

Wal-Mart Stores, Inc.

Electronic Data Interchange Implementation Guideline
ANSI X12 Version 5010

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997 Functional Acknowledgment

Business Usage:

Acknowledge receipt of documents

EDI Direction: To/From Wal-Mart

Implementation Guide Version 1.0

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997 Functional Acknowledgment - Wal-Mart Stores Inc.

Introduction

Direction: From Wal-Mart

The outbound 997 Functional Acknowledgment is used by Wal-Mart Stores, Inc. to verify receipt of documents sent by suppliers. Wal-Mart will generate a 997 document for each valid transaction received from a supplier and will transmit it within 2 hours. The 997 will report either an accepted, partial, or rejected transaction. Documents rejected must be corrected and resent.

Direction: To Wal-Mart

The inbound 997 Functional Acknowledgment is used by Wal-Mart Stores, Inc. to verify that supplier has received Wal-Mart document. Suppliers are expected to generate and transmit 997 within 2 hours upon the receipt of documents from Wal-Mart. Any 997 reporting an Error or Rejection will need to be researched, and the data reprocessed in order to generate an accepted 997.

997 Functional Acknowledgment – Wal-Mart Stores Inc., Implementation

Functional Group ID=**FA**

	<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		n1
M	0200	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	0300	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	0400	AK3	Data Segment Note	O	1		c1
	0500	AK4	Data Element Note	O	99		
M	0600	AK5	Transaction Set Response Trailer	M	1		
M	0700	AK9	Functional Group Response Trailer	M	1		
M	0800	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.
There is only one Functional Acknowledgment Transaction Set per acknowledged functional group. Only one acknowledgement, either a single Transaction Set 997 or a single Transaction Set 999, should be generated for a functional group unless mutually agreed upon.
- AK1 is used to respond to the functional group header and to start the acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
The Functional Acknowledgement is generated at the point of translation, intended for the originator (not any intermediate parties).
The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
- AK2 is used to start the acknowledgment of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

Transaction Set Comments

- The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards or proper subsets of transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Wal-Mart Business Example of an Accepted Inbound (to Wal-Mart) 997 Document

EDI TRANSMISSION DATA	EXPLANATION
ST*997*0001	997 is the Transaction Set Identifier Code . "997" indicates "Functional Acknowledgment". 0001 is the Group Control Number .
AK1*PO*850002389	PO is the Functional Identifier Code 850002389 is the Group Control number
AK2*850*0001	850 is the Transaction Set Identifier Code (Transaction Set being acknowledged) 0001 is the Transaction Set Control Number
AK5*A	A is the Transaction Set Acknowledgment Code A indicates 'Accepted'
AK9*A*1*1*1	A is the Functional Group Acknowledgment Code 1 is the Number of Transaction Sets Included 1 is the Number of Received Transaction Sets 1 is the Number of Accepted Transaction Sets
SE*6*0001	6 is the Number of Included Segments 0001 is the Transaction Set Control Number

Wal-Mart Business Example of a Partial Inbound (to Wal-Mart) 997 Document

EDI TRANSMISSION DATA	EXPLANATION
ST*997*0001	997 is the Transaction Set Identifier Code "997" indicates "Functional Acknowledgment". 0001 is the Group Control Number .
AK1*PO*850002389	PO is the Functional Identifier Code 850002389 is the Group Control number
AK2*850*0001	850 is the Transaction Set Identifier Code 0001 is the Transaction Set Control Number
AK3*BEG*01**3	BEG is the Segment ID Code "BEG" indicates segment in error 01 is the Segment Position in Transaction Set . "01" indicates the first position of segment. 3 is the Segment Syntax Error Code . "3" indicates a "Mandatory segment missing".
AK4* 1*353*1	1 is the Position in Segment . 353 is the Data Element Reference Number . "353" indicates the reference to the element in the data dictionary. 1 is the Data Element Syntax Error Code . "1" indicates "Mandatory data element missing".
AK5*R*5	R is the Transaction Set Acknowledgment Code . "R" indicates "Rejected". 5 is the Transaction Set Syntax Error Code . "5" indicates one or more Segments in Error.
AK2*850*0002	850 is the Transaction Set Identifier Code 0002 is the Transaction Set Control Number
AK5*A	A is the Transaction Set Acknowledgment Code "A" indicates "Accepted".
AK9*P*2*2*1	P is the Functional Group Acknowledgment Code . "P" indicates "Partial" . 2 is the Number of Transaction Sets Included 2 is the Number of Received Transaction Sets 1 is the Number of Accepted Transaction Sets
SE*10*0001	10 is the Number of Included Segments 0001 is the Transaction Set Control Number

