

Utility Industry Group Implementation Standard

for

Electronic **D**ata **I**nterchange

TRANSACTION SET

860

Ver/Rel 004010

Purchase Order Change – Buyer Initiated

Summary of Changes

June 7, 2000

Initial release.

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860 Purchase Order Change – Buyer Initiated

Introduction

The function of the Utility Industry Group is

To represent Electric, Gas, and Combination Utilities, their suppliers, their customers, and other interested parties as an Industry Action Group to the American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12, specifically in the standards-setting process, for their Electronic Data Interchange business needs.

To encourage, promote, and establish conventions for the use of ASC X12 standards as the “recommended” method of EDI. To develop and coordinate, as required, implementation guidelines and tools to promote the growth and timely implementation of Electronic Commerce/EDI within the industry.

To provide a forum for the exchange of ideas related to Electronic Commerce/EDI and its influence on the business needs of the industry.

Purpose

This Utility Industry Group (UIG) Implementation Standard contains the format and establishes the data contents of the UIG implementation of the ANSI X12 Purchase Order Change Request Transaction Set (860), for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the required information for the customary and established business and industry practice relative to a purchase order change. This transaction set can be used: (1) by a buyer to request a change to a previously submitted purchase order or (2) by a buyer to confirm acceptance of a purchase order change initiated by the seller or by mutual agreement of the two parties.

Overview

The 860 Purchase Order Change transaction set consists of three groups of data segments: header, detail, and summary. In general, the header segments identify the interchanging partners, establish control numbers, and specify the use and purpose of the transaction set. The detail area consists of repeating segments of line item data. A number of line items can be included in a single purchase order change transaction. The summary area provides the totals and control numbers to ensure a complete transmission.

860 Purchase Order Change

Best Practices

Global Best Practices

Use of Text Segments

- The UIG recommends that the note (NTE) segment be avoided because this segment is not machine-readable. Other text segments, such as MSG and PID, may be used if their use will lead to machine processable information in subsequent applications.

Use of ZZ Qualifier

- The use of data fields to transmit uncoded or textual information should be avoided. This practice is usually associated with the use of the ZZ qualifier as a normal course of doing business.

997 - Functional Acknowledgment

- The purpose of the 997 is to verify receipt of a transmitted document only, not the acceptance of the document. For example, the acceptance of a purchase order change (860) is accomplished through the use of the purchase order change acknowledgment transaction (865).

Interchange Control Number

- A unique and sequential interchange control number should be used on every envelope that is transmitted to a trading partner. This approach will allow the receiver to audit the interchange for any duplicate or missing transmissions.

Use of Dun & Bradstreet (D-U-N-S) Number

- Dun & Bradstreet assigns a nine-digit identification number to every business entity. This number, known as the D-U-N-S number, should be used to identify the trading partners. A trading partner may append a four-digit suffix to the D-U-N-S number to uniquely identify a specific location within the entity; this number is referred to as a D-U-N-S + 4 number.

Banking Transactions

- Guidelines that outline the use of transactions relating to interactions between a sender and the sender's financial institution are available from the Bankers EDI Council and the NACHA EDI Council. Other publications that address the use of financial payment transactions include Technical Report 1 (TR1) and Technical Report 2 (TR2); both of these publications are available from DISA.

Document-Specific Best Practices

Use of The PID Segment

- The use of the PID (product description) segment should be limited to those cases where no utility or supplier number is available to identify the material or where a product's technical description is required.
- If a description is transmitted in addition to a utility or supplier number, the sending application should limit the ability to modify this description field as this data may be used as key data in the receiving application.
- If a modified description (i.e., similar to) is transmitted along with a utility or supplier number within the POC loop, the qualifier associated with the supplier number should be changed to VI (vary item product number) to inform the receiving application of the change.

Safety-Related Purchasing

For the purpose of these best practices, the term 'attachments' refers to the technical and quality requirements and applicable specifications that are referenced as part of the purchase order change, either by attachment to or by incorporation into the body of the purchase order change.

- The utility is responsible for assuring that the supplier has received the original hard-copy set of all applicable safety-related attachments and for providing the supplier with all revisions or changes to the attachments.
- The supplier is responsible for assuring that the safety-related clauses or attachments identified in the N9/MSG segments of the EDI purchase order are on file. The supplier is responsible for contacting the utility prior to processing if the supplier does not possess the referenced attachment(s).
- To assure integrity, all safety-related orders or change orders will require confirmation by means of a Purchase Order Acknowledgment (TS 855) or P.O. Change Acknowledgment (TS 865), specifically confirming the attachment data.
- Safety and non-safety items should not be combined in the same purchase order.
- All nuclear orders are to be coded as either safety or non-safety.
- The partners should attempt to consolidate and standardize attachments.
- Release purchase orders will only reference attachments that have been previously agreed to in the original blanket purchase order. All additional attachments or modifications to attachments must be accomplished by a change order to the original blanket order.

