Northeast Utilities ANSI X-12 4010

810 Invoice

Version: 1.0

Publication:

June 15, 2002

810

Invoice

Functional Group=

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.

Not Defined:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	М	1			Must use

Heading:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BIG	Beginning Segment for Invoice	M	1			Must use
050	REF	Reference Identification	0	12			Used
060	PER	Administrative Communications Contact	Ο	3			Used

LOOP II	LOOP ID - N1			2	00
070	N1	Name	0	1	Must use
080	N2	Additional Name Information	0	2	Used
090	N3	Address Information	0	2	Used
100	N4	Geographic Location	0	1	Used
130	ITD	Terms of Sale/Deferred Terms of Sale	0	>1	Used
140	DTM	Date/Time Reference	0	10	Used
160	PID	Product/Item Description	0	200	Used

Detail:

<u>Pos</u>	<u>ld</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP IE	<u> </u>				200000		
010	IT1	Baseline Item Data (Invoice)	0	1			Must use
040	TXI	Tax Information	0	10			Used
LOOP IE	<u> </u>				<u>1000</u>		
060	PID	Product/Item Description	0	1			Must use
120	REF	Reference Identification	0	>1			Used
150	DTM	Date/Time Reference	0	10			Used
LOOP ID - SAC					<u>25</u>		
180	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Used

Summary:

<u>Pos</u>	<u>ld</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use
020	TXI	Tax Information	0	10			Used
030	CAD	Carrier Detail	0	11			Used
LOOP ID	- SAC				<u>25</u>		
040	SAC	Service, Promotion, Allowance, or Charge Information	0	1			Used
070	CTT	Transaction Totals	0	1		N3/070	Must use
080	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/070 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.

ISA

Interchange Control Header

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

User Option (Usage): Must use

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

Element	Sumi	mary:
Dof	14	Ela

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information				
		Code Name				
		00 No Authorization Information Present (No Me	eaningful	I Information	on in 102)	
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
ISA02	102	Authorization Information	M	AN	10/10	Must use
		Description: Information used for additional identification				
		or authorization of the interchange sender or the data in the interchange; the type of information is set by the				
		Authorization Information Qualifier (I01)				
ISA03	103	Security Information Qualifier	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Security Information				
		<u>Code</u> <u>Name</u>				
		00 No Security Information Present (No Meaning	gful Info	rmation in	104)	
<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ISA04	104	Security Information	M	AN	10/10	Must use
		Description: This is used for identifying the security information about the interchange sender or the data in the				
		interchange; the type of information is set by the Security				
		Information Qualifier (I03)				
ISA05	105	Interchange ID Qualifier	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of				
		code structure used to designate the sender or receiver ID element being qualified				
ISA06	106	Interchange Sender ID	М	AN	15/15	Must use
		Description: Identification code published by the sender				
		for other parties to use as the receiver ID to route data to				
		them; the sender always codes this value in the sender ID element				
ISA07	105	Interchange ID Qualifier	М	ID	2/2	Must use
10/10/	100	Description: Qualifier to designate the system/method of	171	ID	212	wast asc
		code structure used to designate the sender or receiver ID				
		element being qualified				
		Code Name				
Dof	Id	ZZ Mutually Defined	Bog	Tuno	Min/May	Hoogo
<u>Ref</u> ISA08	<u>ld</u> 107	Element Name Interchange Receiver ID	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 15/15	<u>Usage</u> Must use
10/100	107	Description: Identification code published by the receiver	IVI	AIN	13/13	wast asc
		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 NOESTUT				
ISA09	108	Interchange Date	М	DT	6/6	Must use
.0, .00	.00	Description: Date of the interchange	•••	٥.	5, 5	
ISA10	109	Interchange Time	M	TM	4/4	Must use
MIMSV4010_	_810I.ecs	5				

