Northeast Utilities ANSI X-12 4010

850 Purchase Order

Version: 1.0

Publication: **June 15, 2002**

850 Purchase Order

Functional Group=PO

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.

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BEG	Beginning Segment for Purchase Order	M	1			Must use
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O	>1			Used
080	FOB	F.O.B. Related Instructions	O	>1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Used
150	DTM	Date/Time Reference	O	10			Used
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
LOOP ID - AMT					**>1**		
287	AMT	Monetary Amount	O	1			Used
LOOP ID - N9					**1000**		
295	N9	Reference Identification	O	1			Used
300	MSG	Message Text	O	1000			Used
LOOP ID - N1					**200**		
310	N1	Name	O	1			Used
320	N2	Additional Name Information	O	2			Used
330	N3	Address Information	O	2			Used
340	N4	Geographic Location	O	>1			Used
360	PER	Administrative Communications Contact	O	>1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - PO1					**100000**	**N2/010L**	
010	PO1	Baseline Item Data	M	1		N2/010	Must use
015	LIN	Item Identification	O	>1			Used
LOOP ID - CTP					**>1**		
040	CTP	Pricing Information	O	1			Used
LOOP ID - PID					**1000**		
050	PID	Product/Item Description	O	1			Used
070	PWK	Paperwork	O	25			Used
100	REF	Reference Identification	O	>1			Used
170	TAX	Tax Reference	O	>1			Used
180	FOB	F.O.B. Related Instructions	O	>1			Used
LOOP ID - SCH					**200**	**N2/295L**	

| 295 | SCH | Line Item Schedule | O | 1 | | N2/295 | Used |
| 297 | TD5 | Carrier Details (Routing Sequence/Transit Time) | O | 12 | | | Used |

LOOP ID - N9					**1000**		
330	N9	Reference Identification	O	1		Used
340	MSG	Message Text	O	1000		Used

LOOP ID - N1					**200**		
350	N1	Name	O	1		Used
360	N2	Additional Name Information	O	2		Used
370	N3	Address Information	O	2		Used
380	N4	Geographic Location	O	1		Used
400	PER	Administrative Communications Contact	O	3		Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - CTT					**1**	**N3/010L**	
010	CTT	Transaction Totals	O	1		N3/010	Used
030	SE	Transaction Set Trailer	M	1			Must use

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

2/010L   PO102 is required.

2/010   PO102 is required.

2/295L   The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.

2/295   The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When this segment is used the unit of measurement code (SCH02) should always be identical to the unit of measurement code in the associated PO1 segment (PO103) and the sum of values of quantity (SCH01) should always equal the quantity ordered (PO102) in the PO1 segment.

3/010L   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.

3/010   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.

ISA   Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information				

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Security Information				

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA04	I04	**Security Information**	M	AN	10/10	Must use
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element *NOESTUT*				
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use

Description: Time of the interchange

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use

Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

Code	Name
U	U.S. EDI Community of ASC X12, TDCC, and UCS

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use

Description: This version number covers the interchange control segments

Code	Name
00400	Standard Issued as ANSI X12.5-1997

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use

Description: A control number assigned by the interchange sender

			Req	Type	Min/Max	Usage
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use

Description: Code sent by the sender to request an interchange acknowledgment (TA1)

Code	Name
0	No Acknowledgment Requested

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use

Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information

Code	Name
P	Production Data

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA16	I15	**Component Element Separator**	M		1/1	Must use

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

GS   Functional Group Header

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 8**

User Option (Usage): Must use

To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

Code	Name
PO	Purchase Order (850)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners
NOESTUT

GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission. Codes agreed to by trading partners

GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

GS05	337	**Time**	M	TM	4/8	Must use

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

GS06	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use

Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard

Code	Name
X	Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

Description: 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

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1.   GS04 is the group date.
2.   GS05 is the group time.
3.   The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1.   A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST   Transaction Set Header

Pos: 010	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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use
		Description: Code uniquely identifying a Transaction Set				

Code	Name
850	Purchase Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BEG   Beginning Segment for Purchase Order

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code	Name
00	Original
06	Confirmation

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG02	92	**Purchase Order Type Code**	M	ID	2/2	Must use

Description: Code specifying the type of Purchase Order

Code	Name
BE	Blanket Order/Estimated Quantities (Not firm Commitment)
CN	Consigned Order
RL	Release or Delivery Order
	Description: An order for goods and services placed against a pre-existing contract or blanket order
SA	Stand-alone Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG03	324	**Purchase Order Number**	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Northeast Utilities Purchase Order Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG04	328	**Release Number**	O	AN	1/30	Used

Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG05	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG06	367	**Contract Number**	O	AN	1/30	Used

Description: Contract number
Original Blanket Contract Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BEG08	1019	**Invoice Type Code**	O	ID	3/3	Used

Description: Code defining the method by which invoices are to be processed
Will be filled with INR when Purchase Order is Evaluated Receipts Settlement.