Use of The SCH Segment

The SCH segment is used instead of the DTM segment, even if only one delivery date is specified.

Multiple Ship-To Addresses

- Because many supplier order systems cannot handle multiple ship-to destinations on one purchase order, only one ship-to destination should be included in a purchase order or purchase order change, in the Header N1 loop. If the originator chooses to send multiple ship-to destinations, using the Detail N1 loop, the recipient should be contacted to confirm that multiple destinations can be processed.

860 Purchase Order Change Request - Buyer Initiated

Functional Group ID=**PC**

Heading:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
9	010	ST	Transaction Set Header	M	M/U	1		
10	020	BCH	Beginning Segment for Purchase Order Change	M	M/U	1		
12	040	CUR	Currency	O		1		
13	050	REF	Reference Identification	O		>1		
14	060	PER	Administrative Communications Contact	O		3		
15	070	TAX	Tax Reference	O		>1		
17	080	FOB	F.O.B. Related Instructions	O		>1		
19	130	ITD	Terms of Sale/Deferred Terms of Sale	O		5		
20	150	DTM	Date/Time Reference	O		10		
21	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O		12		
23	270	MAN	Marks and Numbers	O		10		
LOOP ID - N9							1000	
24	285	N9	Reference Identification	O		1		
26	290	MSG	Message Text	O		1000		
LOOP ID - N1							200	
27	300	N1	Name	O		1		
28	310	N2	Additional Name Information	O		2		
29	320	N3	Address Information	O		2		
30	330	N4	Geographic Location	O		>1		
31	350	PER	Administrative Communications Contact	O		>1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID – POC				>1	
32	010	POC	Line Item Change	O		1		
36	015	LIN	Item Identification	O		>1		
			LOOP ID – PID				1000	
39	050	PID	Product/Item Description	O		1		
40	070	PWK	Paperwork	O		25		
41	100	REF	Reference Identification	O		>1		
42	200	DTM	Date/Time Reference	O		10		
			LOOP ID – SCH				200	
43	295	SCH	Line Item Schedule	O		1		
44	305	TD5	Carrier Details (Routing Sequence/Transit Time)	O		12		
			LOOP ID - N9				1000	
46	320	N9	Reference Identification	O		1		
47	330	MSG	Message Text	O		1000		
			LOOP ID - N1				200	
48	340	N1	Name	O		1		
49	350	N2	Additional Name Information	O		2		
50	360	N3	Address Information	O		2		
51	370	N4	Geographic Location	O		1		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Base Status	User Status	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT				1	
52	010	CTT	Transaction Totals	O		1		n1
53	020	AMT	Monetary Amount	O		1		
54	030	SE	Transaction Set Trailer	M	M/U	1		

Transaction Set Notes

1. POC02 is required.
2. The SCH segment is used to specify various quantities of items ordered that are to be scheduled. When the segment is used, the unit of measurement code (SCH02) should always be identified to the unit of measurement code in the associated POC segment (POC05) and the sum of values of quantity (SCH01) should always equal the quantity ordered (POC03) in the POC segment.
3. Number of line items (CTT01) is the accumulation of the number of POC segments. If used, hash total (CTT02) is the sum of the value of quantities ordered (POC03) for each POC segment.
4. If AMT is used in the summary area, then AMT01 will equal TT and AMT02 will indicate total transaction amount as calculated by the sender.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 860 selects the Purchase Order Change Request - Buyer Initiated Transaction Set).
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 860 Purchase Order Change Request - Buyer Initiated	M ID 3/3	MUST USE
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9	MUST USE

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

Syntax Notes:

Semantic Notes:

- 1 BCH06 is the date assigned by the purchaser to purchase order.
- 2 BCH09 is the seller's order number.
- 3 BCH10 is the date assigned by the sender to the acknowledgment.
- 4 BCH11 is the date of the purchase order change request.

Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
			M	ID 2/2	MUST USE
BCH01	353	Transaction Set Purpose Code			
		Code identifying purpose of transaction set			
		00 Original			
		01 Cancellation			
		04 Change			
		Change implies specific modifications to Header information or an existing line item. A change to a line item will be supplied as a complete overlay of all data for the affected line item.			
		05 Replace			
		06 Confirmation			
		Sent as follow-up to a verbal order.			
		11 Response			
		Specifies a buyer's response to a seller's PO change acknowledgment			
BCH02	92	Purchase Order Type Code	M	ID 2/2	MUST USE
		Code specifying the type of Purchase Order			
		BE Blanket Order/Estimated Quantities (Not firm Commitment)			
		BK Blanket Order (Quantity Firm)			
		OS Special Order			
		Indicates that manual intervention is required.			
		RL Release or Delivery Order			
		An order for goods and services placed against a pre-existing contract or blanket order			
		RO Rush Order			
		RR Repair and Return			
		SA Stand-alone Order			

