# *Belk Guidelines for 4030VICS*

## *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 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:

Following this complete VICS convention and implementation guideline, find the profile describing its use in Canada.
Revision Notes:

1. 1/14/2015: Modified the ZA segment to include Activity Code QP (Quantity on Order, Not Yet Received).

## Heading:

| | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
| Must Use | 0100 | ST | Transaction Set Header | M | 1 | | |
| Must Use | 0200 | XQ | Reporting Date/Action | M | 1 | | |
| | 0400 | N9 | Reference Identification | O | >1 | | |
| | | | LOOP ID - N1 | | | 200 | |
| | 0600 | N1 | Name | O | 1 | | n1 |

## Detail:

| | Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|---|
| | | | LOOP ID - LIN | | | 999999 | |
| Must Use | 0100 | LIN | Item Identification | O | 1 | | |
| | | | LOOP ID - ZA | | | >1 | |
| Must Use | 0800 | ZA | Product Activity Reporting | M | 1 | | n2 |
| | 1000 | CTP | Pricing Information | O | 25 | | |
| Must Use | 1100 | SDQ | Destination Quantity | O | >1 | | |

## Summary:

| Pos. No. | Seg. ID | Name | Req. Des. | Max.Use | Loop Repeat | Notes and Comments |
|---|---|---|---|---|---|---|
| 0100 | CTT | Transaction Totals | O | 1 | | n3 |
| Must Use 0200 | 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.

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| | |
|---|---|
| **Segment:** | ***ST* Transaction Set Header** |
| **Position:** | 0100 |
| **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). |
| | 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. |
| **Comments:** | |

## Data Element Summary

| Ref. Des. | Data Element | Name | | Attributes |
|---|---|---|---|---|
| Must Use ST01 | 143 | **Transaction Set Identifier Code** | | M 1 ID 3/3 |
| | | Code uniquely identifying a Transaction Set | | |
| | | 852 Product Activity Data | | |
| Must Use ST02 | 329 | **Transaction Set Control Number** | | M 1 AN 4/9 |
| | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | |
| | | The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group. | | |

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**Segment:** *XQ* **Reporting Date/Action**

**Position:** 0200
**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

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| Must Use XQ01 | 305 | **Transaction Handling Code** | M 1 ID 1/2 |
| | | Code designating the action to be taken by all parties | |
| | | Use of code F or G requires the supplier to advise the distributor/warehouse of replenishment quantity usually via Transaction Set 855 or Transaction Set 856. | |
| | | H   Notification Only | |
| Must Use XQ02 | 373 | **Date** | M 1 DT 8/8 |
| | | Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | |
| | | The date (XQ02) will contain the Sunday date that is the beginning date of the reporting period for weekly transmissions. The date (XQ02) will contain the only date of the reporting period for daily transmissions. | |
| XQ03 | 373 | **Date** | O 1 DT 8/8 |
| | | Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year | |
| | | The date (XQ03) will contain the Saturday date that is the ending date of the reporting period for weekly transmissions. The date (XQ03) is not used for daily transmissions. | |

**Segment:** *N9* **Reference Identification**
**Position:** 0400
**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:**

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| **Must Use** | **N901** | **128** | **Reference Identification Qualifier** | **M** | **1 ID 2/3** |

Code qualifying the Reference Identification

  DP  Department Number

| | | | | | |
|---|---|---|---|---|---|
| **Must Use** | **N902** | **127** | **Reference Identification** | **X** | **1 AN 1/50** |

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

The reference identification (N902) will contain the four digit department number when the reference identification qualifier (N901) is "DP".

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**Segment:** *N1* **Name**
**Position:** 0600
**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 used to identify the retailer's location as it pertains to product activity data and must contain the identity of each organizational entity or a physical location. This is accomplished in one of two ways: BASIC There will be at least one occurrence of this segment that specifies the retailers buying/reporting location. If XQ01 contains code G, it is assumed that, for a particular buying location, the vendor has the bill to and ship to in the system. SPREADSHEET The SDQ segment specifies the retailer's buying/reporting locations. Therefore, codes BY and RL are not used in the N1 segment for the spreadsheet product activity.

