# Core-Mark 852 Product Activity Data

X12/V5010/852: 852 Product Activity Data

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# 852 Product Activity Data

### Functional Group=PD

Purpose: 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.

### **Heading:**

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	М	1			Must use
0200	XQ	Reporting Date/Action	М	1			Must use
0400	N9	Extended Reference Information	М	2			Must use
LOOP	ID - N1				1	N1/0600L	
0600	N1	Party Identification	М	1		N1/0600	Must use
0800	N3	Party Location	0	2			Used
0900	N4	Geographic Location	0	1			Used

### Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP	ID - LIN				999999		
0100	LIN	Item Identification	M	1			Must use
0300	PO4	Item Physical Details	0	1			Used
LOOP	ID - ZA				<u>&gt;1</u>	N2/0800L	
0800	ZA	Product Activity Reporting	M	1		N2/0800	Must use

### **Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	0	1		N3/0100	Used
0200	SE	Transaction Set Trailer	М	1			Must use

### Notes:

1/0600L	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).

- 1/0600 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).
- 2/0800L 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.
- 2/0800 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.

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3/0100 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.

### **ST** Transaction Set Header

Pos: 0100 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>			
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use			
		Description: Code uniquely identifying a Transaction Set							
		CodeList Summary (Total Codes: 318, Included: 1)							
		Code Name							
		852 Product Activity Data							
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use			
		Description: Identifying control number that	at must k	oe unique	e within the trar	nsaction set			

### **Semantics:**

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).

functional group assigned by the originator for a 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.

# **XQ** Reporting Date/Action

Pos: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To specify reporting dates, actions to be taken and an identifying number

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>				
XQ01	305	Transaction Handling Code	М	ID	1/2	Must use				
		Description: Code designating the action to be taken by all parties								
		CodeList Summary (Total Codes: 23, Included: 1)								
		Code Name								
		H Notification Only								
XQ02	373	Date	М	DT	8/8	Must use				
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year								
		Notes/Comments:								
		Report Start Date								

### **Semantics:**

- 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.

# N9 Extended Reference Information

Pos: 0400 Max: 2 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

### **Element Summary:**

<u>Ref</u> N901	<u>ld</u> 128		ent Name ence Identification Qualifier	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Must use			
11001	.20		ription: Code qualifying the Reference			2/0	madi add			
		Code	CodeList Summary (Total Codes: 1731, Included: 2)							
		<u>Code</u>	<u>Name</u>							
		IA	Internal Vendor Number							
			User Note 1:							
			Mandatory - Core-Mark assigned vendor number							
		ST	Store Number							
			User Note 1:							
			Mandatory							
N902	127	Refer	ence Identification	М	AN	1/50	Must use			
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier								

### **Syntax Rules:**

- 1. R0203 At least one of N902 or N903 is required.
- 2. C0605 If N906 is present, then N905 is required.

### **Semantics:**

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

# **Loop Party Identification**

Pos: 0600 Repeat: 1
Mandatory

Loop: N1 Elements: N/A

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0600	N1	Party Identification	M	1		Must use
0800	N3	Party Location	0	2		Used
0900	N4	Geographic Location	0	1		Used

# **N1** Party Identification

Pos: 0600 Max: 1
Heading - Mandatory
Loop: N1 Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
N101	98	Entity Identifier Code	M	ID	2/3	Must use			
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual							
		CodeList Summary (Total Codes: 1500, I	ncluded:	1)					
		Code Name							
		ST Ship To							
		User Note 1:							
		Mandatory							
N102	93	Name	0	AN	1/60	Used			
		Description: Free-form name							
N103	66	Identification Code Qualifier	М	ID	1/2	Must use			
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)							
		CodeList Summary (Total Codes: 241, In	cluded: '	1)					
		Code Name 9 D-U-N-S+4, D-U-N-S Number with	Four Ch	aracter S	uffix				
N104	67	Identification Code	M	AN	2/80	Must use			
		Description: Code identifying a party or o	ther code	е					

### **Syntax Rules:**

- 1. R0203 At least one of N102 or N103 is required.
- 2. P0304 If either N103 or N104 is present, then the other is required.