Code	Name
INR	Invoice Not Required (Such As Evaluated Receipts Settlements)

Semantics:

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

CUR   **Currency**

<table>
<tr><td>Pos: 040</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR01	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BY	Buying Party (Purchaser)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CUR02	100	**Currency Code**	M	ID	3/3	Must use

Description: Code (Standard ISO) for country in whose currency the charges are specified
USD (US dollars)

Syntax:

1. C0807 - If CUR08 is present, then all of CUR07 are required
2. C0907 - If CUR09 is present, then all of CUR07 are required
3. L101112 - If CUR10 is present, then at least one of CUR11,CUR12 is required
4. C1110 - If CUR11 is present, then all of CUR10 are required
5. C1210 - If CUR12 is present, then all of CUR10 are required
6. L131415 - If CUR13 is present, then at least one of CUR14,CUR15 is required
7. C1413 - If CUR14 is present, then all of CUR13 are required
8. C1513 - If CUR15 is present, then all of CUR13 are required
9. L161718 - If CUR16 is present, then at least one of CUR17,CUR18 is required
10. C1716 - If CUR17 is present, then all of CUR16 are required
11. C1816 - If CUR18 is present, then all of CUR16 are required
12. L192021 - If CUR19 is present, then at least one of CUR20,CUR21 is required
13. C2019 - If CUR20 is present, then all of CUR19 are required
14. C2119 - If CUR21 is present, then all of CUR19 are required

Comments:

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

REF   Reference Identification

Pos: 050	Max: >1
Heading - Optional	
Loop: N/A	Elements: 2

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

Code	Name
CR	Customer Reference Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a
particular Transaction Set or as specified by the Reference
Identification Qualifier
*If REF01 CR, this is the number from NU's
internal system that will be returned in the PID05 segment
of the 810 invoice.*

Syntax:

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

Semantics:

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

FOB F.O.B. Related Instructions

Pos: 080	Max: >1
Heading - Optional	
Loop: N/A	Elements: 4

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

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

Description: Code identifying payment terms for transportation charges

Code	Name
CC	Collect
NC	Service Freight, No Charge
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)
PU	Pickup

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB05	335	**Transportation Terms Code**	C	ID	3/3	Used

Description: Code identifying the trade terms which apply to the shipment transportation responsibility

Code	Name
FOB	Free on Board

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB06	309	**Location Qualifier**	C	ID	1/2	Used

Description: Code identifying type of location

Code	Name
DE	Destination (Shipping)
OR	Origin (Shipping Point)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB07	352	**Description**	O	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

Syntax:

1. C0302 - If FOB03 is present, then all of FOB02 are required
2. C0405 - If FOB04 is present, then all of FOB05 are required
3. C0706 - If FOB07 is present, then all of FOB06 are required
4. C0809 - If FOB08 is present, then all of FOB09 are required

Semantics:

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.

ITD | Terms of Sale/Deferred Terms of Sale

Pos: 130	**Max: >1**
Heading - Optional	
Loop: N/A	**Elements: 4**

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD03	338	**Terms Discount Percent** **Description:** Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O	R	1/6	Used
ITD05	351	**Terms Discount Days Due** **Description:** Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used
ITD07	386	**Terms Net Days** **Description:** Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD14	107	**Payment Method Code** **Description:** Code identifying type of payment procedures	O	ID	1/2	Used

Code	Name
AC	Credit Card

Syntax:

1. L03040513 - If ITD03 is present, then at least one of ITD04,ITD05,ITD13 is required
2. L08040513 - If ITD08 is present, then at least one of ITD04,ITD05,ITD13 is required
3. L091011 - If ITD09 is present, then at least one of ITD10,ITD11 is required

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM   Date/Time Reference

Pos: 150	Max: 10
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

Code	Name
007	Effective
036	Expiration

Description: Date coverage expires

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	C	DT	8/8	Used

Description: Date expressed as CCYYMMDD

Syntax:

1. R020305 - At least one of DTM02,DTM03,DTM05 is required
2. C0403 - If DTM04 is present, then all of DTM03 are required
3. P0506 - If either DTM05,DTM06 is present, then all are required

