

# **Northeast Utilities ANSI X12 4010**

**840 Request for Quotation**

**Version: 1.0**

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# 840 Request for Quotation

## Functional Group=RQ

This Draft Standard for Trial Use contains the format and establishes the data contents of the Request for Quotation Transaction Set (840) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide potential buyers with the ability to solicit price, delivery schedule, and other items from potential sellers of goods and services.

### Heading:

<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>
010	ST	Transaction Set Header	M	1			Must use
020	BQT	Beginning Segment for Request for Quotation	M	1			Must use
040	CUR	Currency	O	1			Used
080	FOB	F.O.B. Related Instructions	O	>1			Used
130	ITD	Terms of Sale/Deferred Terms of Sale	O	5			Used
150	DTM	Date/Time Reference	O	10			Used
160	LDT	Lead Time	O	12			Used
240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
<b>LOOP ID - N9</b>					<b>1000</b>		
290	N9	Reference Identification	O	1			Used
300	MSG	Message Text	O	1000			Used
<b>LOOP ID - N1</b>					<b>10000</b>		
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:

<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>
<b>LOOP ID - PO1</b>					<b>100000</b>		
010	PO1	Baseline Item Data	M	1			Must use
015	LIN	Item Identification	O	>1			Used
<b>LOOP ID - PID</b>					<b>1000</b>		
050	PID	Product/Item Description	O	1			Used
070	PWK	Paperwork	O	25			Used
<b>LOOP ID - SCH</b>					<b>104</b>	<b>N2/296L</b>	
296	SCH	Line Item Schedule	O	1		N2/296	Used
<b>LOOP ID - N9</b>					<b>1000</b>		
320	N9	Reference Identification	O	1			Used
330	MSG	Message Text	O	1000			Used

### 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>
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use

### Notes:

- 2/296L 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.
- 2/296 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.
- 3/010 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.

# 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:

<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	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> 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

## 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).

# BQT Beginning Segment for Request for Quotation

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

**User Option (Usage):** Must use

To indicate the beginning of a Request for Quotation 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>
BQT01	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set <b>Code Name</b> 00 Original	M	ID	2/2	Must use
BQT02	586	<b>Request for Quote Reference Number</b> <b>Description:</b> Number assigned by the purchaser to identify his request for quote	M	AN	1/45	Must use
BQT03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
BQT06	92	<b>Purchase Order Type Code</b> <b>Description:</b> Code specifying the type of Purchase Order <b>Code Name</b> BE Blanket Order/Estimated Quantities (Not firm Commitment) EO Emergency Order RR Repair and Return SA Stand-alone Order	O	ID	2/2	Used

## Syntax:

1. P0405 - If either BQT04,BQT05 is present, then all are required

## Semantics:

1. BQT03 is the date to be used for reference purposes in an RFQ and a response to RFQ.

# CUR Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

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

## 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>
CUR01	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>Code Name</b> BY Buying Party (Purchaser)	M	ID	2/3	Must use
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use

## 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.

# 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:

<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	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges <b>Code Name</b> CC Collect NC Service Freight, No Charge PC Prepaid but Charged to Customer PP Prepaid (by Seller) PU Pickup	M	ID	2/2	Must use
FOB05	335	<b>Transportation Terms Code</b> <b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility <b>Code Name</b> FOB Free on Board	X	ID	3/3	Used
FOB06	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>Code Name</b> DE Destination (Shipping) OR Origin (Shipping Point)	X	ID	1/2	Used
FOB07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

## 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: 5
Heading - Optional	
Loop: N/A	Elements: 3

**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>
ITD03	338	<b>Terms Discount Percent</b> <b>Description:</b> 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	<b>Terms Discount Days Due</b> <b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned	X	N0	1/3	Used
ITD07	386	<b>Terms Net Days</b> <b>Description:</b> Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used

## 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: 4

**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	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>Code Name</b> 092 Contract Effective 093 Contract Expiration 106 Required By	M	ID	3/3	Must use
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	TM	4/8	Used
DTM04	623	<b>Time Code</b> <b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow <b>Code Name</b> CD Central Daylight Time CS Central Standard Time ED Eastern Daylight Time ES Eastern Standard Time MD Mountain Daylight Time MS Mountain Standard Time PD Pacific Daylight Time PS Pacific Standard Time	O	ID	2/2	Used

## 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

# LDT Lead Time

Pos: 160	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

To specify lead time for availability of products and services

## 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>
LDT01	345	<b>Lead Time Code</b> <b>Description:</b> Code indicating the time range	M	ID	2/2	Must use
		<b>Code Name</b>				
		AF From date of PO receipt to delivery				
LDT04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used

## Semantics:

1. LDT04 is the effective date of lead time information.

## Comments:

1. LDT02 is the quantity of unit of time periods.

# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 240	Max: 12
Heading - Optional	
Loop: N/A	Elements: 5

