NIST Special Publication 881-10

Federal Implementation Guideline for Electronic Data Interchange

ASC X12 003040 Transaction Set 810 Invoice (Commercial Invoice)

Implementation Convention

NIST

U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Institute of
Standards and Technology

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Electronic Commerce Acquisition Program Management Office
Standard Management Committee - Secretariat
National Institute of Standards and Technology
Gaithersburg, MD 20899-0001

Reports on Information Technology

The National Institute of Standards and Technology (NIST)'s Information Technology Laboratory (ITL) develops standards and guidelines, provides technical assistance, and conducts research for computers and resources. As part of the overall federal effort to establish a single face to industry for conducting electronic commerce, ITL has been designated as the organization responsible for coordinating the development of Federal Implementation Conventions (ICs) for Electronic Data Interchange (EDI). ICs are defined by functional-area experts who create and select options from standard EDI Transaction Sets to yield the implementations to be used for practical EDI. These ICs are made available to federal agencies and industry by electronic means and this Special Publication Series.

810 Invoice

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) 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 billing for goods and services provided.

Notes:

1. Use this transaction set to transmit commercial invoices to a Federal Government activity responsible for initiating the payment.

2. Use a single occurrence of this transaction to invoice or provide adjustments for one or more deliveries or service performances, provided to the Federal Government on one or more shipments.

3. Use to transmit commercial invoice data only from one invoice preparing party to one invoice receiving party.

4. Use to send a replacement invoice when a previously submitted invoice is incorrect. When used, cite code 05 in BIG08.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	010	ST	Transaction Set Header	M	1		
	020	BIG	Beginning Segment for Invoice	M	1		
Not Used	030	NTE	Note/Special Instruction	F	100		
	040	CUR	Currency	O	1		
Not Used	050	REF	Reference Numbers	O	12		
Not Used	060	PER	Administrative Communications Contact	O	3		
			LOOP ID - N1			200	
	070	N1	Name	O	1		
	080	N2	Additional Name Information	O	2		
	090	N3	Address Information	O	2		
	100	N4	Geographic Location	O	1		
	110	REF	Reference Numbers	O	12		
	120	PER	Administrative Communications Contact	O	3		
	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5		
	140	DTM	Date/Time Reference	O	10		
	150	FOB	F.O.B. Related Instructions	O	1		
Not Used	160	PID	Product/Item Description	O	200		
Not Used	170	MEA	Measurements	O	40		
Not Used	180	PWK	Paperwork	O	25		
Not Used	190	PKG	Marking, Packaging, Loading	O	25		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Not Used	200	L7	Tariff Reference	O	1		
	210	AT	Financial Accounting	O	3		
Not Used	212	BAL	Balance Detail	O	2		n1
LOOP ID - LM						**10**	
Not Used	220	LM	Code Source Information	O	1		
Not Used	230	LQ	Industry Code	M	100		
LOOP ID - N9						**1**	
Not Used	240	N9	Reference Number	O	1		
Not Used	250	MSG	Message Text	M	10		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - IT1						**20**	
	010	IT1	Baseline Item Data (Invoice)	O	1		
Not Used	012	CRC	Conditions Indicator	O	1		
Not Used	015	QTY	Quantity	O	5		n2
Not Used	020	CUR	Currency	O	1		
Not Used	030	IT3	Additional Item Data	O	5		
	040	TXI	Tax Information	O	10		
Not Used	050	CTP	Pricing Information	O	25		
Not Used	059	MEA	Measurements	O	40		
LOOP ID - PID							
	060	PID	Product/Item Description	O	1		
Not Used	070	MEA	Measurements	O	10		
Not Used	080	PWK	Paperwork	O	25		
Not Used	090	PKG	Marking, Packaging, Loading	O	25		
Not Used	100	PO4	Item Physical Details	O	1		
	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2		
	120	REF	Reference Numbers	O	>1		
Not Used	130	PER	Administrative Communications Contact	O	5		
Not Used	140	SDQ	Destination Quantity	O	500		
	150	DTM	Date/Time Reference	O	10		
	160	CAD	Carrier Detail	O	>1		
Not Used	170	L7	Tariff Reference	O	>1		
Not Used	175	SR	Advertising Schedule Requested	O	1		
LOOP ID - SAC						**25**	
	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	190	TXI	Tax Information	O	10		
LOOP ID - SLN							
Not Used	200	SLN	Subline Item Detail	O	1		
Not Used	210	REF	Reference Numbers	O	>1		
Not Used	220	PID	Product/Item Description	O	1000		
Not Used	230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		

Not Used	235	TC2	Commodity	O	2	

LOOP ID - N1					200	
	240	N1	Name	O	1	
	250	N2	Additional Name Information	O	2	
	260	N3	Address Information	O	2	
	270	N4	Geographic Location	O	1	
Not Used	280	REF	Reference Numbers	O	12	
Not Used	290	PER	Administrative Communications Contact	O	3	

LOOP ID - LM					10	
Not Used	300	LM	Code Source Information	O	1	
Not Used	310	LQ	Industry Code	M	100	

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	010	TDS	Total Monetary Value Summary	M	1		
	020	TXI	Tax Information	O	10		
	030	CAD	Carrier Detail	O	1		

LOOP ID - SAC						25	
	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
	050	TXI	Tax Information	O	10		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Not Used	060	ISS	Invoice Shipment Summary	O	5		
	070	CTT	Transaction Totals	M	1		n3
	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The BAL segment is to be used only if the code in BIG07 indicates that the transaction is a ``Monthly Adjustment''or ``Special Handling Adjustment'' invoice.
2. The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.
3. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

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
Notes:	
Syntax Notes:	
Semantic Notes:	1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).
Comments:	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> ST01	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set. 810 X12.2 Invoice	M ID 3/3
>> 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 *Use to transmit a unique number assigned by the originator of the transaction set. This number may be system generated.*	M AN 4/9

Segment:	**BIG** Beginning Segment for Invoice	
Position:	020	
Loop:		
Level:	Heading	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.	
Notes:		
Syntax Notes:		
Semantic Notes:	1	BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
Comments:	1	BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
>> BIG01	245	**Invoice Date**	M	DT	6/6

Invoice Issue Date.

Use to identify the date the transaction set was created. In the context of a commercial invoice, this date will represent the date of the invoice.

>> BIG02	76	**Invoice Number**	M	AN	1/22

Identifying number assigned by issuer.

Use to uniquely identify the invoice transaction to an issuer. The invoice number may not be duplicated by an issuer in an original transaction (BIG08, code 00) within a 12 month period. Same number can be used if issuing an amended invoice (BIG08 is code 02, 03, or 04).

BIG03	323	**Purchase Order Date**	O	DT	6/6

Date assigned by the purchaser to Purchase Order.

When BIG05 is used, cite the date of the delivery order, call or release. When BIG05 is not used, cite the date of the procurement instrument in BIG04.

>> BIG04	324	**Purchase Order Number**	O	AN	1/22

Identifying number for Purchase Order assigned by the orderer/purchaser.

Use to identify the procurement instrument identification number (PIIN) other than an order against a basic procurement instrument, e.g.,delivery order, release, or call. For purchase orders, cite the order number. For delivery, cite the basic procurement instrument identification number (e.g.,the contract, grant, cooperative agreement, etc., number) and cite the delivery order or call number in BIG05.

BIG05	328	**Release Number**	O	AN	1/30

Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.
Use to identify a delivery or task order, call or release number, (e.g.,the Supplemental PIIN) against the basic procurement instrument cited in BIG04.

BIG06	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.
Use, as applicable, to identify a modification number to the instrument in BIG05. If BIG05 is blank, use the PIIN in BIG04.

>> BIG07	640	**Transaction Type Code**	O	ID	2/2

Code specifying the type of transaction.

CI	Consolidated Invoice
CN	Credit Invoice
CR	Credit Memo
DI	Debit Invoice
DR	Debit Memo

>> **BIG08** 353 **Transaction Set Purpose Code**   O   ID   2/2
Code identifying purpose of transaction set.