- 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.

# **N3** Party Location

Pos: 0800 Max: 2
Heading - Optional
Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used

**Description:** Address information

# **N4** Geographic Location

Pos: 0900 Max: 1 Heading - Optional Loop: N1 Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	Х	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Proving agency	ce) as d	efined by	appropriate go	overnment
N403	116	Postal Code	0	ID	3/15	Used
		<b>Description:</b> Code defining international problems (zip code for United States)	ostal zo	ne code (	excluding punc	tuation and
N404	26	Country Code	0	ID	2/3	Used
		Description: Code identifying the country				

### **Syntax Rules:**

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.
- 3. C0704 If N407 is present, then N404 is required.

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

# **Loop Item Identification**

Pos: 0100 Repeat: 999999

Mandatory

Loop: LIN Elements: N/A

User Option (Usage): Must use

Purpose: To specify basic item identification data

### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0100	LIN	Item Identification	M	1		Must use
0300	PO4	Item Physical Details	0	1		Used
0800		Loop ZA	М		>1	Must use

# **LIN** Item Identification

Pos: 0100 Max: 1 Detail - Mandatory Loop: LIN Elements: 7

User Option (Usage): Must use

Purpose: To specify basic item identification data

### **Element Summary:**

			_	_					
<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
LIN01	350	Assigned Identification	M	AN	1/20	Must use			
		Description: Alphanumeric characters assigned for differentiation within a transaction set							
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Must use			
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, Included: 1)  Code Name  UA U.P.C./EAN Case Code (2-5-5)							
LIN03	234	Product/Service ID	М	AN	1/48	Must use			
		Description: Identifying number for a product or service							
LIN04	235	Product/Service ID Qualifier	М	ID	2/2	Must use			
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, In Code Name  CB Buyer's Catalog Number	cluded:	1)					
LIN05	234	Product/Service ID	М	AN	1/48	Must use			
		Description: Identifying number for a product or service							
LIN06	235	Product/Service ID Qualifier	Х	ID	2/2	Used			
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
		CodeList Summary (Total Codes: 519, In Code Name  ZZ Mutually Defined	cluded:	1)					
LIN07	234	Product/Service ID	Х	AN	1/48	Used			
		Description: Identifying number for a product or service							
		Notes/Comments:  Valid values are 0 or 6  0 = Regular Products							

### **Syntax Rules:**

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.

6 = Plus Out (prebook) products

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- 2. P0607 If either LIN06 or LIN07 is present, then the other is required.
- 3. P0809 If either LIN08 or LIN09 is present, then the other is required.
- 4. P1011 If either LIN10 or LIN11 is present, then the other is required.
- 5. P1213 If either LIN12 or LIN13 is present, then the other is required.
- 6. P1415 If either LIN14 or LIN15 is present, then the other is required.
- 7. P1617 If either LIN16 or LIN17 is present, then the other is required.
- 8. P1819 If either LIN18 or LIN19 is present, then the other is required.
- 9. P2021 If either LIN20 or LIN21 is present, then the other is required.
- 10. P2223 If either LIN22 or LIN23 is present, then the other is required.
- 11. P2425 If either LIN24 or LIN25 is present, then the other is required.
- 12. P2627 If either LIN26 or LIN27 is present, then the other is required.
- 13. P2829 If either LIN28 or LIN29 is present, then the other is required.
- 14. P3031 If either LIN30 or LIN31 is present, then the other is required.

### **Semantics:**

1. LIN01 is the line item identification

- 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.