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>
TD502	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>Code Name</b> 2 Standard Carrier Alpha Code (SCAC)	X	ID	1/2	Used
TD503	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
TD504	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment <b>Code Name</b> 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)	X	ID	1/2	Used
TD505	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Used
TD512	284	<b>Service Level Code</b> <b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier <b>Code Name</b> ON Overnight SD Saturday SE Second Day ST Standard Class	X	ID	2/2	Used

## 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.

# N9 Reference Identification

Pos: 290	Max: 1
Heading - Optional	
Loop: N9	Elements: 3

**User Option (Usage):** Used

To transmit identifying information as specified by the Reference Identification Qualifier

## 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	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code Name</b> C3 Customer specification number SH Sender Defined Clause				
N902	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
N904	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used

## 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

Pos: 300	Max: 1000
Heading - Optional	
Loop: N9	Elements: 1

**User Option (Usage):** Used

To provide a free-form format that allows the transmission of text 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>
MSG01	933	<b>Free-Form Message Text</b>	M	AN	1/264	Must use

**Description:** Free-form message text

## 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.

# N1 Name

<b>Pos: 310</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 4</b>

**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	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>Code Name</b> 7N Party to Receive Proposal VN Vendor	M	ID	2/3	Must use
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Used
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>Code Name</b> 92 Assigned by Buyer or Buyer's Agent	X	ID	1/2	Used
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used

**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: 1

**User Option (Usage):** Used

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

## 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	<b>Name</b> <b>Description:</b> Free-form name	M	AN	1/60	Must use

# 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:

<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	<b>Address Information</b> <b>Description:</b> Address information	M	AN	1/55	Must use
N302	166	<b>Address Information</b> <b>Description:</b> 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:

<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	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used

## 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:

<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	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>Code Name</b> BD Buyer Name or Department SR Sales Representative or Department	M	ID	2/2	Must use
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>Code Name</b> TE Telephone	X	ID	2/2	Used
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used

## 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

# PO1 Baseline Item Data

Pos: 010	Max: 1
Detail - Mandatory	
Loop: PO1	Elements: 23

User Option (Usage): Must use

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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PO102	330	<b>Quantity Ordered</b> <b>Description:</b> Quantity ordered	X	R	1/15	Used
PO103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Used
PO106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code Name</b> CB Buyer's Catalog Number KK Special Material Identification Code				
PO107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO108	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number				
PO109	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO110	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number				
PO111	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO112	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number				
PO113	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO114	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number	X	ID	2/2	Used
PO115	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO116	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number	X	ID	2/2	Used
PO117	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO118	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number	X	ID	2/2	Used
PO119	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO120	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number	X	ID	2/2	Used
PO121	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO122	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer MG Manufacturer's Part Number MN Model Number	X	ID	2/2	Used
PO123	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
PO124	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>Code Name</b> MF Manufacturer	X	ID	2/2	Used

	<b>Code</b>	<b>Name</b>				
	MG	Manufacturer's Part Number				
	MN	Model Number				
PO125	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				

**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:

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

		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN11	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN12	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN13	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN14	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN15	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN16	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN17	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN18	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN19	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN20	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN21	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN22	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN23	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN24	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN25	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN26	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN27	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN28	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN29	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				
LIN30	235	<b>Product/Service ID Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<b>Code Name</b>				
		MF Manufacturer				
		MG Manufacturer's Part Number				
		MN Model Number				
LIN31	234	<b>Product/Service ID</b>	X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service				

**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.

# PID Product/Item Description

Pos: 050	Max: 1
Detail - Optional	
Loop: PID	Elements: 2

**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	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use
		<b>Code Name</b> F Free-form				
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

## 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:

<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	<b>Report Type Code</b> <b>Description:</b> Code indicating the title or contents of a document, report or supporting item	M	ID	2/2	Must use
		<b>Code Name</b> MS Material Safety Data Sheet				
PWK07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

## 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.

# SCH Line Item Schedule

Pos: 296	Max: 1
Detail - Optional	
Loop: SCH	Elements: 4

**User Option (Usage):** Used

To specify the data for scheduling a specific line-item

## 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>
SCH01	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	M	R	1/15	Must use
SCH02	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Must use
SCH05	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
SCH06	373	<b>Code Name</b> 106 Required By <b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use

## 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.

# N9 Reference Identification

Pos: 320	Max: 1
Detail - Optional	
Loop: N9	Elements: 3

**User Option (Usage):** Used

To transmit identifying information as specified by the Reference Identification Qualifier

## 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	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code Name</b> C3 Customer specification number				
N902	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
N904	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used

## 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

Pos: 330	Max: 1000
Detail - Optional	
Loop: N9	Elements: 1

**User Option (Usage):** Used

To provide a free-form format that allows the transmission of text 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>
MSG01	933	<b>Free-Form Message Text</b>	M	AN	1/264	Must use

**Description:** Free-form message text

## 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.

# CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	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	<b>Number of Line Items</b>	M	NO	1/6	Must use
		<b>Description:</b> Total number of line items in the transaction set				

## 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: 020	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	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> 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:

- SE is the last segment of each transaction set.



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