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240   **Max: 12**
Heading - Optional
Loop: N/A   Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code
Standard Carrier Alpha Code (SCAC) as published in the National Motor Freight Classification Manual

TD504	91	**Transportation Method/Type Code**	C	ID	1/2	Used

Description: Code specifying the method or type of transportation for the shipment

Code	Name
B	Barge
H	Customer Pickup
L	Contract Carrier
M	Motor (Common Carrier)
R	Rail
T	Best Way (Shippers Option)
U	Private Parcel Service
FL	Motor (Flatbed)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD512	284	**Service Level Code**	C	ID	2/2	Used

Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier

Code	Name
ON	Overnight
SD	Saturday
SE	Second Day
ST	Standard Class

Syntax:

1. R0204050612 - At least one of TD502,TD504,TD505,TD506,TD512 is required
2. C0203 - If TD502 is present, then all of TD503 are required
3. C0708 - If TD507 is present, then all of TD508 are required
4. C1011 - If TD510 is present, then all of TD511 are required
5. C1312 - If TD513 is present, then all of TD512 are required
6. C1413 - If TD514 is present, then all of TD513 are required
7. C1512 - If TD515 is present, then all of TD512 are required

Semantics:

1. TD515 is the country where the service is to be performed.

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.

Loop AMT

Pos: 287	**Repeat: >1**
Optional	
Loop: AMT	**Elements: N/A**

To indicate the total monetary amount

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
287	AMT	Monetary Amount	O	1		Used

AMT Monetary Amount

Pos: 287	Max: 1
Heading - Optional	
Loop: AMT	**Elements: 2**

User Option (Usage): Used

To indicate the total monetary amount

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AMT01	522	**Amount Qualifier Code**	M	ID	1/3	Must use

Description: Code to qualify amount

Code	Name
MA	Maximum Amount
MO	Minimum Order Value

Description: Minimum value of order allowed

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AMT02	782	**Monetary Amount**	M	R	1/18	Must use

Description: Monetary amount
If MA Represent our Blanket Contract's Maximum Value

IF MO Represents our Minimun Order Value for the Blanket order releases.

Loop N9

Pos: 295	**Repeat: 1000**
Optional	
Loop: N9	**Elements: N/A**

To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
295	N9	Reference Identification	O	1		Used
300	MSG	Message Text	O	1000		Used

N9   Reference Identification

Pos: 295	**Max: 1**
Heading - Optional	
Loop: N9	**Elements: 4**

User Option (Usage): Used

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
C3	Customer specification number
E4	Charge Card Number
SH	Sender Defined Clause

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a
particular Transaction Set or as specified by the Reference
Identification Qualifier
*If Qualifier = C3, this field will hold NU Standard /
Procedure (specification) Number*

If Qualifier = SH, this field will hold the literal 'PRCOM'

If Qualifier = E4, this field will hold Credit Card Number

N903	369	**Free-form Description**	C	AN	1/45	Used

Description: Free-form descriptive text
If Qualifier = SH, this field will hold descriptive text

*If Qualifier = E4, this field will hold the name of the credit
card company*

N904	373	**Date**	O	DT	8/8	Used

Description: Date expressed as CCYYMMDD
NU Standard / Procedure Date Last Revised

Syntax:

1.   R0203 - At least one of N902,N903 is required
2.   C0605 - If N906 is present, then all of N905 are required

Semantics:

1.   N906 reflects the time zone which the time reflects.
2.   N907 contains data relating to the value cited in N902.

MSG Message Text

<table>
<tr><td>Pos: 300</td><td>Max: 1000</td></tr>
<tr><td colspan="2">Heading - Optional</td></tr>
<tr><td>Loop: N9</td><td>Elements: 1</td></tr>
</table>

User Option (Usage): Used

To provide a free-form format that allows the transmission of text information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MSG01	933	**Free-Form Message Text**	M	AN	1/264	Must use

Description: Free-form message text
NU will send 60 characters per MSG

Syntax:

1. C0302 - If MSG03 is present, then all of MSG02 are required

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Loop N1

Pos: 310		**Repeat: 200**
	Optional	
Loop: N1		**Elements: N/A**

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
310	N1	Name	O	1		Used
320	N2	Additional Name Information	O	2		Used
330	N3	Address Information	O	2		Used
340	N4	Geographic Location	O	>1		Used
360	PER	Administrative Communications Contact	O	>1		Used

N1 **Name**

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
BT	Bill-to-Party
BY	Buying Party (Purchaser)
DA	Delivery Address
FA	Facility
ST	Ship To
VN	Vendor

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Used

Description: Free-form name
Company Name

N103	66	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code
Used when N101 is BT (Party to be Billed)
Used when N101 is ST (Ship To)

Syntax:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 320	**Max: 2**
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

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

Element Summary:

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

N3   Address Information

Pos: 330	Max: 2
Heading - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use
N302	166	**Address Information** **Description:** Address information	O	AN	1/55	Used

N4   Geographic Location

Pos: 340	Max: >1
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				
		US United States				

Syntax:

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

Comments:

1.   A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2.   N402 is required only if city name (N401) is in the U.S. or Canada.