		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer		ID	1/1	Must use
		Code Name	V40 TDCC and UCC			
Def	اما	U U.S. EDI Community of ASC Element Name		Tuna	Min/May	Heese
<u>Ref</u> ISA12	<u>ld</u> l11	Interchange Control Version Number	<u>Req</u> M	<u>Type</u> ID	Min/Max 5/5	<u>Usage</u> Must use
13A12	111	Description: This version number covers the interchange control segments		ID	5/5	wust use
		Code Name				
		00400 Standard Issued as ANSI X1	2.5-1997			
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
ISA13	l12	Interchange Control Number Description: A control number assigned by tinterchange sender	M he	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)		ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		0 No Acknowledgment Reques	sted			
Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
ISA15	l14	Usage Indicator Description: Code to indicate whether data ethis interchange envelope is test, production		ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		P Production Data		_		
<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ISA16	l15	Component Element Separator Description: Type is not applicable; the comelement separator is a delimiter and not a dathis field provides the delimiter used to separata elements within a composite data structumust be different than the data element separatement terminator	ta element; ate component ure; this value		1/1	Must use

GS Functional Group Header

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

User Option (Usage): Must use

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

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Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets Code IN Invoice Information (810,819)	<u></u> M	ID	2/2	Must use
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners NOESTUT	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	М	DT	8/8	Must use
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	ТМ	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard Code X Accredited Standards Committee X12	M	ID	1/2	Must use
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed Code Name	M	AN	1/12	Must use

Semantics:

004010

October 1997

Draft Standards Approved for Publication by ASC X12 Procedures Review Board through

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

Comments:

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

ST Transaction Set Header

Pos: 010 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set		ID	3/3	Must use
		Code Name 810 Invoice				
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	Usage
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

BIG Beginning Segment for Invoice

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

User Option (Usage): Must use

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
BIG01	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
		Invoice Date				
BIG02	76	Invoice Number Description: Identifying number assigned by issuer	М	AN	1/22	Must use
BIG04	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	0	AN	1/22	Must use
BIG05	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Must be used if sent on Purchase order	0	AN	1/30	Used

Semantics:

- 1. BIG01 is the invoice issue date.
- 2. BIG03 is the date assigned by the purchaser to purchase order.
- 3. 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.

REF Reference Identification

Pos: 050 Max: 12 Heading - Optional Loop: N/A Elements: 2

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Use any Stardard Codes	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	С	AN	1/30	Used

Will be treated as a Invoice Header Note

Syntax:

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

Semantics:

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

PER

Administrative Communications Contact

Pos: 060 Max: 3 Heading - Optional Loop: N/A Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Na	<u>me</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PER01	366	Contact Ful	nction Code	М	ID	2/2	Must use
		Description	: Code identifying the major duty or				
		responsibility	y of the person or group named				
		<u>Code</u>	<u>Name</u>				
		IC	Information Contact				
Ref	<u>ld</u>	Element Na	<u>me</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PER02	93	Name		0	AN	1/60	Must use
		Description	: Free-form name				
PER03	365	Communica	ation Number Qualifier	С	ID	2/2	Used
		•	: Code identifying the type of communication				
		number					
		<u>Code</u>	<u>Name</u>				
		TE	Telephone				
<u>Ref</u>	<u>ld</u>	Element Na	<u>me</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PER04	364	Communica	ation Number	С	AN	1/80	Used
		Description	: Complete communications number including				
		country or a	rea code when applicable				

Syntax:

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

Loop N1

Pos: 070

Repeat: 200

Optional

Elements: N/A Loop: N1

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

Loop Summary:

Pos	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	0	1		Must use
080	N2	Additional Name Information	0	2		Used
090	N3	Address Information	0	2		Used
100	N4	Geographic Location	0	1		Used

N1 Name

Pos: 070 Max: 1
Heading - Optional
Loop: N1 Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Na	ame_	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
N101	98	Entity Iden	tifier Code	M	ID	2/3	Must use				
		Description	1: Code identifying an organizational entity, a								
		physical loc	physical location, property or an individual								
		<u>Code</u>	<u>Name</u>								
		RE	Party to receive commercial invoice remittar	nce							
Ref	<u>ld</u>	Element Na	<u>ame</u>	Req	Type	Min/Max	<u>Usage</u>				
N102	93	Name		С	AN	1/60	Must use				
		Description	n: Free-form name								

Syntax:

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

Comments:

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

N2

Additional Name Information

Pos: 080 Max: 2 Heading - Optional Loop: N1 Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	0	AN	1/60	Used
		Description: Free-form name				

