Electronic Data Interchange

Purchase Order
Implementation Guideline

Transaction Set 850
X12 Version 4010

ICS Interchange Control Structures

Introduction:

The purpose of this standard is to define the control structures for the electronic interchange of one or more encoded business transactions including the EDI (Electronic Data Interchange) encoded transactions of Accredited Standards Committee X12. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ISA	Interchange Control Header	M	1		
5	020	GS	Functional Group Header	M	1		
59	030	GE	Functional Group Trailer	M	1		
60	040	IEA	Interchange Control Trailer	M	1		

Segment:		**ISA** Interchange Control Header	
Position:		010	
Loop:			
Level:			
Usage:		Mandatory	
Max Use:		1	
Purpose:		To start and identify an interchange of zero or more functional groups and interchange-related control segments	
Syntax Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	I01	**Authorization Information Qualifier**	M ID 2/2
		Code to identify the type of information in the Authorization Information	
		00 **No Authorization Information Present (No Meaningful Information in I02)**	
ISA02	I02	**Authorization Information**	M AN 10/10
		Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	
ISA03	I03	**Security Information Qualifier**	M ID 2/2
		Code to identify the type of information in the Security Information	
		00 **No Security Information Present (No Meaningful Information in I04)**	
ISA04	I04	**Security Information**	M AN 10/10
		This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	
ISA05	I05	**Interchange ID Qualifier**	M ID 2/2
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
		ZZ **Mutually Defined**	
ISA06	I06	**Interchange Sender ID**	M AN 15/15
		Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	
		07253615T - TVA Test ID **07253615E - TVA Production ID**	
ISA07	I05	**Interchange ID Qualifier**	M ID 2/2
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	
		01 **Duns (Dun & Bradstreet)**	
		02 **SCAC (Standard Carrier Alpha Code)**	
		12 **Phone (Telephone Companies)**	
		ZZ **Mutually Defined**	

ISA08	**I07**	**Interchange Receiver ID**	**M**	**AN 15/15**

Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

Determined by Receiver

ISA09	**I08**	**Interchange Date**	**M**	**DT 6/6**

Date of the interchange

ISA10	**I09**	**Interchange Time**	**M**	**TM 4/4**

Time of the interchange

ISA11	**I10**	**Interchange Control Standards Identifier**	**M**	**ID 1/1**

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

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

ISA12	**I11**	**Interchange Control Version Number**	**M**	**ID 5/5**

This version number covers the interchange control segments

ISA13	**I12**	**Interchange Control Number**	**M**	**N0 9/9**

A control number assigned by the interchange sender

ISA14	**I13**	**Acknowledgment Requested**	**M**	**ID 1/1**

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

    0   **No Acknowledgment Requested**

ISA15	**I14**	**Test Indicator**	**M**	**ID 1/1**

Code to indicate whether data enclosed by this interchange envelope is test or production

    P   **Production Data**

    T   **Test Data**

ISA16	**I15**	**Component Element Separator**	**M**	**AN 1/1**

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

Mutually Defined

Segment:	**GS** Functional Group Header	
Position:	020	
Loop:		
Level:		
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of a functional group and to provide control information	

Syntax Notes:

Semantic Notes:

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

Comments:

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	**479**	**Functional Identifier Code**	**M ID 2/2**
		Code identifying a group of application related transaction sets	
		PO **Purchase Order (850)**	
GS02	**142**	**Application Sender's Code**	**M AN 2/15**
		Code identifying party sending transmission; codes agreed to by trading partners	
		07253615T - TVA Test ID	
		07253615E - TVA Production ID	
GS03	**124**	**Application Receiver's Code**	**M AN 2/15**
		Code identifying party receiving transmission; codes agreed to by trading partners	
GS04	**373**	**Date**	**M DT 8/8**
		Date (CCYYMMDD)	
GS05	**337**	**Time**	**M TM 4/8**
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
GS06	**28**	**Group Control Number**	**M N0 1/9**
		Assigned number originated and maintained by the sender	
GS07	**455**	**Responsible Agency Code**	**M ID 1/2**
		Code used in conjunction with Data Element 480 to identify the issuer of the standard	
		X **Accredited Standards Committee X12**	
GS08	**480**	**Version / Release / Industry Identifier Code**	**M AN 1/12**
		Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and	

GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

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

850 Purchase Order

Functional Group ID=PO

Introduction:

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

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
9	010	ST	Transaction Set Header	M	1		
10	020	BEG	Beginning Segment for Purchase Order	M	1		
11	060	PER	Administrative Communications Contact - Buyer Contact	O	1		
12	060	PER	Administrative Communications Contact - Vendor Contact	O	1		
13	080	FOB	F.O.B. Related Instructions	O	>1		
14	095	PAM	Period Amount - Contract Minimum	O	1		
15	095	PAM	Period Amount - Contract Maximum	O	1		
			LOOP ID - SAC			25	
16	120	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
18	130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1		
19	150	DTM	Date/Time Reference - Contract Effective Date	O	1		
20	150	DTM	Date/Time Reference - Contract Expiration Date	O	1		
21	240	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - N9			1000	
22	295	N9	Reference Identification	O	1		
23	300	MSG	Message Text	O	1000		
			LOOP ID - N1			1	
24	310	N1	Name - Vendor Name and Address	O	1		
25	320	N2	Additional Name Information	O	1		
26	330	N3	Address Information	O	1		
27	330	N3	Address Information	O	1		
28	340	N4	Geographic Location	O	>1		
			LOOP ID - N1			1	
29	310	N1	Name - Bill To Address	O	1		
30	320	N2	Additional Name Information	O	1		
31	330	N3	Address Information	O	1		
32	330	N3	Address Information	O	1		
33	340	N4	Geographic Location	O	>1		
			LOOP ID - N1			1	
34	310	N1	Name - Ship To Address	O	1		
35	320	N2	Additional Name Information	O	1		
36	330	N3	Address Information	O	1		

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
37	330	N3	Address Information	O	1		
38	340	N4	Geographic Location	O	>1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - PO1			100000	
39	010	PO1	Baseline Item Data	M	1		n1
41	015	LIN	Item Identification - Additional Manufacture Name, Part Number and Model Number	O	>1		
			LOOP ID - PID			1000	
42	050	PID	Product/Item Description	O	1		
43	289	MSG	Message Text - Line Item Comments	O	>1		
			LOOP ID - SCH			200	
44	295	SCH	Line Item Schedule	O	1		n2
45	297	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - N1			200	
47	350	N1	Name - Ship To	O	1		
48	360	N2	Additional Name Information	O	1		
49	370	N3	Address Information	O	1		
50	370	N3	Address Information	O	1		
51	380	N4	Geographic Location	O	1		
			LOOP ID - SLN			1000	
52	470	SLN	Subline Item Detail	O	1		
54	475	MSG	Message Text - Subline Item Comments	O	>1		
			LOOP ID - AMT			1	
55	600	AMT	Monetary Amount - Line Item Amount	O	1		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - CTT			1	
56	010	CTT	Transaction Totals	O	1		n3
57	020	AMT	Monetary Amount - Purchase Order Total Amount	O	1		n4
58	030	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. PO102 is required.
2. 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. 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.
4. If AMT is used in the summary area, then AMT01 will = TT and AMT02 will indicate total transaction amount as calculated by the sender.

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

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., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
			850 Purchase Order	
M	ST02	329	**Transaction Set Control Number**	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	

			Segment:	**BEG** Beginning Segment for Purchase Order

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

Syntax Notes:
Semantic Notes: 1 BEG05 is the date assigned by the purchaser to purchase order.
Comments:

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Data Element Summary

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	Ref. Des.	Data Element	Name	Attributes	
M	BEG01	353	**Transaction Set Purpose Code**	M	ID 2/2
			Code identifying purpose of transaction set		
			00 Original		
			06 Confirmation		
M	BEG02	92	**Purchase Order Type Code**	M	ID 2/2
			Code specifying the type of Purchase Order		
			BE Blanket Order/Estimated Quantities (Not firm Commitment)		
			BK Blanket Order (Quantity Firm)		
			RL Release or Delivery Order		
			An order for goods and services placed against a pre-existing contract or blanket order		
			SA Stand-alone Order		
			SS Supply or Service Order		
M	BEG03	324	**Purchase Order Number**	M	AN 1/8
			Identifying number for Purchase Order assigned by the orderer/purchaser		
	BEG04	328	**Release Number**	O	AN 1/5
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction		
M	BEG05	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
			Purchase Order Issue Date		