Note: from 850 (Purchase Order)

Wal-Mart Business Example of an Accepted Outbound (from Wal-Mart) 997 Document

EDI TRANSMISSION DATA	EXPLANATION
ST*997*0001	997 is the Transaction Set Identifier Code "997" indicates "Functional Acknowledgment". 0001 is the Group Control Number .
AK1*IN*329	IN is the Functional Identifier Code 329 is the Group Control number
AK2*810*0001	810 is the Transaction Set Identifier Code (Transaction Set being acknowledged) 0001 is the Transaction Set Control Number
AK5*A	A is the Transaction Set Acknowledgment Code A indicates "Accepted"
AK9*A*1*1*1	A is the Functional Group Acknowledgment Code 1 is the Number of Transaction Sets Included 1 is the Number of Received Transaction Sets 1 is the Number of Accepted Transaction Sets
SE*6*0001	6 is the Number of Included Segments 0001 is the Transaction Set Control Number

Wal-Mart Business Example of a Rejected Outbound (from Wal-Mart) 997 Document

EDI TRANSMISSION DATA	EXPLANATION
ST*997*0001	997 is the Transaction Set Identifier Code "997" indicates "Functional Acknowledgment". 0001 is the Group Control Number .
AK1*IN*329	IN is the Functional Identifier Code 329 is the GroupControl number
AK2*810*0001	810 is the Transaction Set Identifier Code (Transaction Set being acknowledged) 0001 is the Transaction Set Control Number
AK5*R	R is the Transaction Set Acknowledgment Code "R" indicates "Rejected"
AK9*R*1*1*1	R is the Functional Group Acknowledgment Code "R" indicates "Rejected" 1 is the Number of Transaction Sets Included 1 is the Number of Received Transaction Sets 1 is the Number of Accepted Transaction Sets
SE*6*0001	6 is the Number of Included Segments 0001 is the Transaction Set Control Number

Wal-Mart Business Example of a Partial Outbound (from Wal-Mart) 997 Document

EDI TRANSMISSION DATA	EXPLANATION
ST*997*0001	997 is the Transaction Set Identifier Code "997" indicates "Functional Acknowledgment". 0001 is the Group Control Number .
AK1*IN*389	IN is the Functional Identifier Code 389 is the GroupControl number
AK2*810*0001	810 is the Transaction Set Identifier Code (Transaction Set being acknowledged) 0001 is the Transaction Set Control Number
AK3*BIG*01**3	BIG is the Segment ID Code "BIG" indicates segment in error 01 is the Segment Position in Transaction Set . "01" indicates the first position Segment. 3 is the Segment Syntax Error Code . "3" indicates a "mandatory segment missing".
AK4* 1*353*1	1 is the Position in Segment . 353 is the Data Element Reference Number . "353" indicates the reference to the element in the data dictionary. 1 is the Data Element Syntax Error Code . "1" indicates "Mandatory data element missing".
AK5*R*5	R is the Transaction Set Acknowledgment Code . "R" indicates "Rejected". 5 is the Transaction Set Syntax Error Code . "5" indicates one or more Segments in Error.
AK2*810*0002	810 is the Transaction Set Identifier Code 0002 is the Transaction Set Control Number
AK5*A	A is the Transaction Set Acknowledgment Code . "A" indicates "Accepted".
AK9*P*2*2*1	P is the Functional Group Acknowledgment Code . "P" indicates "Partial" . 2 is the Number of Transaction Sets Included 2 is the Number of Received Transaction Sets 1 is the Number of Accepted Transaction Sets
SE*10*0001	10 is the Number of Included Segments 0001 is the Transaction Set Control Number

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level:
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>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set 997 Functional Acknowledgment	M 1 ID 3/3
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: **AK1** Functional Group Response Header
Position: 0200
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:

- 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.
- 3 AK103 is the version release industry identifier code in the GS segment (GS08) in the functional group being acknowledged.