N3 Address Information

Pos: 090 Max: 2 Heading - Optional Loop: N1 Elements: 2

User Option (Usage): Used

To specify the location of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	0	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 100 Max: 1
Heading - Optional
Loop: N1 Elements: 4

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
N402	156	Description: Free-form text for city name State or Province Code Description: Code (Standard State/Province) as defined	0	ID	2/2	Used
N403	116	by appropriate government agency Postal Code	0	ID	3/15	Used
	. 10	Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	J	.5	3, 10	3000
N404	26	Country Code Description: Code identifying the country	0	ID	2/3	Used

Syntax:

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

Comments:

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

ITD

Terms of Sale/Deferred Terms of Sale

Pos: 130 Max: >1 Heading - Optional Loop: N/A Elements: 3

User Option (Usage): Used

To specify terms of sale

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ITD03	338	Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	0	R	1/6	Used
ITD05	351	Terms Discount Days Due Description: Number of days in the terms discount period by which payment is due if terms discount is earned	С	N0	1/3	Used
ITD07	386	Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable)	0	N0	1/3	Used

Syntax:

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

Semantics:

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

Comments:

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

DTM Date/Time Reference

Pos: 140 Max: 10
Heading - Optional
Loop: N/A Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time <i>Use any Stardard Codes</i>				
DTM02	373	Date Description: Date expressed as CCYYMMDD	С	DT	8/8	Used

Will be treated as a Invoice Header Note

Syntax:

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

PID

Product/Item Description

Pos: 160 Max: 200 Heading - Optional Loop: N/A Elements: 2

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description	М	ID	1/1	Must use
		Code Name				
		F Free-form				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PID05	352	Description	С	AN	1/80	Used
		Description: A free-form description to clarify the related				
		data elements and their content				
		Will be treated as a Invoice Header Note				

Syntax:

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

Semantics:

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

Comments:

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

Loop IT1

Pos: 010 Repeat: 200000

Optional

Loop: IT1 Elements: N/A

To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
010	IT1	Baseline Item Data (Invoice)	0	1		Must use
040	TXI	Tax Information	0	10		Used
060		Loop PID	0		1000	Must use
120	REF	Reference Identification	0	>1		Used
150	DTM	Date/Time Reference	0	10		Used
180		Loop SAC	0		25	Used

IT1 Baseline Item Data (Invoice)

Pos: 010 Max: 1
Detail - Optional
Loop: IT1 Elements: 12

User Option (Usage): Must use

To specify the basic and most frequently used line item data for the invoice and related transactions

E	em	ent	t S	um	ma	ary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
IT101	350	Assigned Identification	0	AN	1/20	Must use
		Description: Alphanumeric characters assigned for				
		differentiation within a transaction set Must be line item number from NU's Purchase Order				
IT102	358	Quantity Invoiced	С	R	1/10	Must use
11 102	000	Description: Number of units invoiced (supplier units)	J	1.	1710	Wast asc
IT103	355	Unit or Basis for Measurement Code	С	ID	2/2	Must use
		Description: Code specifying the units in which a value is				
		being expressed, or manner in which a measurement has been taken				
		This unit of measure should be the same				
		as is on NU's purchase order.	_	_		
IT104	212	Unit Price Description: Price per unit of product, service, commodity,	С	R	1/17	Must use
		etc.				
IT106	235	Product/Service ID Qualifier	С	ID	2/2	Used
		Description: Code identifying the type/source of the				
		descriptive number used in Product/Service ID (234) Must be used if there is a Stock Code on the Purchase				
		Order				
		<u>Code</u> <u>Name</u>				
		CB Buyer's Catalog Number	_	_		
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
IT107	234	Product/Service ID Description: Identifying number for a product or service	С	AN	1/48	Used
		Northeast Utilities Catalog Number				
		Must be used if there is a Northeast Utilities Catalog				
		Number on the Purchase Order				
IT108	235	Product/Service ID Qualifier Product/Service ID Qualifier Product/Service ID Qualifier Product/Service ID Qualifier	С	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code Name				
		MF Manufacturer				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
IT109	234	Product/Service ID Description: Identifying number for a product or service	С	AN	1/48	Used
		Description: Identifying number for a product of service				
		Manufacturer Name				
IT110	235	Product/Service ID Qualifier	С	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code Name				
		MG Manufacturer's Part Number				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
IT111	234	Product/Service ID	С	AN	1/48	Used
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		Description	n: Identifying number for a product or service				
		Manufactur	ers Part Number				
IT112	235	Description	ervice ID Qualifier n: Code identifying the type/source of the number used in Product/Service ID (234)	С	ID	2/2	Used
		Code	<u>Name</u>				
		MN	Model Number				
Ref	<u>ld</u>	Element Na	<u>ame</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
IT113	234	Product/Se Description	ervice ID n: Identifying number for a product or service	С	AN	1/48	Used