        00   Original

Use to indicate the initial submission of an original invoice.

        01   Cancellation

Use to indicate the cancellation of a previously submitted invoice.

        02   Add

Use to indicate an amended invoice that contains only additions to a previously transmitted invoice.

        03   Delete

Use to indicate an amended invoice that contains only deletions from a previously transmitted invoice.

        04   Change

Use to indicate an amended invoice that contains a combination of additions and deletions to a previously transmitted invoice. This code is also used to indicate data in a previously transmitted invoice has changed, e.g., the quantity invoiced and the total invoiced amount. In effect the old quantity and invoiced amount are deleted and the new quantity and invoiced amount are added.

        05   Replace

        07   Duplicate

Use to indicate a duplicate submission. Use only when informed that the original invoice was not received.

    BIG09 306 **Action Code**   O   ID   1/2
Code indicating type of action.

        F   Final

Use to indicate the final invoice. Leave blank for partial invoices.

X   **BIG10** 76 **Invoice Number**   O   AN   1/22
Identifying number assigned by issuer.

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
Notes:	Use this 1/CUR/040 segment to identify the currency in which payment will be made if in other than U.S. dollars.
Syntax Notes:	1 If CUR08 is present, then CUR07 is required.
	2 If CUR09 is present, then CUR07 is required.
	3 If CUR11 is present, then CUR10 is required.
	4 If CUR12 is present, then CUR10 is required.
	5 If CUR14 is present, then CUR13 is required.
	6 If CUR15 is present, then CUR13 is required.
	7 If CUR17 is present, then CUR16 is required.
	8 If CUR18 is present, then CUR16 is required.
	9 If CUR20 is present, then CUR19 is required.
	10 If CUR21 is present, then CUR19 is required.
Semantic Notes:	
Comments:	1 See Figures Appendix for examples detailing the use of the CUR segment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	CUR01	98	Entity Identifier Code	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

    BY   Buying Party (Purchaser)

Use to indicate that the purchasing office (e.g., in the contract or order), authorized payment in the currency cited in CUR02.

    PR   Payer

Use to indicate that the paying office authorized payment in the currency cited in CUR02.

	Ref. Des.	Data Element	Name	Attributes
>>	CUR02	100	Currency Code	M ID 3/3

Code (Standard ISO) for country in whose currency the charges are specified.

Use the appropriate code to specify the currency that will be used to make payment.

	Ref. Des.	Data Element	Name	Attributes
X	CUR03	280	Exchange Rate	O R 4/6

Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.

	Ref. Des.	Data Element	Name	Attributes
X	CUR04	98	Entity Identifier Code	O ID 2/2

Code identifying an organizational entity, a physical location, or an individual

	Ref. Des.	Data Element	Name	Attributes
X	CUR05	100	Currency Code	O ID 3/3

Code (Standard ISO) for country in whose currency the charges are specified.

	Ref. Des.	Data Element	Name	Attributes
X	CUR06	669	Currency Market/Exchange Code	O ID 3/3

Code identifying the market upon which the currency exchange rate is based.

	Ref. Des.	Data Element	Name	Attributes
X	CUR07	374	Date/Time Qualifier	X ID 3/3

			Code specifying type of date or time, or both date and time.			
X	CUR08	373	**Date** Date (YYMMDD).	O	DT	6/6
X	CUR09	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)	O	TM	4/8
X	CUR10	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	X	ID	3/3
X	CUR11	373	**Date** Date (YYMMDD).	O	DT	6/6
X	CUR12	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)	O	TM	4/8
X	CUR13	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	X	ID	3/3
X	CUR14	373	**Date** Date (YYMMDD).	O	DT	6/6
X	CUR15	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)	O	TM	4/8
X	CUR16	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	X	ID	3/3
X	CUR17	373	**Date** Date (YYMMDD).	O	DT	6/6
X	CUR18	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)	O	TM	4/8
X	CUR19	374	**Date/Time Qualifier** Code specifying type of date or time, or both date and time.	X	ID	3/3
X	CUR20	373	**Date** Date (YYMMDD).	O	DT	6/6
X	CUR21	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)	O	TM	4/8

Segment:	**N1** Name
Position:	070
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name and code
Notes:	1. Whenever possible, address information should be transmitted using code values contained in a combination of the N101 and N103/4 data elements. Use N102 and N2-N4 segments only when it is necessary to transmit the full address. For example, if a vendor can be identified by a DUNs number, it is not necessary to transmit the vendor's full address since the relationship between the DUNs number and the vendor's address can be established by accessing a data base in which the information is stored, having been put there at the time the vendor electronically registered as a federal government trading partner.

2. At least 2 iterations of this 1/N1/070 loop are required using codes PE and PO.

3. Use to identify a ship-to-addressee when the invoice contains multiple line items and the address is applicable to all line items. Use the 2/N1/240 loop when the invoice or the ship-to address varies among the line items.

4. Use the 1/N1/070 loop to identify organizations or people that apply to all of the line items, or are not applicable at the line item level. When the addresses vary by line item, use the 2/N1/240 loop.

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
>>	N101	98	Entity Identifier Code	M ID 2/2

Code identifying an organizational entity, a physical location, or an individual

MQ	Metering Location
	Use to indicate the location of the meter applicable to the invoice.
PE	Payee
	Use to indicate the party submitting the invoice.
PO	Party to Receive Invoice for Goods or Services
	Use to indicate where the invoice should be mailed.
RI	Remit To
	Use to indicate a specific remit-to address when multiple remit-to addresses were provided as a part of the trading partner registration process. Do not use when only a single remit-to address was provided as a

part of the registration process.

		ST	Ship To			

Use to indicate the ship-to address when the invoice contains multiple line items and the address is the same for all. When the invoice varies by line item, use the 2/N1/240 loop.

SV	Service Performance Site

When services are contracted for, this describes the organization for whom or location address at which those services will be performed

Use to indicate a location where a service, (e.g., data entry) was performed.

	N102	93	**Name**	X	AN	1/35

Free-form name.

Use only when N101 is either code ST or code SV to provide a text name. Do not use when the ship-to address can be identified by a code in N103/04.

>>	N103	66	**Identification Code Qualifier**	X	ID	1/2

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

	1	D-U-N-S Number, Dun & Bradstreet

Use in all transmissions to identify the DUNS number of the invoicing party and Federal Facility.

10	Department of Defense Activity Address Code (DODAAC)

Use to indicate either a Department of Defense Activity Address Code or a Civilian Agency Activity Address Code.

33	Commercial and Government Entity (CAGE)

Use to indicate vendors with CAGE codes.

A2	Military Assistance Program Address Code (MAPAC)

Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity

Use to indicate a MAPAC address.

FA	Facility Identification

Use to indicate a vendor facility that cannot be identified by either a CAGE code or a DUNs number.

>>	N104	67	**Identification Code**	X	AN	2/17

Code identifying a party or other code.

X	N105	706	**Entity Relationship Code**	O	ID	2/2

Code describing entity relationship.

X	N106	98	**Entity Identifier Code**	O	ID	2/2

Code identifying an organizational entity, a physical location, or an individual

Segment:	**N2** Additional Name Information
Position:	080
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.
	2. Use, as needed, only when N101 is code ST or SV and that party cannot be identified by coded means.
Syntax Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	N201	93	Name	M	AN	1/35
			Free-form name.			
	N202	93	Name	O	AN	1/35
			Free-form name.			

Use only when N101 is either code ST or code SV to provide a text name. Do not use when the ship-to address can be identified by a code in N103/04

Segment:	**N3** Address Information	
Position:	090	
Loop:	N1	
Level:	Heading	
Usage:	Optional	
Max Use:	2	
Purpose:	To specify the location of the named party	
Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.	
	2. Use, as needed, only when N101 is code ST or SV and that party cannot be identified by coded means.	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	N301	166	**Address Information** Address information	M	AN	1/35
	N302	166	**Address Information** Address information	O	AN	1/35

Segment:	**N4** Geographic Location
Position:	100
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	1
Purpose:	To specify the geographic place of the named party
Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.