			Segment:	**PER** Administrative Communications Contact - Buyer Contact

Segment: **PER** Administrative Communications Contact - Buyer Contact
Position: 060
Loop:
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		Attributes
M	PER01	366	**Contact Function Code**	M	ID 2/2
			Code identifying the major duty or responsibility of the person or group named		
			BD Buyer Name or Department		
	PER02	93	**Name**	O	AN 1/60
			Free-form name		
	PER03	365	**Communication Number Qualifier**	X	ID 2/2
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	**Communication Number**	X	AN 1/80
			Complete communications number including country or area code when applicable		
	PER05	365	**Communication Number Qualifier**	X	ID 2/2
			Code identifying the type of communication number		
			FX Facsimile		
	PER06	364	**Communication Number**	X	AN 1/80
			Complete communications number including country or area code when applicable		

	Segment:	**PER** Administrative Communications Contact - Vendor Contact
	Position:	060
	Loop:	
	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	Attributes	
M	PER01	366	**Contact Function Code**	M	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named		
			SU Supplier Contact		
	PER02	93	**Name**	O	**AN 1/60**
			Free-form name		
	PER03	365	**Communication Number Qualifier**	X	**ID 2/2**
			Code identifying the type of communication number		
			TE Telephone		
	PER04	364	**Communication Number**	X	**AN 1/80**
			Complete communications number including country or area code when applicable		

	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

	Ref. Des.	Data Element	Name		Attributes
M	**FOB01**	**146**	**Shipment Method of Payment**	**M**	**ID 2/2**
			Code identifying payment terms for transportation charges		
			CC	Collect	
			DE	Per Contract	
				Destination with exceptions as agreed between buyer and seller	
			PC	Prepaid but Charged to Customer	
			PP	Prepaid (by Seller)	
	FOB02	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Code identifying type of location		
			DE	Destination (Shipping)	
			OR	Origin (Shipping Point)	
			ZZ	Mutually Defined	
	FOB03	**352**	**Description**	**O**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
	FOB06	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Code identifying type of location		
			OF	Other Unlisted Free On Board (FOB) Point	
				An FOB Point that cannot be predetermined	
	FOB07	**352**	**Description**	**O**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			FOB Point		

Segment:	**PAM** Period Amount - Contract Minimum	
Position:	095	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To indicate a quantity, and/or amount for an identified period	
Syntax Notes:	1	If any of PAM01 PAM02 or PAM03 is present, then all are required.
	2	At least one of PAM02 PAM05 or PAM14 is required.
	3	If either PAM04 or PAM05 is present, then the other is required.
	4	If either PAM06 or PAM07 is present, then the other is required.
	5	If PAM07 is present, then at least one of PAM08 or PAM09 is required.
	6	If PAM07 is present, then PAM06 is required.
	7	If PAM08 is present, then PAM07 is required.
	8	If PAM09 is present, then PAM07 is required.
	9	If PAM10 is present, then at least one of PAM11 or PAM12 is required.
	10	If PAM11 is present, then PAM10 is required.
	11	If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:	1	PAM10, PAM11, or PAM12 are used when two dates are required.
	2	PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
PAM04	**522**	**Amount Qualifier Code**	**X**	**ID 1/3**
		Code to qualify amount		
		KJ Minimum Contract Amount		
PAM05	**782**	**Monetary Amount**	**X**	**R 1/18**
		Monetary amount		
		Contract Minimum Amount		

Segment:	**PAM** Period Amount - Contract Maximum	
Position:	095	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To indicate a quantity, and/or amount for an identified period	