Manufacturers Model Number

Syntax:

- 1. P020304 If either IT102,IT103,IT104 is present, then all are required
- 2. P0607 If either IT106,IT107 is present, then all are required
- 3. P0809 If either IT108,IT109 is present, then all are required
- 4. P1011 If either IT110,IT111 is present, then all are required
- 5. P1213 If either IT112,IT113 is present, then all are required
- 6. P1415 If either IT114,IT115 is present, then all are required
- 7. P1617 If either IT116,IT117 is present, then all are required
- 8. P1819 If either IT118,IT119 is present, then all are required
- 9. P2021 If either IT120,IT121 is present, then all are required
- 10. P2223 If either IT122,IT123 is present, then all are required
- 11. P2425 If either IT124,IT125 is present, then all are required

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- 2. IT106 through IT125 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.

TXI Tax Information

Pos: 040 Max: 10
Detail - Optional
Loop: IT1 Elements: 2

User Option (Usage): Used

To specify tax information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Must use
TXI02	782	Monetary Amount Description: Monetary amount	С	R	1/18	Used

Syntax:

- 1. R020306 At least one of TXI02,TXI03,TXI06 is required
- 2. P0405 If either TXI04,TXI05 is present, then all are required
- 3. C0803 If TXI08 is present, then all of TXI03 are required

Semantics:

- 1. TXI02 is the monetary amount of the tax.
- 2. TXI03 is the tax percent expressed as a decimal.
- 3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Loop PID

Pos: 060

Repeat: 1000

Optional

Loop: PID

Elements: N/A

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
060	PID	Product/Item Description	0	1		Must use

PID

Product/Item Description

Pos: 060 Max: 1 Detail - Optional Loop: PID Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01 349	349	Item Description Type Description: Code indicating the format of a description		ID	1/1	Must use
		Code Name Free-form				
Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PID05	352	Description Description: A free-form description to clarify the related data elements and their content The first two PID seaments will display in the	С	AN	1/80	Must use

The first two PID segments will display in the line item description fields. After that they will display in the line item notes.

On NU Internal system orders the discription should start with the internal system Reference Number, space followed by description. The internal system reference number is sent in the REF segment of the 850 with a qualifier of CR.

Syntax:

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

Semantics:

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

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 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.

REF Reference Identification

Pos: 120 Max: >1
Detail - Optional
Loop: IT1 Elements: 3

User Option (Usage): Used

To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element N	<u>ame</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All codes other than 12 will be treated as a line item note. Code Name		M	ID	2/3	Must use
		12	Billing Account				
		PK	Packing List Number				
Ref	<u>ld</u>	Element N	lement Name		Type	Min/Max	<u>Usage</u>
REF02	127	Descriptio particular T Identificatio	Account Distribution	С	AN	1/30	Must use
REF03	352	•	n n: A free-form description to clarify the related nts and their content	С	AN	1/80	Used

Syntax:

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

Semantics:

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

DTM Date/Time Reference

Pos: 150 Max: 10
Detail - Optional
Loop: IT1 Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time				
DTM02	373	Date Description: Date expressed as CCYYMMDD Will be treated as a Invoice Line Note	С	DT	8/8	Used

Syntax:

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

Loop SAC

Pos: 180 Repeat: 25 Optional

Loop: SAC Elements: N/A

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
180	SAC	Service, Promotion, Allowance, or Charge Information	0	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 180 Max: 1
Detail - Optional
Loop: SAC Elements: 4