2. Use, as needed, only when N101 is code ST or SV and that party cannot be identified by coded means.

3. When identifying a APO/FPO, N401 carries the APO/FPO city name and N403 carries the ZIP code of the city.

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 USA 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	3/9
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States).			
	N404	26	**Country Code**	O	ID	2/3
			Code identifying the country.			
			A conversion table may be required to convert agency codes to ASC X12 codes.			
X	N405	309	**Location Qualifier**	X	ID	1/2
			Code identifying type of location.			
X	N406	310	**Location Identifier**	O	AN	1/30
			Code which identifies a specific location.			

Segment:	**REF** Reference Numbers
Position:	110
Loop:	N1
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify identifying numbers.
Notes:	This 1/REF/110 segment can be used to identify numbers that apply to either the cited party or all of the line items. When the reference number does not apply to a cited party, or varies by line item, use the 2/REF/120 segment.
Syntax Notes:	1 At least one of REF02 or REF03 is required.
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	REF01	128	Reference Number Qualifier	M ID 2/2

Code qualifying the Reference Number.

1. Use, as applicable, to identify the shipment number, replacement shipment number and final shipment indicator.

2. Use, as applicable, to identify reference numbers such as the shipment number, customer reference number, etc., applicable to the cited party.

45	Old Account Number
	Identifies accounts being changed
	Use only when applicable, and only when agreed to by the trading partners.
46	Old Meter Number
	Identifies meters being removed
	Use only as applicable, and only when agreed to by the trading partners.
55	Sequence Number
	Use to indicate the suffix letter associated with a replacement shipment (i.e., when transmitting the letter A to indicate the first replacement shipment). (Applicable to DoD invoice only.)
AA	Accounts Receivable Statement Number
BL	Government Bill of Lading
CR	Customer Reference Number
	Use to indicate a customer's internal reference number.
FS	Final Sequence Number
	Use to indicate the suffix letter associated with a final shipment number. (i.e., when transmitting the letter Z to indicate a final shipment(. (Applicable to DoD invoice only.)
MG	Meter Number

OI	Original Invoice Number
PQ	Payee Identification
RB	Rate code number
SE	Serial Number
SI	Shipper's Identifying Number for Shipment (SID)

A unique number (to the shipper) assigned by the shipper to identify the shipment
Use to identify the shipment number.

>> **REF02** 127 **Reference Number** X AN 1/30
Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

X **REF03** 352 **Description** X AN 1/80
A free-form description to clarify the related data elements and their content.

Segment:	**PER** Administrative Communications Contact	
Position:	120	
Loop:	N1	
Level:	Heading	
Usage:	Optional	
Max Use:	3	
Purpose:	To identify a person or office to whom administrative communications should be directed	
Notes:		
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.
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	PER01	366	**Contact Function Code**	**M**	**ID**	**2/2**

Code identifying the major duty or responsibility of the person or group named.

AF	Authorized Financial Contact

Use to indicate the communication number to be contacted with questions arising from the submission of this invoice. Use only when the contact differs from one provided as a part of the registration process.

	Ref. Des.	Data Element	Name	Attributes		
X	PER02	93	**Name**	**O**	**AN**	**1/35**

Free-form name.

	Ref. Des.	Data Element	Name	Attributes		
	PER03	365	**Communication Number Qualifier**	**X**	**ID**	**2/2**

Code identifying the type of communication number.

EM	Electronic Mail
EX	Telephone Extension
FX	Facsimile
IT	International Telephone
TE	Telephone

	Ref. Des.	Data Element	Name	Attributes		
	PER04	364	**Communication Number**	**X**	**AN**	**1/80**

Complete communications number including country or area code when applicable.

	Ref. Des.	Data Element	Name	Attributes		
	PER05	365	**Communication Number Qualifier**	**X**	**ID**	**2/2**

Code identifying the type of communication number.

EM	Electronic Mail
EX	Telephone Extension
FX	Facsimile
IT	International Telephone
TE	Telephone

	Ref. Des.	Data Element	Name	Attributes		
	PER06	364	**Communication Number**	**X**	**AN**	**1/80**

Complete communications number including country or area code when applicable.

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.
Notes:	1. Use this 1/ITD/130 segment when the discount terms apply to all of the line items. If the discount terms vary by line item, use the 2/ITD/110 segment.
	2. Payment method was provided at time of registration. Changes to that data must be made by submitting a registration data change using the 838 transaction set.
	3. Use only when a discount is applicable. Do not transmit this segment when a discount is not applicable.
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		
	ITD01	336	Terms Type Code	O	ID	2/2
			Code identifying type of payment terms.			
			21 Fast Pay			
			Code indicating that an invoice is subject to accelerated payment			
			Use to indicate FAST PAY procedures are applicable only when that procedure has been authorized in the contract or order for which this invoice is being submitted.			
	ITD02	333	Terms Basis Date Code	O	ID	1/2
			Code identifying the beginning of the terms period.			
			Use the same code as the one indicated in ITD02 of the Contract Solicitation Response (843 transaction set). Use of this segment shall not override the terms and conditions of the contract, order, or Prompt Payment Act.			
			Refer to 003040 Data Element Dictionary for acceptable code values.			
	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.			
			The amount shown is in percent, e.g., two and a half percent should be shown as 2.5 (two point five). Do not write the percent as .025.			
X	ITD04	370	Terms Discount Due Date	X	DT	6/6
			Date payment is due if discount is to be earned.			
	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.			
X	ITD06	446	**Terms Net Due Date** Date when total invoice amount becomes due.	O	DT	6/6
	ITD07	386	**Terms Net Days** Number of days until total invoice amount is due (discount not applicable).	O	N0	1/3
	ITD08	362	**Terms Discount Amount** Total amount of terms discount. *Use, if needed, to prevent differences that can result from rounding off methods.*	O	N2	1/10
X	ITD09	388	**Terms Deferred Due Date** Date deferred payment or percent of invoice payable is due.	O	DT	6/6
X	ITD10	389	**Deferred Amount Due** Deferred amount due for payment.	X	N2	1/10
X	ITD11	342	**Percent of Invoice Payable** Amount of invoice payable expressed in percent.	X	R	1/5
X	ITD12	352	**Description** A free-form description to clarify the related data elements and their content.	O	AN	1/80
X	ITD13	765	**Day of Month** The numeric value of the day of the month between 1 and the maximum day of the month being referenced.	X	N0	1/2
X	ITD14	107	**Payment Method Code** Code identifying type of payment procedures.	O	ID	1/1
X	ITD15	954	**Percent** Percentage expressed as a decimal	O	R	1/10

Segment:	**DTM** Date/Time Reference	
Position:	140	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify pertinent dates and times	
Notes:	1. Use this 1/DTM/140 segment to specify dates if they apply to all of the line items in the invoice. When the dates vary by line item, use the 2/DTM/150 segment.	
	2. Use two iterations of the segment when a range of dates (expressed as period start - period end, is required).	
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.	
	2 If either DTM06 or DTM07 is present, then the other is required.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	DTM01	374	Date/Time Qualifier	M ID 3/3

Code specifying type of date or time, or both date and time.

011	Shipped
035	Delivered
135	Booking

Use to indicate a billing revenue period. When used, cited the last day of the period.

150	Service Period Start

Use to indicate the performance commencement date for a line item that is ordering a service.

151	Service Period End

Use to indicate the performance completion date for a line item that is ordering a service.

186	Invoice Period Start

When the billing period covered by an invoice begins

187	Invoice Period End

When the billing period covered by an invoice ends

266	Base

The start of base date for a calendar reference - all dates fall after it
Use to indicate a billing demand month. When used, cite the last day of the applicable month.

