

Wal-Mart Stores, Inc.

Electronic Data Interchange Implementation Guideline

ANSI X12 Version 5010

5
0
1
0

852 Product Activity Data

Business Usage:

Reserved Purchase Order
Sam's, Warehouse, and Store

EDI Direction: From Wal-Mart

Implementation Guide Version 1.1
Published September 2004
Last Changed July 2005

Table of Contents

852 Product Activity Data – Wal-Mart Stores, Inc. Introduction.....	3
852 Product Activity Data – Wal-Mart Implementation Reserved Purchase Order	4
Wal-Mart Business Example of an 852 Document - Warehouse Reserved Purchase Orders	5
Sam’s Business Example of an 852 Document - Warehouse Reserved Purchase Orders	6
Wal-Mart Business Example of an 852 Document - Store Reserved Purchase Orders	7
852 Product Activity Data - ANSI X12 Introduction.....	21
852 Product Activity Data - ANSI X12 Standards	22
852 Product Activity Data – VICS Introduction.....	24
852 Product Activity Data – VICS Guidelines	25
Conventions used in these guidelines.....	27
Example of Conventions	29
852 Product Activity Data – Changes from Previous (4030) Version	30
Change History	31

852 Product Activity Data – Wal-Mart Stores, Inc.

Introduction

Wal-Mart uses the 852 Reserved Purchase Order (RPO) document to transmit a block of purchase order numbers to suppliers. These purchase orders should be used on a first in, first out basis.

If changes occur in the 9-digit vendor number, department number (sequence or sub-sequence), or order type, a new block of purchase order numbers will be sent (to replace the old numbers, which should be cancelled).

In this implementation of the 852 Wal-Mart doesn't use any of the information in the Detail Section, only the Heading and Summary are sent in this document. This is NOT against standards and if this is the reason your document is failing please contact your EDI Team to correct the "mapping".

The number of RPO numbers generated will vary based on how quickly you use them. After you receive your block of PO numbers, you must create and send an 855 (Purchase order confirmation) to fill that order. When the 855 is received, Wal-Mart will mark that purchase order number as used. It is very critical that Wal-Mart receives confirmation of an RPO. If the confirmation is not sent, then the system will not generate more orders. Failure to follow this process will lead to the supplier not having any available purchase order numbers to ship merchandise.

Wal-Mart prefers that you store the RPO's in a fifo (first in, first out) method for 2 reasons:

1. To ensure unused RPO numbers do not build up in either of the systems.
2. To ensure the RPO number count does not reach the minimum, keeping new RPO numbers from being generated.

Note: When the purchase order numbers are transmitted, they are not necessarily in sequence.

Suppliers are responsible for notifying the Supplier Support Desk within a week if assigned RPO's reach expiration date (typically 90 days from the issue date sent in the 852 RPO). These RPO's will be marked as used, and more RPO numbers will be sent. The Supplier Support Desk will not mark RPO's as used if they have not expired.

852 Product Activity Data – Wal-Mart Implementation

Reserved Purchase Order

Functional Group ID=**PD**

Heading:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	XQ	Reporting Date/Action	M	1		
	0300	XPO	Preassigned Purchase Order Numbers	O	>1		
	0400	N9	Extended Reference Information	O	>1		
LOOP ID - N1							200
	0600	N1	Party Identification	O	1		

Summary:

	<u>Pos.</u> <u>No.</u>	<u>Seg.</u> <u>ID</u>	<u>Name</u>	<u>Req.</u> <u>Des.</u>	<u>Max.Use</u>	<u>Loop</u> <u>Repeat</u>	<u>Notes and</u> <u>Comments</u>
M	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).

Wal-Mart Business Example of an 852 Document - Warehouse Reserved Purchase Orders

