

**A Book Industry System
Advisory Committee
Implementation Guideline for
EDI**

852 PRODUCT ACTIVITY DATA

VERSION: MARCH 2000

852 Product Activity Data

Functional Group=PD

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:

- 1/060 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).
- 2/180 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, but not in both.
- 3/210 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.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Required
020	XQ	Reporting Date/Action	M	1			Required
040	N9	Reference Identification	O	>1			Used
050	PER	Administrative Communications Contact	O	3			Used
LOOP ID - N1						200	
060	N1	Name	O	1		N1/060	Used
070	N2	Additional Name Information	O	1			Used
080	N3	Address Information	O	2			Used
090	N4	Geographic Location	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN						999999	
150	LIN	Item Identification	O	1			Required
160	CTP	Pricing Information	O	25			Used
171	N9	Reference Identification	O	>1			Used
LOOP ID - ZA						>1	
180	ZA	Product Activity Reporting	M	1		N2/180	Required
200	SDQ	Destination Quantity	O	>1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
210	CTT	Transaction Totals	O	1		N3/210	Required

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
220	SE	Transaction Set Trailer	M	1			Required

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>852</td> <td>X12.52 Product Activity Data</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	852	X12.52 Product Activity Data				
<u>Code</u>	<u>Name</u>									
852	X12.52 Product Activity Data									
ST02	329	Transaction Set Control Number Description: 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	Required				

XQ Reporting Date/Action

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

To specify reporting date and action to be taken

Semantics:

1. XQ02 is the reporting date. If reporting a date range, then XQ02 is the start date and XQ03 is the end date.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>										
XQ01	305	Transaction Handling Code Description: Code designating the action to be taken by all parties	M	ID	1/2	Required										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>F</td> <td>Plan and Submit Suggested Purchase Order(s)</td> </tr> <tr> <td>G</td> <td>Plan Order(s) and Ship Product</td> </tr> <tr> <td>H</td> <td>Notification Only</td> </tr> <tr> <td>J</td> <td>Payment Requested (Adjustment to Account)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	F	Plan and Submit Suggested Purchase Order(s)	G	Plan Order(s) and Ship Product	H	Notification Only	J	Payment Requested (Adjustment to Account)				
<u>Code</u>	<u>Name</u>															
F	Plan and Submit Suggested Purchase Order(s)															
G	Plan Order(s) and Ship Product															
H	Notification Only															
J	Payment Requested (Adjustment to Account)															
XQ02	373	Date Description: Date (YYMMDD) User: <i>Start Date</i>	M	DT	6/6	Required										
XQ03	373	Date Description: Date (YYMMDD) User: <i>End Date</i>	O	DT	6/6	Used										

N9 Reference Identification

Pos: 040	Max: >1
Heading - Optional	
Loop: N/A	Elements: 7

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IK</td> <td>Invoice Number Description: Manufacturer's invoice number for vehicle/component</td> </tr> <tr> <td>IN</td> <td>Consignee's Invoice Number</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	IK	Invoice Number Description: Manufacturer's invoice number for vehicle/component	IN	Consignee's Invoice Number	PO	Purchase Order Number				
<u>Code</u>	<u>Name</u>													
IK	Invoice Number Description: Manufacturer's invoice number for vehicle/component													
IN	Consignee's Invoice Number													
PO	Purchase Order Number													
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used								
* N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Not Used								
N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Used								
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used								
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* N907	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used

PER Administrative Communications Contact

Pos: 050	Max: 3
Heading - Optional	
Loop: N/A	Elements: 9

To identify a person or office to whom administrative communications should be directed

Syntax:

1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.
2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are required.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Required
		<u>Code</u> <u>Name</u> IC Information Contact				
PER02	93	Name Description: Free-form name	O	AN	1/35	Used
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number	C	ID	2/2	Used
		<u>Code</u> <u>Name</u> BN Beeper Number CP Cellular Phone EM Electronic Mail EX Telephone Extension FX Facsimile TE Telephone TM Telemail				
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	C	ID	2/2	Used
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number User: Refer to code list specified in 'PER03' for usage.	C	ID	2/2	Used
PER08	364	Communication Number	C	AN	1/80	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Complete communications number including country or area code when applicable				
* PER09	443	Contact Inquiry Reference	O	AN	1/20	Not Used
		Description: Additional reference number or description to clarify a contact number				