	Ref. Des.	Data Element	Name	Attributes
	DTM02	373	Date	X DT 6/6

Date (YYMMDD).

	Ref. Des.	Data Element	Name	Attributes
X	DTM03	337	Time	X 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)

| X | DTM04 | 623 | **Time Code** | | O | ID | 2/2 |

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.

| X | DTM05 | 624 | **Century** | | O | N0 | 2/2 |

The first two characters in the designation of the year (CCYY).

| X | DTM06 | 1250 | **Date Time Period Format Qualifier** | X | ID | 2/3 |

Code indicating the date format, time format, or date and time format.

| X | DTM07 | 1251 | **Date Time Period** | X | AN | 1/35 |

Expression of a date, a time, or range of dates, times or dates and times.

Segment:	**FOB** F.O.B. Related Instructions	
Position:	150	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify transportation instructions relating to shipment	
Notes:	This segment is not necessary when the order is for service.	
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		
>>	FOB01	146	Shipment Method of Payment	M	ID	2/2

Code identifying payment terms for transportation charges.

BP   Paid by Buyer

The buyer agrees to the transportation payment term requiring the buyer to pay transportation charges to a specified location (origin or destination location)
Use to indicate that the FOB point is origin.

PE   Prepaid and Summary Bill

Use to indicate that the contract or order authorizes the selling party to prepay and add transportation charges to the invoice.

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 to indicate that the FOB point is destination.

	Ref. Des.	Data Element	Name	Attributes		
X	FOB02	309	Location Qualifier	X	ID	1/2

Code identifying type of location.

X	FOB03	352	Description	O	AN	1/80

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

X	FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2

Code identifying the source of the transportation terms.

X	FOB05	335	Transportation Terms Code	X	ID	3/3

Code identifying the trade terms which apply to the shipment transportation responsibility.

X	FOB06	309	Location Qualifier	X	ID	1/2

Code identifying type of location.

X	FOB07	352	Description	O	AN	1/80

			A free-form description to clarify the related data elements and their content.			
X	FOB08	54	**Risk of Loss Qualifier**	O	ID	2/2
			Code specifying where responsibility for risk of loss passes.			
X	FOB09	352	**Description**	X	AN	1/80
			A free-form description to clarify the related data elements and their content.			

Segment:	**AT** Financial Accounting	
Position:	210	
Loop:		
Level:	Heading	
Usage:	Optional	
Max Use:	3	
Purpose:	To transmit financial accounting data	
Notes:	1. Use this 1/AT/210 segment to identify the appropriation reimbursed and disbursed when the cited appropriation data applies to all line items. When the appropriation data varies by line item use the 2/REF/120 segment.	
	2. Only use when the purchase order has appropriation data in the 1/REF/050 segment, code AT.	
Syntax Notes:		
Semantic Notes:		
Comments:	1 AT09 identifies unique local activity financial accounting information	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
X	AT01	1281	**Fund Code**	O	ID	2/2
			Code identifying a specific appropriation or fund account to be charged or credited			
X	AT02	1282	**Treasury Symbol Number**	O	AN	7/21
			Number identifying a department, fiscal year, and appropriation limit for a standard accounting classification coding structure			
X	AT03	1283	**Budget Activity Number**	O	AN	1/16
			Number identifying an administrative subdivision of funds against which a transaction is to be charged for a standard accounting classification coding structure			
X	AT04	1284	**Object Class Number**	O	AN	3/12
			Number identifying the nature of the goods or services acquired and a specific office or organization using resources for a standard accounting classification coding structure			
X	AT05	1285	**Reimbursable Source Number**	O	AN	1/3
			Number identifying the source of an appropriation or fund reimbursement for a standard accounting classification coding structure			
X	AT06	1286	**Transaction Reference Number**	O	AN	4/20
			Number identifying an original request for goods and services to the matching financial transaction for a standard accounting classification coding structure			
X	AT07	1287	**Accountable Station Number**	O	AN	3/8
			Number identifying an office responsible for entering a financial transaction into the applicable accounting system for a standard accounting classification coding structure			
X	AT08	1288	**Paying Station Number**	O	AN	8/14
			Number identifying an office responsible for making a payment or collection and the corresponding voucher number under which the action was taken for a standard accounting classification coding structure			
>>	AT09	352	**Description**	O	AN	1/80
			A free-form description to clarify the related data elements and their content.			

Segment:	**IT1** Baseline Item Data (Invoice)
Position:	010
Loop:	IT1
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the basic and most frequently used line item data for the invoice and related transactions.
Notes:	1. Use multiple iterations of this 2/IT1/010 loop to provide invoice data for a specific line item. Allowances or charges identifiable to a line item will be included in that line's 2/SAC/180 loop. Invoice level of allowances or charges, that is, allowances or charges not identifiable to a specific item or line of billing, will be included in the 3/SAC/040 loop.
	2. Use as many 235/234 pairs as necessary to describe the item being invoiced.
	3. When billing for metered services, on accounts with more that one meter, each meter charge should be detailed in a separate iteration of the IT1 loop.
Syntax Notes:	1 If IT106 is present, then IT107 is required.
	2 If IT108 is present, then IT109 is required.
	3 If IT110 is present, then IT111 is required.
	4 If IT112 is present, then IT113 is required.
	5 If IT114 is present, then IT115 is required.
	6 If IT116 is present, then IT117 is required.
	7 If IT118 is present, then IT119 is required.
	8 If IT120 is present, then IT121 is required.
	9 If IT122 is present, then IT123 is required.
	10 If IT124 is present, then IT125 is required.
Semantic Notes:	1 IT101 is the purchase order line item identification.
Comments:	1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
	2 IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT101	350	**Assigned Identification**	O AN 1/11
		Alphanumeric characters assigned for differentiation within a transaction set.	
		Use to identify the CLIN, SUBCLIN, or ELIN or other number identifying the line item.	
>> IT102	358	**Quantity Invoiced**	M R 1/10
		Number of units invoiced (supplier units).	
		When billing for metered services, the quantity invoiced is the number of units of meter usage. (e.g., 1,000 kilowatts).	
>> IT103	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	
		1. Use to identify the unit of issue for the quantity listed in IT102.	
		2. While any appropriate code. may be used, code SX is preferred	

SX Shipment
Use this code when IT101 is a line item for prepaid transportation charges.
Use the 2/SAC/180 segment when not prepaid and add.

3. A conversion table may be required to convert agency codes to codes use by
ASC X12.

Refer to 003040 Data Element Dictionary for acceptable code values.

>>	**IT104**	212	**Unit Price**	M	R	1/14

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

Cite the contract or order unit price. In those cases where the line item was
purchased without charge, cite the number "0". Use a decimal point to indicate
amounts that are not in whole dollars.

X	**IT105**	639	**Basis of Unit Price Code**	O	ID	2/2

Code identifying the type of unit price for an item.

>>	**IT106**	235	**Product/Service ID Qualifier**	O	ID	2/2

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

1. Use only codes that were contained in the contract or order. For example,
if the item being invoiced was ordered by its National Stock Number, (code FS),
use code FS followed by the National Stock Number of the item. Descriptions
should be kept to a minimum essential to identify the item for payment
purposes. While any code may be used, the following codes are preferred:

A8 Exhibit Line Item Number
AK Refined Product Code
CG Commodity Grouping
Use to indicate a commodity code

CL Color
CN Commodity Name
FS National Stock Number
The NSN shall be transmitted as a continuous set of numbers, and without
dashes

FT Federal Supply Classification
See Code Source 27 in the ASC X12 standards for the FSC codes

KA Engineering Data List
KB Data Category Code
LT Lot Number
MF Manufacturer
Use to indicate the manufacturer of the cited line item

MG Manufacturer's Part Number
Use, as applicable, to indicate the manufacturer's part number assigned to the
invoiced item

MM Motor Equipment Manufacturing Association (MEMA) Product Type
Code
MN Model Number
N1 National Drug Code in 4-4-2 Format

N2 National Drug Code in 5-3-2 Format
N3 National Drug Code in 5-4-1 Format
N4 National Drug Code in 5-4-2 Format
ND National Drug Code (NDC)
PD Part Number Description
Use to indicate a clear text description of an item

PU Part Reference Number
RC Returnable Container No.
SN Serial Number
SV Service Render
Use to indicate a clear text description of a service being invoiced

SW Stock Number
Use to indicate a local stock number

SZ Vendor Alphanumeric Size Code (NRMA)
UK U.P.C./EAN Shipping Code Container Code (1-2-5-5-1)
VP Vendor'r (Selller's) Part Number
ZB Commercial and Government Entity (CAGE) Code

2. IT106 through IT125 are used in pairs. For Example, IT106 will contain a qualifier code and IT107 will contain information related to the qualifying code. So, if IT106 is code FS then IT107 would carry the National Stock Number.