Comments:

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK101	479 Functional Identifier Code	M 1 ID 2/2
		Code identifying a group of application related transaction sets	
		This is the functional group ID of the group that is being acknowledged, e.g., if a purchase order group is being acknowledged, the value would be PO. It is the value sent in GS01 for the original transmission.	
M	AK102	28 Group Control Number	M 1 N0 1/9
		Assigned number originated and maintained by the sender	
		This is the control number assigned to the group being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in GS06 for the original transmission.	
	AK103	480 Version / Release / Industry Identifier Code	O 1 AN 1/12
		Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	

Segment: **AK2** Transaction Set Response Header
Position: 0300
Loop: AK2
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes:

- 1 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
- 2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.
- 3 AK203 is the implementation convention reference, if any, found in the ST segment (ST03) in the transaction set being acknowledged.

Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	AK201	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M 1 ID 3/3
This is the transaction set ID of the transaction being acknowledged, e.g., if a purchase order is being acknowledged, the value would be 850. It is the value sent in ST01 for the original transmission.			
M	AK202	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	M 1 AN 4/9
This is the control number assigned to the transaction set being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in ST02 for the original transmission.			
	AK203	1705 <i>Implementation Convention Reference</i> <i>Reference assigned to identify Implementation Convention</i>	O 1 AN 1/35

Segment: **AK3** Data Segment Note
Position: 0400
Loop: AK2-AK3
Level:
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK301	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	M 1 ID 2/3
M	AK302	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	M 1 N0 1/10
	AK303	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	O 1 AN 1/4
	AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O 1 ID 1/3
		1	Unrecognized segment ID	
		2	Unexpected segment	
		3	Mandatory segment missing	

Segment: **AK4** Data Element Note

Position: 0500

Loop: AK2-AK3

Level:

Usage: Optional

Max Use: 99

Purpose: To report errors in a data element or composite data structure and identify the location of the data element

Syntax Notes:

Semantic Notes: 1 In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK401	C030	Position in Segment Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator	M 1
M	C03001	722	Element Position in Segment This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID	M N0 1/2
	C03002	1528	<i>Component Data Element Position in Composite</i> To identify the component data element position within the composite that is in error	O N0 1/2
	C03003	1686	<i>Repeating Data Element Position</i> To identify the specific repetition of a data element that is in error	O N0 1/4
	AK402	725	Data Element Reference Number Reference number used to locate the data element in the Data Element Dictionary	O 1 N0 1/4
M	AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element	M 1 ID 1/3
			1 Mandatory data element missing	
			2 Conditional required data element missing.	
			3 Too many data elements. More data elements existed than defined for the segment	
			4 Data element too short.	
			5 Data element too long.	
			6 Invalid character in data element.	
			7 Invalid code value.	
	AK404	724	Copy of Bad Data Element This is a copy of the data element in error	O 1 AN 1/99

Segment: **AK5** Transaction Set Response Trailer
Position: 0600
Loop: AK2
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes:

The codes listed for AK502 apply to every occurrence of Data Element 718 in the AK5 segment.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK501	717	Transaction Set Acknowledgment Code Code indicating accept or reject condition based on the syntax editing of the transaction set A Accepted E Accepted But Errors Were Noted R Rejected	M 1 ID 1/1
	AK502	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set 1 Transaction Set Not Supported 2 Transaction Set Trailer Missing 3 Transaction Set Control Number in Header and Trailer Do Not Match 4 Number of Included Segments Does Not Match Actual Count 5 One or More Segments in Error	O 1 ID 1/3
	AK503	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set 1 Transaction Set Not Supported 2 Transaction Set Trailer Missing 3 Transaction Set Control Number in Header and Trailer Do Not Match 4 Number of Included Segments Does Not Match Actual Count 5 One or More Segments in Error 6 Missing or Invalid Transaction Set Identifier 7 Missing or Invalid Transaction Set Control Number	O 1 ID 1/3
	AK504	718	<i>Transaction Set Syntax Error Code</i> <i>Code indicating error found based on the syntax editing of a transaction set</i>	<i>O 1 ID 1/3</i>
	AK505	718	<i>Transaction Set Syntax Error Code</i> <i>Code indicating error found based on the syntax editing of a transaction set</i>	<i>O 1 ID 1/3</i>
	AK506	718	<i>Transaction Set Syntax Error Code</i> <i>Code indicating error found based on the syntax editing of a transaction set</i>	<i>O 1 ID 1/3</i>

Segment: **AK9** Functional Group Response Trailer
Position: 0700
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

Syntax Notes:

Semantic Notes:

Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

Notes: **The codes listed for AK905 apply to every occurrence of Data Element 716 in the AK9 segment.**

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK901	715	Functional Group Acknowledge Code M 1 ID 1/1
		Code indicating accept or reject condition based on the syntax editing of the functional group	
		A Accepted	
		E Accepted, But Errors Were Noted.	
		P Partially Accepted, At Least One Transaction Set Was Rejected	
		R Rejected	
M	AK902	97	Number of Transaction Sets Included M 1 N0 1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
M	AK903	123	Number of Received Transaction Sets M 1 N0 1/6
		Number of Transaction Sets received	
M	AK904	2	Number of Accepted Transaction Sets M 1 N0 1/6
		Number of accepted Transaction Sets in a Functional Group	
	AK905	716	Functional Group Syntax Error Code O 1 ID 1/3
		Code indicating error found based on the syntax editing of the functional group header and/or trailer	
		1 Functional Group Not Supported	
		2 Functional Group Version Not Supported	
		3 Functional Group Trailer Missing	
		4 Group Control Number in the Functional Group Header and Trailer Do Not Agree	
		5 Number of Included Transaction Sets Does Not Match Actual Count	
	AK906	716	<i>Functional Group Syntax Error Code</i> O 1 ID 1/3
		<i>Code indicating error found based on the syntax editing of the functional group header and/or trailer</i>	
	AK907	716	<i>Functional Group Syntax Error Code</i> O 1 ID 1/3
		<i>Code indicating error found based on the syntax editing of the functional group header and/or trailer</i>	
	AK908	716	<i>Functional Group Syntax Error Code</i> O 1 ID 1/3
		<i>Code indicating error found based on the syntax editing of the functional group header and/or trailer</i>	
	AK909	716	<i>Functional Group Syntax Error Code</i> O 1 ID 1/3
		<i>Code indicating error found based on the syntax editing of the functional group header and/or trailer</i>	

Segment: **SE** Transaction Set Trailer
Position: 0800
Loop:
Level:
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. Des.</u>	<u>Data 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

997 Functional Acknowledgment - ANSI X12 Introduction

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

997 Functional Acknowledgment – VICS Introduction

The purpose of this section is to present and explain the application of the ASC X12 Standard as they pertain to the retail implementation of the Functional Acknowledgment Transaction Set. Functional Acknowledgments (FA) are required for each functional group transmitted. The FA must be sent by the receiver of the functional group, to the sender, by the close of the next business day after receipt, to acknowledge the receipt and the syntactical condition of the functional group. The minimum level of detail for the FA is the group, i.e. it is not required to acknowledge at the transaction set level, nor is it required to acknowledge specific segments and data elements in error. Acknowledgment at a level lower than the group is by trading partners agreement.

The Functional Acknowledgment transaction provides a positive response that informs the sender if the content of the transmission was syntactically correct. The syntactical correctness is based on the X12 syntax documented in the ASC X12.6 standard. It is not an acknowledgment of any application data such as terms, discounts, etc. The Functional Acknowledgment transaction can provide increasing levels of detail.

The acknowledgment, in the simplest form, provides response at the functional group level using the AK1 and AK9 segments. Individual transactions can be acknowledged by using the AK2 and AK5 segments, and, individual segments in error can be indicated by using the AK3 and AK4 segments. In practice, acceptance and rejection are controlled at the functional group level. Acknowledgment at detail levels below the group require added complexity at the sending and receiving points in addition to the added cost of transmitting the additional data. The level of detail used in the Functional Acknowledgment is controlled by the trading partners.

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. **VICS 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. 9

This segment will always identify Wal-Mart Stores, Inc. as the sender of the document 10

Data Element Summary			
	Ref. Des.	Data Element	Name
1	M	N101	98 Entity Identifier Code
2			Code identifying an organizational entity, a physical location, property or an individual
3		N102	93 Name
			Free-form name
		N103	66 Identification Code Qualifier
			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
			Code identifying a party or other code
1		N105	706 Entity Relationship Code
			Code describing entity relationship
6		N106	98 Entity Identifier Code
			Code identifying an organizational entity, a physical location, property or an individual

Attributes	
4.1	M ID 2/3
4.2	X AN 1/60
4.3	X ID 1/2
7	

997 Functional Acknowledgment - Changes from Previous (4030) Version

<u>Segment/Element</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	Version 1.0	Production guide published