



Vantiva Supply Chain Services Implementation Guidelines

X12/V5010/850: 850 Purchase Order

Version: 2.0

Modification History	Version	By	Description of Changes
07/18/19	1	F. Dodwell	Created
07/19/19	1.1	F. Dodwell	Added W6601 and W20 Pack details
12/02/19	1.2	F. Dodwell	Added N405/06 Retailer ID
12/02/19	2.0	F. Dodwell	Updated for Purchase Order
12/06/19	2.1	F. Dodwell	Set N1 Plant Qualifier to use code 16 for consistency

850

Purchase Order

Functional Group= PO

This X12 Transaction Set 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BEG	Beginning Segment for Purchase Order	M	1			Must use
0500	REF	Reference Information	O	>1			Must use
0600	PER	Administrative Comm Contacts	O	3			Must use
1300	ITD	Terms of Sale	O	>1			Must use
2100	PWK	Paperwork	O	25			Must use
Loop ID – N1					200		
3100	N1	Part Identification	O	1			Used
End Loop ID – N1							

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
Loop ID – PO1					100000		
0100	P01	Baseline Item Data	M	1			Used
Loop ID – PID					1000		
0500	PID	Product/Item Description	O	1			Used
0600	MEA	Measurements	O	10			Used
End Loop ID – PID					1000		
1000	REF	Reference Information	O	>1			Used
2890	MTX	Text	O	>1			Used
LOOP ID – N1					200		
0400	N1	Part Identification	O	1			Used
0400	N2	Part Identification	O	1			Used
0400	N3	Part Identification	O	1			Used
0400	N4	Part Identification	O	1			Used
0400	QTY	Quantity Information	O	>1			Used
0400	REF	Reference Information	O	12			Used
0400	DTM	Date/Time Reference	O	1			Used
0400	FOB	FOB Related Instructions	O	1			Used
0400	TD5	Carrier Details	O	12			Used
End Loop ID – N1							
LOOP ID – SLN					1000		
4700	SLN	Subline Item Detail	O	1			
4900	PID	Product/Item Description	O	1000			Used
LOOP ID – N9					1000		
4700	N9	Extended Reference Info	O	1			
End Loop ID – N9							
End Loop ID – SLN							

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	O	1		P,D	Used
0200	SE	Transaction Set Trailer	M	1		P,D	Must use

VANTIVA Notes:

This diagram shows the structure of the 850 that VANTIVA can receive. This is a subset of the X12 standard. Any segments not shown in the document will be discarded.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
		Description: Code uniquely identifying a Transaction Set All valid standard codes are used.				
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Semantics:

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).

VANTIVA Notes:

ST01 = '850'

ST02 = Sequential Control Number assigned by the Sender

Example: ST*850*0001~

BEG Beginning Segment for PO

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 12

User Option (Usage): Must use

To indicate the beginning of the Purchase Order Transaction Set and transmit identifying numbers and dates.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BEG01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set All valid standard codes are used.				
BEG02	92	Purchase Order Type Code	M	ID	2/2	Must use
		Description: Code specifying the type of Purchase Order.				
BEG03	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser.				
BEG04	328	Release Number	O	AN	1/30	Not used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.				
BEG05	373	Date	M/Z	DT	8/8	Used
		Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year.				
BEG06	367	Contract Number	O	AN	1/30	Not Used
		Description: Contract Number.				

Semantics:

1. BEG05 is the date assigned by the purchaser to purchase order.
- 2.

VANTIVA Notes:

1. BEG01 - '00' Original
2. BEG02 – Valid Values:
 'CP' Component/Receiving Order
 'NE' Manufacturing Order
3. BEG03 – Valid Values:
 Component/Receiving Order Number (20 Byte Number)
 Manufacturing Order Number (10 Byte Number)
4. BEG04 – Not used
5. BEG05 – PO date CCYYMMDD
6. BEG06 – BEG12 Not Used

Example:

```
BEG*00*NE*0123456789**20190524
BEG*00*CP*01234567890123456789**20190524
```

REF Reference Information

Pos: 1500	Max: >1
Header - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification All valid standard codes are used.				
REF02	127	Reference Identification	X	AN	1/50	Must Use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF03	352	Description	X	AN	1/80	Optional
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04	C040	Reference Identifier	O/Z			Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