BCH03	324	Purchase Order Number	M AN 1/22 MUST USE
		Identifying number for Purchase Order assigned by the orderer/purchaser	
		This is the PO number when BCH02 = SA, or the blanket PO number when BCH02 = RL	
		Trading partners must agree on which reference numbers should be returned in related transaction sets i.e., BCH03, 04, 08.	
BCH04	328	Release Number	O AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
		Release number is generally used when BCH02 = RL.	
BCH05	327	Change Order Sequence Number	O AN 1/8
		Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	
		Recommended by Utility Industry Group	
BCH06	373	Date	M DT 8/8 MUST USE
		Date expressed as CCYYMMDD	
BCH07	326	Request Reference Number	O AN 1/45
		Reference number or RFQ number to use to identify a particular transaction set and query (additional reference number or description which can be used with contract number)	
BCH08	367	Contract Number	O AN 1/30
		Contract number	
		This is a reference to an original master agreement on Terms & Conditions. Ask NYSEG why they want to add date	
BCH12	1166	Contract Type Code	O ID 2/2
		Code identifying a contract type	
	02	Per Diem	
		A contract which allows certain charges to be on a rate per day basis	
	CP	Cost Plus	
	FE	Fixed Price with Escalation	
	FR	Firm Fixed Price	
	FX	Fixed Price with Economic Price Adjustment	
	LA	Labor	
	TM	Time and Materials	

Segment: **CUR** Currency
Position: 040
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax Notes:

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

Semantic Notes:
Comments: 1 See Figures Appendix in X12 Standards Release 4010 for examples detailing the use of the CUR segment.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
CUR01	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser) SE Selling Party	M ID 2/3	MUST USE
CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified	M ID 3/3	MUST USE

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:

Ref. Des.	Data Element	Data Element Summary		Base Attributes	User Attributes
		Name			
REF01	128	Reference Identification Qualifier		M ID 2/3	MUST USE
		Code qualifying the Reference Identification			
		CR	Customer Reference Number		
		EQ	Equipment Number		
			Buyer's machine reference or identifier		
		L1	Letters or Notes		
		P4	Project Code		
		PR	Price Quote Number		
			Supplier's Quote Number		
		QC	Product Specification Document Number		
			Model designation of replacement component		
			Represents a non-nuclear safety related item		
		QR	Quality Report Number		
			Represents a utility specific classification of product safety.		
			May include safety, commercial or non-safety parts. The		
			buyer is responsible for proper classification while the		
			supplier is responsible for proper interpretation. Represents		
			a nuclear related item.		
		S3	Specification Number		
		SE	Serial Number		
REF02	127	Reference Identification		C AN 1/30	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
		NSR represents nuclear safety related classification (10CFR21 or equivalent applies)			
		NNS represents nuclear non-safety related classification (10CFR21 or equivalent does not apply)			
REF03	352	Description		C AN 1/80	
		A free-form description to clarify the related data elements and their content			
		Use when REF01 = QC or QR and REF02 = NSR or NNS to identify relevant documents and requirements.			

Segment: **PER Administrative Communications Contact**

Position: 060

Loop:

Level: Heading

Usage: Optional

Max Use: 3

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

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department CW Confirmed With EX Expeditor IC Information Contact	M ID 2/2	MUST USE
PER02	93	Name Free-form name	O AN 1/60	
PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2	
PER04	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/80	
PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2	
PER06	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/80	
PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X ID 2/2	
PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80	

Segment: **TAX** Tax Reference

Position: 070

Loop:

Level: Heading

Usage: Optional

Max Use: >1

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

- Syntax Notes:**
- 1 At least one of TAX01 or TAX03 is required.
 - 2 If either TAX02 or TAX03 is present, then the other is required.
 - 3 If either TAX04 or TAX05 is present, then the other is required.
 - 4 If either TAX06 or TAX07 is present, then the other is required.
 - 5 If either TAX08 or TAX09 is present, then the other is required.
 - 6 If either TAX10 or TAX11 is present, then the other is required.

Semantic Notes:

- 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.

Notes: Used to identify tax exemption.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
TAX01	325	Tax Identification Number 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	
TAX02	309	Location Qualifier Code identifying type of location AC City and State CI City CY County/Parish SP State/Province	C ID 1/2	
TAX03	310	Location Identifier Code which identifies a specific location	C AN 1/30	
TAX04	309	Location Qualifier Code identifying type of location AC City and State CI City CY County/Parish SP State/Province	C ID 1/2	
TAX05	310	Location Identifier Code which identifies a specific location	C AN 1/30	

TAX06	309	Location Qualifier	C ID 1/2
		Code identifying type of location	
		AC City and State	
		CI City	
		CY County/Parish	
		SP State/Province	
TAX07	310	Location Identifier	C AN 1/30
		Code which identifies a specific location	
TAX08	309	Location Qualifier	C ID 1/2
		Code identifying type of location	
		AC City and State	
		CI City	
		CY County/Parish	
		SP State/Province	
TAX09	310	Location Identifier	C AN 1/30
		Code which identifies a specific location	
TAX12	441	Tax Exempt Code	O ID 1/1
		Code identifying exemption status from sales and use tax	
		0 Exempt (For Export)	
		1 Yes (Tax Exempt)	
		2 No (Not Tax Exempt)	
		7 Direct Pay ID	
		8 Exempt (Sale to U.S. Government)	