PER   Administrative Communications Contact

Pos: 360   **Max: >1**
Heading - Optional
Loop: N1   **Elements: 4**

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Code	Name
BD	Buyer Name or Department
RE	Receiving Contact
SR	Sales Representative or Department

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER03	365	**Communication Number Qualifier**	C	ID	2/2	Used

Description: Code identifying the type of communication number

Code	Name
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	C	AN	1/80	Used

Description: Complete communications number including country or area code when applicable
(Telephone Number)

Syntax:

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

Loop PO1

Pos: 010	**Repeat: 100000**
Mandatory	
Loop: PO1	**Elements: N/A**

To specify basic and most frequently used line item data

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	PO1	Baseline Item Data	M	1		Must use
015	LIN	Item Identification	O	>1		Used
040		Loop CTP	O		>1	Used
050		Loop PID	O		1000	Used
070	PWK	Paperwork	O	25		Used
100	REF	Reference Identification	O	>1		Used
170	TAX	Tax Reference	O	>1		Used
180	FOB	F.O.B. Related Instructions	O	>1		Used
295		Loop SCH	O		200	Used
330		Loop N9	O		1000	Used
350		Loop N1	O		200	Used

PO1   **Baseline Item Data**

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 25

User Option (Usage): Must use

To specify basic and most frequently used line item data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO101	350	**Assigned Identification**	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set *NU Purchase Order Line Number*				
PO102	330	**Quantity Ordered**	C	R	1/15	Used
		Description: Quantity ordered				
PO103	355	**Unit or Basis for Measurement Code**	O	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
PO104	212	**Unit Price**	C	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
PO105	639	**Basis of Unit Price Code**	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item				

Code	Name
CA	Catalog
CT	Contract
DS	Discount
ES	Estimated
FX	Fixed Price
	Description: Buyer and seller agree on a final price; invoice cut for this price; credit for provisional price
PR	Promotion
QT	Quoted
VQ	Verbal Quote
	Description: Provided by salesman, and nothing is on paper or in electronic file to back up the price

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO106	235	**Product/Service ID Qualifier**	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

Code	Name
CB	Buyer's Catalog Number
MF	Manufacturer

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO107	234	**Product/Service ID**	C	AN	1/48	Used
		Description: Identifying number for a product or service *Northest Utilities Catalog number* *Manufacturer's*				
PO108	235	**Product/Service ID Qualifier**	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				

Code	Name

		MF	Manufacturer				
		MG	Manufacturer's Part Number				

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO109	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Name
Manufacturer's Part Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO110	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

Code	**Name**
MG	Manufacturer's Part Number
VN	Vendor's (Seller's) Item Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO111	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Part Number
Vendors Part Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO112	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

Code	**Name**
MN	Model Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO113	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Model Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO114	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

Code	**Name**
MF	Manufacturer

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO115	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Name

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO116	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

Code	**Name**
MG	Manufacturer's Part Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO117	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Part Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO118	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

Code	**Name**
MN	Model Number
VN	Vendor's (Seller's) Item Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO119	234	**Product/Service ID**	C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Model Number
Vendor's Part Number

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
PO120	235	**Product/Service ID Qualifier**	C	ID	2/2	Used

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

		Code	**Name**				
		MF	Manufacturer				
Ref	**Id**	**Element Name**		**Req**	**Type**	**Min/Max**	**Usage**
PO121	234	**Product/Service ID**		C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Name

Ref	**Id**	**Element Name**		**Req**	**Type**	**Min/Max**	**Usage**
PO122	235	**Product/Service ID Qualifier**		C	ID	2/2	Used

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

		Code	**Name**				
		MG	Manufacturer's Part Number				
Ref	**Id**	**Element Name**		**Req**	**Type**	**Min/Max**	**Usage**
PO123	234	**Product/Service ID**		C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Part Number

Ref	**Id**	**Element Name**		**Req**	**Type**	**Min/Max**	**Usage**
PO124	235	**Product/Service ID Qualifier**		C	ID	2/2	Used

