



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>
M	010	ST	Transaction Set Header	M	1		
M	020	XQ	Reporting Date/Action	M	1		
	040	N9	Reference Identification	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	
	010	LIN	Item Identification	O	1		
	020	CTP	Pricing Information	O	25		
LOOP ID - ZA						>1	
M	080	ZA	Product Activity Reporting	M	1		n2
	110	SDQ	Destination Quantity	O	>1		

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>
	010	CTT	Transaction Totals	O	1		n3
M	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 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:
Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	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

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:
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 ID 1/2
M	XQ02	373	Date Date expressed as CCYYMMDD Report Start Date	M DT 8/8
M	XQ03	373	Date Date expressed as CCYYMMDD Report End Date	M DT 8/8

Segment: **N9 Reference Identification**
Position: 040
Loop:
Level: Heading
Usage: Optional
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.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		DP Department Number	
		DUN D-U-N-S Number Dun & Bradstreet	
		IA Internal Vendor Number	
	N902	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

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.
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>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser) FR Message From	M ID 2/3
M	N102	93	Name Free-form name	M AN 1/60
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	X ID 1/2
M	N104	67	Identification Code Code identifying a party or other code	M AN 2/80

Segment: **LIN** Item Identification

Position: 010

Loop: LIN Optional

Level: Detail

Usage: Optional

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.

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

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
LIN01	350	Assigned Identification		O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set		
M	LIN02	Product/Service ID Qualifier		M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		CB	Buyer's Catalog Number	
		IN	Buyer's Item Number	
		SK	Stock Keeping Unit (SKU)	
		UP	U.P.C. Consumer Package Code (1-5-5-1)	
M	LIN03	Product/Service ID		M AN 1/48
		Identifying number for a product or service		
		Buyer's Item Number / UPC #		
	LIN04	Product/Service ID Qualifier		X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		VN	Vendor's (Seller's) Item Number	
		VP	Vendor's (Seller's) Part Number	
	LIN05	Product/Service ID		X AN 1/48
		Identifying number for a product or service		
		Vendors Item #		
	LIN06	Product/Service ID Qualifier		X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		UN	U.P.C. Case Code Number (1-1-5-5)	
		UP	U.P.C. Consumer Package Code (1-5-5-1)	
	LIN07	Product/Service ID		X AN 1/48
		Identifying number for a product or service		

		UPC #	
LIN08	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		IZ	Buyer's Size Code
LIN09	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Size Description	
LIN10	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		BO	Buyers Color
LIN11	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		Color Description	

Segment: **CTP Pricing Information**
Position: 020
Loop: LIN Optional
Level: Detail
Usage: Optional
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.

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>Data</u>	<u>Name</u>	<u>Attributes</u>
CTP02	236	Price Identifier Code	X ID 3/3
		Code identifying pricing specification	
		LPR List Price	
		MSR Manufacturer's Suggested Retail	
		UCP Unit cost price	
		Unit Price	
CTP03	212	Unit Price	X R 1/17
		Price per unit of product, service, commodity, etc.	

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.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</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	
		QP Quantity On Order, Not Yet Received	
		QS Quantity Sold	
		QU Quantity Returned By Consumer	
	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	
		BD Bundle	
		BO Box	
		BX Box	
		CA Case	
		CG Card	
		CM Centimeter	
		CN Can	
		CS Case	
		DZ Dozen	
		EA Each	
		FT Feet	
		GS Gross	
		HY Hundred Yards	
		IN Inch	
		LB Pound	
		LY Layer	
		MM Millimeter	
		MR Meters	
		OT Other	
		PD Pad	
		PK Package	
		PL Pallet	
		PR Pair	
		RE Reel	
		SL Sleeve	
		SO Spool	
		ST Set	
		TH Thousand	
		VL Volume	
		WT Weight	

YD

Yard

Segment: **SDQ** Destination Quantity
Position: 110
Loop: ZA Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify destination and quantity detail
Syntax Notes:

- 1 If either SDQ05 or SDQ06 is present, then the other is required.
- 2 If either SDQ07 or SDQ08 is present, then the other is required.
- 3 If either SDQ09 or SDQ10 is present, then the other is required.
- 4 If either SDQ11 or SDQ12 is present, then the other is required.
- 5 If either SDQ13 or SDQ14 is present, then the other is required.
- 6 If either SDQ15 or SDQ16 is present, then the other is required.
- 7 If either SDQ17 or SDQ18 is present, then the other is required.
- 8 If either SDQ19 or SDQ20 is present, then the other is required.
- 9 If either SDQ21 or SDQ22 is present, then the other is required.

Comments:

- 1 SDQ02 is used only if different than previously defined in the transaction set.
- 2 SDQ03 is the store number.
- 3 SDQ23 may be used to identify areas within a store, e.g., front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> SDQ01	<u>Element</u> 355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		BD Bundle	
		BO Box	
		BX Box	
		CA Case	
		CG Card	
		CM Centimeter	
		CN Can	
		CS Case	
		DZ Dozen	
		EA Each	
		FT Feet	
		GS Gross	
		HY Hundred Yards	
		IN Inch	
		LB Pound	
		LY Layer	
		MM Millimeter	
		MR Meters	
		OT Other	
		PD Pad	
		PK Package	
		PL Pallet	
		PR Pair	
		RE Reel	
		SL Sleeve	
		SO Spool	
		ST Set	
		TH Thousand	
		VL Volume	
		WT Weight	
		YD Yard	

	SDQ02	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	O	ID 1/2
M	SDQ03	67	Identification Code Code identifying a party or other code	M	AN 2/80
M	SDQ04	380	Quantity Numeric value of quantity	M	R 1/15
	SDQ05	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ06	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ07	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ08	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ09	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ10	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ11	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ12	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ13	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ14	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ15	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ16	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ17	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ18	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ19	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ20	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ21	67	Identification Code Code identifying a party or other code	X	AN 2/80
	SDQ22	380	Quantity Numeric value of quantity	X	R 1/15
	SDQ23	310	Location Identifier Code which identifies a specific location	O	AN 1/30

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
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.

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>
M	CTT01	354 Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	

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:

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

Data Element Summary

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SE01	96 Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 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 AN 4/9