EDI TRANSMISSION DATA	EXPLANATION
ST*852*0001	852 is the Transaction Set Identifier Code . “852” indicates “Product Activity Data”. 0001 is the Transaction Set Control Number .
XQ*G*20050709	G is the Transaction Set Handling Code . “G” indicates “Plan Order(s) and Ship Product”. 20050709 is the beginning report Date .
XPO*0012876543**UL*0078742028651	0012876543 is the Purchase Order Number . UL is the Identification Code Qualifier . “UL” indicates “Global Location Number (GLN)”. 0078742028651 is the Identification Code (Wal-Mart’s GLN Number).
XPO*0012897546**UL*0078742028743	0012897546 is the Purchase Order Number . UL is the Identification Code Qualifier . “UL” indicates “Global Location Number (GLN)”. 0078742028743 is the Identification Code (Wal-Mart’s GLN Number).
N9*IA*123456120	IA is the Reference Identification Qualifier . “IA” indicates “Internal Vendor Number”. 123456120 is the Reference Identification (9-digit Vendor Number).
N9*DP*00012	DP is the Reference Identification Qualifier . “DP” indicates “Department Number”. 00012 is the Reference Identification (Department Number).
N9*MR*0050	MR is the Reference Identification Qualifier . “MR” indicates “Merchandise Type Code”. 0050 is the Reference Identification (Order Type).
N1*FR*WAL-MART STORES INC*UL*0078742000008	FR is the Entity Identifier Code . “FR” indicates “Message From”. WAL-MART STORES INC is the Name . UL is the Identification Code Qualifier . “UL” indicates “Global Location Number (GLN)”. 0078742000008 is the Identification Code (Wal-Mart’s GLN Number).
N1*TO*SUPPLIER NAME	TO is the Entity Identifier Code . “TO” Indicates “Message To”. SUPPLIER NAME is the Name .
SE*10*0001	10 is the total Number of Included Segments in the transaction set including ST and SE segments. 0001 is the Transaction Set Control Number . This number must be equal to the Transaction Set Control Number in the ST Segment.

Sam's Business Example of an 852 Document - Warehouse Reserved Purchase Orders

EDI TRANSMISSION DATA	EXPLANATION
ST*852*0001	852 is the Transaction Set Identifier Code . "852" indicates "Product Activity Data". 0001 is the Transaction Set Control Number .
XQ*G*20041209	G is the Transaction Set Handling Code . "G" indicates "Plan Order(s) and Ship Product". 20041209 is the beginning report Date .
XPO*4927610426**UL*0605388008046	4927610426 is the Purchase Order Number . UL is the Identification Code Qualifier . "UL" indicates "Global Location Number (GLN)". 0605388008046 is the Identification Code (Sam's GLN Number).
XPO*4713618549**UL*0605388006042	4713618549 is the Purchase Order Number . UL is the Identification Code Qualifier . "UL" indicates "Global Location Number (GLN)". 0605388006042 is the Identification Code (Sam's GLN Number).
N9*IA*123456610	IA is the Reference Identification Qualifier . "IA" indicates "Internal Vendor Number". 123456610 is the Reference Identification (9-digit Vendor Number).
N9*DP*00061	DP is the Reference Identification Qualifier . "DP" indicates "Department Number". 00061 is the Reference Identification (Department Number).
N9*MR*0020	MR is the Reference Identification Qualifier . "MR" indicates "Merchandise Type Code". 0050 is the Reference Identification (Order Type).
N1*FR*SAMS CLUB*UL* 0605388000002	FR is the Entity Identifier Code . "FR" indicates "Message From". SAMS CLUB is the Name . UL is the Identification Code Qualifier . "UL" indicates "Global Location Number (GLN)". 0605388000002 is the Identification Code (Sam's GLN Number).
N1*TO*SUPPLIER NAME	TO is the Entity Identifier Code . "TO" Indicates "Message To". SUPPLIER NAME is the Name .
SE*10*0001	10 is the total Number of Included Segments in the transaction set including ST and SE segments. 0001 is the Transaction Set Control Number . This number must be equal to the Transaction Set Control Number in the ST Segment.

Wal-Mart Business Example of an 852 Document - Store Reserved Purchase Orders

EDI TRANSMISSION DATA	EXPLANATION
ST*852*0001	852 is the Transaction Set Identifier Code . “852” indicates “Product Activity Data”. 0001 is the Transaction Set Control Number .
XQ*G*20050109	G is the Transaction Set Handling Code . “G” indicates “Plan Order(s) and Ship Product”. 20050109 is the beginning report Date .
XPO*0012876543	0012876543 is the Purchase Order Number .
XPO*0012897546	0012897546 is the Purchase Order Number .
N9*IA*123456020	IA is the Reference Identification Qualifier . “IA” indicates “Internal Vendor Number”. 123456020 is the Reference Identification (9-digit Vendor Number).
N9*DP*00002	DP is the Reference Identification Qualifier . “DP” indicates “Department Number”. 00002 is the Reference Identification (Department Number).
N9*MR*0077	MR is the Reference Identification Qualifier . “MR” indicates “Merchandise Type Code”. 0077 is the Reference Identification (Order Type).
N1*FR*WAL-MART STORES INC*UL*0078742000008	FR is the Entity Identifier Code . “FR” indicates “Message From”. WAL-MART STORES INC is the Name . UL is the Identification Code Qualifier . “UL” indicates “Global Location Number (GLN)”. 0078742000008 is the Identification Code (Wal-Mart’s GLN Number).
N1*TO*SUPPLIER NAME	TO is the Entity Identifier Code . “TO” Indicates “Message To”. SUPPLIER NAME is the Name .
SE*10*0001	10 is the total Number of Included Segments in the transaction set including ST and SE segments. 0001 is the Transaction Set Control Number . This number must be equal to the Transaction Set Control Number in the ST Segment.