Segment: **FOB** F.O.B. Related Instructions
Position: 080
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:
 1 If FOB03 is present, then FOB02 is required.
 2 If FOB04 is present, then FOB05 is required.
 3 If FOB07 is present, then FOB06 is required.
 4 If FOB08 is present, then FOB09 is required.
Semantic Notes:
 1 FOB01 indicates which party will pay the carrier.
 2 FOB02 is the code specifying transportation responsibility location.
 3 FOB06 is the code specifying the title passage location.
 4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
FOB01	146	Shipment Method of Payment	M ID 2/2	MUST USE
		Code identifying payment terms for transportation charges		
		CC	Collect	
		CF	Collect, Freight Credited Back to Customer	
		DF	Defined by Buyer and Seller	
		NC	Service Freight, No Charge	
			Use to indicate no freight will be billed.	
		PA	Advance Prepaid	
			Use if material purchased includes shipment costs in the unit price, but freight charges will be invoiced as a separate amount.	
		PC	Prepaid but Charged to Customer	
			Use if material purchased does not include shipment costs in the unit price, but the seller prepays freight charges and invoices the buyer for reimbursement.	
		PS	Paid by Seller	
			The seller agrees to the transportation payment term requiring the seller to pay transportation charges to a specified location (origin or destination location)	
			Use if material purchased includes shipment costs in the unit price, but freight charges will not be invoiced as a separate amount.	
		PU	Pickup	
			No charge incurred.	

FOB05	335	Transportation Terms Code	C ID 3/3
		Code identifying the trade terms which apply to the shipment transportation responsibility	
		FAS	Free Alongside Ship Seller's obligation ends when goods have been placed alongside the vessel on the quay or in lighters at the named port of shipment; buyer bears all costs and risks thereafter
		FOB	Free on Board
FOB06	309	Location Qualifier	C ID 1/2
		Code identifying type of location	
		AC	City and State
		DE	Destination (Shipping)
		OR	Origin (Shipping Point)
FOB07	352	Description	O AN 1/80
		A free-form description to clarify the related data elements and their content	

Segment: **ITD** **Terms of Sale/Deferred Terms of Sale**
Position: 130
Loop:
Level: Heading
Usage: Optional
Max Use: 5
Purpose: To specify terms of sale
Syntax Notes:
 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:
 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
ITD01	336	Terms Type Code Code identifying type of payment terms 04 Deferred or Installment 05 Discount Not Applicable 08 Basic Discount Offered 09 Proximo 20 Progress Payment Term at which progress payments are authorized by the terms of the contract	O ID 2/2	
ITD02	333	Terms Basis Date Code Code identifying the beginning of the terms period 1 Ship Date 3 Invoice Date 5 Invoice Receipt Date 15 Receipt of Goods	O ID 1/2	
ITD03	338	Terms Discount Percent 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	
ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned	C N0 1/3	
ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	O N0 1/3	

Segment: **DTM** Date/Time Reference
Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
 1 At least one of DTM02 DTM03 or DTM05 is required.
 2 If DTM04 is present, then DTM03 is required.
 3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:

Data Element Summary				
Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	MUST USE
		Code specifying type of date or time, or both date and time		
		007	Effective	
			Date blanket purchase order starts.	
		036	Expiration	
			Date coverage expires	
			Date blanket purchase order ends.	
		055	Confirmed	
			Date verbal order placed.	
		064	Do Not Deliver Before	
		106	Required By	
			Deliver on or before this date.	
		112	Buyers Dock	
			Deliver on this date.	
		150	Service Period Start	
		151	Service Period End	
		994	Quote	
			The date on which a (price) quote was rendered	
DTM02	373	Date	X DT 8/8	
		Date expressed as CCYYMMDD		

Segment: **TD5 Carrier Details (Routing Sequence/Transit Time)**
Position: 240
Loop:
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

Semantic Notes:

- 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	O ID 1/2	
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	C ID 1/2	Recommended
TD503	67	Identification Code Code identifying a party or other code	C AN 2/80	
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air D Parcel Post FL Motor (Flatbed) H Customer Pickup M Motor (Common Carrier) R Rail SR Supplier Truck T Best Way (Shippers Option) U Private Parcel Service	C ID 1/2	
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's Identity	C AN 1/35	Not Recommended

TD507	309	Location Qualifier	O ID 1/2
		Code identifying type of location	
		PA Port of Arrival	
		Port where shipment enters country	
		PE Port of Entry	
		Port where customs is declared	
TD508	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	
TD512	284	Service Level Code	C ID 2/2
		Code indicating the level of transportation service or the billing service offered by the transportation carrier	
		ON Overnight	
		SD Saturday	
		SE Second Day	
		ST Standard Class	