Syntax Notes:	1	If any of PAM01 PAM02 or PAM03 is present, then all are required.
	2	At least one of PAM02 PAM05 or PAM14 is required.
	3	If either PAM04 or PAM05 is present, then the other is required.
	4	If either PAM06 or PAM07 is present, then the other is required.
	5	If PAM07 is present, then at least one of PAM08 or PAM09 is required.
	6	If PAM07 is present, then PAM06 is required.
	7	If PAM08 is present, then PAM07 is required.
	8	If PAM09 is present, then PAM07 is required.
	9	If PAM10 is present, then at least one of PAM11 or PAM12 is required.
	10	If PAM11 is present, then PAM10 is required.
	11	If either PAM13 or PAM14 is present, then the other is required.
Semantic Notes:	1	PAM10, PAM11, or PAM12 are used when two dates are required.
	2	PAM15 indicates whether the monetary amount identified in PAM05 is a net or gross value. A "Y" indicates amount is a gross value; an "N" indicates amount is a net value.
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
PAM01	**673**	**Quantity Qualifier**	**X**	**ID 2/2**
		Code specifying the type of quantity		
		70 Maximum Order Quantity		
PAM02	**380**	**Quantity**	**X**	**R 1/15**
		Numeric value of quantity		
		Maximum Quantity Format: 999999999999.99		
PAM04	**522**	**Amount Qualifier Code**	**X**	**ID 1/3**
		Code to qualify amount		
		MA Maximum Amount		
PAM05	**782**	**Monetary Amount**	**X**	**R 1/18**
		Monetary amount		
		Contract Maximum Amount		

	Ref. Des.	Data Element	Name	Attributes	

Segment: **SAC** Service, Promotion, Allowance, or Charge Information
Position: 120
Loop: SAC   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax Notes:
1. At least one of SAC02 or SAC03 is required.
2. If either SAC03 or SAC04 is present, then the other is required.
3. If either SAC06 or SAC07 is present, then the other is required.
4. If either SAC09 or SAC10 is present, then the other is required.
5. If SAC11 is present, then SAC10 is required.
6. If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. If SAC14 is present, then SAC13 is required.
8. If SAC16 is present, then SAC15 is required.

Semantic Notes:
1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
   If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3. SAC08 is the allowance or charge rate per unit.
4. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
   SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
5. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7. SAC16 is used to identify the language being used in SAC15.

Comments:
1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SAC01	248	**Allowance or Charge Indicator**	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			C Charge		
	SAC03	559	**Agency Qualifier Code**	X	ID 2/2
			Code identifying the agency assigning the code values		
			AB Assigned by Buyer		
	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN 1/10
			Agency maintained code identifying the service, promotion, allowance, or charge		

TVA Subline Codes:

CONT   Contract Charges
COVR   Cover Charges
ENVI   Environmental Fee
EXPD   Expediting Charge
MISC   Miscellaneous
PAMW   Payment Amount Withheld
PDSC   Discount Amount Taken

		PFRT Payment Freight Amount PTAX Payment Tax Amount RDEP Reconciliation Deposit RWTH Reconciliation Withdrawal SCHG Special Charges SHDR Subline Header SRCD Origin Location For Freight		
SAC05	**610**	**Amount**	**O**	**N2 1/15**
		Monetary amount		
SAC08	**118**	**Rate**	**O**	**R 1/9**
		Rate expressed in the standard monetary denomination for the currency specified		
		Unit Price Format: 999.999999		
SAC09	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
SAC10	**380**	**Quantity**	**X**	**R 1/15**
		Numeric value of quantity		
		Format: 9999999999.99		
SAC15	**352**	**Description**	**X**	**AN 1/80**
		A free-form description to clarify the related data elements and their content		
		Subline Code Description		

Segment:	**ITD** Terms of Sale/Deferred Terms of Sale
Position:	130
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	>1
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

Ref. Des.	Data Element	Name		Attributes
ITD02	333	**Terms Basis Date Code**	O	ID 1/2
		Code identifying the beginning of the terms period		
		3 Invoice Date		
ITD03	338	**Terms Discount Percent**	O	R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date		
		Format: 999.99		
ITD05	351	**Terms Discount Days Due**	X	N0 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned		
ITD07	386	**Terms Net Days**	O	N0 1/3
		Number of days until total invoice amount is due (discount not applicable)		