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

		Code	**Name**				
		MN	Model Number				
		VN	Vendor's (Seller's) Item Number				
Ref	**Id**	**Element Name**		**Req**	**Type**	**Min/Max**	**Usage**
PO125	234	**Product/Service ID**		C	AN	1/48	Used

Description: Identifying number for a product or service
Manufacturer's Model Number
Vendor's Part Number

Syntax:

1. C0302 - If PO103 is present, then all of PO102 are required
2. C0504 - If PO105 is present, then all of PO104 are required
3. P0607 - If either PO106,PO107 is present, then all are required
4. P0809 - If either PO108,PO109 is present, then all are required
5. P1011 - If either PO110,PO111 is present, then all are required
6. P1213 - If either PO112,PO113 is present, then all are required
7. P1415 - If either PO114,PO115 is present, then all are required
8. P1617 - If either PO116,PO117 is present, then all are required
9. P1819 - If either PO118,PO119 is present, then all are required
10. P2021 - If either PO120,PO121 is present, then all are required
11. P2223 - If either PO122,PO123 is present, then all are required
12. P2425 - If either PO124,PO125 is present, then all are required

Comments:

1. See the Data Element Dictionary for a complete list of IDs.
2. PO101 is the line item identification.
3. PO106 through PO125 provide for ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

LIN   Item Identification

Pos: 015	**Max: >1**
Detail - Optional	
Loop: PO1	**Elements: 31**

User Option (Usage): Used

To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN01	350	**Assigned Identification** **Description:** Alphanumeric characters assigned for differentiation within a transaction set *Catalog Numbers*	O	AN	1/20	Used
LIN02	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MF = Manufacturer*	M	ID	2/2	Must use
LIN03	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Name*	M	AN	1/48	Must use
LIN04	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MG = Manufacturer's Part Number*	C	ID	2/2	Used
LIN05	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Part Number*	C	AN	1/48	Used
LIN06	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MN = Manufacturer's Model Number*	C	ID	2/2	Used
LIN07	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Model Number*	C	AN	1/48	Used
LIN08	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MF = Manufacturer*	C	ID	2/2	Used
LIN09	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Name*	C	AN	1/48	Used
LIN10	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MG = Manufacturer's Part Number*	C	ID	2/2	Used
LIN11	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Part Number*	C	AN	1/48	Used
LIN12	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MN = Manufacturer's Model Number*	C	ID	2/2	Used
LIN13	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Model Number*	C	AN	1/48	Used
LIN14	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the	C	ID	2/2	Used

		descriptive number used in Product/Service ID (234) *MF = Manufacturer*				
LIN15	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Name*	C	AN	1/48	Used
LIN16	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MG = Manufacturer's Part Number*	C	ID	2/2	Used
LIN17	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Part Number*	C	AN	1/48	Used
LIN18	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MN = Manufacturer's Model Number*	C	ID	2/2	Used
LIN19	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Model Number*	C	AN	1/48	Used
LIN20	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MF = Manufacturer*	C	ID	2/2	Used
LIN21	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Name*	C	AN	1/48	Used
LIN22	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MG = Manufacturer's Part Number*	C	ID	2/2	Used
LIN23	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Part Number*	C	AN	1/48	Used
LIN24	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MN = Manufacturer's Model Number*	C	ID	2/2	Used
LIN25	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Model Number*	C	AN	1/48	Used
LIN26	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MF = Manufacturer*	C	ID	2/2	Used
LIN27	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Name*	C	AN	1/48	Used
LIN28	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MG = Manufacturer's Part Number*	C	ID	2/2	Used
LIN29	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Part Number*	C	AN	1/48	Used
LIN30	235	**Product/Service ID Qualifier** **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) *MN = Manufacturer's Model Number*	C	ID	2/2	Used
LIN31	234	**Product/Service ID** **Description:** Identifying number for a product or service *Manufacturer's Model Number*	C	AN	1/48	Used

Syntax:

1. P0405 - If either LIN04,LIN05 is present, then all are required
2. P0607 - If either LIN06,LIN07 is present, then all are required
3. P0809 - If either LIN08,LIN09 is present, then all are required
4. P1011 - If either LIN10,LIN11 is present, then all are required
5. P1213 - If either LIN12,LIN13 is present, then all are required
6. P1415 - If either LIN14,LIN15 is present, then all are required
7. P1617 - If either LIN16,LIN17 is present, then all are required
8. P1819 - If either LIN18,LIN19 is present, then all are required
9. P2021 - If either LIN20,LIN21 is present, then all are required
10. P2223 - If either LIN22,LIN23 is present, then all are required
11. P2425 - If either LIN24,LIN25 is present, then all are required
12. P2627 - If either LIN26,LIN27 is present, then all are required
13. P2829 - If either LIN28,LIN29 is present, then all are required
14. P3031 - If either LIN30,LIN31 is present, then all are required