Refer to 003040 Data Element Dictionary for acceptable code values.

IT107	234	**Product/Service ID**	X	AN	1/30

Identifying number for a product or service.

IT108	235	**Product/Service ID Qualifier**	O	ID	2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

IT109	234	**Product/Service ID**	X	AN	1/30

Identifying number for a product or service.

IT110	235	**Product/Service ID Qualifier**	O	ID	2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

IT111	234	**Product/Service ID**	X	AN	1/30

Identifying number for a product or service.

IT112	235	**Product/Service ID Qualifier**	O	ID	2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

IT113	234	**Product/Service ID**	X	AN	1/30

Identifying number for a product or service.

IT114	235	**Product/Service ID Qualifier**	O	ID	2/2

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

Refer to 003040 Data Element Dictionary for acceptable code values.

| IT115 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

| IT116 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

| IT117 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

| IT118 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

| IT119 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

| IT120 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

| IT121 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

| IT122 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

| IT123 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

| IT124 | 235 | **Product/Service ID Qualifier** | O | ID | 2/2 |

Code identifying the type/source of the descriptive number used in Product/Service ID (234).
Refer to 003040 Data Element Dictionary for acceptable code values.

| IT125 | 234 | **Product/Service ID** | X | AN | 1/30 |

Identifying number for a product or service.

Segment:	**TXI** Tax Information	
Position:	040	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify tax information.	
Notes:	Use this 2/TXI/040 segment only if taxes apply to a line item.	
Syntax Notes:	1	At least one of TXI02 TXI03 or TXI06 is required.
	2	If either TXI04 or TXI05 is present, then the other is required.
	3	If TXI08 is present, then TXI03 is required.
Semantic Notes:		
Comments:	1	TXI02 is the monetary amount of the tax.
	2	TXI03 is the tax percent expressed as a decimal.
	3	If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	TXI01	963	**Tax Type Code** Code specifying the type of tax. *Use any code. The following codes are preferred:* *CA City Tax* *F1 FICA Tax* *FD Federal Tax* *FT Federal Excise Tax* *GR Gross Receipts Tax* *LS State and Local Sales Tax* Refer to 003040 Data Element Dictionary for acceptable code values.	M	ID	2/2
	TXI02	782	**Monetary Amount** Monetary amount.	X	R	1/15
X	TXI03	954	**Percent** Percentage expressed as a decimal	X	R	1/10
X	TXI04	955	**Tax Jurisdiction Code Qualifier** Code identifying the source of the data used in tax jurisdiction code.	X	ID	2/2
X	TXI05	956	**Tax Jurisdiction Code** Code identifying the taxing jurisdiction.	X	AN	1/10
X	TXI06	441	**Tax Exempt Code** Code identifying exemption status from sales and use tax.	X	ID	1/1
X	TXI07	662	**Relationship Code** Code indicating the relationship of the price or amount to the associated segment.	O	ID	1/1
X	TXI08	828	**Dollar Basis For Percent** Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9
X	TXI09	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.	O	AN	1/20

Segment:	**PID** Product/Item Description
Position:	060
Loop:	PID
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To describe a product or process in coded or free-form format
Notes:	The use of this segment is discouraged. Use only for a clear text description when the product/service identification in 235/234 pairs in the IT1 segment is in sufficient to describe the item or service being invoiced. Do not use when codes in IT106/107 can be used to describe the item or service being invoiced.

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 PID03 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. A ``N" indicates it does not apply. Any other value is indeterminate.

Comments:
1 If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``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		
>>	PID01	349	**Item Description Type** Code indicating the format of a description.	M	ID	1/1
			F Free-form			
X	PID02	750	**Product/Process Characteristic Code** Code identifying the general class of a product or process characteristic	O	ID	2/3
X	PID03	559	**Agency Qualifier Code** Code identifying the agency assigning the code values.	X	ID	2/2
X	PID04	751	**Product Description Code** A code from an industry code list which provides specific data about a product characteristic.	X	AN	1/12
	PID05	352	**Description** A free-form description to clarify the related data elements and their content. *Use to identify the item description or job description.*	X	AN	1/80
X	PID06	752	**Surface/Layer/Position Code** Code indicating the product surface, layer or position that is being described.	O	ID	2/2
X	PID07	822	**Source Subqualifier** A reference that indicates the table or text maintained by the Source Qualifier.	O	AN	1/15
X	PID08	1073	**Yes/No Condition or Response Code** Code indicating a Yes or No condition or response.	O	ID	1/1

Segment:	**ITD** Terms of Sale/Deferred Terms of Sale
Position:	110
Loop:	IT1
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify terms of sale.
Notes:	1. Use this 2/ITD/110 segment when the discount terms vary by line item. If the discount applies to all of the line items, use the 1/ITD/130 segment.
	2. Use only when a discount is applicable. Do not transmit this segment when a discount is not applicable.
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	
	ITD01	336	Terms Type Code	O	ID	2/2

Code identifying type of payment terms.

      21   Fast Pay

            Code indicating that an invoice is subject to accelerated payment

            Use to indicate FAST PAY procedures are applicable only when that payment procedure is authorized for the contract or order represented by this invoice.

	Ref. Des.	Data Element	Name		Attributes	
	ITD02	333	Terms Basis Date Code	O	ID	1/2

Code identifying the beginning of the terms period.

Use the same code as the one indicated in ITD02 of the Contract Solicitation Response, 843 transaction set. Use of this segment shall not override the terms and conditions of the contract, order, or Prompt Payment Act.
Refer to 003040 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name		Attributes	
	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.
The amount shown is a percent, e.g., two and a half percent should be shown as 2.5 (two point five). Do not write the percent as .025.

	Ref. Des.	Data Element	Name		Attributes	
X	ITD04	370	Terms Discount Due Date	X	DT	6/6

Date payment is due if discount is to be earned.

	Ref. Des.	Data Element	Name		Attributes	
	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.

	Ref. Des.	Data Element	Name		Attributes	
X	ITD06	446	Terms Net Due Date	O	DT	6/6

Date when total invoice amount becomes due.

	Ref. Des.	Data Element	Name		Attributes	
	ITD07	386	Terms Net Days	O	N0	1/3

			Number of days until total invoice amount is due (discount not applicable).			
	ITD08	362	**Terms Discount Amount** Total amount of terms discount.	O	N2	1/10
X	ITD09	388	**Terms Deferred Due Date** Date deferred payment or percent of invoice payable is due.	O	DT	6/6
X	ITD10	389	**Deferred Amount Due** Deferred amount due for payment.	X	N2	1/10
X	ITD11	342	**Percent of Invoice Payable** Amount of invoice payable expressed in percent.	X	R	1/5
X	ITD12	352	**Description** A free-form description to clarify the related data elements and their content.	O	AN	1/80
X	ITD13	765	**Day of Month** The numeric value of the day of the month between 1 and the maximum day of the month being referenced.	X	N0	1/2
X	ITD14	107	**Payment Method Code** Code identifying type of payment procedures.	O	ID	1/1
X	ITD15	954	**Percent** Percentage expressed as a decimal	O	R	1/10

Segment:	**REF** Reference Numbers	
Position:	120	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify identifying numbers.	
Notes:	Use this 2/REF/120 segment to identify reference numbers that vary by line item. When the reference numbers apply to all the line items in the invoice, use the 1/REF/110 segment.	
Syntax Notes:	1 At least one of REF02 or REF03 is required.	
Semantic Notes:		
Comments:		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	**Reference Number Qualifier**	**M ID 2/2**

Code qualifying the Reference Number.