Segment:		**DTM** Date/Time Reference - Contract Effective Date			
Position:		150			
Loop:					
Level:		Heading			
Usage:		Optional			
Max Use:		1			
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:					

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Data Element Summary

</div>

	Ref. Des.	Data Element	Name		Attributes
M	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			007 Effective		
	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		

Segment:		**DTM** Date/Time Reference - Contract Expiration Date			
Position:		150			
Loop:					
Level:		Heading			
Usage:		Optional			
Max Use:		1			
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. Des.	Data Element	Name		Attributes
M	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			036 Expiration		
			Date coverage expires		
	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		

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

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

Ref. Des.	Data Element	Name	Attributes
TD501	133	**Routing Sequence Code**	**O ID 1/2**
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin/Delivery Carrier (Any Mode)	
TD502	66	**Identification Code Qualifier**	**X ID 1/2**
		Code designating the system/method of code structure used for Identification Code (67)	
		2 Standard Carrier Alpha Code (SCAC)	
TD503	67	**Identification Code**	**X AN 2/80**
		Code identifying a party or other code	
		Carrier Name	
TD504	91	**Transportation Method/Type Code**	**X ID 1/2**
		Code specifying the method or type of transportation for the shipment	
		AE Air Express	
		B Barge	
		D Parcel Post	
		LT Less Than Trailer Load (LTL)	
		M Motor (Common Carrier)	
		PL Pipeline	
		R Rail	
		SR Supplier Truck	
		X Intermodal (Piggyback)	
		ZZ Mutually defined	
TD505	387	**Routing**	**X AN 1/35**
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
		Transportation Description	

	Segment:	**N9** Reference Identification
	Position:	295
	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:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N901	128	**Reference Identification Qualifier**	M ID 2/3
			Code qualifying the Reference Identification	
			K6 Purchase Description	
	N903	369	**Free-form Description**	X AN 1/45
			Free-form descriptive text	
			Comments	

Segment:		**MSG** Message Text		
Position:		300		
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

	Ref. Des.	Data Element	Name	Attributes
M	MSG01	933	**Free-Form Message Text**	M AN 1/264
			Free-form message text	
			PO Header Comments	

Segment:	**N1** Name - Vendor Name and Address				
Position:	310				
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

	Ref. Des.	Data Element	Name		Attributes
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			VN Vendor		
	N102	**93**	**Name**	**X**	**AN 1/60**
			Free-form name		
	N103	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
			TVA Vendor Code		

Segment: **N2** **Additional Name Information**
Position: 320
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N201	93	Name	M AN 1/60
			Free-form name	

Segment: # N3 Address Information

Position: 330
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	AN 1/55
			Address information		
	N302	166	**Address Information**	O	AN 1/55
			Address information		

Segment: # N3 Address Information
Position: 330
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N301	166	**Address Information**	M AN 1/55
			Address information	

Segment: **N4** Geographic Location
Position: 340
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

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

Segment:	**N1** Name - Bill To Address
Position:	310
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

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	Entity Identifier Code	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			BT Bill-to-Party		
	N102	93	Name	X	AN 1/60
			Free-form name		

Segment: # N2 Additional Name Information

Position: 320
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N201	93	**Name**	M	**AN 1/60**
			Free-form name		
	N202	93	**Name**	O	**AN 1/60**
			Free-form name		

Segment: **N3** Address Information
Position: 330
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	AN 1/55
			Address information		
	N302	166	**Address Information**	O	AN 1/55
			Address information		

Segment: **N3** Address Information
Position: 330
Loop: N1　　　Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
M	**N301**	**166**	**Address Information**	**M　AN 1/55**
			Address information	

Segment: # N4 Geographic Location

Position: 340
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

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

Segment: # N1 Name - Ship To Address
Position: 310
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

	Ref. Des.	Data Element	Name	Attributes	
M	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			ST Ship To		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			TVA Ship To Location Code		

