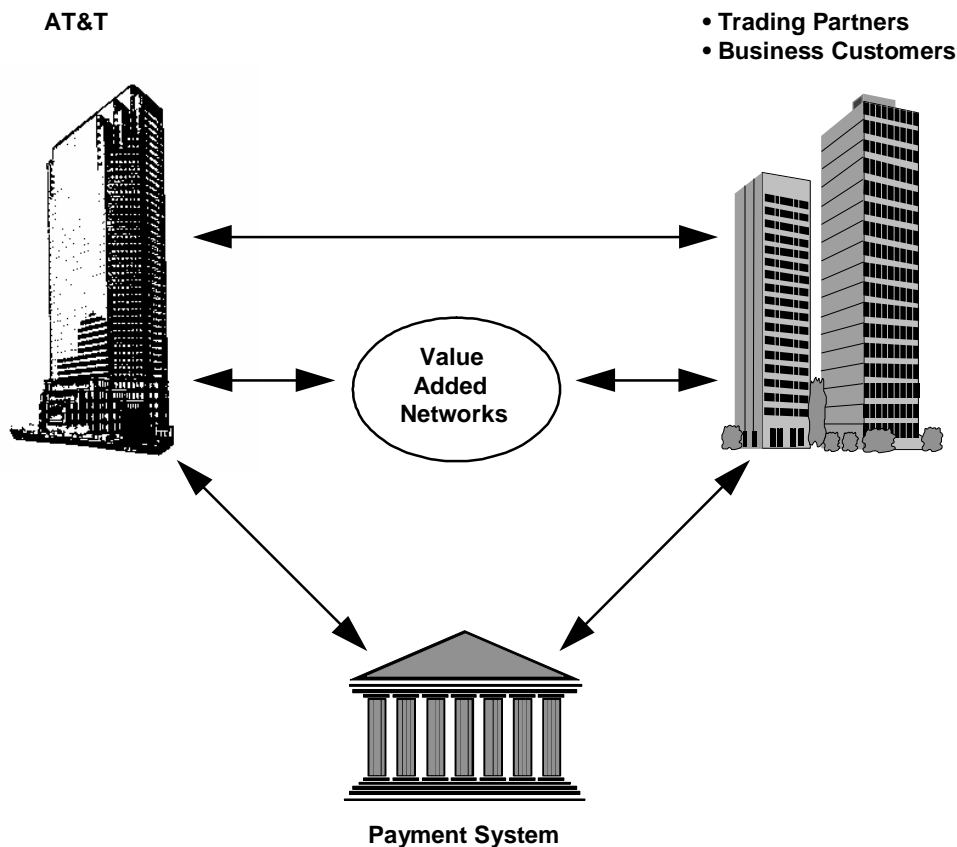




Electronic Commerce Customer Guide

811 Transaction Set (Version/Release 004010)

Electronic Data Interchange - Electronic Funds Transfer



Building Electronic Partnerships For The Future...Today

Release: February 2010

1 Overview

The 811 presentation within this guide is derived from the Telecommunications Industry presentation of the 811 transaction set. The Ordering and Billing Forum (OBF) EDI Telecommunications Billing (ETB) Guidelines can be viewed at the following website http://www.atis.org/obf/etbguid_Iss9_Rev3.asp

View the Issue 9 documents. Section 7 is a Business Models overview which provides information related to the 811 transaction set structure, use of hierarchical loops and segments, along with summing rules for balancing the transaction set. Section 10.4 is the data element code list used by ETB. Section 10.7 is the industry presentation of the 811 transaction set.

1.1 Establish Trading Partner

Receipt of the Trading Partner Profile initiates the establishment of the trading partner relationship. Connectivity must be verified with the receiving company. The trading information (ISA/GS identifiers) and delivery options are defined within the AT&T process. The customer's accounts are identified for EDI processing and established on EDI. The timeframe for completion of these activities is 30 to 90 days from receipt of the Trading Partner Profile.

1.2 Letter of Agency (LOA)

AT&T requires a letter of agency from any customer that is requesting delivery of their EDI bills to a vendor rather than a customer location. The EDI bills will be sent to the vendor once the trading partner relationship has been established.

If a customer changes vendors, EDI bills will be sent to the new vendor once AT&T establishes the trading partner relationship with that vendor. As mentioned in sub-section 1.1 above, this is a 30 to 90 day process. If an EDI cancellation request is not submitted by the previous vendor, EDI bills will continue to be sent to the previous vendor up until the time the trading partner relationship is established with the new vendor. The new vendor will not be able to receive any customer EDI bills processed prior to AT&T establishing the trading partner relationship with the new vendor.

1.3 Notification of Changes

Telecommunications bills are dynamic documents. AT&T provides a 30 day notification to the customer regarding EDI Billing revisions and this guide is updated to reflect those revisions. The revisions may or may not require customer software changes.

AT&T may not implement a new 811 version/release every time the ASC X12 committee issues a new version or release of the 811 transaction set. When AT&T changes to a new ASC X12 version/ release of the 811 transaction set, the previous version/release is discontinued after an interval in which customers are asked to migrate to the new version/release.