# **PO4** Item Physical Details

Pos: 0300 Max: 1 Detail - Optional Loop: LIN Elements: 1

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PO401	356	Pack	0	N0	1/6	Used

**Description:** The number of inner containers, or number of eaches if there are no inner containers, per outer container

### Syntax Rules:

- 1. P0203 If either PO402 or PO403 is present, then the other is required.
- 2. C0506 If PO405 is present, then PO406 is required.
- 3. P0607 If either PO406 or PO407 is present, then the other is required.
- 4. P0809 If either PO408 or PO409 is present, then the other is required.
- 5. C1013 If PO410 is present, then PO413 is required.
- 6. C1113 If PO411 is present, then PO413 is required.
- 7. C1213 If PO412 is present, then PO413 is required.
- 8. L13101112 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
- 9. C1716 If PO417 is present, then PO416 is required.
- 10. C1804 If PO418 is present, then PO404 is required.

### Semantics:

- 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.

- PO403 The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. 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.

# **Loop Product Activity Reporting**

Pos: 0800 Repeat: >1 Mandatory

Loop: ZA Elements: N/A

User Option (Usage): Must use

Purpose: To provide activity details concerning product being reported

### **Loop Summary:**

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
0800	ZA	Product Activity Reporting	M	1		Must use

# **ZA** Product Activity Reporting

Pos: 0800 Max: 1
Detail - Mandatory
Loop: ZA Elements: 5

User Option (Usage): Must use

Purpose: To provide activity details concerning product being reported

### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ZA01	859	Activity Code	M	ID	2/2	Must use
		Description: Code identifying activity detail	ils for the	e product	being reported	d
		CodeList Summary (Total Codes: 43, Incl	uded: 9)			
		Code Name				
		QA Current Inventory Quantity Available	for Ship	ment or	Sale	
		QC Quantity Committed				
		QD Additional Demand Quantity QO Quantity Out of Stock				
		QP Quantity On Order, Not Yet Receive	od.			
		QS Quantity Sold	·u			
		QT Adjustment to Inventory Quantity				
		QW Quantity Withdrawn from Warehous	e Invent	ory		
		QX Quantity Requested (Will Override F	Replenis	hment Pla	anning)	
ZA02	380	Quantity	М	R	1/15	Must use
		<b>Description:</b> Numeric value of quantity				
ZA03	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use
		<b>Description:</b> Code specifying the units in which a measurement has been taken	which a v	alue is b	eing expressed	d, or manner in
		CodeList Summary (Total Codes: 844, Inc	cluded: 7	<b>'</b> )		
		Code Name				
		BX Box				
		CA Case				
		CT Carton				
		EA Each				
		KG Kilogram LB Pound				
		PK Package				
ZA04	374	Date/Time Qualifier	М	ID	3/3	Must use
		<b>Description:</b> Code specifying type of date	or time.	or both d	ate and time	
		CodeList Summary (Total Codes: 1280, In Code Name	iciuueu.	1)		
		007 Effective				
ZA05	373	Date	М	DT	8/8	Must use
200	373					
		<b>Description:</b> Date expressed as CCYYMN	שוט whe	re CC rep	presents the fir	st two digits of

Ref Id Element Name Req Type Min/Max Usage the calendar year

### **Syntax Rules:**

- 1. P0203 If either ZA02 or ZA03 is present, then the other is required.
- 2. P0405 If either ZA04 or ZA05 is present, then the other is required.
- 3. P0607 If either ZA06 or ZA07 is present, then the other is required.

### **Semantics:**

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.

### **CTT** Transaction Totals

Pos: 0100 Max: 1 Summary - Optional Loop: N/A Elements: 1

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

### **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	М	N0	1/6	Must use

Description: Total number of line items in the transaction set

### **Syntax Rules:**

- 1. P0304 If either CTT03 or CTT04 is present, then the other is required.
- 2. P0506 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.

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# **SE** Transaction Set Trailer

Pos: 0200 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

**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)

### **Element Summary:**

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<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		<b>Description:</b> Total number of segments in segments	cluded ir	n a trans	action set inclu	iding ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use
		<b>Description:</b> Identifying control number the functional group assigned by the originator				nsaction set

### **Comments:**

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