	Segment:	**N2** Additional Name Information
	Position:	320
	Loop:	N1 Optional
	Level:	Heading
	Usage:	Optional
	Max Use:	1
	Purpose:	To specify additional names or those longer than 35 characters in length
	Syntax Notes:	
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	N201	93	Name	M AN 1/60
			Free-form name	
			Ship To Dock Name	
	N202	93	Name	O AN 1/60
			Free-form name	
			Ship To Attention	

Segment: **N3** **Address Information**
Position: 330
Loop: N1   Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	AN 1/55
			Address information		
	N302	166	**Address Information**	O	AN 1/55
			Address information		

Segment: **N3** **Address Information**
Position: 330
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N301	166	**Address Information**	M	AN 1/55
			Address information		

Segment: # N4 Geographic Location

Position: 340
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

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

Segment:	**PO1** Baseline Item Data	
Position:	010	
Loop:	PO1 Mandatory	
Level:	Detail	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify basic and most frequently used line item data	
Syntax Notes:	**1** If PO103 is present, then PO102 is required.	
	2 If PO105 is present, then PO104 is required.	
	3 If either PO106 or PO107 is present, then the other is required.	
	4 If either PO108 or PO109 is present, then the other is required.	
	5 If either PO110 or PO111 is present, then the other is required.	
	6 If either PO112 or PO113 is present, then the other is required.	
	7 If either PO114 or PO115 is present, then the other is required.	
	8 If either PO116 or PO117 is present, then the other is required.	
	9 If either PO118 or PO119 is present, then the other is required.	
	10 If either PO120 or PO121 is present, then the other is required.	
	11 If either PO122 or PO123 is present, then the other is required.	
	12 If either PO124 or PO125 is present, then the other is required.	
Semantic Notes:		
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.	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
PO101	350	**Assigned Identification**	**O AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set	
		Line Item Number	
PO102	330	**Quantity Ordered**	**X R 1/15**
		Quantity ordered	
		Format: 9999999999.99	
PO103	355	**Unit or Basis for Measurement Code**	**O ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
PO104	212	**Unit Price**	**X R 1/17**
		Price per unit of product, service, commodity, etc.	
		Format: 99999999999.999999	
PO106	235	**Product/Service ID Qualifier**	**X ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		IN Buyer's Item Number	
PO107	234	**Product/Service ID**	**X AN 1/48**
		Identifying number for a product or service	
		TVA Catalog Number	
PO108	235	**Product/Service ID Qualifier**	**X ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		MF Manufacturer	
PO109	234	**Product/Service ID**	**X AN 1/48**
		Identifying number for a product or service	
		Manufacture Name	

PO110	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

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

  MG   Manufacturer's Part Number

PO111	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

Manufacture Part Number

PO112	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

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

  MN   Model Number

PO113	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

Model Number

PO114	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

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

  ZZ   Mutually Defined

PO115	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

Unit Of Measure Description

Segment:		**LIN** Item Identification - Additional Manufacture Name, Part Number and Model Number	

Position: 015
Loop: PO1   Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify additional line 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.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	LIN01	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			Line Item Number		
M	**LIN02**	**235**	**Product/Service ID Qualifier**	**M**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			MF Manufacturer		
M	**LIN03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		
			Manufacture Name		
	LIN04	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			MG Manufacturer's Part Number		
	LIN05	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			Manufacture Part Number		
	LIN06	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			MN Model Number		
	LIN07	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
			Model Number		

			Segment:	**PID** Product/Item Description

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

	Ref. Des.	Data Element	Name	Attributes	
M	PID01	349	**Item Description Type**	M	ID 1/1
			Code indicating the format of a description		
			F Free-form		
	PID05	352	**Description**	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
			Line Item Description		

Segment:	**MSG** Message Text - Line Item Comments		
Position:	289		
Loop:	PO1	Mandatory	
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
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.	
Notes:			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	MSG01	933	**Free-Form Message Text**	M AN 1/264
			Free-form message text	
			Line Item Comments	

	Ref.	**Data**		
	Des.	**Element**	**Name**	**Attributes**

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.