46	Old Meter Number
	Identifies meters being removed
55	Sequence Number
	Use to indicate a suffix number associated with a final shipment number (i.e., when transmitting the letter Z to indicate a final shipment). (Applicable to DoD invoices only.)
AT	Appropriation Number
	Use to identify the accounting/appropriation data of the billed activity when the data is applicable to the cited line item.
BL	Government Bill of Lading
	Use to indicate the government bill of lading number.
FS	Final Sequence Number
	Use to indicate the suffix number of a replacement shipment associated with a shipment number (i.e., when transmitting the letter A to indicate the first replacement shipment). (Applicable to DoD invoices only.)
K5	Task Order
MG	Meter Number
RB	Rate code number
SE	Serial Number
	Use to indicate the item's serial number.
SI	Shipper's Identifying Number for Shipment (SID)
	A unique number (to the shipper) assigned by the shipper to identify the shipment
	Use to indicate the vendor shipping number.

Ref. Des.	Data Element	Name	Attributes
>> REF02	127	**Reference Number**	**X AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

| X | REF03 | 352 | Description | | X | AN | 1/80 |

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

Segment:	**DTM** Date/Time Reference	
Position:	150	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify pertinent dates and times	
Notes:	1. Use two iterations of the segment when a range of dates (expressed as period start - period end, is required).	
	2. Use this 2/DTM/150 segment to specify the dates of the line item data for the invoice. When the date for all items are the same, use the 1/DTM/140 segment.	
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM06 is required.	
	2 If either DTM06 or DTM07 is present, then the other is required.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	DTM01	374	**Date/Time Qualifier**	M	ID	3/3

Code specifying type of date or time, or both date and time.

011	Shipped	
	Use to indicate the date the goods were shipped.	
035	Delivered	
135	Booking	
	Use to indicate a billing revenue period. When used, cite the last day of the period.	
150	Service Period Start	
	Use to indicate the performance commencement date for a line item that is ordering a service.	
151	Service Period End	
	Use to indicate the performance completion date for a line item that is ordering a service.	
186	Invoice Period Start	
	When the billing period covered by an invoice begins	
187	Invoice Period End	
	When the billing period covered by an invoice ends	
266	Base	
	The start of base date for a calendar reference - all dates fall after it	
	Use to indicate a billing demand month. When used, cite the last day of the applicable month.	

	Ref. Des.	Data Element	Name	Attributes		
	DTM02	373	**Date**	X	DT	6/6

Date (YYMMDD).

	Ref. Des.	Data Element	Name	Attributes		
X	DTM03	337	**Time**	X	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)			
X	DTM04	623	**Time Code**	O	ID	2/2
			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.			
X	DTM05	624	**Century**	O	N0	2/2
			The first two characters in the designation of the year (CCYY).			
X	DTM06	1250	**Date Time Period Format Qualifier**	X	ID	2/3
			Code indicating the date format, time format, or date and time format.			
X	DTM07	1251	**Date Time Period**	X	AN	1/35
			Expression of a date, a time, or range of dates, times or dates and times.			

Segment:	**CAD** Carrier Detail	
Position:	160	
Loop:	IT1	
Level:	Detail	
Usage:	Optional	
Max Use:	>1	
Purpose:	To specify transportation details for the transaction	
Notes:	1. Use only when a different type of transportation method is used than identified in the purchase order.	
	2. Use this 2/CAD/160 segment to identify the transportation data that vary by line item. When the transportation information applies to all line items in the invoice, use the 3/CAD/030 segment.	
Syntax Notes:	1 At least one of CAD05 or CAD04 is required.	
	2 If CAD07 is present, then CAD08 is required.	
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	CAD01	91	**Transportation Method/Type Code**	O	ID	1/2

Code specifying the method or type of transportation for the shipment.

1. Use to indicate the transportation method/type code for the line items.

2. A conversion table may be required to convert agency codes to codes used by ASC X12.

Refer to 003040 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes		
X	CAD02	206	**Equipment Initial**	O	AN	1/4

Prefix or alphabetic part of an equipment unit's identifying number.

X	CAD03	207	**Equipment Number**	O	AN	1/10

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred).

X	CAD04	140	**Standard Carrier Alpha Code**	X	ID	2/4

Standard Carrier Alpha Code

>>	CAD05	387	**Routing**	X	AN	1/35

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.

Always cite the number 1. This data element is used to satisfy an X12 syntax requirement. The data, (i.e., the number 1), shall not be processed by the receiving application program.

X	CAD06	368	**Shipment/Order Status Code**	O	ID	2/2

Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.

X	CAD07	128	**Reference Number Qualifier**	O	ID	2/2

Code qualifying the Reference Number.

X	CAD08	127	**Reference Number**	X	AN	1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

X	CAD09	284	**Service Level Code**	O	ID	2/2

Code defining service

Segment:	**SAC** Service, **Promotion, Allowance, or Charge Information**
Position:	**180**
Loop:	SAC
Level:	Detail
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
Notes:	Use this 2/SAC/180 segment to identify charges that apply to a line item. If the charges apply to all of the line items, use the 3/SAC/040 segment.

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.
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	SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to service, promotion, allowance or charge. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
	4	SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
	5	SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
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 a ``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		
>>	SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1
			Code which indicates an allowance or charge for the service specified.			
			A Allowance			
			C Charge			
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4
			Code identifying the service, promotion, allowance, or charge			
			Any code may be used except those referring to taxes which should be carried in the TX1 segment. Use code F650 to indicate packing, crating and handling. Refer to 003040 Data Element Dictionary for acceptable code values.			
X	SAC03	559	**Agency Qualifier Code**	X	ID	2/2
			Code identifying the agency assigning the code values.			
X	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN	1/10

			Agency maintained code identifying the service, promotion, allowance, or charge			
	SAC05	610	**Amount**	O	N2	1/15

Monetary amount.

Use to identify the amount of the allowance or charge.

	SAC06	378	**Allowance/ Charge Percent Qualifier**	X	ID	1/1

Code indicating on what basis allowance or charge percent is calculated.
Refer to 003040 Data Element Dictionary for acceptable code values.

	SAC07	332	**Allowance or Charge Percent**	X	R	1/6

Allowance or charge expressed as a percent.

The amount shown is a percentage, e.g., two and a half percent should be shown as 2.5 (two point five). Do not write as .025.

	SAC08	359	**Allowance or Charge Rate**	O	R	1/9

Allowance or Charge Rate per Unit.

	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 003040 Data Element Dictionary for acceptable code values.

	SAC10	339	**Allowance or Charge Quantity**	X	R	1/10

Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.

	SAC11	339	**Allowance or Charge Quantity**	O	R	1/10

Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.

X	SAC12	331	**Allowance or Charge Method of Handling Code**	O	ID	2/2

Code indicating method of handling for an allowance or charge.

X	SAC13	127	**Reference Number**	X	AN	1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

X	SAC14	770	**Option Number**	O	AN	1/20

A unique number identifying available promotion or allowance options when more than one is offered.

	SAC15	352	**Description**	O	AN	1/80

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

Use only when additional clarification of SAC02 is required.