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. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:

Data Element Summary				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M 1 ID 3/3
		852	Product Activity Data	
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set 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.	M 1 AN 4/9
	ST03	1705	<i>Implementation Convention Reference</i> <i>Reference assigned to identify Implementation Convention</i>	O 1 AN 1/35

Segment: **XQ** Reporting Date/Action
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To specify reporting dates, actions to be taken and an identifying number
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.
- 2 XQ04 is a unique report identifier assigned by the sender.

Comments:

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
M	XQ01	305	Transaction Handling Code Code designating the action to be taken by all parties Use of code G requires the supplier to advise the distributor/warehouse of replenishment quantity usually via Transaction Set 855 or Transaction Set 856. G Plan Order(s) and Ship Product	M 1 ID 1/2
M	XQ02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year This is the issue date for the reserved PO numbers.	M 1 DT 8/8
	XQ03	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O 1 DT 8/8
	XQ04	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O 1 AN 1/50
	XQ05	353	Transaction Set Purpose Code Code identifying purpose of transaction set	O 1 ID 2/2

Segment: **XPO** Preassigned Purchase Order Numbers
Position: 0300
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To transmit preassigned purchase order numbers
Syntax Notes: 1 If either XPO03 or XPO04 is present, then the other is required.
Semantic Notes: 1 XPO01 is the preassigned purchase order number. If a range of purchase order numbers is to be transmitted, use XPO01 for the first number and XPO02 as the ending number.
Comments: 1 XPO03 and XPO04 specify the location to which the purchase order numbers apply.
Notes: **This segment is used only when purchase order number assignment has not previously been established by trading partners.**

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	XPO01	324 Purchase Order Number	M 1 AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	
	XPO02	324 <i>Purchase Order Number</i>	O 1 AN 1/22
		<i>Identifying number for Purchase Order assigned by the orderer/purchaser</i>	
	XPO03	66 Identification Code Qualifier	X 1 ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<u>This is only sent for either Wal-Mart warehouse or Sam's RPO's.</u>	
		UL Global Location Number (GLN)	
		A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system	
		<u>This is the 13-digit Global Location Number (GLN).</u>	
	XPO04	67 Identification Code	X 1 AN 2/80
		Code identifying a party or other code	
		<u>This is the location code as defined by XPO03. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</u>	
		<u>This is the Wal-Mart or Sam's Global Location Number (GLN) for the distribution center and is only sent for warehouse RPO's.</u>	

Segment:	N9 Extended Reference Information
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.	Data	Name	Attributes	
Des.	Element			
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system	M	1 ID 2/3
	N902	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Wal-Mart assigned 9-digit vendor number	X	1 AN 1/50
	N903	369 Free-form Description Free-form descriptive text	X	1 AN 1/45
	N904	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1 DT 8/8
	N905	337 Time 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)	X	1 TM 4/8
	N906	623 Time Code 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	1 ID 2/2
	N907	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	1
	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification	M	ID 2/3
	C04002	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN 1/50
	C04003	128 Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
	C04004	127 Reference Identification Reference information as defined for a particular Transaction Set or as	X	AN 1/50

C04005	128	<i>specified by the Reference Identification Qualifier</i>	X	ID 2/3
		<i>Reference Identification Qualifier</i>		
C04006	127	<i>Code qualifying the Reference Identification</i>	X	AN 1/50
		<i>Reference Identification</i>		
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		