Segment: **MAN** Marks and Numbers
Position: 270
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
 1 If either MAN04 or MAN05 is present, then the other is required.
 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:
 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:
 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA SSCC-18 AI UCC/EAN-128 Application Identifier (AI) and Data GM SSCC-18 and Application Identifier UC U.P.C. Shipping Container Code UP U.P.C. Consumer Package Code (1-5-5-1)	M ID 1/2	MUST USE
MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48	MUST USE
MAN03	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48	
MAN04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA SSCC-18 AI UCC/EAN-128 Application Identifier (AI) and Data GM SSCC-18 and Application Identifier UC U.P.C. Shipping Container Code UP U.P.C. Consumer Package Code (1-5-5-1)	X ID 1/2	
MAN05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	X AN 1/48	
MAN06	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48	

Segment: N9 Reference Identification

Position: 285

Loop: N9 Optional

Level: Heading

Usage: Optional

Max Use: 1

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: The N9/MSG loop provides a utility-specific document identification for a technical specification that relates to the product(s) being ordered, including any revision identification to the original technical document. A revision may include the date (and time) of the revision.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N901	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3	MUST USE
		C3 Customer specification number Represents a customer specification known by the supplier.		
		E4 Charge Card Number Use when payment will be made with a purchasing card.		
		SH Sender Defined Clause		
		SU Special Processing Code Unique code identifying the special handling requirements for the claim Represents a special customer specification where additional information must be included in the MSG segment(s)		
N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/30	
		Specification / Attachment / Clause Number when N901 = C3, SH, or SU. Purchasing Card Number when N901 = E4.		
N903	369	Free-form Description Free-form descriptive text Revision Number when N901 = C3, SH, or SU.	C AN 1/45	

N904	373	Date Date expressed as CCYYMMDD Revision Date when N901 = C3, SH, or SU. Purchasing Card Expiration Date when N901 = E4.	O DT 8/8
N905	337	Time 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) Revision Time when N901 = C3, SH, or SU.	X TM 4/8
N906	623	Time Code 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 Use any valid code for Data Element 623, as agreed between the trading partners.	O ID 2/2

Segment: **MSG** Message Text
Position: 290
Loop: N9 Optional
Level: Heading
Usage: Optional
Max Use: 1000
Purpose: To provide a free-form format that allows the transmission of text information
Syntax Notes: 1 If MSG03 is present, then MSG02 is required.
Semantic Notes: 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
MSG01	933	Free-Form Message Text	M AN 1/264	MUST USE
		Free-form message text		
		Free-form text from 1 to 60 characters is recommended to facilitate on-line presentation of the data. The MSG segment is used primarily in conjunction with the "SU" qualifier in N901 for additional text information.		

Segment: **N1 Name**
Position: 300
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3	MUST USE
		Code identifying an organizational entity, a physical location, property or an individual		
		BS Bill and Ship To		
		BT Bill-to-Party		
		BY Buying Party (Purchaser)		
		Can be used as the electronic signature for buyer		
		FP Name on Credit Card		
		MA Party for whom Item is Ultimately Intended		
		Used for internal distribution i.e. desktop delivery		
		PF Party to Receive Freight Bill		
		PN Party to Receive Shipping Notice		
		SF Ship From		
		SN Store		
		ST Ship To		
		VN Vendor		
		Specifies buyer's vendor ID		
N102	93	Name	C AN 1/60	
		Free-form name		
N103	66	Identification Code Qualifier	C ID 1/2	
		Code designating the system/method of code structure used for Identification Code (67)		
		1 D-U-N-S Number, Dun & Bradstreet		
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix		
		92 Assigned by Buyer or Buyer's Agent		
N104	67	Identification Code	C AN 2/80	
		Code identifying a party or other code		

Segment: **N2 Additional Name Information**
Position: 310
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
N201	93	Name Free-form name	M AN 1/60	MUST USE
N202	93	Name Free-form name	O AN 1/60	

Segment: **N3** Address Information
Position: 320
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N301	166	Address Information Address information	M AN 1/55	MUST USE
N302	166	Address Information Address information	O AN 1/55	

Segment: **N4 Geographic Location**
Position: 330
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N401	19	City Name Free-form text for city name	O AN 2/30	
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2	
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15	
N404	26	Country Code Code identifying the country	O ID 2/3	

Segment: PER Administrative Communications Contact

Position: 350

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: >1

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

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes	
			M	ID 2/2	MUST USE	
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named DC Delivery Contact EX Expeditor IC Information Contact OC Order Contact RE Receiving Contact	M	ID 2/2		
PER02	93	Name Free-form name	O		AN 1/60	
PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C	ID 2/2		
PER04	364	Communication Number Complete communications number including country or area code when applicable	C		AN 1/80	
PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C	ID 2/2		
PER06	364	Communication Number Complete communications number including country or area code when applicable	C		AN 1/80	
PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	X	ID 2/2		
PER08	364	Communication Number Complete communications number including country or area code when applicable	X		AN 1/80	