Segment:	**TXI** Tax Information	
Position:	190	
Loop:	SAC	
Level:	Detail	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify tax information.	
Notes:	Use this 2/TXI/190 segment only if taxes apply.	
Syntax Notes:	1	At least one of TXI02 TXI03 or TXI06 is required.
	2	If either TXI04 or TXI05 is present, then the other is required.
	3	If TXI08 is present, then TXI03 is required.
Semantic Notes:		
Comments:	1	TXI02 is the monetary amount of the tax.
	2	TXI03 is the tax percent expressed as a decimal.
	3	If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	TXI01	963	**Tax Type Code** Code specifying the type of tax. *Use any code. The following codes are preferred:*	M	ID	2/2

CA City Tax
F1 FICA Tax
FD Federal Tax
FT Federal Excise Tax
GR Gross Receipts Tax
LS State and Local Sales Tax

Refer to 003040 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes		
	TXI02	782	**Monetary Amount** Monetary amount.	X	R	1/15
X	TXI03	954	**Percent** Percentage expressed as a decimal	X	R	1/10
X	TXI04	955	**Tax Jurisdiction Code Qualifier** Code identifying the source of the data used in tax jurisdiction code.	X	ID	2/2
X	TXI05	956	**Tax Jurisdiction Code** Code identifying the taxing jurisdiction.	X	AN	1/10
X	TXI06	441	**Tax Exempt Code** Code identifying exemption status from sales and use tax.	X	ID	1/1
X	TXI07	662	**Relationship Code** Code indicating the relationship of the price or amount to the associated segment.	O	ID	1/1
X	TXI08	828	**Dollar Basis For Percent** Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9
X	TXI09	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.	O	AN	1/20

Segment:	**N1** Name
Position:	240
Loop:	N1
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To identify a party by type of organization, name and code
Notes:	1. Whenever possible, address information should be transmitted using code values contained in a combination of the N101 and N103/4 data elements. Use N102 and N2-N4 segments only when it is necessary to transmit the full address. For example, if a vendor can be identified by a DUNs number, it is not necessary to transmit the vendor's full address since the relationship between the DUNs number and the vendor's address can be established by accessing a data base in which the information is stored, having been put there at the time the vendor electronically registered as a federal government trading partner.
	2. Use this 2/N1/240 loop to identify information pertaining to the line item. If the information applies to all of the line items, use the 1/N1/070 loop.
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		
>>	N101	98	Entity Identifier Code	M	ID	2/2
			Code identifying an organizational entity, a physical location, or an individual			
			MQ Metering Location			
			ST Ship To			
			Use, when the ship-to address differs among line items, to identify the shipped to address.			
			SV Service Performance Site			
			When services are contracted for, this describes the organization for whom or location address at which those services will be performed			
			Use to indicate the location where a service was performed.			
	N102	93	Name	X	AN	1/35
			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).			
			1 D-U-N-S Number, Dun & Bradstreet			
			10 Department of Defense Activity Address Code (DODAAC)			
			33 Commercial and Government Entity (CAGE)			
			A2 Military Assistance Program Address Code (MAPAC)			

				Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity		
			FA	Facility Identification		
>>	N104	67	**Identification Code**		X AN	2/17
			Code identifying a party or other code.			
X	N105	706	**Entity Relationship Code**		O ID	2/2
			Code describing entity relationship.			
X	N106	98	**Entity Identifier Code**		O ID	2/2
			Code identifying an organizational entity, a physical location, or an individual			

	Segment:	**N2** Additional Name Information
	Position:	250
	Loop:	N1
	Level:	Detail
	Usage:	Optional
	Max Use:	2
	Purpose:	To specify additional names or those longer than 35 characters in length
	Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.
		2. Use, as applicable, with codes ST and SV, to provide the necessary identification for the payment.
	Syntax Notes:	
	Semantic Notes:	
	Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	N201	93	Name	M	AN	1/35
			Free-form name.			
	N202	93	Name	O	AN	1/35
			Free-form name.			

Segment:	**N3** Address Information	
Position:	260	
Loop:	N1	
Level:	Detail	
Usage:	Optional	
Max Use:	2	
Purpose:	To specify the location of the named party	
Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.	
	2. Use, as applicable, with codes ST and SV, to provide the necessary identification for the payment.	
Syntax Notes:		
Semantic Notes:		
Comments:		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	N301	166	Address Information Address information	M	AN	1/35
	N302	166	Address Information Address information	O	AN	1/35

Segment:	**N4** Geographic Location	
Position:	270	
Loop:	N1	
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To specify the geographic place of the named party	
Notes:	1. This segment is not necessary when the cited party can be identified by a code value in N101/03/04.	

2. Use, as applicable, with codes ST and SV, to provide the necessary identification for the payment.

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 USA 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	3/9
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States).				
	N404	26	Country Code		O	ID	2/3
			Code identifying the country.				
			A conversion table may be required to convert agency codes to codes used by ASC X12.				
X	N405	309	Location Qualifier		X	ID	1/2
			Code identifying type of location.				
X	N406	310	Location Identifier		O	AN	1/30
			Code which identifies a specific location.				

Segment:	**TDS** Total Monetary Value Summary	
Position:	010	
Loop:		
Level:	Summary	
Usage:	Mandatory	
Max Use:	1	
Purpose:	To specify the total invoice discounts and amounts	
Notes:	There is no need to transmit either the currency symbol (e.g., the dollar sign $), commas separating thousands, or the decimal point because the amount data elements are N2 types which means that there are two decimal places implied in every transmitted number. When using, be sure to follow all whole numbers with two zeros to account for the implied two decimal places.	
Syntax Notes:		
Semantic Notes:		
Comments:	1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	TDS01	361	**Total Invoice Amount**	M N2 1/10
			Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).	
			Use to identify the gross total amount of the invoice after addition of charges and deductions for allowances at both the line item and summary levels, (e.g., this amount must equal the sum of IT102 times IT104 plus any amounts in the SAC and TXI segments, in the detail and summary levels, as applicable.	
	TDS02	390	**Amount Subject to Terms Discount**	O N2 1/10
			Amount upon which the terms discount amount is calculated.	
			Use to identify the total amount of the invoice subject to discounts (which may vary by line). Use is required if the dollar value subject to the terms discount is not equal to the dollar value cited in TDS01.	
	TDS03	391	**Discounted Amount Due**	O N2 1/10
			Amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount.)	
			Use to identify the total amount of the invoice minus allowances and discounts and plus the charges, as applicable.	
	TDS04	362	**Terms Discount Amount**	O N2 1/10
			Total amount of terms discount.	

Segment:	**TXI** Tax Information
Position:	020
Loop:	
Level:	Summary
Usage:	Optional
Max Use:	10
Purpose:	To specify tax information.
Notes:	Use this 3/TXI/020 segment only if taxes apply.
Syntax Notes:	1 At least one of TXI02 TXI03 or TXI06 is required.
	2 If either TXI04 or TXI05 is present, then the other is required.
	3 If TXI08 is present, then TXI03 is required.
Semantic Notes:	
Comments:	1 TXI02 is the monetary amount of the tax.
	2 TXI03 is the tax percent expressed as a decimal.
	3 If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	TXI01	963	**Tax Type Code** Code specifying the type of tax. *Use any code. The following codes are preferred:* *CA City Tax* *F1 FICA Tax* *FD Federal Tax* *FT Federal Excise Tax* *GR Gross Receipts Tax* *LS State and Local Sales Tax* Refer to 003040 Data Element Dictionary for acceptable code values.	M	ID	2/2
	TXI02	782	**Monetary Amount** Monetary amount.	X	R	1/15
X	TXI03	954	**Percent** Percentage expressed as a decimal	X	R	1/10
X	TXI04	955	**Tax Jurisdiction Code Qualifier** Code identifying the source of the data used in tax jurisdiction code.	X	ID	2/2
X	TXI05	956	**Tax Jurisdiction Code** Code identifying the taxing jurisdiction.	X	AN	1/10
X	TXI06	441	**Tax Exempt Code** Code identifying exemption status from sales and use tax.	X	ID	1/1
X	TXI07	662	**Relationship Code** Code indicating the relationship of the price or amount to the associated segment.	O	ID	1/1
X	TXI08	828	**Dollar Basis For Percent** Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9
X	TXI09	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.	O	AN	1/20

810 - Invoice (Commercial Invoice)

Segment:	**CAD** Carrier Detail
Position:	030
Loop:	
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To specify transportation details for the transaction
Notes:	1. Use only when a different type of transportation method is used than identified in the purchase order.
	2. Use this 3/CAD/030 segment to identify transportation information that applies to all line items. When the transportation information varies by line item, use the 2/CAD/160 segment.
Syntax Notes:	1 At least one of CAD05 or CAD04 is required.
	2 If CAD07 is present, then CAD08 is required.
Semantic Notes:	
Comments:	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	CAD01	91	Transportation Method/Type Code	O	ID	1/2

Code specifying the method or type of transportation for the shipment.