Segment:	N9 Extended Reference Information
Position:	0400
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.	Data	Name	Attributes	
Des.	Element			
M	N901	128 Reference Identification Qualifier Code qualifying the Reference Identification DP Department Number	M	1 ID 2/3
	N902	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Wal-Mart assigned department number	X	1 AN 1/50
	N903	369 Free-form Description Free-form descriptive text	X	1 AN 1/45
	N904	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	O	1 DT 8/8
	N905	337 Time 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)	X	1 TM 4/8
	N906	623 Time Code 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	1 ID 2/2
	N907	C040 Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	1
	C04001	128 Reference Identification Qualifier Code qualifying the Reference Identification	M	ID 2/3
	C04002	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN 1/50
	C04003	128 Reference Identification Qualifier Code qualifying the Reference Identification	X	ID 2/3
	C04004	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN 1/50
	C04005	128 Reference Identification Qualifier	X	ID 2/3

<i>C04006</i>	<i>127</i>	<i>Code qualifying the Reference Identification</i>		
		<i>Reference Identification</i>	<i>X</i>	<i>AN 1/50</i>
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		

Segment:	N9 Extended Reference Information
Position:	0400
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
Purpose:	To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification MR Merchandise Type Code	M 1 ID 2/3
	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Wal-Mart assigned order type	X 1 AN 1/50
	N903	369	<i>Free-form Description</i> <i>Free-form descriptive text</i>	X 1 AN 1/45
	N904	373	<i>Date</i> <i>Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</i>	O 1 DT 8/8
	N905	337	<i>Time</i> <i>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)</i>	X 1 TM 4/8
	N906	623	<i>Time Code</i> <i>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</i>	O 1 ID 2/2
	N907	C040	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	M ID 2/3
	C04002	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04004	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i>	X ID 2/3

<i>C04006</i>	<i>127</i>	<i>Code qualifying the Reference Identification</i>		
		<i>Reference Identification</i>	<i>X</i>	<i>AN 1/50</i>
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>		

Segment:	N1 Party Identification
Position:	0600
Loop:	N1
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:	<p>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:</p> <p>BASIC There will be at least one occurrence of this segment to identify the retailer's reporting location. If XQ01 contains code G, it is assumed that, for a particular reporting location, the vendor has the bill to and ship to.</p> <p>SPREADSHEET The SDQ segment identifies the retailer's reporting locations. Therefore, code RL is not used in the N1 segment for the spreadsheet product activity.</p> <p>In some EDI implementations, it may be necessary to identify the sender and/or receiver of the 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.</p>

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98 Entity Identifier Code	M	1 ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		
		FR Message From		
	N102	93 Name	X	1 AN 1/60
		Free-form name		
	N103	66 Identification Code Qualifier	X	1 ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		UL Global Location Number (GLN)		
		A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system		
		This is the 13-digit Global Location Number (GLN).		
	N104	67 Identification Code	X	1 AN 2/80
		Code identifying a party or other code		
		This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.		
		<u>Wal-Mart or Sam's Corporate Global Location Number (GLN).</u>		

<i>N105</i>	<i>706</i>	<i>Entity Relationship Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/2</i>
		<i>Code describing entity relationship</i>			
<i>N106</i>	<i>98</i>	<i>Entity Identifier Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/3</i>
		<i>Code identifying an organizational entity, a physical location, property or an individual</i>			

Segment:	N1 Party Identification
Position:	0600
Loop:	N1
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:	<p>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:</p> <p>BASIC There will be at least one occurrence of this segment to identify the retailer's reporting location. If XQ01 contains code G, it is assumed that, for a particular reporting location, the vendor has the bill to and ship to.</p> <p>SPREADSHEET The SDQ segment identifies the retailer's reporting locations. Therefore, code RL is not used in the N1 segment for the spreadsheet product activity.</p> <p>In some EDI implementations, it may be necessary to identify the sender and/or receiver of the 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.</p>

Data Element Summary				
Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	N101	98 Entity Identifier Code	M	1 ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		
		TO Message To		
	N102	93 Name	X	1 AN 1/60
		Free-form name		
		<u>Supplier Name</u>		
	N103	66 Identification Code Qualifier	X	1 ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
	N104	67 Identification Code	X	1 AN 2/80
		Code identifying a party or other code		
	N105	706 Entity Relationship Code	O	1 ID 2/2
		Code describing entity relationship		
	N106	98 Entity Identifier Code	O	1 ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual		

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				
	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set This must be the same number as is in the ST segment (ST02) for the transaction set.	M 1 AN 4/9

852 Product Activity Data - ANSI X12 Introduction

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.