VANTIVA Notes:

**** Mandatory ****

1. REF01 – '8X' Transaction Category or Type Qualifier
2. REF02 – Order Type, Ex: ZRE, ZPK, ZRS
3. REF03 – Description of Order Type Code from REF02, If Used

Example:

```
REF*8X*ZBCM
REF*8X*02*REPLICATION AND PACK
```

**** Optional ****

1. REF01 – 'CO' Retailer PO qualifier.
2. REF02 – Retailer PO number.

Example:

```
REF*CO*2531598402
```

PER**Administrative Communications
Contact**

Pos: 0600	Max: 3
Header - Optional	
Loop: n/a	Elements: 9

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named				
PER02	93	Name	O	AN	1/60	Must use
		Description: Free form name				

VANTIVA Notes:

1. PER01 – 'BD' Buyer Name Qualifier
2. PER02 – Buyer name

Example: PER*BD*BUYER NAME~

ITD Terms of Sale

Pos: 1500	Max: >1
Header - Optional	
Loop: n/a	Elements: 15

User Option (Usage): Used

To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code Description: Code identifying type of payment terms	O	ID	2/2	Not Used
ITD02	333	Terms Basis Date Code Description: Total number of line items in the transaction set	O	ID	1/2	Used
ITD03		Terms Discount Percent Description: Total number of line items in the transaction set	O	R	1/6	Not Used
ITD04		Terms Discount Due Date Description: Total number of line items in the transaction set	X	DT	8/8	Not Used
ITD05		Terms Discount Days Due Description: Total number of line items in the transaction set	X	N0	1/3	Not Used
ITD06		Terms Net Due Date Description: Total number of line items in the transaction set	O	DT	8/8	Not Used
ITD07		Terms Net Days Description: Total number of line items in the transaction set	O	N0	1/3	Not Used
ITD08		Terms Discount Amount Description: Total amount of terms discount	O	N2	1/10	Not Used
ITD09		Terms Deferred Due Date Description: Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year	O	DT	8/8	Not Used
ITD10		Deferred Amount Due Description: Deferred amount due for payment	X	N2	1/10	Not Used
ITD11		Percent of Invoice Payable Description: Amount of invoice payable expressed in percent	X	R	1/5	Not Used
ITD12		Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
ITD13		Day of Month Description: The numeric value of the day of the month between 1 and the maximum day of the month being referenced	X	N0	1/2	Not Used
ITD14		Payment Method Type Code Description: Code identifying type of payment procedures	O	ID	1/2	Not Used
ITD15		Percentage as Decimal Description: Percentage expressed as a decimal (e.g., 0.0 through 1.0 represents 0% through 100%)	O/Z	R	1/10	Not Used

VANTIVA Notes:

1. ITD01 – Not Used
2. ITD02 – '05' Discount not applicable Qualifier
3. ITD03 – ITD11 Not Used
4. ITD12 – Invoice Term
5. ITD13 – ITD15 – Not Used

Example: ITD**5*****1% 10, NET 60

PWK Paperwork

Pos: 2100	Max: 25
Header - Optional	
Loop:	Elements: 9

User Option (Usage): Used

To identify the type or transmission or both of paperwork or supporting information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PWK01	755	Report Type Code	M	ID	2/2	Used
Description: Code indicating the title or contents of a document, report or supporting item All valid standard codes are used.						
PWK07	352	Description	O	AN	1/80	Used
Description: A free-form description to clarify the related data elements and their content						

Semantics:

- 1.

VANTIVA Notes:

1. PWK01 – 'PJ' Purchasing Specification Qualifier
2. PWK02 – PWK06 Not Used
3. PWK07 – Description / Notes
4. PWK08 – PWK09 Not Used

Example:

```
PWK*PJ*****Order Notes 1
PWK*PJ*****Order Notes 2
```

N1 Party Identification

Pos: 3100	Max: 1
Header - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used.				
N102	93	Name	X	AN	1/60	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.				
N104	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				

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.

VANTIVA Notes:

There will be multiple occurrences of the N1 loop.