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Loop CTP

Pos: 040	Repeat: >1
	Optional
Loop: CTP	Elements: N/A

To specify pricing information

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
040	CTP	Pricing Information	O	1		Used

CTP   Pricing Information

Pos: 040	Max: 1
Detail - Optional	
Loop: CTP	**Elements: 4**

User Option (Usage): Used

To specify pricing information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP02	236	**Price Identifier Code**	C	ID	3/3	Used

Description: Code identifying pricing specification

Code	Name
CAT	Catalog Price
CON	Contract Price
DPR	Discount Price
EST	Estimated Price
FCH	Flat Charge
PRP	Promotional price
QTE	Quote Price

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP03	212	**Unit Price**	C	R	1/17	Used

Description: Price per unit of product, service, commodity, etc.
Unit List Price

CTP06	648	**Price Multiplier Qualifier**	O	ID	3/3	Used

Description: Code indicating the type of price multiplier

Code	Name
DIS	Discount Multiplier

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTP07	649	**Multiplier**	C	R	1/10	Used

Description: Value to be used as a multiplier to obtain the actual price. The value equivalent to 1 - (discount%) / 100.

Syntax:

1.   P0405 - If either CTP04,CTP05 is present, then all are required
2.   C0607 - If CTP06 is present, then all of CTP07 are required
3.   C0902 - If CTP09 is present, then all of CTP02 are required
4.   C1002 - If CTP10 is present, then all of CTP02 are required
5.   C1103 - If CTP11 is present, then all of CTP03 are required

Semantics:

1.   CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2.   CTP08 is the rebate amount.

Comments:

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

Loop PID

Pos: 050	**Repeat: 1000**
Optional	
Loop: PID	**Elements: N/A**

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
050	PID	Product/Item Description	O	1		Used

PID   Product/Item Description

<table>
<tr><td>Pos: 050</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: PID</td><td>Elements: 2</td></tr>
</table>

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

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID05	352	**Description**	C	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

Syntax:

1. C0403 - If PID04 is present, then all of PID03 are required
2. R0405 - At least one of PID04,PID05 is required
3. C0703 - If PID07 is present, then all of PID03 are required
4. C0804 - If PID08 is present, then all of PID04 are required
5. C0905 - If PID09 is present, then all of PID05 are required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

PWK   Paperwork

Pos: 070	Max: 25
Detail - Optional	
Loop: PO1	Elements: 2

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK01	755	**Report Type Code**	M	ID	2/2	Must use

Description: Code indicating the title or contents of a document, report or supporting item

Code	Name
MS	Material Safety Data Sheet

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PWK07	352	**Description**	O	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content
MSDS Required

Syntax:
1.   P0506 - If either PWK05,PWK06 is present, then all are required

Comments:
1.   PWK05 and PWK06 may be used to identify the addressee by a code number.
2.   PWK07 may be used to indicate special information to be shown on the specified report.
3.   PWK08 may be used to indicate action pertaining to a report.

REF   Reference Identification

Pos: 100	Max: >1
Detail - Optional	
Loop: PO1	Elements: 3

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

Code	Name
12	Billing Account

 Description: Account number under which billing is rendered

CR	Customer Reference Number
KT	Request for Quotation Reference

 Description: A discrete number assigned for identification purposes to a request for quotation

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF02	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a
particular Transaction Set or as specified by the Reference
Identification Qualifier
If REF01 = 12, NU's account distribution number
that will be returned on invoice.

If REF01 = CR, Customer Reference Number.

If REF01 = KT, NU's RFQ Number

REF03	352	**Description**	C	AN	1/80	Used

Description: A free-form description to clarify the related
data elements and their content

Syntax:

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

Semantics:

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

TAX   Tax Reference

Pos: 170	Max: >1
Detail - Optional	
Loop: PO1	**Elements: 4**

User Option (Usage): Used

To provide data required for proper notification/determination of applicable taxes applying to the transaction or business described in the transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TAX01	325	**Tax Identification Number** **Description:** Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	C	AN	1/20	Used
TAX02	309	**Location Qualifier** **Description:** Code identifying type of location	C	ID	1/2	Used