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

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Element		•		_	_		
<u>Ref</u>	<u>ld</u>	Element N		<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
SAC01	248		e or Charge Indicator on: Code which indicates an allowance or charge	M	ID	1/1	Must use
		-	vice specified	7			
		Code	Name				
		A	Allowance				
		С	Charge				
Ref	<u>ld</u>	Element N	_	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SAC02	1300		romotion, Allowance, or Charge Code	С	ID	4/4	Used
		-	n: Code identifying the service, promotion,				
		allowance,	⁻				
		Code	Name				
		A010	Absolute Minimum Charge				
		A310	Air Express Charge				
		A320	Air Transportation Charge				
		A480 A720	Assembly Proken Backage Charge				
		B940	Broken Package Charge				
		C040	Cutting Charge Delivery				
		C690	Escalation				
		C700	Escort Service				
		C870	Expediting Fee				
		D240	Freight				
		D760	Income Freight (Manufacturing to Shipping	Point)			
		D860	Inspection Fee	, 1 0.111,			
		D920	Insurance Fee				
		E190	Labor Charges				
		E610	Messenger Service				
		F340	Pick/Up				
		F730	Priority Service				
		G140	Recurring License Fee				
		G200	Reel Deposit				
		G470	Restocking Charge				
		G620	Saturday Pick-up or Delivery Charge				
		G750	Service Upgrade				
		G830	Shipping and Handling				
		H040	Special Delivery				
		H090	Special Handling				
Ref	<u>ld</u>	Element N	<u>ame</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SAC05	610	Amount		0	N2	1/15	Used
04615	00 <i>t</i>	-	n: Monetary amount	_		0.10	
SAC12	331		e or Charge Method of Handling Code	0	ID	2/2	Used
		Descriptio	n: Code indicating method of handling for an				

30

allowance or charge

<u>Code</u>	<u>Name</u>
02	Off Invoice
06	Charge to be Daid by Cu

06 Charge to be Paid by Customer

Syntax:

- R0203 At least one of SAC02,SAC03 is required
- 2. P0304 If either SAC03,SAC04 is present, then all are required
- 3. P0607 If either SAC06, SAC07 is present, then all are required
- 4. P0910 If either SAC09, SAC10 is present, then all are required
- 5. C1110 If SAC11 is present, then all of SAC10 are required
- 6. L130204 If SAC13 is present, then at least one of SAC02,SAC04 is required
- 7. C1413 If SAC14 is present, then all of SAC13 are required
- 8. C1615 If SAC16 is present, then all of SAC15 are required

Semantics:

- 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.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. 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.
- 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.

TDS Total Monetary Value Summary

Pos: 010 Max: 1 Summary - Mandatory Loop: N/A Elements: 1

User Option (Usage): Must use

To specify the total invoice discounts and amounts

Element Summary:

 Ref
 Id
 Element Name
 Req
 Type
 Min/Max
 Usage

 TDS01
 610
 Amount
 M
 N2
 1/15
 Must use

Description: Monetary amount

Semantics:

- 1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2. TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

TXI Tax Information

Pos: 020 Max: 10 Summary - Optional Loop: N/A Elements: 2

User Option (Usage): Used

To specify tax information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
TXI01	963	Tax Type Code	M	ID	2/2	Must use
		Description: Code specifying the type of tax				
TXI02	782	Monetary Amount	С	R	1/18	Used
		Description: Monetary amount				

Syntax:

- 1. R020306 At least one of TXI02,TXI03,TXI06 is required
- 2. P0405 If either TXI04,TXI05 is present, then all are required
- 3. C0803 If TXI08 is present, then all of TXI03 are required

Semantics:

- 1. TXI02 is the monetary amount of the tax.
- 2. TXI03 is the tax percent expressed as a decimal.
- 3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

CAD Carrier Detail

Pos: 030 Max: 1 Summary - Optional Loop: N/A Elements: 3

User Option (Usage): Used

To specify transportation details for the transaction

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
CAD04	140	Standard Carrier Alpha Code Description: Standard Carrier Alpha Code	С	ID	2/4	Used
CAD07	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	0	ID	2/3	Used
		Code Name				
		CN Carrier's Reference Number (PRO/Invoice)				
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
CAD08	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	С	AN	1/30	Used

