

## The Purchase Order - 850



The Purchase Order, whether submitted using TRANSNET or ANSINET, is the contract for delivery for certain products in specified quantities. Both TRANSNET and ANSINET are available for purchase order transmission. Suppliers wishing to support only the ASC X12 standards may receive their TRANSNET orders in the ASC X12 format by requesting that service from MISG. TRANSNET-formatted orders may not be exchanged via ANSINET.

Continued use of TRANSNET for electronic order entry does not imply that distributors will be unable to exchange additional documents via the ANSINET service. In fact, it is expected that distributors will integrate both systems into their daily operations.

The Purchase Order will use the document control structure described below, in compliance with the ASC X12 standards. Please note that indentations are significant, as an indented line (segment) indicates it is a subset of the segment above it. Segments with the same level of indenture are not necessarily directly related to each other, but refer to the immediately preceding segment (ST and BEG under GS), or signify the closure of a control loop (the ISA and IEA loop).

For more information please refer to the ASC X12 standards manuals available from the DATA Interchange Standards Association (DISA). DISA is located at 1800 Diagonal Drive, Suite 355, Alexandria, VA 22314-2852, and may be called at 703-548-7005.

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## SEGMENTS

The following information defines the ASC X12 850 Purchase Order Acknowledgment transaction set and explains the meaning of each segment.

1. **ISA** - Interchange Control Header
2. **GS** - Functional Group Header (for Combination set)
3. **ST** - Indicates the start of a transaction set
4. **BEG** - Beginning of Purchase Order
5. **NTE** - Note Segment
6. **CUR** - Currency
7. **REF** - Reference Numbers
8. **FOB** - FOB Related Instructions (shipment payer)
9. **SSS** - Special Services
10. **CSH** - Header Sale Condition
11. **DTM** - Date/Time Reference
12. **PWK** - Paperwork
13. **TD5** - Carrier Details
14. **N1** - Name Information
15. **N2** - Additional Name Information
16. **N3** - Address Information
17. **N4** - Geographic Location
18. **PO1** - Baseline Item Data
19. **PWK** - Paperwork
20. **PKG** - Marking, Packaging, Loading
21. **REF** - Reference Numbers
22. **IT8** - Conditions of Sale
23. **SDQ** - Destination Quantity
24. **DTM** - Date/Time Reference
25. **SCH** - Line Item Schedule
26. **N1** - Name Information
27. **N2** - Additional Name Information
28. **N3** - Address Information
29. **N4** - Geographic Location
30. **REF** - Reference Numbers
31. **FOB** - FOB Related Instructions
32. **TD5** - Carrier Details
33. **CTT** - Transaction Totals
34. **SE** - Transaction Set Trailer
35. **GE** - Functional Group Trailer
36. **IEA** - Interchange Control Trailer

## Purchase Order Notes

1. **ISA - Only one ISA-IEA control loop may be used per transmission.**
2. **GS - One or more GS-GE control loops may be used per transmission by the sender, but only one is mandatory.**
3. **ST - Purchase Orders may be transmitted within one ST-SE control loop, but only Purchase Orders may be present within this mandatory segment.**
4. **BEG - This segment is mandatory and identifies the type of purchase order being sent and the purchase order number.**
5. **CTT - This mandatory segment contains segment counts and a hash total to allow the receiver to verify all data is received.**
6. **SE - This segment indicates the end of the transaction set and provides the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).**
7. **GE - This segment indicates the end of a functional group and provides control information.**
8. **IEA - This segment defines the end of an interchange of one or more functional groups and interchange-related control segments.**