- Segment:** **POC** Line Item Change
- Position:** 010
- Loop:** POC Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify changes to a line item
- Syntax Notes:**
- 1 If POC03 is present, then both POC04 and POC05 are required.
 - 2 If POC07 is present, then POC06 is required.
 - 3 If either POC08 or POC09 is present, then the other is required.
 - 4 If either POC10 or POC11 is present, then the other is required.
 - 5 If either POC12 or POC13 is present, then the other is required.
 - 6 If either POC14 or POC15 is present, then the other is required.
 - 7 If either POC16 or POC17 is present, then the other is required.
 - 8 If either POC18 or POC19 is present, then the other is required.
 - 9 If either POC20 or POC21 is present, then the other is required.
 - 10 If either POC22 or POC23 is present, then the other is required.
 - 11 If either POC24 or POC25 is present, then the other is required.
 - 12 If either POC26 or POC27 is present, then the other is required.
- Semantic Notes:**
- 1 POC01 is the purchase order line item identification.
- Comments:**
- 1 See the Data Element Dictionary for a complete list of IDs.
 - 2 POC01 is the line item identification.
 - 3 POC08 through POC27 provide the ten different product/service IDs per each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
POC01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20	
POC02	670	Change or Response Type Code Code specifying the type of change to the line item	M ID 2/2	MUST USE
		AI Add Additional Item(s)		
		CT Change of Dates Dates are as specified in the DTM segment.		
		DI Delete Item(s) Interpret as a cancel item.		
		MU (Multiple) For Unit Price Quantity Reschedule Change Overlay of the price, quantity and date change. (DTM02/SCH06)		

PC	Price Change
PQ	Unit Price/Quantity Change A new price and a new quantity
PR	Unit Price/Reschedule Change A new price and a date change (DTM02/SCH06)
QD	Quantity Decrease The new quantity is specified in POC03.
QI	Quantity Increase The new quantity is specified in POC03.
RE	Replacement Item Replace item - complete overlay of all LI data
RM	Replacement Item with Modifications Change of production description as specified in the PID segment
RQ	Reschedule/Quantity Change A date change (DTM02/SCH06) and a new quantity
RS	Reschedule A date change (DTM02/SCH06)

POC03	330	Quantity Ordered	O	R 1/15
		Quantity ordered Represents a new total item quantity		
POC04	671	Quantity Left to Receive	X	R 1/9
		Quantity left to receive as qualified by the unit of measure		
POC05	355	Unit or Basis for Measurement Code	M	ID 2/2 MUST USE
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Use any valid code for Data Element 355, as agreed between the trading partners. The most commonly used codes include:		
		DZ Dozen		
		EA Each		
		FT Foot		
		HR Hours		
		LB Pound		
		PR Pair		
POC06	212	Unit Price	X	R 1/17
		Price per unit of product, service, commodity, etc. The price and quantity must be expressed in the same unit of measure; i.e. that shown in POC03.		

POC07	639	Basis of Unit Price Code	O ID 2/2
		Code identifying the type of unit price for an item	
		If the price is firm, POC05 is not needed. The most commonly used codes include:	
		AP Advise Price	
		CA Catalog	
		CT Contract	
		ES Estimated	
		NC No Charge	
		QR Previous Quoted Price	
		QT Quoted	
POC08	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		BP Buyer's Part Number	
		EN European Article Number (EAN) (2-5-5-1)	
		GS General Specification Number	
		MF Manufacturer	
		MG Manufacturer's Part Number	
		PT Print or Drawing	
		SN Serial Number	
		UP U.P.C. Consumer Package Code (1-5-5-1)	
		VP Vendor's (Seller's) Part Number	
POC09	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
POC10	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Use any of the qualifiers used in POC08.	
POC11	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
POC12	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Use any of the qualifiers used in POC08.	
POC13	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
POC14	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Use any of the qualifiers used in POC08.	
POC15	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
POC16	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Use any of the qualifiers used in POC08.	
POC17	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	

POC18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers used in POC08.	X	ID 2/2
POC19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
POC20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers used in POC08.	X	ID 2/2
POC21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
POC22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers used in POC08.	X	ID 2/2
POC23	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
POC24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers used in POC08.	X	ID 2/2
POC25	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
POC26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers used in POC08.	X	ID 2/2
POC27	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **LIN** Item Identification
Position: 015
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 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.

