not Used	120	G95	Performance Requirements	O	1	
Not Used	130	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>
9	010	CTT	Transaction Totals	O	1		n4
10	020	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 QTY segment in the ZA loop is only used to provide the number of orders associated with the quantity in the ZA segment, or the total of quantities in the SDQ segments for the activity. The only allowable code value is OC = Order Count.
4. 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.

# Army and Air Force Exchange Service

**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) 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).  
**Comments:**

## Data Element Summary

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

# Army and Air Force Exchange Service

**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. 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 G Plan Order(s) and Ship Product	M ID 1/2
M	XQ02	373	Date Date expressed as CCYYMMDD <b>Reporting date.</b>	M DT 8/8
R	XQ03	373	Date Date expressed as CCYYMMDD <b>End date, if date range.</b>	O DT 8/8

## Army and Air Force Exchange Service

**Segment:** **XPO** Preassigned Purchase Order Numbers  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Optional (Recommended)  
**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 to which the purchase order numbers apply.

### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	XPO01	324	Purchase Order Number	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			<b>Beginning pre-assigned purchase order number.</b>	
R	XPO02	324	Purchase Order Number	O AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
			<b>Ending preassigned purchase order number.</b>	

# Army and Air Force Exchange Service

**Segment:** N1 Name  
**Position:** 060  
**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.  
**Notes:** **AAFES will send two N1 loops.**

## Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		RL Reporting Location	
		ST Ship To	
R	N102	93 Name	X AN 1/60
		Free-form name	
		<b>Reporting location or ship to location.</b>	
R	N103	66 Identification Code Qualifier	X ID 1/2
		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	
R	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		<b>Reporting location facility number or ship to facility number.</b>	

# Army and Air Force Exchange Service

**Segment:** **LIN** Item Identification  
**Position:** 010  
**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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN02	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) EN European Article Number (EAN) (2-5-5-1) UP U.P.C. Consumer Package Code (1-5-5-1)	M ID 2/2
M	LIN03	234	<b>Product/Service ID</b> Identifying number for a product or service	M AN 1/48

# Army and Air Force Exchange Service

**Segment:** **ZA Product Activity Reporting**  
**Position:** 080  
**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:**

**AAFES will send five ZA loops.**

**The "QA" ZA loop is optional and will be the quantity that is on hand for sale in the store.**

**The "QS" ZA loop is used to transmit sales.**

**The "QT" ZA loop is used to transmit inventory adjustments.**

**The "QB" ZA loop is used to transmit scanned inventory.**

**The "QP" ZA loop is used to transmit quantities ordered that are due-in.**

## Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	ZA01	859	Activity Code	M 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	
			QB Beginning Balance Quantity Opening inventory quantity for the current inventory reporting period	
			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	
R	ZA02	380	Quantity	X R 1/15
			Numeric value of quantity	
R	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	
			EA Each	

# Army and Air Force Exchange Service

**Segment:** **CTT Transaction Totals**  
**Position:** 010  
**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 N0 1/6

## Army and Air Force Exchange Service

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	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	