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR. To identify the receiver of the transaction set, N101 will contain code TO.

**Data Element Summary**

| | Ref.<br>Des. | Data<br>Element | Name | Attributes | |
|---|---|---|---|---|---|
| **Must Use** | **N101** | **98** | **Entity Identifier Code** | **M** | **1 ID 2/3** |

Code identifying an organizational entity, a physical location, property or an individual

  RL  Reporting Location

| | | | | | |
|---|---|---|---|---|---|
| | **N102** | **93** | **Name** | **X** | **1 AN 1/60** |

Free-form name

The name (N102) will contain "Belk" when the entity identifier code (N101) is "RL".

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**Segment:** *LIN* **Item Identification**
**Position:** 0100
**Loop:** LIN Optional (Must Use)
**Level:** Detail
**Usage:** Optional (Must Use)
**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:** The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.

See Section III for complete U.P.C. and EAN code definitions.

## Data Element Summary

| Ref. Des. | Data Element | Name | Attributes |
|---|---|---|---|
| LIN01 | 350 | **Assigned Identification** | O 1 AN 1/20 |
| | | Alphanumeric characters assigned for differentiation within a transaction set | |
| Must Use LIN02 | 235 | **Product/Service ID Qualifier** | M 1 ID 2/2 |
| | | Code identifying the type/source of the descriptive number used in Product/Service ID (234) | |
| | |   UP  UCC - 12 | |
| Must Use LIN03 | 234 | **Product/Service ID** | M 1 AN 1/48 |
| | | Identifying number for a product or service | |

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   **Segment:** *ZA* **Product Activity Reporting**
    **Position:** 0800
      **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 ZA02 and ZA03 are used to specify the quantity of the item identified in the LIN segment, the SDQ segment is not used.

All quantity values (ZA03 or quantity values in the SDQ segment) are expressed as a positive number for all activities except for adjustments (code QA and QT in ZA01). An adjustment is any activity, other than a

retail sale or warehouse withdrawal, that changes the inventory position for the item. Inter-store transfers are reported as a positive adjustment for the transfer-to store and a negative adjustment for the transfer-from store. An adjustment to inventory can also be made as a result of a physical inventory, for example, shrinkage is reported as a negative adjustment, understated inventory is reported as a positive adjustment.

To express activity in dollars, use the unit of measure DO (Dollars, U.S.) in ZA03 or SDQ01. Multiple ZA segments may be used with the same activity code to specify units and dollars, and, to report activity at different prices. Sales types, promotion/event sales, clearance/markdown sales and non-promotion/non-clearance sales are used in conjunction with a CTP segment to specify the price and/or sales type. For example, if three stores sold an item for one price and five other stores sold the same item for a different price, two ZA loops may be used to report the sale quantity at the appropriate price. The first ZA loop would contain the price in the CTP segment and one SDQ segment with the three stores/quantities. The second loop would specify the other price and one SDQ segment for the remaining five stores/quantities.

## Data Element Summary

| Ref. Des. | Data ElementName | | Attributes | | |
|---|---|---|---|---|---|
| Must UseZA01 | 859 | Activity Code | M | 1 | ID 2/2 |

Code identifying activity details for the product being reported

QA  Current Inventory Quantity Available for Shipment or Sale

On-hand inventory at store/distribution center/warehouse available for shipment or sale

QP  Quantity On Order, Not Yet Received

Total merchandise quantity ordered and not yet received by the retailer

QS  Quantity Sold

Sales at retail (gross quantity, no returns netted out)

QT  Adjustment to Inventory Quantity

Adjustment to inventory quantity as a result of a physical inventory discrepancy or internal movement of goods from one location to another

QU  Quantity Returned By Consumer

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**Segment:** *CTP* **Pricing Information**

**Position:** 1000
**Loop:** ZA Mandatory
**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.
**Semantic Notes:** 1 CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2 CTP08 is the rebate amount.
**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.
**Notes:** The prices specified in this segment, in the ZA loop, apply only to quantities within that ZA loop, e.g., quantities in the ZA or SDQ segments. This price will override the same price type listed in the LIN loop, if used.