1.4 Data Element Separator and Segment Terminator

In live production data, AT&T will work with the customer to set up the data element separator, segment terminator and sub-element separator. The X12 recommended data element separator of the tilde ("~" HEX A1), segment terminator of the exclamation point ("!" HEX 5A) and sub-element separator of the double vertical bar (" | " HEX 6A) are preferred.

2 Summary and Detail 811's

Several different bill formats and several different 811 formats are provided. It is important to be aware of which *bill format* and *811 format* you have chosen to receive.

2.1 Bill Formats Provided

Accounts can be set up in one of three arrangements described below.

- **Single Account Billing**
This billing arrangement produces one bill per telephone number.
- **Group Billing Account**
This billing arrangement combines several single accounts under one main account number and produces one large bill.
- **Consolidated Billing Account (CBA)**
This billing arrangement can be used in conjunction with both Single Accounts and Group Billing Accounts. Single Accounts and/or Group Billing Accounts are consolidated under a single CBA number. This produces a special summary 811 of all accounts in the arrangement, followed by a separate 811 for each subordinate account. More information regarding this bill format can be found in Section 3 of this guide.

2.2 811 Formats Provided

The 811 is provided in one of the following formats:

- **Summary 811**
 - Accounts Payable 811
 - Carrier Summary 811
 - Consolidated Billing Account (CBA) Summary 811
- **Detail 811**
 - Without Customer Service Record
 - With Customer Service Record

While the heading and summary areas of these formats are identical, the detail areas differ in the level of detail provided.

2.2.1 Summary 811s

The *Summary 811* formats provide high level account information. The advantages of these formats are a less complex programming effort and lower VAN charges. Summary information is provided within HLs 1 - 4.

The Accounts Payable 811 provides a summary of taxes by tax type and a single charge amount for all other current charges (including surcharges). Charges and taxes are not broken out by carrier. This is the smallest and simplest 811 provided.

The Carrier Summary 811 provides a break out of charges (including surcharges) by carrier. It also provides a break out of taxes by tax type within each carrier. The billing information provided is very similar to the carrier summary pages of a paper bill. While this option does not provide as much information as a Detail 811, it provides more information than the Accounts Payable 811.

The Consolidated Billing Account (CBA) Summary 811 provides the bill for the Master consolidated account, but does not provide the 'memo' bills for each of the subordinate accounts.

2.2.2 Detail 811s

The *Detail 811* formats provide supporting information for many charges. The key advantage of these full detail formats is more billing information to analyze. While summary information is provided within HLs 1 - 4, full detail information is provided at HLs 5 - 9.

The Detail 811 without Customer Service Record provides the same level of billing detail that is currently provided on a paper bill.

The Detail 811 with Customer Service Record provides additional detail in support of monthly service charges. It is estimated that the additional Customer Service Record adds approximately 40% to the size of each 811. When the Customer Service Record information is included in the 811, the 864 transaction set will accompany the 811 transaction set.

3 Consolidated Billing Account (CBA)

The Consolidated Master 811 which is the special summary 811 of all accounts in the Consolidated Billing Account (CBA) arrangement referenced in Section 2.1 of this guide is very similar to single account 811. The exceptions in the Heading and Summary areas of the 811 are noted below:

3.1 Heading Area

- The Consolidated Billing Account (CBA) number (from the consolidated master 811) may be used for payment. Subordinate account information is provided in a Subordinate 811 (this is also referred to as a "Memo 811").
- For a Consolidated Master 811, BIG07 may have the value of "CD" (Consolidated Debit Invoice), "CE" (Consolidated Credit Invoice), "FD" (Consolidated Invoice, Final Bill), "CF" (Consolidated Debit Memo), "CG" (Consolidated Credit Memo) or "FE" (Memorandum, Final Bill).
- For a Subordinate 811, BIG07 may have the value of "DR" (Debit Memo), "CR" (Credit Memo), "FE" (Memorandum, Final Bill) or "ME" (Memorandum (indicates a zero balance)).
- The ITD segment (to convey terms of sale and the due date) will be produced as normal for the Consolidated Master 811 Invoice. It is not provided for the Consolidated Master 811 Memo or the Subordinate 811.
- TXI segments depicting the tax exempt status of an account will not be provided in the Heading Area of the Consolidated Master 811 Invoice or Memo. These segments are provided in the Heading Area of each Subordinate 811 if needed.
- There will be REF segments in the Heading Area of the Consolidated Master 811 with REF01 = "12" (Billing Account) and REF01 = "AP" (Accounts Receivable Number). This is consistent with all other 811 formats provided by AT&T.
- A Consolidated Billing Account Summary is provided at HL4 where IT107 = 2050 (Total Amount Billed (for Summary/Consolidated Billing Only)) of the Consolidated Master 811. The Subordinate Account number will appear as a SI pair within this HL4.
- If there is detailed billing information associated with the Consolidated Master 811 itself (other charges and credits or miscellaneous charges), this information will be provided at HL4 using the usual IT107 values.
- For each Subordinate 811, there will be a REF segment in the Heading Area with REF01 = "14" (Master Account Number) to indicate the Consolidated Billing Account (CBA) number. The REF segments with REF01 = "12" (Billing Account) and REF01 = '14' (Accounts Receivable Number) are not provided for the Subordinate 811.