	Code	Name
	SP	State/Province

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TAX03	310	**Location Identifier** **Description:** Code which identifies a specific location *CT = Connecticut* *MA = Massachusetts* *NH = New Hampshire*	C	AN	1/30	Used
TAX12	441	**Tax Exempt Code** **Description:** Code identifying exemption status from sales and use tax	O	ID	1/1	Used

	Code	Name
	1	Yes (Tax Exempt)
	2	No (Not Tax Exempt)

Syntax:

1. R0103 - At least one of TAX01,TAX03 is required
2. P0203 - If either TAX02,TAX03 is present, then all are required
3. P0405 - If either TAX04,TAX05 is present, then all are required
4. P0607 - If either TAX06,TAX07 is present, then all are required
5. P0809 - If either TAX08,TAX09 is present, then all are required
6. P1011 - If either TAX10,TAX11 is present, then all are required

Comments:

1. Tax ID number is, in many instances, referred to as a Tax Exemption Number. The paired (combined) use of data elements 309 and 310 provides for the designation of five taxing jurisdictions.
2. TAX01 is required if tax exemption is being claimed.

FOB F.O.B. Related Instructions

Pos: 180	Max: >1
Detail - Optional	
Loop: PO1	Elements: 4

User Option (Usage): Used

To specify transportation instructions relating to shipment

Element Summary:

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

Description: Code identifying payment terms for
transportation charges
on CC shipments, NU will pay freight bills from third party

Code	Name
CC	Collect
NC	Service Freight, No Charge
PC	Prepaid but Charged to Customer
PP	Prepaid (by Seller)
PU	Pickup

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB05	335	**Transportation Terms Code**	C	ID	3/3	Used

Description: Code identifying the trade terms which apply
to the shipment transportation responsibility

Code	Name
FOB	Free on Board

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB06	309	**Location Qualifier**	C	ID	1/2	Used

Description: Code identifying type of location

Code	Name
DE	Destination (Shipping)
OR	Origin (Shipping Point)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB07	352	**Description**	O	AN	1/80	Used

Description: A free-form description to clarify the related
data elements and their content

Syntax:

1. C0302 - If FOB03 is present, then all of FOB02 are required
2. C0405 - If FOB04 is present, then all of FOB05 are required
3. C0706 - If FOB07 is present, then all of FOB06 are required
4. C0809 - If FOB08 is present, then all of FOB09 are required

Semantics:

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.

Loop SCH

Pos: 295	**Repeat: 200**
Optional	
Loop: SCH	**Elements: N/A**

To specify the data for scheduling a specific line-item

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
295	SCH	Line Item Schedule	O	1		Used
297	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used

SCH   Line Item Schedule

<table>
<tr><td>Pos: 295</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: SCH</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used

To specify the data for scheduling a specific line-item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SCH01	380	**Quantity**	M	R	1/15	Must use
		Description: Numeric value of quantity				
SCH02	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
SCH05	374	**Date/Time Qualifier**	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time				

Code	Name
106	Required By

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SCH06	373	**Date**	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Syntax:

1. C0304 - If SCH03 is present, then all of SCH04 are required
2. L080910 - If SCH08 is present, then at least one of SCH09,SCH10 is required
3. C0908 - If SCH09 is present, then all of SCH08 are required
4. C1008 - If SCH10 is present, then all of SCH08 are required

Semantics:

1. SCH12 is the schedule identification.

Comments:

1. SCH05 specifies the interpretation to be used for SCH06 and SCH07.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 297	Max: 12
Detail - Optional	
Loop: SCH	Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD502	66	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD503	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code

TD504	91	**Transportation Method/Type Code**	C	ID	1/2	Used

Description: Code specifying the method or type of transportation for the shipment

Code	Name
B	Barge
H	Customer Pickup
L	Contract Carrier
M	Motor (Common Carrier)
R	Rail
T	Best Way (Shippers Option)
U	Private Parcel Service
FL	Motor (Flatbed)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD512	284	**Service Level Code**	C	ID	2/2	Used

Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier

Code	Name
ON	Overnight
SD	Saturday
SE	Second Day
ST	Standard Class

Syntax:

1. R0204050612 - At least one of TD502,TD504,TD505,TD506,TD512 is required
2. C0203 - If TD502 is present, then all of TD503 are required
3. C0708 - If TD507 is present, then all of TD508 are required
4. C1011 - If TD510 is present, then all of TD511 are required
5. C1312 - If TD513 is present, then all of TD512 are required
6. C1413 - If TD514 is present, then all of TD513 are required
7. C1512 - If TD515 is present, then all of TD512 are required

Semantics:

1. TD515 is the country where the service is to be performed.

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.