Notes: Use this segment when the POC08 - POC27 pairs do not provide enough iterations to convey all of the available item identifiers.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20	
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	M ID 2/2	MUST USE
LIN03	234	Product/Service ID Identifying number for a product or service	M AN 1/48	MUST USE
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X ID 2/2	
LIN05	234	Product/Service ID Identifying number for a product or service	X AN 1/48	
LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X ID 2/2	
LIN07	234	Product/Service ID Identifying number for a product or service	X AN 1/48	

LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08..	X	ID 2/2
LIN13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) Use any of the qualifiers listed in POC08.	X	ID 2/2
LIN23	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2

		Use any of the qualifiers listed in POC08.		
LIN25	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN26	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Use any of the qualifiers listed in POC08.		
LIN27	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN28	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Use any of the qualifiers listed in POC08.		
LIN29	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		
LIN30	235	Product/Service ID Qualifier	X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		Use any of the qualifiers listed in POC08.		
LIN31	234	Product/Service ID	X	AN 1/48
		Identifying number for a product or service		

Segment: **PID** **Product/Item Description**
Position: 050
Loop: PID Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
 1 If PID04 is present, then PID03 is required.
 2 At least one of PID04 or PID05 is required.
 3 If PID07 is present, then PID03 is required.
 4 If PID08 is present, then PID04 is required.
 5 If PID09 is present, then PID05 is required.
Semantic Notes:
 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
PID01	349	Item Description Type Code indicating the format of a description F Free-form	M ID 1/1	MUST USE
PID05	352	Description A free-form description to clarify the related data elements and their content	C AN 1/80	

Segment: **PWK** Paperwork
Position: 070
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: 25
Purpose: To identify the type or transmission or both of paperwork or supporting information
Syntax Notes: 1 If either PWK05 or PWK06 is present, then the other is required.
Semantic Notes:
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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
PWK01	755	Report Type Code	M ID 2/2	MUST USE
		Code indicating the title or contents of a document, report or supporting item		
		CP Certificate of Compliance (Material Certification)		
		DW Drawing(s)		
		IT Certified Inspection and Test Results		
		MD Material Data Sheets		
		MS Material Safety Data Sheet		
		SP Specification		
		VD Data Request for Vendor's Specifications or Drawings.		
PWK02	756	Report Transmission Code	O ID 1/2	
		Code defining timing, transmission method or format by which reports are to be sent		
		BM By Mail		
		EL Electronically Only		
		EM E-Mail		
		FX By Fax		
		WS With Shipment (With Package)		
PWK03	757	Report Copies Needed	O NO 1/2	
		The number of copies of a report that should be sent to the addressee		

Segment: **REF** Reference Identification
Position: 100
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification C7 Contract Line Item Number CT Contract Number Use when the Blanket PO Number can change from item to item. EQ Equipment Number Buyer's machine reference or identifier Q1 Quote Number S3 Specification Number SE Serial Number SZ Specification Revision	M ID 2/3	MUST USE
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/30	
REF03	352	Description A free-form description to clarify the related data elements and their content	C AN 1/80	

Segment: **DTM** Date/Time Reference
Position: 200
Loop: POC Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
 1 At least one of DTM02 DTM03 or DTM05 is required.
 2 If DTM04 is present, then DTM03 is required.
 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: The SCH segment is used to specify the item delivery date at the line item level; the DTM segment is not used.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	MUST USE
		Code specifying type of date or time, or both date and time		
		150 Service Period Start		
		151 Service Period End		
		994 Quote		
		The date on which a (price) quote was rendered		
DTM02	373	Date	C DT 8/8	
		Date expressed as CCYYMMDD		

Segment: **SCH** Line Item Schedule
Position: 295
Loop: SCH Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the data for scheduling a specific line-item
Syntax Notes:
 1 If SCH03 is present, then SCH04 is required.
 2 If SCH08 is present, then at least one of SCH09 or SCH10 is required.
 3 If SCH09 is present, then SCH08 is required.
 4 If SCH10 is present, then SCH08 is required.
Semantic Notes:
 1 SCH12 is the schedule identification.
Comments:
 1 SCH05 specifies the interpretation to be used for SCH06 and SCH07.
Notes: Used to specify delivery dates at the line item level; the DTM segment at position 210 is not used.

Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes		User Attributes
			M	R	MUST USE
SCH01	380	Quantity Numeric value of quantity	M	R 1/15	MUST USE
SCH02	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Use any valid code for Data Element 355, as agreed between the trading partners. The most commonly used codes include: DZ Dozen EA Each FT Foot HR Hours LB Pound PR Pair	M	ID 2/2	MUST USE
SCH05	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 064 Do Not Deliver Before 074 Requested for Delivery (Prior to and Including) 106 Required By Deliver on or before this date 112 Buyers Dock Deliver on this date.	M	ID 3/3	MUST USE
SCH06	373	Date Date expressed as CCYYMMDD	M	DT 8/8	MUST USE
SCH08	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 075 Promised for Delivery (Prior to and Including)	X	ID 3/3	
SCH09	373	Date Date expressed as CCYYMMDD	X	DT 8/8	

