

# Arch Wireless Level 3 with SLN Implementation Guide

X12/V4010/810: 810 Invoice

**Version: 1.0 Final**

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**Publication:**

**Notes:** This Implementation Guide provides summed charges at a Non-Unit Level with supporting detail information for the summed charges.  
Bill Customer  
Holder Name  
PO Number  
Cost Center



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**810****Invoice****Functional Group=IN****Not Defined:**

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

**Heading:**

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

<u>LOOP ID - N1</u>			<u>200</u>				
070	N1	Name	O	1			Used
080	N2	Additional Name Information	O	2			Used
090	N3	Address Information	O	2			Used
100	N4	Geographic Location	O	1			Used
110	REF	Reference Identification	O	12			Used
140	DTM	Date/Time Reference	O	10			Used
212	BAL	Balance Detail	O	>1			Used

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<u>LOOP ID - IT1</u>			<u>200000</u>				
010	IT1	Baseline Item Data (Invoice)	O	1			Used
040	TXI	Tax Information	O	10			Used
<u>LOOP ID - SLN</u>			<u>1000</u>				
200	SLN	Subline Item Detail	O	1			Used
205	DTM	Date/Time Reference	O	1			Used
210	REF	Reference Identification	O	>1			Used
220	PID	Product/Item Description	O	1000			Used
237	TXI	Tax Information	O	10			Used
<u>LOOP ID - N1</u>			<u>200</u>				
240	N1	Name	O	1			Used
270	N4	Geographic Location	O	1			Used
280	REF	Reference Identification	O	12			Used

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must use
020	TXI	Tax Information	O	10			Used
070	CTT	Transaction Totals	O	1		N3/070	Used



080	SE	Transaction Set Trailer	M	1	Must use
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**Not Defined:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	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 Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	<b>Authorization Information Qualifier</b> <b>Description:</b> Code identifying the type of information in the Authorization Information <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA02	I02	<b>Authorization Information</b> <b>Description:</b> 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)	M	AN	10/10	Must use
ISA03	I03	<b>Security Information Qualifier</b> <b>Description:</b> Code identifying the type of information in the Security Information <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA04	I04	<b>Security Information</b> <b>Description:</b> 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)	M	AN	10/10	Must use
ISA05	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA06	I06	<b>Interchange Sender ID</b> <b>Description:</b> 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 <b>User Note 1: Production - EDIWIRELESS Test - EDIWIRELESSTEST</b>	M	AN	15/15	Must use
ISA07	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA08	I07	<b>Interchange Receiver ID</b> <b>Description:</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as	M	AN	15/15	Must use

		a receiving ID to route data to them				
ISA09	I08	<b>Interchange Date</b> <b>Description:</b> Date of the interchange	M	DT	6/6	Must use
ISA10	I09	<b>Interchange Time</b> <b>Description:</b> Time of the interchange	M	TM	4/4	Must use
ISA11	I65	<b>Repetition Separator</b> <b>Description:</b> Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M		1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b> <b>Description:</b> Code specifying the version number of the interchange control segments <b>All valid standard codes are used.</b>	M	ID	5/5	Must use
ISA13	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	<b>Acknowledgment Requested</b> <b>Description:</b> Code indicating sender's request for an interchange acknowledgment <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
ISA15	I14	<b>Interchange Usage Indicator</b> <b>Description:</b> Code indicating whether data enclosed by this interchange envelope is test, production or information <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
ISA16	I15	<b>Component Element Separator</b> <b>Description:</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	<b>Functional Identifier Code</b> <b>Description:</b> Code identifying a group of application related transaction sets <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> <b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> <b>Description:</b> Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> <b>Description:</b> Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> <b>Description:</b> 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 <b>Code</b> <b>Name</b>	M	AN	1/12	Must use



004010 Standards Approved for Publication by ASC X12 Procedures Review Board

**Semantics:**

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:

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

## Semantics:

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



# 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
BIG01	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use				
BIG02	76	<b>Invoice Number</b> <b>Description:</b> Identifying number assigned by issuer	M	AN	1/22	Must use				
BIG07	640	<b>Transaction Type Code</b> <b>Description:</b> Code specifying the type of transaction	O	ID	2/2	Used				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>DI</td><td>Debit Invoice</td></tr></table>	<u>Code</u>	<u>Name</u>	DI	Debit Invoice				
<u>Code</u>	<u>Name</u>									
DI	Debit Invoice									
BIG08	353	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set	O	ID	2/2	Used				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>00</td><td>Original</td></tr></table>	<u>Code</u>	<u>Name</u>	00	Original				
<u>Code</u>	<u>Name</u>									
00	Original									

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b><u>Code</u></b> <b><u>Name</u></b>				
		IK      Invoice Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