*** Mandatory for NE (Manufacturing type orders)

1. N101 = 'BT' Bill To Qualifier
2. N102 = Ship to name

*** Mandatory for CP (Receiving type orders)

1. N101 = 'SF'(Ship From Vendor).
2. N102 will contain the Shipper Name.
3. N103 = '92' Vendor Id.
4. N104 will contain the designated Identification code.

*** Mandatory on all orders

1. N101 = '16' Plant Code Qualifier
2. N102 = 'Vantiva'
3. N103 = '6' Plant Code.
4. N104 will contain the designated Identification code to refer to the Vantiva Plant

*** Optional/As Needed (Used for Affiliate Code)

1. N101 = 'BB' Business Unit Qualifier
2. N102 = Not Used
3. N103 = '92' Qualifier
4. N104 = Code/Value to denote Business Unit/Affiliate Code

Example:

```
N1*BT*Name (MFG Order)
N1~SF~Vendor ABC*92*Vendor ID (Receiving Order)
N1~16~Vantiva~6~40
N1~BB~ ~92~XXXXXX
```

P01 Baseline Item Data

Pos: 0100	Max: 100000
Detail - Optional	
Loop: PO1	Elements: 25

User Option (Usage): Used

To specify basic and most frequently used line item data.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO101	350	Assigned Identification	O	AN	1/20	Used
		Description: Numeric value of quantity				
PO102	380	Quantity	X/Z	R	1/5	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
PO103	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		Description: Code (Universal Product Code - U.P.C.)				
PO104	212	Unit Price	X	R	1/17	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO105	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Identifying number for a product or service				
PO106	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO107	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO108	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO109	234	Product/Service ID	X	ID	1/48	Used
		Description: Identifying number for a product or service				
PO110	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO111	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO112	235	Product/Service ID Qualifier	X	AN	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO113	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO114	235	Product/Service ID Qualifier	X	AN	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO115	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO116	235	Product/Service ID Qualifier	X	ID	2/2	Used

PO117	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO118	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO119	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO120	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO121	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO122	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO123	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
PO124	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
PO125	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				

VNATIVA Notes:

PO101 – Line number
 PO102 – Quantity
 PO103 – Not Used
 PO104 – Unit Price (Max 999.9999)
 PO105 – Not
 PO106 – ‘UP’ Qualifier
 PO107 – UPC Number
 PO108 – ‘SC’ Qualifier
 PO109 – Seller’s Catalog Number

*** Below are “if used/needed” ***

PO110 – ‘VP’ Qualifier
 PO111 – Customers Part Number
 PO112 – ‘VS’ Qualifier (If needed)
 PO113 – Customer Alias Part Number
 PO114 – PO125 Not Used

Example:

PO1*1*150**0.4085**UP*982135987521*SC*A0021459875*VP*86423456789023*VS*999999

PID

Product/Item Description

Pos: 0500	Max: 1000
Detail - Optional	
Loop: PID	Elements: 9

User Option (Usage): Used

To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic.				
PID03	559	Agency Qualifier Code	X/Z	ID	2/2	Used
		Description: Code identifying the agency assigning the code values.				
PID04	751	Product Description Code	X/Z	ID	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic.				
PID05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID06	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described				
PID07	822	Source Subqualifier	O	AN	1/15	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID08	1073	Yes/No Condition or Response Code	O/Z	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response.				
PID09	819	Language Code	O/Z	ID	2/3	Used
		Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639).				

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required
2. R0405 - At least one of PID04 or PID05 is required.

Semantics:

1. If PID01 equals "F", then PID05 is used

VANTIVA Notes:

1. PID01 – ‘F’ - Freeform qualifier
2. PID02 – ‘08’ - Product Type Code
3. PID03 – ‘AB’ - Assigned by Buyer Qualifier
4. PID04 – ‘DESC’
5. PID05 – Description

Example:

PID*F*08*AB*DESC*PRODUCT DESCRIPTION

REF Reference Information

Pos: 1000	Max: >1
Detail - Optional	
Loop: PO1	Elements: 4

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification All valid standard codes are used.				
REF02	127	Reference Identification	X	AN	1/50	Must Use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF03	352	Description	X	AN	1/80	Optional
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04	C040	Reference Identifier	O/Z			Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