**THE INFORMATION LISTED BELOW IN SEGMENTS 5-17 PERTAINS TO THE ENTIRE ORDER.**

- 5. NTE - The NTE segment is a floating segment used to transmit information in a free-form format for comment or special instruction. It can appear anywhere in the header.**
- 6. CUR - This segment is optional and is used only when the currency of payment isn't clear.**
- 7. REF - This segment is used to specify identifying numbers.**
- 8. FOB - This segment is used to specify transportation instructions relating to the shipment.**
- 9. SSS - Use this segment to specify special conditions or services associated with the purchased product**
- 10. CSH - The CSH segment is used to specify conditions or requirements of the sale.**
- 11. DTM - This optional segment is used to specify shipment dates and times for the entire order.**
- 12. PWK - This segment is used to identify the type and transmission of paperwork or supporting information for the entire order.**
- 13. TD5 - Use the TD5 segment to specify the carrier, sequence of routing and to provide transit time information.**
- 14. N1 - This segment specifies the ship-to location of the order. Used alone, it provides the most efficient method of providing organizational identification.**
- 15. N2 - This optional segment should be used only to specify additional name information.**
- 16. N3 - Use this segment only if street address information cannot be determined from codes in the N1 segment.**
- 17. N4 - Use this segment only if city, state and zip information cannot be determined from codes in the N1 segment.**

**THE INFORMATION IN SEGMENTS 18-32 PERTAINS TO THE INDIVIDUAL PURCHASE ORDER LINE ITEMS.**

18. **PO1 - This segment is mandatory and is used to specify line item data.**
19. **PWK - This segment is used to identify the type and transmission of paperwork or supporting information for a line item.**
20. **PKG - This optional segment is used to describe marking, packaging, loading and unloading requirements.**
21. **REF - Use to specify identifying numbers.**
22. **IT8 - Use to specify general conditions or requirements and to detail conditions for substitution of alternate products.**
23. **SDQ - Use to specify destination and quantity detail.**
24. **DTM - This segment is used to specify shipment dates and times.**
25. **SCH - Use to specify the data for scheduling a specific line item.**
26. **N1 - This segment specifies the ship-to location of the line item.**
27. **N2 - This optional segment should be used only to specify additional name information.**
28. **N3 - Use this segment only if street address information cannot be determined from codes in the N1 segment.**
29. **N4 - Use this segment only if city, state and zip information cannot be determined from codes in the N1 segment.**
30. **REF - This segment is used to specify identifying numbers.**
31. **FOB - This segment is used to specify transportation instructions relating to the line item.**
33. **CTT - This mandatory segment contains segment counts and a hash total to allow the receiver to verify all data is received.**
34. **SE - This segment indicates the end of the transaction set and provides the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).**
35. **GE - This segment indicates the end of a functional group and provides control information.**
36. **IEA - This segment defines the end of an interchange of one or more functional groups and interchange-related control segments.**

## 850 SAMPLE DATA

EXAMPLE:

ISA\*00\* \*00\*  
\*01\*007061617\*01\*00507479\*930906\*2018\*U\*00303\*000007023\*0\*P\*\*\*^  
GS\*BS\*007061617\*005070479\*930906\*2025\*1225\*X\*003030^  
ST\*850\*121653^  
BEG\*00\*NE\*MOG009364501\*\*950910\*CSW11095^  
NTE\*GEN\*FOR ILLUSTRATION PURPOSES ONLY^  
CUR\*BY\*USA^  
REF\*PR\*1234567890^  
FOB\*PC^  
SSS\*C\*ZZ\*ID^  
CSH\*SC^  
DTM\*071\*950915\*1100\*CD\*19^  
TD5\*\*2\*YFSY\*M\*ROUTING\*\*\*\*\*CD\*2^  
N1\*ST\*\*92\*H98111A1^  
N3\*DEPARTMENT MI5\*6565 WELLS AVENUE^  
N4\*STE GENEVIEVE\*MO\*636951465\*USA^  
PO1\*1\*3\*EA\*\*\*BP\*K6200^  
CTT\*1\*3^  
SE\*16\*121653^  
GE\*1\*1225^  
IEA\*1\*000007023^

# 850 Purchase Order

Functional Group ID=**PO**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.