Syntax:

- 1. R0504 At least one of CAD05,CAD04 is required
- 2. C0708 If CAD07 is present, then all of CAD08 are required

Loop SAC

Pos: 040 Repeat: 25 Optional

Loop: SAC Elements: N/A

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
040	SAC	Service, Promotion, Allowance, or Charge Information	0	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 040 Max: 1 Summary - Optional Loop: SAC Elements: 4

User Option (Usage): Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

Lieilleilt	Juillin	aiy.					
<u>Ref</u>	<u>ld</u>	Element N	<u>ame</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SAC01	248		or Charge Indicator	M	ID	1/1	Must use
		-	n: Code which indicates an allowance or charge				
			vice specified				
		<u>Code</u>	<u>Name</u>				
		A	Allowance				
		С	Charge				
<u>Ref</u>	<u>ld</u>	Element N		<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
SAC02	1300	Service, Promotion, Allowance, or Charge Code		С	ID	4/4	Used
		allowance,	on: Code identifying the service, promotion,				
		Code	Name				
		A010	Absolute Minimum Charge				
		A310	Air Express Charge				
		A320	Air Transportation Charge				
		A480	Assembly				
		A720	Broken Package Charge				
		B940	Cutting Charge				
		C040	Delivery				
		C690	Escalation				
		C700	Escort Service				
		C870	Expediting Fee				
		D240	Freight				
		D760	Income Freight (Manufacturing to Shipping	Point)			
		D860	Inspection Fee	i Onity			
		D920	Insurance Fee				
		E190	Labor Charges				
		E610	Messenger Service				
		F340	Pick/Up				
		F730	Priority Service				
		G140	Recurring License Fee				
		G200	Reel Deposit				
		G470	Restocking Charge				
		G620	Saturday Pick-up or Delivery Charge				
		G750	Service Upgrade				
		G830	Shipping and Handling				
		H040	Special Delivery				
		H090	Special Handling				
Ref	<u>ld</u>	Element N		Req	<u>Type</u>	Min/Max	<u>Usage</u>
SAC05	610	Amount	- 	0	N2	1/15	Used
	-		n: Monetary amount	-		-	
SAC12	331		or Charge Method of Handling Code	0	ID	2/2	Used
		Descriptio	n: Code indicating method of handling for an				
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allowance or charge

<u>Code</u>	<u>Name</u>
02	Off Invoice
06	Charge to be Daid by

O6 Charge to be Paid by Customer

Syntax:

- 1. R0203 At least one of SAC02, SAC03 is required
- 2. P0304 If either SAC03,SAC04 is present, then all are required
- 3. P0607 If either SAC06, SAC07 is present, then all are required
- 4. P0910 If either SAC09, SAC10 is present, then all are required
- 5. C1110 If SAC11 is present, then all of SAC10 are required
- 6. L130204 If SAC13 is present, then at least one of SAC02,SAC04 is required
- 7. C1413 If SAC14 is present, then all of SAC13 are required
- 8. C1615 If SAC16 is present, then all of SAC15 are required

Semantics:

- 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.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. 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.
- 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.

CTT Transaction Totals

Pos: 070 Max: 1 Summary - Optional Loop: N/A Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				
CTT02	347	Hash Total	0	R	1/10	Used
		Description: Sum of values of the specified data element.				
		All values in the data element will be summed without				
		regard to decimal points (explicit or implicit) or signs.				
		Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data				
		element.Example:0018 First occurrence of value				
		beinghashed18 Second occurrence of value				
		beinghashed.1.8 Third occurrence of value				
		beinghashed.18.01 Fourth occurrence of value				
		beinghashed1855 Hash total prior to truncation.855				
		Hash total after truncation tothree-digit field.				

Syntax:

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

Comments:

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

SE Transaction Set Trailer

Pos: 080 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Must use

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

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

Comments:

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

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

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

Semantics:

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

Comments:

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

IEA

Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	М	N0	1/5	Must use
IEA02	l12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use