This segment is used to report prices associated with the item and activity. It is not used to report total dollar values. This segment can also be used to further define quantity sold/quantity on order within the associated ZA loop by sales type (i.e., promotion/event sales, clearance/markdown sales, non-promotion/non-markdown sales).

# Data Element Summary

|  | Ref.<br>Des. | Data<br>ElementName |  | Attributes |
|---|---|---|---|---|
| Must Use | CTP02 | 236 | **Price Identifier Code** | X  1 ID 3/3 |

Code identifying pricing specification

  RTL   Retail

|  | Ref.<br>Des. | Data<br>ElementName |  | Attributes |
|---|---|---|---|---|
|  | CTP03 | 212 | **Unit Price** | X  1 R 1/17 |

Price per unit of product, service, commodity, etc.

The price is sent with a decimal point only when needed, e.g., $15.95 would be sent as "15.95", and $29.00 would be sent as "29".

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**Segment:** *SDQ* **Destination Quantity**
**Position:** 1100
**Loop:** ZA Mandatory
**Level:** Detail
**Usage:** Optional (Must Use)
**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:** This segment is used to distribute item quantity to various locations.

If this segment is used to specify the quantity of the item identified in the LIN segment, ZA02 and ZA03 are not used.

# Data Element Summary

|  | Ref.<br>Des. | Data<br>ElementName |  | Attributes |
|---|---|---|---|---|
| Must Use | SDQ01 | 355 | **Unit or Basis for Measurement Code** | M  1 ID 2/2 |

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

See Section III for code list.

Refer to 004030VICS Data Element Dictionary for acceptable code values.

|  | Ref.<br>Des. | Data<br>ElementName |  | Attributes |
|---|---|---|---|---|
| Must Use | SDQ02 | 66 | **Identification Code Qualifier** | O  1 ID 1/2 |

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

 92  Assigned by Buyer or Buyer's Agent

|  | Ref.<br>Des. | Data<br>ElementName |  | Attributes |
|---|---|---|---|---|
| Must Use | SDQ03 | 67 | **Identification Code** | M  1 AN 2/80 |

Code identifying a party or other code

The identification code (SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, SDQ21) will contain the four digit store number.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Must Use** | **SDQ04** | 380 | **Quantity** <br> Numeric value of quantity | M | 1 | R 1/15 |
| | **SDQ05** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ06** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ07** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ08** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ09** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ10** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ11** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ12** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ13** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ14** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ15** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ16** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ17** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ18** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ19** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ20** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ21** | 67 | **Identification Code** <br> Code identifying a party or other code | X | 1 | AN 2/80 |
| | **SDQ22** | 380 | **Quantity** <br> Numeric value of quantity | X | 1 | R 1/15 |
| | **SDQ23** | 310 | **Location Identifier** <br> Code which identifies a specific location | O | 1 | AN 1/30 |

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**Segment:** *CTT* **Transaction Totals**
**Position:** 0100
**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

|  | Ref. Des. | Data ElementName | Attributes |
|---|---|---|---|
| **Must Use** | **CTT01** | **354 Number of Line Items** | **M 1 N0 1/6** |

Total number of line items in the transaction set

The number of LIN segments present in the transaction set

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**Segment:** *SE* **Transaction Set Trailer**
**Position:** 0200
**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

|  | Ref. Des. | Data ElementName | Attributes |
|---|---|---|---|
| **Must Use** | **SE01** | **96 Number of Included Segments** | **M 1 N0 1/10** |

Total number of segments included in a transaction set including ST and SE segments

| **Must Use** | **SE02** | **329 Transaction Set Control Number** | **M 1 AN 4/9** |
|---|---|---|---|

Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

This must be the same number as is in the ST segment (ST02) for the transaction set.

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