N1 Name

Pos: 060	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

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

Syntax:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	M	ID	2/2	Required																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BS</td> <td>Bill and Ship To</td> </tr> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>RL</td> <td>Reporting Location</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td colspan="2"><i>User: Use only when the ship from is different than the reporting location, such as a drop shipment.</i></td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BS	Bill and Ship To	BT	Bill-to-Party	RL	Reporting Location	SF	Ship From	<i>User: Use only when the ship from is different than the reporting location, such as a drop shipment.</i>		ST	Ship To	VN	Vendor				
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VN	Vendor																					
N102	93	Name Description: Free-form name	C	AN	1/35	Used																
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>15</td> <td>Standard Address Number (SAN)</td> </tr> <tr> <td>91</td> <td>Assigned by Seller or Seller's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	15	Standard Address Number (SAN)	91	Assigned by Seller or Seller's Agent														
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15	Standard Address Number (SAN)																					
91	Assigned by Seller or Seller's Agent																					
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used																
* N105	706	Entity Relationship Code Description: Code describing entity relationship	O	ID	2/2	Not Used																
* N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	O	ID	2/2	Not Used																

N2 Additional Name Information

Pos: 070	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

To specify additional names or those longer than 35 characters in length

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	M	AN	1/35	Required
N202	93	Name Description: Free-form name	O	AN	1/35	Used

N3 Address Information

Pos: 080	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/35	Required
N302	166	Address Information Description: Address information	O	AN	1/35	Used

N4 Geographic Location

Pos: 090	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

To specify the geographic place of the named party

Syntax:

1. N406 C0605 -- If N406 is present, then N405 is required

Comments:

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used
* N405	309	Location Qualifier Description: Code identifying type of location	C	ID	1/2	Not Used
* N406	310	Location Identifier Description: Code which identifies a specific location	O	AN	1/30	Not Used

LIN Item Identification

Pos: 150	Max: 1
Detail - Optional	
Loop: LIN	Elements: 31

To specify basic item identification data

Syntax:

P0405 -- If either LIN04 or LIN05 are present, then the others are required.
 P0607 -- If either LIN06 or LIN07 are present, then the others are required.
 P0809 -- If either LIN08 or LIN09 are present, then the others are required.
 P1011 -- If either LIN10 or LIN11 are present, then the others are required.
 P1213 -- If either LIN12 or LIN13 are present, then the others are required.
 P1415 -- If either LIN14 or LIN15 are present, then the others are required.
 P1617 -- If either LIN16 or LIN17 are present, then the others are required.
 P1819 -- If either LIN18 or LIN19 are present, then the others are required.
 P2021 -- If either LIN20 or LIN21 are present, then the others are required.
 P2223 -- If either LIN22 or LIN23 are present, then the others are required.
 P2425 -- If either LIN24 or LIN25 are present, then the others are required.
 P2627 -- If either LIN26 or LIN27 are present, then the others are required.
 P2829 -- If either LIN28 or LIN29 are present, then the others are required.
 P3031 -- If either LIN30 or LIN31 are present, then the others are required.

Semantics:

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., UPC No., ISBN No., Model No., or SKU.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID	2/2	Required
		Code		Name		
		CB		Buyer's Catalog Number		
		EN		European Article Number (EAN) (2-5-5-1)		
		IB		International Standard Book Number (ISBN)		
		RY		Record Keeping or Model Year Description: Year of publication		
		SJ		Religious Retail Non-book Item		
		SK		Stock Keeping Unit (SKU)		
		UP		U.P.C. Consumer Package Code (1-5-5-1)		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/40	Required
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN08	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN11	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN12	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN13	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN14	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN15	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN16	235	Product/Service ID Qualifier	C	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.				
LIN17	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN18	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN19	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN20	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN21	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN22	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN23	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN24	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN25	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN26	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN27	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used
LIN28	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage.	C	ID	2/2	Used
LIN29	234	Product/Service ID	C	AN	1/40	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Identifying number for a product or service				
LIN30	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: <i>Refer to code list specified in 'LIN02' for usage.</i>	C	ID	2/2	Used
LIN31	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Used

CTP Pricing Information

Pos: 160	Max: 25
Detail - Optional	
Loop: LIN	Elements: 11

To specify pricing information

Syntax:

1. CTP04 P0405 -- If either CTP04 or CTP05 are present, then the others are required.
2. CTP06 C0607 -- If CTP06 is present, then CTP07 is required
3. CTP09 C0902 -- If CTP09 is present, then CTP02 is required
4. CTP10 C1002 -- If CTP10 is present, then CTP02 is required