Data Element Summary

	Ref. Des.	**Data Element**	**Name**		**Attributes**
M	SCH01	380	**Quantity**	M	R 1/15
			Numeric value of quantity		
			Schedule Delivery Quantity Format: 9999999999.99		
M	SCH02	355	**Unit or Basis for Measurement Code**	M	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		
M	SCH05	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			106 Required By		
M	SCH06	373	**Date**	M	DT 8/8
			Date expressed as CCYYMMDD		
			Schedule Delivery Required By Date		

Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)		
Position:	297		
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

Ref. Des.	Data Element	Name		Attributes
TD501	133	**Routing Sequence Code**		O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement		
		B	Origin/Delivery Carrier (Any Mode)	
TD502	66	**Identification Code Qualifier**		X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)		
		2	Standard Carrier Alpha Code (SCAC)	
TD503	67	**Identification Code**		X AN 2/80
		Code identifying a party or other code		
		Carrier Name		
TD504	91	**Transportation Method/Type Code**		X ID 1/2
		Code specifying the method or type of transportation for the shipment		
		AE	Air Express	
		B	Barge	
		D	Parcel Post	
		LT	Less Than Trailer Load (LTL)	
		M	Motor (Common Carrier)	
		PL	Pipeline	
		R	Rail	
		SR	Supplier Truck	
		X	Intermodal (Piggyback)	
		ZZ	Mutually defined	
TD505	387	**Routing**		X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity		
		Transportation Description		
TD507	309	**Location Qualifier**		O ID 1/2
		Code identifying type of location		
		DE	Destination (Shipping)	
		OR	Origin (Shipping Point)	
TD508	310	**Location Identifier**		X AN 1/30

Code which identifies a specific location

FOB Point

Segment:	**N1** Name - Ship To
Position:	350
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.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N101	98	**Entity Identifier Code**	M	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		
			ST Ship To		
	N102	93	**Name**	X	AN 1/60
			Free-form name		
			Ship To Name		
	N103	66	**Identification Code Qualifier**	X	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)		
			92 Assigned by Buyer or Buyer's Agent		
	N104	67	**Identification Code**	X	AN 2/80
			Code identifying a party or other code		
			TVA Facility Code		

			Segment:	**N2** Additional Name Information

Segment: **N2** Additional Name Information
Position: 360
Loop: N1   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N201**	**93**	**Name**	**M AN 1/60**
			Free-form name	
			Ship To Dock Name	
	N202	**93**	**Name**	**O AN 1/60**
			Free-form name	
			Ship To Attention	

			Segment:	**N3** Address Information

Segment: **N3** Address Information
Position: 370
Loop: N1   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	N301	166	**Address Information**	M	**AN 1/55**
			Address information		
	N302	166	**Address Information**	O	**AN 1/55**
			Address information		

Segment: **N3** **Address Information**
Position: 370
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	N301	166	**Address Information**	M	AN 1/55
			Address information		

Segment: **N4** Geographic Location
Position: 380
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.

Data Element Summary

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

				Segment:	**SLN** Subline Item Detail

Segment: **SLN** Subline Item Detail
Position: 470
Loop: SLN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
   1   If either SLN04 or SLN05 is present, then the other is required.
   2   If SLN07 is present, then SLN06 is required.
   3   If SLN08 is present, then SLN06 is required.
   4   If either SLN09 or SLN10 is present, then the other is required.
   5   If either SLN11 or SLN12 is present, then the other is required.
   6   If either SLN13 or SLN14 is present, then the other is required.
   7   If either SLN15 or SLN16 is present, then the other is required.
   8   If either SLN17 or SLN18 is present, then the other is required.
   9   If either SLN19 or SLN20 is present, then the other is required.
  10   If either SLN21 or SLN22 is present, then the other is required.
  11   If either SLN23 or SLN24 is present, then the other is required.
  12   If either SLN25 or SLN26 is present, then the other is required.
  13   If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:
   1   SLN01 is the identifying number for the subline item.
   2   SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
   3   SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
   4   SLN08 is a code indicating the relationship of the price or amount to the associated segment.
Comments:
   1   See the Data Element Dictionary for a complete list of IDs.
   2   SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
   3   SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	SLN01	350	**Assigned Identification**	M AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	
			Line Item Number	
	SLN02	350	**Assigned Identification**	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	