Loop N9

Pos: 330	**Repeat: 1000**
Optional	
Loop: N9	**Elements: N/A**

To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
330	N9	Reference Identification	O	1		Used
340	MSG	Message Text	O	1000		Used

N9   Reference Identification

User Option (Usage): Used

To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N901	128	**Reference Identification Qualifier**	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code	Name
C3	Customer specification number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	127	**Reference Identification**	C	AN	1/30	Used

Description: Reference information as defined for a
particular Transaction Set or as specified by the Reference
Identification Qualifier
NU Standard / Procedure Number

N904	373	**Date**	O	DT	8/8	Used

Description: Date expressed as CCYYMMDD
NU Standard / Procedure Date Last Revised

Syntax:

1.   R0203 - At least one of N902,N903 is required
2.   C0605 - If N906 is present, then all of N905 are required

Semantics:

1.   N906 reflects the time zone which the time reflects.
2.   N907 contains data relating to the value cited in N902.

MSG   Message Text

<table>
<tr><td>Pos: 340</td><td>Max: 1000</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: N9</td><td>Elements: 1</td></tr>
</table>

User Option (Usage): Used

To provide a free-form format that allows the transmission of text information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MSG01	933	**Free-Form Message Text**	M	AN	1/264	Must use
		Description: Free-form message text				
		NU will send 60 characters per MSG				

Syntax:

1.   C0302 - If MSG03 is present, then all of MSG02 are required

Semantics:

1.   MSG03 is the number of lines to advance before printing.

Comments:

1.   MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2.   If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Loop N1

Pos: 350	**Repeat: 200**
Optional	
Loop: N1	**Elements: N/A**

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
350	N1	Name	O	1		Used
360	N2	Additional Name Information	O	2		Used
370	N3	Address Information	O	2		Used
380	N4	Geographic Location	O	1		Used
400	PER	Administrative Communications Contact	O	3		Used

N1   Name

Pos: 350	**Max: 1**
Detail - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

Code	Name
DA	Delivery Address
FA	Facility
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	C	AN	1/60	Used

Description: Free-form name
Company Name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	C	ID	1/2	Used

Description: Code designating the system/method of code structure used for Identification Code (67)

Code	Name
92	Assigned by Buyer or Buyer's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	C	AN	2/80	Used

Description: Code identifying a party or other code
Used when N101 is ST (Ship To)

Syntax:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 360	Max: 2
Detail - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

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

Element Summary:

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

N3 Address Information

Pos: 370	Max: 2
Detail - Optional	
Loop: N1	**Elements: 2**

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use
N302	166	**Address Information** **Description:** Address information	O	AN	1/55	Used

N4　Geographic Location

Pos: 380	**Max: 1**
Detail - Optional	
Loop: N1	**Elements: 4**

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	**Country Code**	O	ID	2/3	Used
		Description: Code identifying the country				
		US United States				

Syntax:

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

Comments:

1.　A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2.　N402 is required only if city name (N401) is in the U.S. or Canada.

PER   Administrative Communications Contact

Pos: 400	Max: 3
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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				

Code	**Name**
RE	Receiving Contact

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER02	93	**Name**	O	AN	1/60	Used
		Description: Free-form name				
PER03	365	**Communication Number Qualifier**	C	ID	2/2	Used
		Description: Code identifying the type of communication number				

Code	**Name**
TE	Telephone

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PER04	364	**Communication Number**	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable *(Telephone Number)*				

Syntax:

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

Loop CTT

Pos: 010	**Repeat: 1**
Optional	
Loop: CTT	**Elements: N/A**

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	CTT	Transaction Totals	O	1		Used

CTT   Transaction Totals

Pos: 010	**Max: 1**
Summary - Optional	
Loop: CTT	**Elements: 2**

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items** **Description:** Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	**Hash Total** **Description:** Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.Example:-.0018 First occurrence of value beinghashed..18 Second occurrence of value beinghashed.1.8 Third occurrence of value beinghashed.18.01 Fourth occurrence of value beinghashed.---------1855 Hash total prior to truncation.855 Hash total after truncation tothree-digit field. *Total quantity (summed) of all line items*	O	R	1/10	Used

Syntax:

1.   P0304 - If either CTT03,CTT04 is present, then all are required
2.   P0506 - If either CTT05,CTT06 is present, then all are required

Comments:

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

SE Transaction Set Trailer

Pos: 030	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:

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

Comments:

1. SE is the last segment of each transaction set.

GE   Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1.   The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1.   The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA   Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups** **Description:** A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9	Must use