## 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>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BEG	Beginning Segment for Purchase Order	M	1		
	030	NTE	Note/Special Instruction	F	100		
	040	CUR	Currency	O	1		
	050	REF	Reference Numbers	O	12		
	080	FOB	F.O.B. Related Instructions	O	1		
	100	SSS	Special Services	O	25		
	110	CSH	Header Sale Condition	O	5		
	150	DTM	Date/Time/Period	O	10		
	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
						LOOP ID - N1	200
	310	N1	Name	O	1		
	330	N3	Address Information	O	2		
	340	N4	Geographic Location	O	1		

## 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 - PO1	100000
Must Use	010	PO1	Baseline Item Data	M	1		n1

## 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>
Must Use	010	CTT	Transaction Totals	M	1		n2
Must Use	030	SE	Transaction Set Trailer	M	1		

## Transaction Set Notes

1. PO102 is required.
2. The number of line items (CTT01) is the accumulation of the number of PO1 segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (PO102) for each PO1 segment.

**Segment:** **ST** Transaction Set Header

**Position:** 010

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

**Comments:**

**Notes:** Segment Example: ST\*850\*121653^

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	
>>	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set	
			Refer to 003030 Data Element Dictionary for acceptable code values.	
>>	ST02	329	<b>Transaction Set Control Number</b>	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

**Segment:** **BEG** Beginning Segment for Purchase Order  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** Segment Example: BEG\*00\*NE\*MOG009364501\*\*950910\*CSW11096^

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
>>	BEG01	353	<b>Transaction Set Purpose Code</b>	M ID 2/2
			Code identifying purpose of transaction set	
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		00	Original	
>>	BEG02	92	<b>Purchase Order Type Code</b>	M ID 2/2
			Code specifying the type of Purchase Order	
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		BK	Blanket Order (Quantity Firm)	
		NE	New Order	
		RL	Release or Delivery Order	
			An order for goods and services placed against a pre-existing contract or blanket order	
		RO	Rush Order	
		SA	Stand-alone Order	
		ZZ	Mutually Defined	
>>	BEG03	324	<b>Purchase Order Number</b>	M AN 1/22
			Identifying number for Purchase Order assigned by the orderer/purchaser	
>>	BEG05	323	<b>Purchase Order Date</b>	M DT 6/6
			Date assigned by the purchaser to Purchase Order	
	BEG06	367	<b>Contract Number</b>	O AN 1/30
			Contract number	

**Segment:** **NTE** Note/Special Instruction  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Floating  
**Max Use:** 100  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Notes:** Segment Example: NTE\*GEN\*FOR ILLUSTRATION PURPOSES ONLY^  
This is an optional segment that should be avoided if possible because it contains non-machine readable text. When used at the header level, the information contained within this segment applies to the entire purchase order.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
NTE01	363 Note Reference Code Code identifying the functional area or purpose for which the note applies Suggested code for aftermarket usage. Any ASC X12 approved code may be used. GEN Entire Transaction Set	O ID 3/3
>> NTE02	3 Free Form Message Free-form text	M AN 1/60

**Segment:** **CUR** Currency

**Position:** 040

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the currency (dollars, pounds, francs, etc.) used in a transaction

**Syntax Notes:**

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR11 is present, then CUR10 is required.
- 4 If CUR12 is present, then CUR10 is required.
- 5 If CUR14 is present, then CUR13 is required.
- 6 If CUR15 is present, then CUR13 is required.
- 7 If CUR17 is present, then CUR16 is required.
- 8 If CUR18 is present, then CUR16 is required.
- 9 If CUR20 is present, then CUR19 is required.
- 10 If CUR21 is present, then CUR19 is required.

**Semantic Notes:**

**Comments:** 1 See Figures Appendix for examples detailing the use of the CUR segment.

**Notes:** Segment Example: CUR\*BY\*USA

This is an optional segment that should be avoided if currency type has been legally agreed to by the trading partners.

#### Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	CUR01	98	Entity Identifier Code	M ID 2/2
			Code identifying an organizational entity, a physical location, or an individual	
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		BY	Buying Party (Purchaser)	
		SE	Selling Party	
>>	CUR02	100	Currency Code	M ID 3/3
			Code (Standard ISO) for country in whose currency the charges are specified	

**Segment:** **REF** Reference Numbers  
**Position:** 050  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify identifying numbers.  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:**  
**Notes:** Segment Example: REF\*PR\*1234567890^  
This is an optional segment.

