852 Product Activity Data - DHC Common
Revised: Oct 21, 1998

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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
>>	010	ST	Transaction Set Header	M	1		
>>	020	XQ	Reporting Date/Action	M	1		
	040	N9	Reference Identification	O	>1		
			LOOP ID - N1			200	
	060	N1	Name	O	1		n1

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - LIN			999999	
	150	LIN	Item Identification	O	1		
	170	PO4	Item Physical Details	O	1		
			LOOP ID - ZA			>1	
>>	180	ZA	Product Activity Reporting	M	1		n2
	200	SDQ	Destination Quantity	O	>1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
>>	010	CTT	Transaction Totals	M	1		n3
>>	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:		
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:		

Notes:
```
******************************************************
Sample ST Segment
_____
ST*852*00001
******************************************************
```

Data Element Summary

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

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:

```
*******************************************************
Sample XQ Segment
_____
XQ*H*20000209*20000215
*******************************************************
```

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> XQ01	305	**Transaction Handling Code**	**M** **ID 1/2**
		Code designating the action to be taken by all parties	

The code identifying the action to be taken in the XQ01 element will be predetermined between you and DHC. Most Partners will receive "H". An EDI Operations Supervisor must approve a request to receive "G".

Code "G" is new with GMS for DSD and Mervyn's Vendors.

	G	Plan Order(s) and Ship Product	
	H	Notification Only	

Ref. Des.	Data Element	Name	Attributes
>> XQ02	373	**Date**	**M** **DT 8/8**
		Date expressed as CCYYMMDD	

This represents the start date for which this transaction applies.

Ref. Des.	Data Element	Name	Attributes
XQ03	373	**Date**	**O** **DT 8/8**
		Date expressed as CCYYMMDD	

This represents the end date for which this transaction applies.

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			

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.
Semantic Notes:
   1   N906 reflects the time zone which the time reflects.
   2   N907 contains data relating to the value cited in N902.
Comments:
Notes:

****
You will only receive an N9 Segment if XQ01="G".

Sample N9 Segment
_____
N9*DP*088

N9*IA*3342078

This segment is new with GMS for DSD & Mervyn's Vendors.
****

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> **N901**	**128**	**Reference Identification Qualifier**	**M** **ID 2/3**
		Code qualifying the Reference Identification	
		DP Department Number	
		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.
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:

****

This segment is new with GMS for DSD Vendors.
DSD vendors will not be allowed to receive DC/Store Level Basic Format 852s until after GMS is implemented for DSD.
Vendors for DSD, Mervyn's & Target will be allowed to received Total Company in the basic format.

Sample N1 Segment
_____

N1*RL*MERVYN'S*92*0001 (DC/Store Level - Basic Format)

N1*RL*DSD (Company Level - Basic & SDQ Format)

N1*BY*TARGET*92*0229 (DC/Store Level - Basic Format)

"BY" will only be sent when XQ01= "G".
****

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> N101	98	**Entity Identifier Code**	**M ID 2/3**
		Code identifying an organizational entity, a physical location, property or an individual	
		BY Buying Party (Purchaser)	
		RL Reporting Location	
N102	93	**Name**	**X AN 1/60**
		Free-form name	
		COMPANY NAME	
N103	66	**Identification Code Qualifier**	**X ID 1/2**
		Code designating the system/method of code structure used for Identification Code (67)	
		This element is used only for DC/Store level Basic Format.	
		92 Assigned by Buyer or Buyer's Agent	
N104	67	**Identification Code**	**X AN 2/80**
		Code identifying a party or other code	
		Location code	
		This element used only for DC/Store Level Basic Format	

Segment:	**LIN** Item Identification
Position:	150
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.

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.

Notes:

```
************************************************************
Sample LIN Segment
_____
LIN*1*CB*063020400*VA*70344
************************************************************
```

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LIN01	350	**Assigned Identification**	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
>> 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)	

	CB	Buyer's Catalog Number
	EN	European Article Number (EAN) (2-5-5-1)
	UP	U.P.C. Consumer Package Code (1-5-5-1)
	VA	Vendor's Style Number

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

DSD:
When the qualifier=CB, prior to GMS, this field will contain the DSD SKU which = up to 24 digits. With GMS, DSD will use a 9 digit identifier.

MERVYN'S:
When the qualifier=CB, a 10-digit SKU will be sent until some future date. You will receive prior notification of a change..

TARGET:
When the qualifier=CB, Pre & Post GMS, this field will contain a 9-digit Target SKU.

When the qualifier=EN, this field will contain the 13-digit European Article Number. (Only used for DSD or Mervyn's)

When the qualifier=UP, this field will contain the full 12-digit UPC Code.

When the qualifier=VA, this field will contain the Vendor Style Number.

| **LIN04** | **235** | **Product/Service ID Qualifier** | **X** | **ID 2/2** |

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CB	Buyer's Catalog Number
EN	European Article Number (EAN) (2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VA	Vendor's Style Number

| **LIN05** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

See LIN03 notes.