## 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: 3

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Must use
		<b>Code</b> <b>Name</b>				
		BI      Bill Inquiry Contact				
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number	X	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		TE      Telephone				
		UR      Uniform Resource Locator (URL)				
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used

## Syntax:

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



# Loop N1

Pos: 070	Repeat: 200
Optional	
Loop: N1	Elements: N/A

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	N1	Name	O	1		Used
080	N2	Additional Name Information	O	2		Used
090	N3	Address Information	O	2		Used
100	N4	Geographic Location	O	1		Used
110	REF	Reference Identification	O	12		Used

**N1****Name**

<b>Pos: 070</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

**User Option (Usage):** Used

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>RI</td><td>Remit To</td></tr><tr><td>ST</td><td>Ship To</td></tr></table>	<u>Code</u>	<u>Name</u>	RI	Remit To	ST	Ship To	M	ID	2/3	Must use
<u>Code</u>	<u>Name</u>											
RI	Remit To											
ST	Ship To											
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Used						
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>	X	ID	1/2	Used						
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used						
N105	706	<b>Entity Relationship Code</b> <b>Description:</b> Code describing entity relationship <b>All valid standard codes are used.</b>	O	ID	2/2	Used						
N106	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	O	ID	2/3	Used						

**Syntax:**

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

**Comments:**

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

**N2**

## Additional Name Information

Pos: 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>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	<b>Name</b> <b>Description:</b> Free-form name	M	AN	1/60	Must use
N202	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used



# 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:

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





# 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:

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

## Syntax:

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

## Comments:

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



# REF Reference Identification

Pos: 110	Max: 12
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b><u>Code</u></b> <b><u>Name</u></b>				
		11      Account Number				
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

## 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: 140	Max: 10
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>186</td><td>Invoice Period Start</td></tr><tr><td>187</td><td>Invoice Period End</td></tr></table>	<u>Code</u>	<u>Name</u>	186	Invoice Period Start	187	Invoice Period End				
<u>Code</u>	<u>Name</u>											
186	Invoice Period Start											
187	Invoice Period End											
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used						
DTM05	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format	X	ID	2/3	Used						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>D8</td><td>Date Expressed in Format CCYYMMDD</td></tr></table>	<u>Code</u>	<u>Name</u>	D8	Date Expressed in Format CCYYMMDD						
<u>Code</u>	<u>Name</u>											
D8	Date Expressed in Format CCYYMMDD											

## 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



# BAL Balance Detail

Pos: 212	Max: >1
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

To identify the specific monetary balances associated with a particular account

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																														
BAL01	951	<b>Balance Type Code</b> <b>Description:</b> Code indicating the type of balance	M	ID	1/2	Must use																														
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A</td><td>Adjustment</td></tr><tr><td>M</td><td>Current Month</td></tr><tr><td>Y</td><td>Year to Date</td></tr></table>	<u>Code</u>	<u>Name</u>	A	Adjustment	M	Current Month	Y	Year to Date																										
<u>Code</u>	<u>Name</u>																																			
A	Adjustment																																			
M	Current Month																																			
Y	Year to Date																																			
BAL02	522	<b>Amount Qualifier Code</b> <b>Description:</b> Code to qualify amount	M	ID	1/3	Must use																														
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>5</td><td>Total Invoice Amount</td></tr><tr><td>BD</td><td>Balance Due</td></tr><tr><td>BM</td><td>Adjustments</td></tr><tr><td>GZ</td><td>Total Finance Charge</td></tr><tr><td>J8</td><td>Ending Balance</td></tr><tr><td>J9</td><td>Beginning Balance</td></tr><tr><td>PB</td><td>Billed Amount</td></tr><tr><td>PJ</td><td>Past Due</td></tr><tr><td>RT</td><td>Last Payment</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr><tr><td>AAN</td><td>Tax-Federal</td></tr><tr><td>AAO</td><td>Tax-Local</td></tr><tr><td>AAP</td><td>Tax-State</td></tr><tr><td>BAP</td><td>Total Amount Due</td></tr></table>	<u>Code</u>	<u>Name</u>	5	Total Invoice Amount	BD	Balance Due	BM	Adjustments	GZ	Total Finance Charge	J8	Ending Balance	J9	Beginning Balance	PB	Billed Amount	PJ	Past Due	RT	Last Payment	ZZ	Mutually Defined	AAN	Tax-Federal	AAO	Tax-Local	AAP	Tax-State	BAP	Total Amount Due				
<u>Code</u>	<u>Name</u>																																			
5	Total Invoice Amount																																			
BD	Balance Due																																			
BM	Adjustments																																			
GZ	Total Finance Charge																																			
J8	Ending Balance																																			
J9	Beginning Balance																																			
PB	Billed Amount																																			
PJ	Past Due																																			
RT	Last Payment																																			
ZZ	Mutually Defined																																			
AAN	Tax-Federal																																			
AAO	Tax-Local																																			
AAP	Tax-State																																			
BAP	Total Amount Due																																			
BAL03	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	M	R	1/18	Must use																														