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

Position: 305
Loop: SCH Optional
Level: Detail
Usage: Optional
Max Use: 12

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

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

Semantic Notes: 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement B Origin/Delivery Carrier (Any Mode)	O ID 1/2	
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	C ID 1/2	R
TD503	67	Identification Code Code identifying a party or other code	C AN 2/80	
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air D Parcel Post FL Motor (Flatbed) H Customer Pickup M Motor (Common Carrier) R Rail SR Supplier Truck T Best Way (Shippers Option) U Private Parcel Service	C ID 1/2	
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's Identity	C AN 1/35	Not Recommended

TD507 309 Location Qualifier O ID 1/2

Code identifying type of location

PA Port of Arrival
Port where shipment enters country

PE Port of Entry
Port where customs is declared

ADDDTD508

TD512 284 Service Level Code C ID 2/2

Code indicating the level of transportation service or the billing service offered by the transportation Carrier

ON Overnight
SD Saturday
SE Second Day
ST Standard Class

Segment: N9 Reference Identification

Position: 320

Loop: N9 Optional

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

- Syntax Notes:**
- 1 At least one of N902 or N903 is required.
 - 2 If N906 is present, then N905 is required.
 - 3 If either C04003 or C04004 is present, then the other is required.
 - 4 If either C04005 or C04006 is present, then the other is required.

- Semantic Notes:**
- 1 N906 reflects the time zone in which the time reflects.
 - 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: The N9/MSG loop provides a utility-specific document identification for a technical specification that relates to the product(s) being ordered, including any revision identification to the original technical document. A revision may include the date (and time) of the revision.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N901	128	Reference Identification Qualifier Code qualifying the Reference Identification C3 Customer specification number Represents a customer specification known by the supplier. SH Sender Defined Clause SU Special Processing Code Unique code identifying the special handling requirements for the claim Represents a special customer specification where additional information must be included in the MSG segment(s)	M ID 2/3	MUST USE
N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Specification / Attachment / Clause Number	X AN 1/30	
N903	369	Free-form Description Free-form descriptive text Revision Number	X AN 1/45	
N904	373	Date Date expressed as CCYYMMDD Revision Date	O DT 8/8	
N905	337	Time 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) Revision Time	X TM 4/8	

Segment: **MSG** Message Text
Position: 330
Loop: N9 Optional
Level: Detail
Usage: Optional
Max Use: 1000
Purpose: To provide a free-form format that allows the transmission of text information
Syntax Notes: 1 If MSG03 is present, then MSG02 is required.
Semantic Notes: 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
MSG01	933	Free-Form Message Text	M AN 1/264	MUST USE
		Free-form message text		
		Free-form text from 1 to 60 characters is recommended to facilitate on-line presentation of data. The MSG segment is used primarily in conjunctions with the "SU" qualifier in N901 for additional text information.		

Segment: **N1** Name
Position: 340
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: Many supplier order entry systems cannot handle multiple ship-to destinations on one purchase order. Prior to using this N1 loop, the originator should confirm that the recipient will be able to process multiple ship-to destinations.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To	M ID 2/3	MUST USE
N102	93	Name Free-form name	C AN 1/60	
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent	C ID 1/2	
N104	67	Identification Code Code identifying a party or other code	C AN 2/80	

Segment: **N2 Additional Name Information**
Position: 350
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: Many supplier order entry systems cannot handle multiple ship-to destinations on one purchase order. Prior to using this N1 loop, the originator should confirm that the recipient will be able to process multiple ship-to destinations.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N201	93	Name Free-form name	M AN 1/60	MUST USE
N202	93	Name Free-form name	O AN 1/60	

Segment: **N3** Address Information
Position: 360
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

Many supplier order entry systems cannot handle multiple ship-to destinations on one purchase order. Prior to using this N1 loop, the originator should confirm that the recipient will be able to process multiple ship-to destinations.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N301	166	Address Information Address information	M AN 1/55	MUST USE
N302	166	Address Information Address information	O AN 1/55	

Segment: **N4 Geographic Location**
Position: 370
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Many supplier order entry systems cannot handle multiple ship-to destinations on one purchase order. Prior to using this N1 loop, the originator should confirm that the recipient will be able to process multiple ship-to destinations.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
N401	19	City Name Free-form text for city name	C AN 2/30	
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2	
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15	
N404	26	Country Code Code identifying the country	O ID 2/3	

Segment: **CTT** Transaction Totals

Position: 010
Loop: CTT Optional
Level: Summary
Usage: Optional
Max Use: 1

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

- Syntax Notes:**
- 1 If either CTT03 or CTT04 is present, then the other is required.
 - 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
CTT01	354	Number of Line Items	M NO 1/6	MUST USE
		Total number of line items in the transaction set		
		Total number of POC segments.		

Segment: **AMT** Monetary Amount
Position: 020
Loop: CTT Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary				
<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
AMT01	522	Amount Qualifier Code Code to qualify amount	M ID 1/3	MUST USE
		TT Total Transaction Amount		
AMT02	782	Monetary Amount Monetary amount	M R 1/18	MUST USE

Segment: **SE** Transaction Set Trailer
Position: 030
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10	MUST USE
SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9	MUST USE