VANTIVA Notes:

1. REF01 – ‘ZZ’ Mutually Defined Qualifier
2. REF02 – Sticker Design Type is always ‘1’
3. REF03 – Sticker Type notation

Subsequent REF’s are as follows:

1. REF01 – ‘ZZ’ Mutually Defined Qualifier
2. REF02 – Sticker Line Number (1 to 7)
3. REF03 – Text for retail sticker line number
4. Note: Line 7 is the Bill to or Sold to ID (aka: DDAC)

Example:

```
REF*ZZ*0*WALM --- Sticker Type
REF*ZZ*1*$9.99
REF*ZZ*2*
REF*ZZ*3*
REF*ZZ*4*AB5145
REF*ZZ*5
REF*ZZ*6
REF*ZZ*7*18000 --- Retail Sold To
```

MTX Text

Pos: 2890	Max: >1
Detail - Optional	
Loop: PO1	Elements: 6

User Option (Usage): Used
To specify textual data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MTX01	363	Note Reference Code	O	ID	3/3	Used
		Description: Code qualifying the Reference Identification All valid standard codes are used.				
MTX02	1551	Textual Data	X	AN	1/4096	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
MTX03	1551	Textual Data	O	AN	1/4096	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
MTX04	934	Printer Carriage Control Code	X	ID	2/2	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
MTX05	1470	Number	O/Z	N0	1/9	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
MTX06	819	Language Code	O	ID	2/3	Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. If MTX01 is present, then MTX02 is required.

VANTIVA Notes:

1. MTX01 – 'GPI' General Product or Process Information Qualifier
2. MTX02 – PO Line Item text

Example:

```
MSG*Line Item Notes 1
MSG*Line Item Notes 2
```


N1 Party Identification

Pos: 3500	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used.	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used

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.

VANTIVA Notes:

For use when manufacturing orders include creating auto ship orders

First occurrence: Optional

1. N101 = 'ST'(Ship To).
2. N102 will contain the Ship To Name.
3. N103 = '92' Vendor Id.
4. N104 will contain the Ship to ID code.

Second occurrence: Optional

1. N101 = 'CA' Carrier Qualifier
2. N102 = Carrier Name.
3. N103 = '92' Qualifier
4. N104 will contain 3rd party bill to acct # (if used)

Example:

N1~ST~Retailer Store 12345~92~00012345
N1~CA~UPS~92~00001

N2 Additional Name Information

Pos: 3600	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used
To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	O	AN	1/60	Must use
N202	93	Name Description: Free-form name	O	AN	1/60	Used

Comments:

- 1.

VANTIVA Notes:

Used only if needed for Ship To information.

Example:

N2*Ship To Name 2μ

N3 Party Location

Pos: 3700	Max: 1
Detail - Used	
Loop: N1	Elements: 4

User Option (Usage): Used
 To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Free-form address	M	AN	1/55	Must use
N302	166	Address Information Description: Free-form address	O	AN	1/55	Used

Comments:

- 1.

VANTIVA Notes:

Provide address information of the Ship To.

Example: N3*Ship To Address1*Address2~

N4 Geographic Location

Pos: 3800	Max: 1
Detail - Used	
Loop: N1	Elements: 7

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Free-form name	X	ID	2/2	Used
N403	26	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying a party or other code	X	ID	2/3	Used
N405	309	Location Qualifier Description: Code identifying a party or other code	X	ID	1/2	Used
N406	310	Location Identifier Description: Code identifying a party or other code	O	AN	1/30	Used
N407	1715	Country Subdivision Code Description: Code identifying a party or other code	X	ID	1/3	Not Used

Comments:

- 1.

VANTIVA Notes:

Provide address information of the Ship To.