852 Product Activity Data - ANSI X12 Standards

Functional Group ID=**PD**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	XQ	Reporting Date/Action	M	1		
	0300	XPO	Preassigned Purchase Order Numbers	O	>1		
	0400	N9	Extended Reference Information	O	>1		
	0500	PER	Administrative Communications Contact	O	3		
LOOP ID - N1						200	
	0600	N1	Party Identification	O	1		n1
	0700	N2	Additional Name Information	O	1		
	0800	N3	Party Location	O	2		
	0900	N4	Geographic Location	O	1		
	1000	FOB	F.O.B. Related Instructions	O	1		
	1100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
	1200	DTM	Date/Time Reference	O	>1		
	1300	N9	Extended Reference Information	O	>1		
	1400	PER	Administrative Communications Contact	O	3		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN						999999	
	0100	LIN	Item Identification	O	1		
	0200	CTP	Pricing Information	O	25		
	0250	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		
	0300	PO4	Item Physical Details	O	1		
	0400	N9	Extended Reference Information	O	>1		
	0500	AMT	Monetary Amount Information	O	10		
	0600	PAL	Pallet Type and Load Characteristics	O	1		
	0700	QTY	Quantity Information	O	>1		
LOOP ID - ZA						>1	
M	0800	ZA	Product Activity Reporting	M	1		n2
	0900	QTY	Quantity Information	O	>1		
	1000	CTP	Pricing Information	O	25		
	1100	SDQ	Destination Quantity	O	>1		
LOOP ID - G95						1	
	1200	G95	Performance Requirements	O	1		
	1300	DTM	Date/Time Reference	O	2		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
852 (005010)							

	0100	CTT	Transaction Totals	O	1	n3
M	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.

852 Product Activity Data – VICS Introduction

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail industry implementation of the Product Activity Data Transaction Set.

The purpose of the Product Activity Data Transaction Set (852) within the retail industry is to report inventory counts and changes to that inventory at predetermined intervals. The most common change to inventory is sales by the retailer to the customer. However, other changes to inventory such as inter-store transfers, return of sold merchandise to inventory, returns to the supplier from inventory, and shrinkage, can also be communicated.

This data is primarily used to support a supplier managed stock replenishment program (stock modeling) or to provide input to a sales analysis and forecasting systems. In addition to inventory counts and units sold, other data may be sent that is pertinent to the analysis being performed by the receiver. Total dollar volume for sales may be reported in the same manner as quantities by using a unit of measure for d with the SKU are specified in the CTP segment(s). These prices include retail price, promotional price, cost price, etc. If an item is sold at different prices during the reporting period, the activity may be grouped by selling price and the quantities at each price can be specified for multiple locations by utilizing the SDQ segments.

852 Product Activity Data – VICS Guidelines

Functional Group ID=**PD**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	XQ	Reporting Date/Action	M	1		
	0300	XPO	Preassigned Purchase Order Numbers	O	>1		
	0400	N9	Extended Reference Information	O	>1		
	0500	PER	Administrative Communications Contact	O	3		
LOOP ID - N1						200	
	0600	N1	Party Identification	O	1		n1
	0700	N2	Additional Name Information	O	1		
	0800	N3	Party Location	O	2		
	0900	N4	Geographic Location	O	1		
	1000	FOB	F.O.B. Related Instructions	O	1		
	1100	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
	1200	DTM	Date/Time Reference	O	>1		
	1300	N9	Extended Reference Information	O	>1		
	1400	PER	Administrative Communications Contact	O	3		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN						999999	
	0100	LIN	Item Identification	O	1		
	0200	CTP	Pricing Information	O	25		
	0250	SAC	Service, Promotion, Allowance, or Charge Information	O	>1		
	0300	PO4	Item Physical Details	O	1		
	0400	N9	Extended Reference Information	O	>1		
	0500	AMT	Monetary Amount Information	O	10		
	0600	PAL	Pallet Type and Load Characteristics	O	1		
	0700	QTY	Quantity Information	O	>1		
LOOP ID - ZA						>1	
M	0800	ZA	Product Activity Reporting	M	1		n2
	0900	QTY	Quantity Information	O	>1		
	1000	CTP	Pricing Information	O	25		
	1100	SDQ	Destination Quantity	O	>1		
LOOP ID - G95						1	
	1200	G95	Performance Requirements	O	1		
	1300	DTM	Date/Time Reference	O	2		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
852 (005010)							