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> REF01	128	Reference Number Qualifier	M ID 2/2
		Code qualifying the Reference Number.	
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		CT Contract Number	
		IA Internal Vendor Number	
		PR Price Quote Number	
		RE Release Number	
REF02	127	Reference Number	X AN 1/30
		Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	

**Segment:** **FOB** F.O.B. Related Instructions

**Position:** 080

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify transportation instructions relating to shipment

**Syntax Notes:** 1 If FOB03 is present, then FOB02 is required.

2 If FOB04 is present, then FOB05 is required.

3 If FOB07 is present, then FOB06 is required.

4 If FOB08 is present, then FOB09 is required.

**Semantic Notes:** 1 FOB01 indicates which party will pay the carrier.

2 FOB02 is the code specifying transportation responsibility location.

3 FOB06 is the code specifying the title passage location.

4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:**

**Notes:** Segment Example: FOB\*PC^

This is an optional segment that should be avoided if the FOB terms have been legally agreed to by the trading partners.

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> FOB01	146	Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		BP	Paid by Buyer
			The buyer agrees to the transportation payment term requiring the buyer to pay transportation charges to a specified location (origin or destination location)
		CC	Collect
		PC	Prepaid but Charged to Customer
		PP	Prepaid (by Seller)
		PU	Pickup

**Segment:** **SSS** Special Services  
**Position:** 100  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 25  
**Purpose:** To specify special conditions or services associated with the purchased product  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- 1 SSS02 identifies the source of the code value in SSS03.
- 2 SSS07 (description) is normally used to clarify or expand on the services to be provided.
- 3 SSS09 specifies the individual code list of the agency specified in SSS02.

**Notes:** Segment Example: SSS\*C\*ZZ\*ID^  
This is an optional segment.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	<b></b>
>>	<b>SSS01</b> <b>248</b> <b>Allowance or Charge Indicator</b>	<b>M ID 1/1</b> Code which indicates an allowance or charge for the service specified Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.  A              Allowance C              Charge N              No Allowance or Charge R              Allowance Request
>>	<b>SSS02</b> <b>559</b> <b>Agency Qualifier Code</b>	<b>M ID 2/2</b> Code identifying the agency assigning the code values Suggested qualifier code for aftermarket usage. Any ASC X12 approved qualifier may be used.  ZZ              Mutually Defined
>>	<b>SSS03</b> <b>560</b> <b>Special Services Code</b>	<b>M ID 2/10</b> Code identifying the special service Suggested codes for aftermarket usage. Any ASC X12 approved codes may be used.  EM              Emergency Service ID              Inside Delivery PL              Palletizing

**Segment:** **CSH** Header Sale Condition

**Position:** 110

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 5

**Purpose:** To specify general conditions or requirements of the sale

**Syntax Notes:** 1 If CSH02 is present, then CSH03 is required.

2 If either CSH06 or CSH07 is present, then the other is required.

**Semantic Notes:** 1 CSH04 is the account number to which the purchase amount is to be charged.

2 CSH06 identifies the source of the code value in CSH07.

**Comments:**

**Notes:** Segment Example: CSH\*SC^

This is an optional segment that should only be used as an exception to the trading partner agreement terms.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
CSH01	563 Sales Requirement Code	O ID 1/2
	Code to identify a specific requirement or agreement of sale	
	Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
	BK	Ship Partial - Balance Back Order
	N	No Back Order
	SC	Ship Complete
	SP	Ship Partial, Balance Cancel
	Y	Back Order if Out of Stock

**Segment:** **DTM** Date/Time/Period  
**Position:** 150  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:** 1 At least one of DTM02 or DTM03 is required.  
**Semantic Notes:**  
**Comments:**  
**Notes:** Segment Example: DTM\*071\*950915\*1100\*CD\*19^  
 This is an optional segment.