| **LIN06** | **235** | **Product/Service ID Qualifier** | **X** | **ID 2/2** |

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CB	Buyer's Catalog Number
EN	European Article Number (EAN) (2-5-5-1)
UP	U.P.C. Consumer Package Code (1-5-5-1)
VA	Vendor's Style Number

| **LIN07** | **234** | **Product/Service ID** | **X** | **AN 1/48** |

Identifying number for a product or service

Se LIN03 Notes

Segment:	**PO4** Item Physical Details	
Position:	170	
Loop:	LIN Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item	
Syntax Notes:	1	If either PO402 or PO403 is present, then the other is required.
	2	If PO405 is present, then PO406 is required.
	3	If either PO406 or PO407 is present, then the other is required.
	4	If either PO408 or PO409 is present, then the other is required.
	5	If PO410 is present, then PO413 is required.
	6	If PO411 is present, then PO413 is required.
	7	If PO412 is present, then PO413 is required.
	8	If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
	9	If PO417 is present, then PO416 is required.
	10	If PO418 is present, then PO404 is required.
Semantic Notes:	1	PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
	2	PO416 is the package identifier or the beginning package identifier in a range of identifiers.
	3	PO417 is the ending package identifier in a range of identifiers.
	4	PO418 is the number of packages in this layer.
Comments:	1	PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
	2	PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes:

****

This segment is new with GMS for DSD & Mervyn's Vendors.

You will receive a PO4 Segment only when XQ01="G".

Sample PO4 Segment

_____

PO4*4*************6

PO4*24

****

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO401	**356**	**Pack**	**O N0 1/6**
		The number of inner containers, or number of eaches if there are no inner containers, per outer container	
		Number of eaches per carton.	
PO402	**357**	**Size**	**X R 1/8**
		Size of supplier units in pack	
		Not Used by DHC.	
PO403	**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	
		Not Used by DHC.	
PO404	**103**	**Packaging Code**	**X AN 3/5**

Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

Not Used by DHC.

| | CHE | Cheeses |
| | 71 | Not Otherwise Specified |

PO405   **187**   **Weight Qualifier**   **O**   **ID 1/2**

Code defining the type of weight

Not Used by DHC.

PO406   **384**   **Gross Weight per Pack**   **X**   **R 1/9**

Numeric value of gross weight per pack

Not Used by DHC.

PO407   **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

Not Used by DHC.

PO408   **385**   **Gross Volume per Pack**   **X**   **R 1/9**

Numeric value of gross volume per pack

Not Used by DHC.

PO409   **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

Not Used by DHC.

PO410   **82**   **Length**   **X**   **R 1/8**

Largest horizontal dimension of an object measured when the object is in the upright position

Not Used by DHC.

PO411   **189**   **Width**   **X**   **R 1/8**

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

Not Used by DHC.

PO412   **65**   **Height**   **X**   **R 1/8**

Vertical dimension of an object measured when the object is in the upright position

Not Used by DHC.

PO413   **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

Not Used by DHC.

PO414   **810**   **Inner Pack**   **O**   **N0 1/6**

The number of eaches per inner container

Segment:	**ZA** Product Activity Reporting
Position:	180
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:	

```
******************************************************
If receiving sales only, QS will be the only code used.

Sample ZA Segment
_____
ZA*QS*500
ZA*QS*102*EA
******************************************************
```

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**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	
			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	
			QX Quantity Requested (Will Override Replenishment Planning)	
			This is sent only when XQ01 = G.	
	ZA02	**380**	**Quantity**	**X R 1/15**
			Numeric value of quantity	
			This quantity will be sent only when sending Basic Format.	
	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	

Segment:	**SDQ** Destination Quantity		
Position:	200		
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.	
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.	

Notes:

****

Mervyn's vendors will not be allowed to receive SDQ Format for DC/Store Level until GMS is implemented for Mervyn's.

If receiving "Sales" only, locations with zero sales will NOT be sent.

If receiving Sales, Inventory on-hand, and Inventory on-order, any location reporting zeroes for all three designations will NOT report. If a quantity greater than zero reports for just one of the designations, all three quantities will be reported.

Loc #1 has a quantity of zero for all designations - will not be reported.

Loc #2 has a quantity of zero for two designations and 24 for the other - all quantities will report.

Sample SDQ Segment
_____
SDQ*EA*92*0551*72*0552*48*0553*12*0554*104*0555*72*0556*120*0557*12*0559*24

SDQ*EA*92*0001*6*0002*6*0003*12*0004*6*0005*12*0006*12*0007*6
SDQ*EA*92*0008*6*0009*12*0010*6*0101*6*0105*6*0201*12*0210*12
****

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**SDQ01**	**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	
			EA Each	
>>	**SDQ02**	**66**	**Identification Code Qualifier**	**M ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

92   Assigned by Buyer or Buyer's Agent

| >> | SDQ03 | 67 | **Identification Code** | **M** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

For Total Company Level SDQ Format this will be DSD, TGT, or Merv.

| >> | SDQ04 | 380 | **Quantity** | **M** | **R 1/15** |

Numeric value of quantity

| | SDQ05 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ06 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ07 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ08 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ09 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ10 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ11 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ12 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ13 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ14 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ15 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code.

| | SDQ16 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ17 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ18 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

| | SDQ19 | 67 | **Identification Code** | **X** | **AN 2/80** |

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

| | SDQ20 | 380 | **Quantity** | **X** | **R 1/15** |

Numeric value of quantity

SDQ21	**67**	**Identification Code**	**X**	**AN 2/80**

Code identifying a party or other code

This is DHC's 4-digit location code for DC/Store Level SDQ Format.

SDQ22	**380**	**Quantity**	**X**	**R 1/15**

Numeric value of quantity

Segment:	**CTT** Transaction Totals		
Position:	010		
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 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.	

Notes:

```
*********************************************************
Sample CTT Segment
_____

CTT*24
*********************************************************
```

Data Element Summary

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

			Segment:	**SE** Transaction Set Trailer

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.
Notes: **
Sample SE Segment
_____
SE*123*00001
****

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	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	