	0100	CTT	Transaction Totals	O	1	n3
M	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.

Conventions used in these guidelines

1. Every data element on each segment is listed in the Data Element Summary section of the segment documentation, including unused Elements.
2. Every data element has the ANSI X12 data element ID noted.
3. Every data element has the ANSI X12 data element title noted.
4. Every data element has the ANSI X12 data element attributes noted:
 - 4.1. Data element requirement designation
 - 4.1.1. **Mandatory** (M) This element is required to appear in the segment.
 - 4.1.2. **Optional** (O) The appearance of this data element is at the option of the sending party or is based on the mutual agreement of the interchange parties.
 - 4.1.3. **Relational** (X) Relational conditions may exist between two or more data elements within a segment based on the presence or absence of one of those data elements. The relational condition is displayed under the heading “Syntax Notes.”
 - 4.2. Data element type
 - 4.2.1. **Numeric** (Nn) — The numeric type of data element is symbolized by the two-position representation Nn. N indicates a numeric, and n indicates the decimal places to the right of a fixed, implied decimal point. the decimal point is not transmitted in the character stream. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The length of the data element is the number of digits used. The minus sign (-) is not counted when determining the length of the data element value.
 - 4.2.2. **Decimal Number** (R) — The decimal type of data element is symbolized by the representation R. The decimal point is optional for integer values, but required for fractional values. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The minus sign and the decimal point are not counted when determining the length of the data element value.
 - 4.2.3. **Identifier** (ID) — The identifier type of data element is symbolized by the representation ID. An identifier data element must always contain a value from a predefined list of values that is maintained by ASC X12 or other bodies that are recognized by ASC X12. The value is left justified. Trailing spaces should be suppressed.
 - 4.2.4. **String** (AN) — The string type of data element is symbolized by the representation AN. Contents of string type data elements are a sequence of any letters, digits, spaces, and/or special characters and contain at least one non-space character. The significant characters must be left justified. Leading spaces, if used, are assumed to be significant characters. Trailing spaces should be suppressed.
 - 4.2.5. **Date** (DT) — The date type of data element is symbolized by the representation DT. Format for the date type is CCYYMMDD. CC is the two digit Century (00-99). YY is the last two digits of the year (00-99), MM is the numeric value of the month (01-12), and DD is the numeric value of the day (01-31).
 - 4.2.6. **Time** (TM) — The time type is symbolized by the representation TM. Format for this type is expressed in 24-hour clock format, HHMMSSd.d. HH is the numeric expression of the hour (00-23), MM is the numeric expression of the minute (00-59), SS is the numeric expression of the second (00-59), and d.d is the numeric expression of decimal seconds.

4.3. Data element length (minimum/maximum)

5. Data elements utilized by Wal-Mart applications are noted in **bold** type.
6. Data elements ignored by Wal-Mart application are noted in *italicized type*.
7. Every data element utilized by Wal-Mart applications has the ANSI X12 data element purpose noted.
8. ID-type data elements have the list of utilized values noted.
9. **Industry comments relating to segments and data elements are noted in bold text with a shaded background.**
10. **Wal-Mart comments relating to segments and data elements are noted in underlined bold text with a shaded background.**

Example of Conventions

Segment:	N1 Name
Position:	0400
Loop:	N1
Level:	Heading
Usage:	Mandatory
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:	There must be at least one occurrence of the N1 segment in the header area to identify the sender of the transaction in text or coded format. This segment will always identify Wal-Mart Stores, Inc. as the sender of the document

Data Element Summary				
	Ref. Des.	Data Element	Name	Attributes
1	M	N101	98	Entity Identifier Code
2			Code identifying an organizational entity, a physical location, property or an individual	
3			FR	Message From
	N102	93	Name	X AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			UL	UCC/EAN Location Code
			A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system	
5	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
1	N105	706	Entity Relationship Code	O ID 2/2
			Code describing entity relationship	
6	N106	98	Entity Identifier Code	O ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	

852 Product Activity Data – Changes from Previous (4030) Version

<u>Segment</u>	<u>Position</u>	<u>Data Element</u>	<u>Change</u>	<u>Qualifier</u>
No changes				

Change History

Date	Version	Description of Changes
September, 2004	DRAFT 0.1	Draft Version Published
January, 2005	DRAFT 0.2	Revised Draft Version Published
January, 2005	1.0	Production guide released
July, 2005	1.1	Minor corrections to document syntax errors