



**Health Industry Business Communications Council -
eBusiness Committee**

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:

ALL SEGMENT AND DATA ELEMENT REQUIREMENT DESIGNATIONS OF 'X' (conditional), OR 'O' (optional) SHOULD BE INTERPRETED AS 'USED' FOR THE PURPOSES OF THIS DRAFT IMPLEMENTATION. THE REQUIREMENT DESIGNATION OF 'M' REMAINS ANSI MANDATORY.

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		
	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		
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 Reference	O	>1		
Not Used	130	N9	Reference Identification	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
	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	
LOOP ID - ZA						>1
Must Use	080	ZA	Product Activity Reporting	C	1	n2
Not Used	090	QTY	Quantity	O	1	n3
Not Used	100	CTP	Pricing Information	O	25	
	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>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	n4
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 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.

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	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:
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	M DT 8/8
	XQ03	373	Date Date expressed as CCYYMMDD	O DT 8/8

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 to which the purchase order numbers apply.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	XPO01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
	XPO02	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	O AN 1/22
	XPO03	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
	XPO04	67	Identification Code Code identifying a party or other code	X AN 2/80

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

Ref.	Data Element	Name	Attributes
M	N101	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		DB Distributor Branch	
		MF Manufacturer of Goods	
		HIBCC RECOMMENDS THE USE OF THE LABELER IDENTIFICATION CODE (LIC) IN THE PRODUCT / SERVICE ID (D.E. 234) TO IDENTIFY THE MANUFACTURER.	
		ST Ship To	
N102	93	Name	X AN 1/60
		Free-form name	
N103	66	Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		6 Plant Code	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		11 Drug Enforcement Administration (DEA)	
		21 Health Industry Number (HIN)	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	Identification Code	X AN 2/80
		Code identifying a party or other code	

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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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>
		LIN01	350 Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
M		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)	
			AT	Assortability Code
			CB	Buyer's Catalog Number
			CE	Class of Contract Code
			CG	Commodity Grouping
			CR	Contract Number
			DG	Discount Grouping
			FS	National Stock Number
			HI	HIBC (Health Care Industry Bar Code)
			IN	Buyer's Item Number
			LT	Lot Number
			MF	Manufacturer
			HIBCC RECOMMENDS THE USE OF THE LABELER IDENTIFICATION CODE (LIC) IN THE PRODUCT / SERVICE ID (D.E. 234) TO IDENTIFY THE MANUFACTURER.	
			MG	Manufacturer's Part Number
			N1	National Drug Code in 4-4-2 Format
				4-digit manufacturer ID, 4-digit product ID, 2-digit trade package size
			N2	National Drug Code in 5-3-2 Format
				5-digit manufacturer ID, 3-digit product ID, 2-digit trade package size

N3 National Drug Code in 5-4-1 Format
5-digit manufacturer ID, 4-digit product ID, 1-digit trade package size

N4 National Drug Code in 5-4-2 Format
5-digit manufacturer ID, 4-digit product ID, 2-digit trade package size

N5 National Health Related Item Code in 5-5 Format

N6 National Health Related Item Code in 4-6 Format

ND National Drug Code (NDC)

NH National Health Related Item Code

PL Purchaser's Order Line Number

SN Serial Number

SV Service Rendered

TP Product Type Code

UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)
A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit

UN U.P.C. Case Code Number (1-1-5-5)

UP U.P.C. Consumer Package Code (1-5-5-1)

VC Vendor's (Seller's) Catalog Number

VN Vendor's (Seller's) Item Number

M LIN03 234 Product/Service ID M AN 1/48
Identifying number for a product or service

Segment: **ZA** Product Activity Reporting
Position: 080
Loop: ZA Conditional (Must Use)
Level: Detail
Usage: Conditional (Must Use)
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:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> ZA01	<u>Element</u> 859 <u>Activity Code</u>	<u>M ID 2/2</u>
		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 HIDA Definition: Quantity on Hand HIDA Guideline: Trading Partner defined quantity - May be "All Physical" OR may be "ALL Physical less QC committed and/or QT reserves.
		QC	Quantity Committed Quantity reserved for orders not shipped HIDA Definition: Quantity Committed HIDA Guideline: Quantity allocated for orders not shipped and not yet deducted from inventory. HIDA Guideline: Required only if quantity in QC is also included in QA
		QD	Additional Demand Quantity HIDA Definition: Quantity increase/decrease in demand per "Market Intelligence". HIDA Guideline: Data required for CRP, but Trading Partners may select non-EDI communications in lieu of 852.
		QE	Ending Balance Quantity Closing inventory quantity for the current inventory reporting period HIDA Definition: Ending Balance Quantity HIDA Guideline: Override or normal replenishment quantity.
		QN	Planned Inventory Quantity To define the planned inventory quantity for replenishment purposes HIDA Definition: Distributors monthly forecast. HIDA Guideline: Optional - Not required for "VMI" (Vendor Managed-Inventory) process.
		QO	Quantity Out of Stock

			HIDA Definition: Quantity backordered to end customer. HIDA Guideline: Required only if sending QW shipments in lieu of QS orders (True Demand.)
	QP		Quantity On Order, Not Yet Received Total quantity expected to be received from supplier for current reporting period, but not yet received
			HIDA Definition: Quantity on order from all sources. HIDA Guideline: Includes orders from suppliers, interbranch orders, and other sources.
	QS		Quantity Sold
			HIDA Definition: Quantity ordered by end customer. HIDA Guideline: Current daily demand quantity.
	QT		Adjustment to Inventory Quantity
			HIDA Definition: Reserves. HIDA Guideline: Common industry definition of "Reserves" as "Safety Stock".
	QW		Quantity Withdrawn from Warehouse Inventory Total quantity withdrawn from the warehouse for sales purposes, purposes of unsaleability, or as a result of an intracompany warehouse transfer, promotions, etc.
			HIDA Definition: Quantity shipped to end customer. HIDA Guideline: Required only if QS orders (True Demand) cannot be sent. If QW is sent, QO backorders are required.
			HIDA Guideline: QW - Summarized version of 867 quantities for a product.
	QX		Quantity Requested (Will Override Replenishment Planning)
			HIDA Definition: Quantity Requested HIDA Guideline: Override or normal replenishment 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 Refer to 004010 Data Element Dictionary for acceptable code values.		
ZA04	374	Date/Time Qualifier	X	ID 3/3
		Code specifying type of date or time, or both date and time 140 Actual		
ZA05	373	Date	X	DT 8/8
		Date expressed as CCYYMMDD		

Segment: **SDQ** Destination Quantity
Position: 110
Loop: ZA Conditional (Must Use)
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.

Semantic Notes:

- 1 SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

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>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SDQ01	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 Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
	SDQ02	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	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

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</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	
			Count of LIN segments	
	CTT02	347	Hash Total	O R 1/10
			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.	

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 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