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>> DTM01	374	Date/Time Qualifier	M	ID 3/3
		Code specifying type of date or time, or both date and time		
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		
		001 Cancel After		
		010 Requested Ship		
		071 Requested for Delivery (After and Including)		
		074 Requested for Delivery (Prior to and Including)		
		077 Requested for Delivery (Week of)		
		081 Requested for Shipment (After and Including)		
		084 Requested for Shipment (Prior to and Including)		
		087 Requested for Shipment (Week of)		
		106 Required By		
		112 Buyers Dock		
DTM02	373	Date	X	DT 6/6
		Date (YYMMDD)		
DTM03	337	Time	X	TM 4/6
		Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)		
DTM04	623	Time Code	O	ID 2/2
		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		
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		



**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)

**Position:** 240

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify the carrier and sequence of routing and provide transit time information

**Syntax Notes:**

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.

**Semantic Notes:**

**Comments:**

- 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

**Notes:** Segment Example: TD5\*\*2\*YFSY\*M\*ROUTING\*\*\*\*\*CD\*2^

This is an optional segment that should be avoided if "best way" is desired.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
TD502	<b>66</b> <b>Identification Code Qualifier</b>	<b>X</b> <b>ID 1/2</b>
	Code designating the system/method of code structure used for Identification Code (67)	
	Suggested code for aftermarket usage. Any ASC X12 approved code may be used.	
	2 Standard Carrier Alpha Code (SCAC)	
TD503	<b>67</b> <b>Identification Code</b>	<b>X</b> <b>AN 2/17</b>
	Code identifying a party or other code	
TD504	<b>91</b> <b>Transportation Method/Type Code</b>	<b>X</b> <b>ID 1/2</b>
	Code specifying the method or type of transportation for the shipment	
	Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
	A Air	
	AE Air Express	
	D Parcel Post	
	H Customer Pickup	
	M Motor (Common Carrier)	
	R Rail	
	S Ocean	
	U Private Parcel Service	
TD505	<b>387</b> <b>Routing</b>	<b>X</b> <b>AN 1/35</b>
	Free-form description of the routing or requested routing for shipment, or	

		the originating carrier's identity	
<b>TD510</b>	<b>732</b>	<b>Transit Time Direction Qualifier</b>	<b>O ID 2/2</b>
		Code specifying the value of time used to measure the transit time	
		Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
		AA Air Hours	
		AD Air Days	
		CD Calendar Days (Includes weekends and Holidays)	
		SD Surface Days	
		SH Surface Hours	
		WD Working Days (Excludes weekends and holidays)	
<b>TD511</b>	<b>733</b>	<b>Transit Time</b>	<b>X R 1/4</b>
		The numeric amount of transit time	

**Segment:** **N1** Name

**Position:** 310

**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.

**Notes:** Segment Example: N1\*ST\*\*92\*H98111A1^

This is an optional segment.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Element</b>	<b>Name</b>	<b>Attributes</b>
>>	<b>N101</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>M ID 2/2</b>
			Code identifying an organizational entity, a physical location, or an individual	
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
			For export, the following codes are suggested:	
			AG Agent	
			CB Customs Broker	
			CS Contractor	
			FW Forwarder	
			BT Party to be Billed For Other Than Freight(Bill To)	
			BY Buying Party (Purchaser)	
			EN End User	
			ST Ship To	
	<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b>	<b>X ID 1/2</b>
			Code designating the system/method of code structure used for Identification Code (67)	
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	
			1 D-U-N-S Number, Dun & Bradstreet	
			9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
			91 Assigned by Seller or Seller's Agent	
			92 Assigned by Buyer or Buyer's Agent	

**N104**

**67**

**Identification Code**

**X AN 2/17**

Code identifying a party or other code

**Segment:** **N3** Address Information  
**Position:** 330  
**Loop:** N1  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** Segment Example: N3\*DEPARTMENT M15\*6565 WELLS AVENUE^  
 This is an optional segment that should be avoided if the address of the shipment is known to the seller.

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	N301	166 Address Information Address information	M AN 1/35
	N302	166 Address Information Address information	O AN 1/35

**Segment:** **N4 Geographic Location**

**Position:** 340

**Loop:** N1

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify the geographic place of the named party

- Syntax Notes:**
- 1 At least one of N401 or N405 is required.
  - 2 If either N405 or N406 is present, then the other is required.