- N401 – City Name
- N402 – State or Providence
- N403 – Postal Code
- N404 – Country Code

** Optional elements **

- N405 – 'ZZ' Mutually Defined Qualifier
- N406 – Retailer ID

Example: N4*MEMPHIS*TN*38118*US~

QTY Quantity

Pos: 3830	Max: >1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used
To specify quantity information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY01	673	Quantity Qualifier	M	ID	2/2	Used
		Description: Code specifying the type of quantity				
QTY02	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
QTY03	C001	Composite Unit of Measure	O			Not Used
		Description: To identify a composite unit of measure				
QTY04	61	Free Form Information	X/Z	AN	1/30	Not Used
		Description: Free-form information				

Syntax Notes:

1. At least one of QTY02 or QTY04 is required.

VANTIVA Notes:

For use when manufacturing orders include creating auto ship orders

1. QTY01 – '38' Original Quantity Qualifier
2. QTY02 – Ship Quantity for the 'auto ship to'

Example: QTY*38*100

REF Reference Information

Pos: 3900	Max: 12
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification All valid standard codes are used.				
REF02	127	Reference Identification	X	AN	1/50	Must Use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF03	352	Description	X	AN	1/80	Optional
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
REF04	C040	Reference Identifier	O/Z			Not used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

VANTIVA Notes:

*** Used for 'CP' Component/Receiving Order

1. REF01 – 'RV' Receiving Number Qualifier
2. REF02 – Receipt number

Example:

REF*RV*ER12345

** Used for 'NE' Manufacturing Order Type **

1. REF01 – 'T5' Trailer Use Agreements qualifier.
2. REF02 – Skid Configuration

Example:

REF*T5*0989898989

** Used for 'NE' Manufacturing Order Type **

1. REF01 – 'JH' TAG qualifier.
2. REF02 – Label Type

Example:

REF*JH* A88A8A

DTM Item Identification

Pos: 4060	Max: 1
Detail - Optional	
Loop: PO1	Elements: 6

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Assigned Identification	M	ID	3/3	Used
Description: Alphanumeric characters assigned for differentiation within a transaction set						
DTM02	373	Product/Service ID Qualifier	X	DT	8/8	Must use
Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						

VANTIVA Notes:

*** Used for 'NE' Manufacturing Order Type
 1. DTM01 - '011' Shipped qualifier
 2. DTM02 – Shipped Date CCYYMMDD

*** Used for 'CP' Component/Receiving Order Type
 1. DTM01 - '002' Delivery Requested Qualifier
 2. DTM02 – Requested Delivery Date CCYYMMDD

Example:

DTM*011*20191101 ← Manufacturing Order (NE type)
 DTM*002*20191129 ← Component Orders (CP type)

FOB FOB Related Instructions

Pos: 4100	Max: 1
Detail - Optional	
Loop: N1	Elements: 9

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M/Z	ID	2/2	Must use

Description: Total number of line items in the transaction set

Comments:

1.

VANTIVA Notes:

For use when manufacturing orders include creating auto ship orders

1. FOB01 – Shipment Method of Payment

Valid Values:

PP - Prepaid

CC – Collect

TP – 3rd Party Bill

Example: FOB*PP

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 4300	Max: 12
Detail - Optional	
Loop: n1	Elements: 15

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code	O	ID	1/2	Used
		Description: Code describing the relationship of a carrier to a specific shipment movement All valid standard codes are used.				
TD502	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.				
TD503	67	Identification Code	X	AN	2/80	Used
		Description: Code identifying a party or other code				
TD504	91	Transportation Method/Type Code	X	ID	1/2	Used
		Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used.				
TD505	387	Routing	X	AN	1/35	Used
		Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity				

VANTIVA Notes:

*** For use when manufacturing orders include creating auto ship orders

1. TD501 – 'B' Origin/Delivery Carrier
2. TD502 – '2' Standard Carrier Alpha Code Qualifier
3. TD503 is the SCAC (Standard Carrier Alpha Code)
4. TD504 – 'ZZ' Mutually Defined Qualifier
5. TD505 – Shipment method ie: Overnight, Next Day (Values to be discussed)