# 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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	IT1	Baseline Item Data (Invoice)	O	1		Used
040	TXI	Tax Information	O	10		Used
200		Loop SLN	O		1000	Used
240		Loop N1	O		200	Used

**IT1****Baseline Item Data (Invoice)**

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 6

**User Option (Usage):** Used

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT101	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used				
IT102	358	<b>Quantity Invoiced</b> <b>Description:</b> Number of units invoiced (supplier units)	X	R	1/10	Used				
IT103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>EA</td><td>Each</td></tr></table>	<u>Code</u>	<u>Name</u>	EA	Each	X	ID	2/2	Used
<u>Code</u>	<u>Name</u>									
EA	Each									
IT104	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	X	R	1/17	Used				
IT106	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined	X	ID	2/2	Used
<u>Code</u>	<u>Name</u>									
ZZ	Mutually Defined									
IT107	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service <div><b>User Note 1:</b> The value is determined by your sort and/or summation option. <b>User Note 2:</b> If this value is not available, "Not Avail" will be the default unless another value is agreed upon.</div>	X	AN	1/48	Used				

**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:**

1. 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use								
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>FT</td><td>Federal Excise Tax</td></tr><tr><td>LO</td><td>Local Tax (Not Sales Tax)</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr></table>	<u>Code</u>	<u>Name</u>	FT	Federal Excise Tax	LO	Local Tax (Not Sales Tax)	ST	State Sales Tax				
<u>Code</u>	<u>Name</u>													
FT	Federal Excise Tax													
LO	Local Tax (Not Sales Tax)													
ST	State Sales Tax													
TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	X	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 SLN

Pos: 200	Repeat: 1000
Optional	
Loop: SLN	Elements: N/A

To specify product subline detail item data

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
200	SLN	Subline Item Detail	O	1		Used
205	DTM	Date/Time Reference	O	1		Used
210	REF	Reference Identification	O	>1		Used
220	PID	Product/Item Description	O	1000		Used
237	TXI	Tax Information	O	10		Used



# SLN Subline Item Detail

Pos: 200	Max: 1
Detail - Optional	
Loop: SLN	Elements: 26

User Option (Usage): Used

To specify product subline detail item data

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
SLN01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Must use				
SLN02	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used				
SLN03	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities	M	ID	1/1	Must use				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>O</td><td>Information Only</td></tr></table>	<u>Code</u>	<u>Name</u>	O	Information Only				
<u>Code</u>	<u>Name</u>									
O	Information Only									
SLN04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used				
SLN05	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used				
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use				
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used				
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used				
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used				
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used				
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used				

	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
SLN06	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	X	R	1/17	Used
SLN09	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		VP      Vendor's (Seller's) Part Number				
SLN10	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN11	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		ZP      Pager Phone Number				
SLN12	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN13	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		ZO      Pager Pin Number				
SLN14	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN15	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the	X	ID	2/2	Used



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

		<u>Code</u>	<u>Name</u>				
		SN	Serial Number				
SLN16	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN17	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		ZC	Cap Code				
SLN18	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN19	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		ZS	RCC Number				
SLN20	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN21	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		RZ	Related Model Type				
SLN22	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN23	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		EJ	Service Feature ID				
SLN24	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN25	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				
		CR	Contract Number				
SLN26	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					
SLN27	235	<b>Product/Service ID Qualifier</b>		X	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u>	<u>Name</u>				



		ZZ	Mutually Defined				
SLN28	234	<b>Product/Service ID</b>		X	AN	1/48	Used
		<b>Description:</b> Identifying number for a product or service					

**Syntax:**

1. P0405 - If either SLN04,SLN05 is present, then all are required
2. C0706 - If SLN07 is present, then all of SLN06 are required
3. C0806 - If SLN08 is present, then all of SLN06 are required
4. P0910 - If either SLN09,SLN10 is present, then all are required
5. P1112 - If either SLN11,SLN12 is present, then all are required
6. P1314 - If either SLN13,SLN14 is present, then all are required
7. P1516 - If either SLN15,SLN16 is present, then all are required
8. P1718 - If either SLN17,SLN18 is present, then all are required
9. P1920 - If either SLN19,SLN20 is present, then all are required
10. P2122 - If either SLN21,SLN22 is present, then all are required
11. P2324 - If either SLN23,SLN24 is present, then all are required
12. P2526 - If either SLN25,SLN26 is present, then all are required
13. P2728 - If either SLN27,SLN28 is present, then all are required