Semantics:

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.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																				
CTP01	687	Class of Trade Code Description: Code indicating class of trade	O	ID	2/2	Used																				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CR</td> <td>Chain Store Retail</td> </tr> <tr> <td>DI</td> <td>Distributor</td> </tr> <tr> <td>GR</td> <td>General Retail</td> </tr> <tr> <td>IN</td> <td>Institutional</td> </tr> <tr> <td>MF</td> <td>Manufacturer</td> </tr> <tr> <td colspan="2">User: Used to specify a shipment on behalf of a publisher to a publisher's customer</td> </tr> <tr> <td>RS</td> <td>Resale</td> </tr> <tr> <td>WH</td> <td>Wholesaler</td> </tr> <tr> <td colspan="2">User: Used to specify a transfer within the same organization</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CR	Chain Store Retail	DI	Distributor	GR	General Retail	IN	Institutional	MF	Manufacturer	User: Used to specify a shipment on behalf of a publisher to a publisher's customer		RS	Resale	WH	Wholesaler	User: Used to specify a transfer within the same organization					
<u>Code</u>	<u>Name</u>																									
CR	Chain Store Retail																									
DI	Distributor																									
GR	General Retail																									
IN	Institutional																									
MF	Manufacturer																									
User: Used to specify a shipment on behalf of a publisher to a publisher's customer																										
RS	Resale																									
WH	Wholesaler																									
User: Used to specify a transfer within the same organization																										
CTP02	236	Price Identifier Code Description: Code identifying pricing specification	C	ID	3/3	Used																				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>NET</td> <td>Net Item Price</td> </tr> <tr> <td>PRP</td> <td>Promotional price</td> </tr> <tr> <td>SLP</td> <td>Suggested List Price</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	NET	Net Item Price	PRP	Promotional price	SLP	Suggested List Price																
<u>Code</u>	<u>Name</u>																									
NET	Net Item Price																									
PRP	Promotional price																									
SLP	Suggested List Price																									
CTP03	212	Unit Price Description: Price per unit of product, service, commodity, etc.	O	R	1/17	Used																				
CTP04	380	Quantity	C	R	1/15	Used																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
		Description: Numeric value of quantity										
CTP05	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used						
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ST</td> <td>Set</td> </tr> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	ST	Set	UN	Unit				
<u>Code</u>	<u>Name</u>											
ST	Set											
UN	Unit											
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used						
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used						
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used						
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used						
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used						
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used						
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used						
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used						
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used						
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used						
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used						
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used						
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used						
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used						
CTP06	648	Price Multiplier Qualifier	O	ID	3/3	Used						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code indicating the type of price multiplier				
		<u>Code</u> <u>Name</u>				
		DIS Discount Multiplier				
CTP07	649	Multiplier	C	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
* CTP08	782	Monetary Amount	O	R	1/15	Not Used
		Description: Monetary amount				
* CTP09	639	Basis of Unit Price Code	O	ID	2/2	Not Used
		Description: Code identifying the type of unit price for an item				
* CTP10	499	Condition Value	O	AN	1/10	Not Used
		Description: Identifies rate restrictions or provisions				
* CTP11	289	Multiple Price Quantity	O	N0	1/2	Not Used
		Description: Quantity of units for a given price, e.g., 3 for \$10.00				

N9 Reference Identification

Pos: 171	Max: >1
Detail - Optional	
Loop: LIN	Elements: 7

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IK</td> <td>Invoice Number Description: Manufacturer's invoice number for vehicle/component</td> </tr> <tr> <td>IN</td> <td>Consignee's Invoice Number</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	IK	Invoice Number Description: Manufacturer's invoice number for vehicle/component	IN	Consignee's Invoice Number	PO	Purchase Order Number				
<u>Code</u>	<u>Name</u>													
IK	Invoice Number Description: Manufacturer's invoice number for vehicle/component													
IN	Consignee's Invoice Number													
PO	Purchase Order Number													
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used								
* N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Not Used								
N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Used								
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used								
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* N907	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not Used
	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Required
	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used
	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used

ZA Product Activity Reporting

Pos: 180	Max: 1
Detail - Mandatory	
Loop: ZA	Elements: 8

To provide activity details concerning product being reported

Syntax:

P0203 -- If either ZA02 or ZA03 are present, then the others are required.

P0405 -- If either ZA04 or ZA05 are present, then the others are required.