TVA Subline Codes:

CONT   Contract Charges
COVR   Cover Charges
ENVI   Environmental Fee
EXPD   Expediting Charge
MISC   Miscellaneous
PAMW Payment Amount Withheld
PDSC   Discount Amount Taken
PFRT   Payment Freight Amount
PTAX   Payment Tax Amount
RDEP   Reconciliation Deposit
RWTH Reconciliation Withdrawal
SCHG   Special Charges
SHDR   Subline Header
SRCD   Origin Location For Freight

M	SLN03	662	**Relationship Code**	M	**ID 1/1**

Code indicating the relationship between entities

    A   Add

	SLN04	380	**Quantity**	X	**R 1/15**

Numeric value of quantity

Subline Quantity
Format: 9999999999.99

	SLN05	C001	**Composite Unit of Measure**	X	

To identify a composite unit of measure (See Figures Appendix for examples of use)

Subline Unit of Measure

M	C00101	355	**Unit or Basis for Measurement Code**	M	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

	SLN06	212	**Unit Price**	X	**R 1/17**

Price per unit of product, service, commodity, etc.

Subline Unit Price
Format: 99999999999.999999

	SLN07	639	**Basis of Unit Price Code**	O	**ID 2/2**

Code identifying the type of unit price for an item

Refer to 004010 Data Element Dictionary for acceptable code values.

	SLN08	662	**Relationship Code**	O	**ID 1/1**

Code indicating the relationship between entities

Refer to 004010 Data Element Dictionary for acceptable code values.

	SLN09	235	**Product/Service ID Qualifier**	X	**ID 2/2**

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

    ZZ   Mutually Defined

	SLN10	234	**Product/Service ID**	X	**AN 1/48**

Identifying number for a product or service

Subline Code Description

Segment:	**MSG** Message Text - Subline Item Comments				
Position:	475				
Loop:	SLN	Optional			
Level:	Detail				
Usage:	Optional				
Max Use:	>1				
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.			
Notes:					

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**MSG01**	**933**	**Free-Form Message Text**		**M AN 1/264**
			Free-form message text		
			Subline Comments		

Segment:	**AMT** Monetary Amount - Line Item Amount			

Segment: **AMT** Monetary Amount - Line Item Amount
Position: 600
Loop: AMT   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	AMT01	522	**Amount Qualifier Code**	M	ID 1/3
			Code to qualify amount		
			1 Line Item Total		
M	AMT02	782	**Monetary Amount**	M	R 1/18
			Monetary amount		
			Line Item Amount		

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

	Ref. Des.	Data Element	Name	Attributes
M	CTT01	354	**Number of Line Items**	M N0 1/6
			Total number of line items in the transaction set	

Segment: # AMT Monetary Amount - Purchase Order Total 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

	Ref. Des.	Data Element	Name	Attributes	
M	AMT01	522	**Amount Qualifier Code**	**M**	**ID 1/3**
			Code to qualify amount		
			TT Total Transaction Amount		
M	AMT02	782	**Monetary Amount**	**M**	**R 1/18**
			Monetary amount		
			Total Contract Amount		

Segment:		**SE** Transaction Set Trailer			

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

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

Segment:GE Functional Group Trailer

Position:	030
Loop:	
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of a functional group and to provide control information
Syntax Notes:	
Semantic Notes:	1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.
Comments:	1 The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	**97**	**Number of Transaction Sets Included**	**M N0 1/6**
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
GE02	**28**	**Group Control Number**	**M N0 1/9**
		Assigned number originated and maintained by the sender	

Segment: **IEA** **Interchange Control Trailer**
Position: 040
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	**I16**	**Number of Included Functional Groups**	**M N0 1/5**
		A count of the number of functional groups included in an interchange	
IEA02	**I12**	**Interchange Control Number**	**M N0 9/9**
		A control number assigned by the interchange sender	