**Semantic Notes:**

- 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 USA or Canada.

**Notes:** Segment example: N4\*STE GENEVIEVE\*MO\*636951465\*USA^

This is an optional segment that should be avoided if the address of the shipment is known to the seller.

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>N401</b>	<b>19 City Name</b> Free-form text for city name	<b>X AN 2/30</b>
<b>N402</b>	<b>156 State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	<b>O ID 2/2</b>
<b>N403</b>	<b>116 Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	<b>O ID 3/9</b>
<b>N404</b>	<b>26 Country Code</b> Code identifying the country	<b>O ID 2/3</b>

**Segment:** **PO1** **Baseline Item Data**

**Position:** 010

**Loop:** PO1

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify basic and most frequently used line item data

**Syntax Notes:**

- 1 If PO103 is present, then PO102 is required.
- 2 If PO105 is present, then PO104 is required.
- 3 If PO106 is present, then PO107 is required.
- 4 If PO108 is present, then PO109 is required.
- 5 If PO110 is present, then PO111 is required.
- 6 If PO112 is present, then PO113 is required.
- 7 If PO114 is present, then PO115 is required.
- 8 If PO116 is present, then PO117 is required.
- 9 If PO118 is present, then PO119 is required.
- 10 If PO120 is present, then PO121 is required.
- 11 If PO122 is present, then PO123 is required.
- 12 If PO124 is present, then PO125 is required.

**Semantic Notes:**

**Comments:**

- 1 See the Data Dictionary for a complete list of ID's.
- 2 PO101 is the line item identification.
- 3 PO106 through PO125 provide for ten (10) different product/service ID's per each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

**Notes:** Segment example: PO1\*1\*3\*EA\*\*\*BP\*K6200^

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>PO101</b>	<b>350 Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>O AN 1/11</b>
<b>PO102</b>	<b>330 Quantity Ordered</b> Quantity ordered	<b>X R 1/9</b>
<b>PO103</b>	<b>355 Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.	<b>O ID 2/2</b>
	CA Case	
	EA Each	
	FT Foot	
	MR Meter	
	P4 Four-pack	

		P6	Six pack		
		P8	Eight-pack		
<b>PO104</b>	<b>212</b>	<b>Unit Price</b>		<b>X</b>	<b>R 1/14</b>
			Price per unit of product, service, commodity, etc.		
<b>PO105</b>	<b>639</b>	<b>Basis of Unit Price Code</b>		<b>O</b>	<b>ID 2/2</b>
			Code identifying the type of unit price for an item		
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		
		CA	Catalog		
		CT	Contract		
		NT	Net		
			Indicates a net unit price		
		PR	Promotion		
<b>PO106</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>		<b>O</b>	<b>ID 2/2</b>
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			Suggested codes for aftermarket usage. Any ASC X12 approved code may be used.		
		BL	Brand/Label		
		BP	Buyer's Part Number		
		MF	Manufacturer		
		MG	Manufacturer's Part Number		
		UP	U.P.C. Consumer Package Code (1-5-5-1)		
		VN	Vendor's (Seller's) Item Number		
		VP	Vendor's (Seller's) Part Number		
<b>PO107</b>	<b>234</b>	<b>Product/Service ID</b>		<b>X</b>	<b>AN 1/30</b>
			Identifying number for a product or service		

**Segment:** **CTT Transaction Totals**

**Position:** 010

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** 1 If CTT03 is present, then CTT04 is required.

2 If CTT05 is present, then CTT06 is required.

**Semantic Notes:**

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

**Notes:** Segment Example: CTT\*1\*3^

#### Data Element Summary

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
>> CTT01	354 <b>Number of Line Items</b> Total number of line items in the transaction set	<b>M N0 1/6</b>
CTT02	347 <b>Hash Total</b> 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.	<b>O R 1/10</b>

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.

**Segment:** **SE** Transaction Set Trailer  
**Position:** 030  
**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.

**Notes:** Segment Example: SE\*16\*121653^

**Data Element Summary**

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