P0607 -- If either ZA06 or ZA07 are present, then the others are 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ZA01	859	Activity Code Description: Code identifying activity details for the product being reported	M	ID	2/2	Required
		Code Name				
		Q2 Quantity Returned				
		QA Current Inventory Quantity Available for Shipment or Sale Description: Indicates the quantity currently available to be sold or shipped				
		QM Maximum Inventory Quantity Description: The maximum inventory quantity for replenishment purposes				
		QP Quantity On Order,Not Yet Received Description: Total quantity expected to be received from supplier for current reporting period, but not yet received				
		QS Quantity Sold				
		QT Adjustment to Inventory Quantity Description: The Book Industry uses this value to specify SALES adjustments to a prior period.				
		QZ Quantity Transferred				
		TS Total Sales Quantity Description: Total sales of product				
ZA02	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
ZA03	355	Unit or Basis for Measurement Code	C	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	UN	Unit						
<u>Code</u>	<u>Name</u>											
UN	Unit											
ZA04	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped	C	ID	3/3	Used		
<u>Code</u>	<u>Name</u>											
011	Shipped											
ZA05	373	Date Description: Date (YYMMDD) User: <i>Used to specify the date of the sale</i>	C	DT	6/6	Used						
ZA06	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SB</td> <td>Sales Region Number</td> </tr> <tr> <td>ST</td> <td>Store Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SB	Sales Region Number	ST	Store Number	C	ID	2/3	Used
<u>Code</u>	<u>Name</u>											
SB	Sales Region Number											
ST	Store Number											
ZA07	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier User: <i>C - College G - General K - Children's M - Mall division P - Specialty S - Superstore division W - Warehouse</i>	C	AN	1/30	Used						
* ZA08	1073	Yes/No Condition or Response Code Description: Code indicating a Yes or No condition or response	O	ID	1/1	Not Used						

SDQ Destination Quantity

Pos: 200	Max: >1
Detail - Optional	
Loop: ZA	Elements: 23

To specify destination and quantity detail

Syntax:

1. SDQ05 P0506 -- If either SDQ05 or SDQ06 are present, then the others are required.
2. SDQ07 P0708 -- If either SDQ07 or SDQ08 are present, then the others are required.
3. SDQ09 P0910 -- If either SDQ09 or SDQ10 are present, then the others are required.
4. SDQ11 P1112 -- If either SDQ11 or SDQ12 are present, then the others are required.
5. SDQ13 P1314 -- If either SDQ13 or SDQ14 are present, then the others are required.
6. SDQ15 P1516 -- If either SDQ15 or SDQ16 are present, then the others are required.
7. SDQ17 P1718 -- If either SDQ17 or SDQ18 are present, then the others are required.
8. SDQ19 P1920 -- If either SDQ19 or SDQ20 are present, then the others are required.
9. SDQ21 P2122 -- If either SDQ21 or SDQ22 are present, then the others are required.

Semantics:

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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
SDQ01	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	M	Comp		Required				
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	UN	Unit				
<u>Code</u>	<u>Name</u>									
UN	Unit									
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used				
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used				
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used				
*	1018	Exponent	O	R	1/15	Not Used				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Power to which a unit is raised				
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
SDQ02	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	O	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		15 Standard Address Number (SAN)				
SDQ03	67	Identification Code Description: Code identifying a party or other code	M	AN	2/20	Required
SDQ04	380	Quantity Description: Numeric value of quantity	M	R	1/15	Required
SDQ05	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ06	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ07	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ08	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ09	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ10	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ11	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ12	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ13	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ14	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ15	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ16	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ17	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ18	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ19	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ20	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
SDQ21	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
SDQ22	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
* SDQ23	310	Location Identifier Description: Code which identifies a specific location	O	AN	1/30	Not Used

CTT Transaction Totals

Pos: 210	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

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

Syntax:

P0304 -- If either CTT03 or CTT04 are present, then the others are required.

P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	N0	1/6	Required
* CTT02	347	Hash Total Description: 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.	O	R	1/10	Not Used
* CTT03	81	Weight Description: Numeric value of weight	C	R	1/10	Not Used
* CTT04	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* CTT05	183	Volume Description: Value of volumetric measure	C	R	1/8	Not Used
* CTT06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* CTT07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used

SE Transaction Set Trailer

Pos: 220	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Comments:

- SE is the last segment of each transaction set.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Required
SE02	329	Transaction Set Control Number Description: 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	Required