1. Use to indicate the transportation method/type code for the line items.

2. A conversion table may be required to convert agency codes to codes used by ASC X12.
Refer to 003040 Data Element Dictionary for acceptable code values.

	Ref. Des.	Data Element	Name	Attributes		
X	CAD02	206	Equipment Initial	O	AN	1/4

Prefix or alphabetic part of an equipment unit's identifying number.

| X | CAD03 | 207 | Equipment Number | O | AN | 1/10 |

Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred).

| X | CAD04 | 140 | Standard Carrier Alpha Code | X | ID | 2/4 |

Standard Carrier Alpha Code

| >> | CAD05 | 387 | Routing | X | AN | 1/35 |

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.
Always cite the number 1. This data element is used to satisfy an X12 syntax requirement. The data shall not be processed by the receiving application program.

| X | CAD06 | 368 | Shipment/Order Status Code | O | ID | 2/2 |

Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction.

| X | CAD07 | 128 | Reference Number Qualifier | O | ID | 2/2 |

Code qualifying the Reference Number.

| X | CAD08 | 127 | Reference Number | X | AN | 1/30 |

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

| X | CAD09 | 284 | Service Level Code | O | ID | 2/2 |

Code defining service

Segment:	**SAC** Service, Promotion, Allowance, or Charge Information	
Position:	040	
Loop:	SAC	
Level:	Summary	
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	
Notes:	Use the 3/SAC/040 segment to identify charges that apply to all of the line items. If the charges vary by line item, use the 2/SAC/180 segment.	
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.
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	SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to service, promotion, allowance or charge. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
	4	SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
	5	SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
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 a ``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		
>>	SAC01	248	**Allowance or Charge Indicator**	M	ID	1/1
			Code which indicates an allowance or charge for the service specified.			
			A Allowance			
			C Charge			
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID	4/4
			Code identifying the service, promotion, allowance, or charge			
			Use any code except those that are tax related. Those codes should be carried in the TXI segment.			
			Refer to 003040 Data Element Dictionary for acceptable code values.			
X	SAC03	559	**Agency Qualifier Code**	X	ID	2/2
			Code identifying the agency assigning the code values.			
X	SAC04	1301	**Agency Service, Promotion, Allowance, or Charge Code**	X	AN	1/10

Agency maintained code identifying the service, promotion, allowance, or charge

| | SAC05 | 610 | **Amount** | O | N2 | 1/15 |

Monetary amount.

Use to identify the amount of the allowance or charge.

| | SAC06 | 378 | **Allowance/ Charge Percent Qualifier** | X | ID | 1/1 |

Code indicating on what basis allowance or charge percent is calculated.

Refer to 003040 Data Element Dictionary for acceptable code values.

| | SAC07 | 332 | **Allowance or Charge Percent** | X | R | 1/6 |

Allowance or charge expressed as a percent.

The amount shown is a percent, e.g.,two and a half percent should be shown as 2.5 (two point five). Do not write the percent as .025.

| | SAC08 | 359 | **Allowance or Charge Rate** | O | R | 1/9 |

Allowance or Charge Rate per Unit.

| | 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 003040 Data Element Dictionary for acceptable code values.

| | SAC10 | 339 | **Allowance or Charge Quantity** | X | R | 1/10 |

Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.

| | SAC11 | 339 | **Allowance or Charge Quantity** | O | R | 1/10 |

Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.

| X | SAC12 | 331 | **Allowance or Charge Method of Handling Code** | O | ID | 2/2 |

Code indicating method of handling for an allowance or charge.

| X | SAC13 | 127 | **Reference Number** | X | AN | 1/30 |

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

| X | SAC14 | 770 | **Option Number** | O | AN | 1/20 |

A unique number identifying available promotion or allowance options when more than one is offered.

| | SAC15 | 352 | **Description** | O | AN | 1/80 |

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

Use only when additional clarification of codes in SAC02 is required.

Segment:	**TXI** Tax Information	
Position:	050	
Loop:	SAC	
Level:	Summary	
Usage:	Optional	
Max Use:	10	
Purpose:	To specify tax information.	
Notes:	Use this 3/TXI/050 segment only if taxes apply at the summary level and they cannot be assigned to a specific line item.	
Syntax Notes:	1	At least one of TXI02 TXI03 or TXI06 is required.
	2	If either TXI04 or TXI05 is present, then the other is required.
	3	If TXI08 is present, then TXI03 is required.
Semantic Notes:		
Comments:	1	TXI02 is the monetary amount of the tax.
	2	TXI03 is the tax percent expressed as a decimal.
	3	If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
>>	TXI01	963	**Tax Type Code** Code specifying the type of tax. *Use any code. The following codes are preferred:* *CA City Tax* *F1 FICA Tax* *FD Federal Tax* *FT Federal Excise Tax* *GR Gross Receipts Tax* *LS State and Local Sales Tax* Refer to 003040 Data Element Dictionary for acceptable code values.	M	ID	2/2
	TXI02	782	**Monetary Amount** Monetary amount.	X	R	1/15
X	TXI03	954	**Percent** Percentage expressed as a decimal	X	R	1/10
X	TXI04	955	**Tax Jurisdiction Code Qualifier** Code identifying the source of the data used in tax jurisdiction code.	X	ID	2/2
X	TXI05	956	**Tax Jurisdiction Code** Code identifying the taxing jurisdiction.	X	AN	1/10
X	TXI06	441	**Tax Exempt Code** Code identifying exemption status from sales and use tax.	X	ID	1/1
X	TXI07	662	**Relationship Code** Code indicating the relationship of the price or amount to the associated segment.	O	ID	1/1
X	TXI08	828	**Dollar Basis For Percent** Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9
X	TXI09	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.	O	AN	1/20

	Segment:	**CTT** Transaction Totals
	Position:	070
	Loop:	
	Level:	Summary
	Usage:	Mandatory
	Max Use:	1
	Purpose:	To transmit a hash total for a specific element in the transaction set
	Notes:	
	Syntax Notes:	1 If CTT03 is present, then CTT04 is required.
		2 If CTT05 is present, then CTT06 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		
>>	CTT01	354	**Number of Line Items**	M	N0	1/6
			Total number of line items in the transaction set.			
	CTT02	347	**Hash Total**	O	R	1/10

Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

-.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ------- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.

	Ref. Des.	Data Element	Name	Attributes		
X	CTT03	81	**Weight**	O	R	1/10
			Numeric value of weight.			
X	CTT04	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			
X	CTT05	183	**Volume**	O	R	1/8
			Value of volumetric measure.			
X	CTT06	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			
X	CTT07	352	**Description**	O	AN	1/80
			A free-form description to clarify the related data elements and their content.			

Segment:	**SE** **Transaction Set Trailer**
Position:	080
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).
Notes:	
Syntax Notes:	
Semantic Notes:	
Comments:	1 SE is the last segment of each transaction set.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
>>	SE01	96	**Number of Included Segments**	M	N0	1/10
			Total number of segments included in a transaction set including ST and SE segments.			
>>	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			
			Cite the same number that is contained in ST02.			

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