Example: TD5*B*2*UPSN*ZZ*OVNμ

SLN Geographic Location

Pos: 4700	Max: 1000
Detail - Optional	
Loop: SLN	Elements: 28

User Option (Usage): Used
To specify product subline detail item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M/Z	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SLN02	350	Assigned Identification	O/Z	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
SLN03	662	Relationship Code	M/Z	ID	1/1	Used
		Description: Code indicating the relationship between entities				
SLN04	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity				
SLN05	C001	Composite Unit of Measure	X			Used
		Description: To identify a composite unit of measure				
SLN06	212	Unit Price	X	R	1/17	Not Used
		Description: Price per unit of product, service, commodity, etc.				
SLN07	639	Basis of Unit Price Code	O	ID	2/2	Not Used
		Description: Code identifying the type of unit price for an item				
SLN08	662	Relationship Code	O/Z	ID	1/1	Not Used
		Description: Code indicating the relationship between entities				
SLN09	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
SLN10	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
SLN11	235	Product/Service ID Qualifier	X	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
SLN12	234	Product/Service ID	X	AN	1/48	Not Used
		Description: Identifying number for a product or service				
SLN13	235	Product/Service ID Qualifier	X	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
SLN14	234	Product/Service ID	X	AN	1/48	Not Used
		Description: Identifying number for a product or service				
SLN15	235	Product/Service ID Qualifier	X	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
SLN16	234	Product/Service ID	X	AN	1/48	Not Used
		Description: Identifying number for a product or service				
SLN17	235	Product/Service ID Qualifier	X	ID	2/2	Not Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SLN18	234	Product/Service ID	X	AN	1/48	Not Used
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Description: Identifying number for a product or service

VANTIVA Notes:

** Required for Manufacturing Orders Only **

1. SLN01 – Line Number
2. SLN02 – Not Used.
3. SLN03 – Valid values: A – Add, D – Delete, I – Include
4. SLN04 – Quantity
5. SLN05 – 'EA' (Unit of measure)
6. SLN06 – Not Used
7. SLN07 – Not Used
8. SLN08 – Not Used
9. SLN09 – 'SC' Qualifier
10. SLN10 – Seller's Catalog Number
11. SLN11 – SLN28 Not Used

Example:

SLN*0100* *A*300*EA* * *SC*000000001000015937~

PID Product/Item Description

Pos: 4900	Max: 1000
Detail - Optional	
Loop: SLN	Elements: 9

User Option (Usage): Used

To describe a product or process in coded or free-form format

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic.				
PID03	559	Agency Qualifier Code	X/Z	ID	2/2	Used
		Description: Code identifying the agency assigning the code values.				
PID04	751	Product Description Code	X/Z	ID	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic.				
PID05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID06	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described				
PID07	822	Source Subqualifier	O	AN	1/15	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID08	1073	Yes/No Condition or Response Code	O/Z	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response.				
PID09	819	Language Code	O/Z	ID	2/3	Used
		Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639).				

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required
2. R0405 - At least one of PID04 or PID05 is required.

Semantics:

1. If PID01 equals "F", then PID05 is used

VANTIVA Notes:

1. PID01 – 'F' - Freeform qualifier
2. PID02 – '08; - Product Type Coe
3. PID03 – 'AB' Assigned by Buyer Qualifier
4. PID04 – 'DESC'
5. PID05 – Description

Example:

PID*F*08*AB*DESC*PRODUCT DESCRIPTION

N9 Extended Reference Information

Pos: 5230	Max: 5
Detail - Optional	
Loop: N9	Elements: 7

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Used
		Description: Code qualifying the Reference Identification All valid standard codes are used.				
N902	127	Reference Identification	X	AN	1/50	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	128	Free Form Description	X	AN	1/45	Not Used
		Description: Free form descriptive text				

Syntax Rules:

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

VANTIVA Notes:

1. N901 – 'CAT' Category Identifier/Qualifier
2. N902 – Valid Values: 'L' – Client provided item, 'N' Non-stock Item

Example:

N9*CAT*L

CTT Transaction Totals

Pos: 0100	Max: 1
Summary - Optional	
Loop: CTT	Elements: 1

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use
Description: Total number of line items in the transaction set						
CTT02	347	Hash Total	O	R	10	Must use
Description: Total number of line items in the transaction set						

Comments:

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

VANTIVA Notes:

1. CTT01 – Total PO1 Lines
2. CTT02 – Total Quantity

Example: CTT*1*15

SE Transaction Set Trailer

Pos: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

- SE is the last segment of each transaction set.