**Semantics:**

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

1. See the Data Element Dictionary for a complete list of IDs.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.



# DTM Date/Time Reference

Pos: 205	Max: 1
Detail - Optional	
Loop: SLN	Elements: 2

User Option (Usage): Used

To specify pertinent dates and times

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Must use						
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>186</td><td>Invoice Period Start</td></tr><tr><td>187</td><td>Invoice Period End</td></tr></table>	<u>Code</u>	<u>Name</u>	186	Invoice Period Start	187	Invoice Period End				
<u>Code</u>	<u>Name</u>											
186	Invoice Period Start											
187	Invoice Period End											
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used						

## Syntax:

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



# REF Reference Identification

Pos: 210	Max: >1
Detail - Optional	
Loop: SLN	Elements: 2

User Option (Usage): Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b>				
		PO      Purchase Order Number				
		RR2      Customer Service Reference				
		RR3      Partner Service Reference				
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

## Syntax:

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

## Semantics:

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



# PID Product/Item Description

Pos: 220	Max: 1000
Detail - Optional	
Loop: SLN	Elements: 6

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description	M	ID	1/1	Must use
		<b>Code</b> <b>Name</b>				
		F      Free-form				
PID03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values	X	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		ZZ      Mutually Defined				
PID04	751	<b>Product Description Code</b> <b>Description:</b> A code from an industry code list which provides specific data about a product characteristic	X	AN	1/12	Used
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
PID06	752	<b>Surface/Layer/Position Code</b> <b>Description:</b> Code indicating the product surface, layer or position that is being described	O	ID	2/2	Used
		<b>Code</b> <b>Name</b>				
		ZZ      Mutually Defined				
PID07	822	<b>Source Subqualifier</b> <b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier	O	AN	1/15	Used

## Syntax:

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

## Semantics:

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





**Comments:**

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



# TXI Tax Information

Pos: 237	Max: 10
Detail - Optional	
Loop: SLN	Elements: 2

User Option (Usage): Used

To specify tax information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use								
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>FT</td><td>Federal Excise Tax</td></tr><tr><td>LO</td><td>Local Tax (Not Sales Tax)</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr></table>	<u>Code</u>	<u>Name</u>	FT	Federal Excise Tax	LO	Local Tax (Not Sales Tax)	ST	State Sales Tax				
<u>Code</u>	<u>Name</u>													
FT	Federal Excise Tax													
LO	Local Tax (Not Sales Tax)													
ST	State Sales Tax													
TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	X	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 N1

Pos: 240	Repeat: 200
Optional	
Loop: N1	Elements: N/A

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

## Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
240	N1	Name	O	1		Used
270	N4	Geographic Location	O	1		Used
280	REF	Reference Identification	O	12		Used

**N1****Name**

<b>Pos: 240</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

**User Option (Usage):** Used

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

**Element Summary:**

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b>				
		OW      Owner of Property or Unit				
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Used

**Syntax:**

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

**Comments:**

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



# N4 Geographic Location

Pos: 270	Max: 1
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

To specify the geographic place of the named party

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used

## 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.



# REF Reference Identification

Pos: 280	Max: 12
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

To specify identifying information

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification	M	ID	2/3	Must use
		<b>Code</b> <b>Name</b>				
		JD      User Identification				
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

## Syntax:

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

## Semantics:

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



# TDS Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 4

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

To specify the total invoice discounts and amounts

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	<b>Amount</b> <b>Description:</b> Monetary amount	M	N2	1/15	Must use
TDS02	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Used
TDS03	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Used
TDS04	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Used

## 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
TXI01	963	<b>Tax Type Code</b> <b>Description:</b> Code specifying the type of tax	M	ID	2/2	Must use								
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>FT</td><td>Federal Excise Tax</td></tr><tr><td>LO</td><td>Local Tax (Not Sales Tax)</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr></table>	<u>Code</u>	<u>Name</u>	FT	Federal Excise Tax	LO	Local Tax (Not Sales Tax)	ST	State Sales Tax				
<u>Code</u>	<u>Name</u>													
FT	Federal Excise Tax													
LO	Local Tax (Not Sales Tax)													
ST	State Sales Tax													
TXI02	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	X	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.





# CTT Transaction Totals

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

User Option (Usage): Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	N0	1/6	Must use
CTT02	347	<b>Hash Total</b> <b>Description:</b> 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.	O	R	1/10	Used

## 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:

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

## Comments:

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	<b>Number of Transaction Sets Included</b> <b>Description:</b> 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	<b>Group Control Number</b> <b>Description:</b> 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	<b>Number of Included Functional Groups</b> <b>Description:</b> A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	N0	9/9	Must use