3.2 Summary Area

- The BAL segment with BAL02 = "TT" (Total Transaction Amount) is produced as normal for the Consolidated Master 811 Invoice. It is not provided for the Consolidated Master 811 Memo or the Subordinate 811.
- The N1 loop containing the N1 segment with N101 = "87" (Pay-to Provider) and BAL segment with BAL02 = "MD" (Minimum Due) is produced as normal for the Consolidated Master 811 Invoice. It is not provided for the Consolidated Master 811 Memo or the Subordinate 811.

4 Technical Specifications

Detail Area hierarchy structure starting with HL4

Monthly Service/Customer Service Record	Other Charges and Credits/ Additions and Changes	Itemized Calls/Optional Calling Plans
HL4	HL4	HL4
IT1 (SV 0200, ZZ 1)	IT1 (SV 0400, ZZ 2)	IT1 (SV 0500, ZZ 3)
DTM		ITA
HL8 (4) HL5 (4)	HL5 (4)	HL5 (4)
SLN LX	LX	LX
SI SI	REF	SI
PID HL8 (5)	DTM	QTY
SLN	HL6 (5)	SI
SI	LX	HL9 (5) HL6 (5) HL8 (5) HL8(5)
PID	SI	TCD NM1 SLN SLN
REF	HL8 (6)	SI PER SI SI
DTM	SLN	TXI HL9 (5 or 6) PID PID
QTY	SI	QTY TCD QTY QTY
NM1	PID	USD SI HL9(8)
	INC	SI TXI USD
	REF	QTY
	DTM	
	AMT	
	QTY	



Itemized Charges/Credits	Usage	Measured Service
HL4	HL4	HL4
IT1(SV 0520, ZZ 2)	IT1 (SV 0700, ZZ 3)	IT1 (SV 0705, ZZ 3)
		ITA
HL5 (4)	HL5 (4) HL8 (4) HL8(4) HL5(4)	HL5 (4)
LX	LX SLN SLN LX	LX
SI	SI SI SI QTY	SI
REF	HL8 (5) PID PID SI	HL8 (5) HL8 (5) HL9 (5)
HL8 (5) HL6 (5)	SLN HL9 (8) ITA	SLN SLN TCD
SLN NM1	SI USD	SI PID SI
SI PER		HL9 (8)
PID HL8 (6)		USD
ITA SLN		SI
TXI SI		HL9 (5)
REF PID		USD
DTM ITA		SI
AMT TXI		QTY
QTY REF		
NM1 DTM		
N3 AMT		
N4 QTY		
NM1		
N3		
N4		



Directory Assistance	WATS			Non-Voice Service
HL4	HL4			HL4
IT1 (SV 0900, ZZ 3)	IT1 (SV 1000, ZZ 3)			IT1 (SV 1600, ZZ 2)
HL5 (4)	HL5 (4)	HL5 (4)	HL5 (4)	HL8 (4)
LX	LX	LX	LX	SLN
SI	SI	SI	SI	SI
HL8 (5)	HL8 (5)	HL8 (5)	QTY	PID
SLN	SLN	SLN	SI	
SI	SI	SI		
DTM	HL9 (8)	ITA		
QTY	USD			
	SI			
	TRF			
	QTY			

Customized Billing Service	800 Common Line			Miscellaneous
HL4	HL4			HL4
IT1 (SV 1710, ZZ 2)	IT1 (SV 1880, ZZ 3)			IT1 (SV 1740, ZZ 2)
HL8 (4)	HL5 (4)			HL8 (4)
SLN	LX			SLN
SI	SI			SI
PID	HL8 (5)	HL6 (5)	HL8 (5)	PID
QTY	SLN	LX	SLN	DTM
	SI	SI	SI	
	DTM	QTY	ITA	
	QTY	SI		
	HL9 (8)	HL9 (6)		
	USD	TCD		
		SI		



Contracts/Discounts	Consolidated Billing Account
HL4	HL4
IT1 (SV 2110, ZZ 2)	<i>For each subordinate:</i>
	IT1 (SV 2050, ZZ 4)
HL8 (4)	SI
SLN	REF
SI	
PID	Note: If charges are applicable
DTM	to the CBA, the structure will
	follow one of the paths beginning
	with IT1 that are already presented.

811 Consolidated Service Invoice/Statement

Functional Group ID=**CI**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Consolidated Service Invoice/Statement Transaction Set (811) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides for the billing or reporting of complex and structured service invoice/statement detail. This standard can be used by organizations who are interested in sending or receiving either consolidated or standalone invoices for service arrangements which require processing other than that done for the typical product invoice. The Consolidated Service Invoice/Statement can be used as a credit/debit memo to differentiate between payable invoice items and information-only memo items. This transaction set should not be used as a standalone notification of a credit/debit adjustment.

Notes:

Only the segments and data elements that are provided by our implementation of this transaction set are printed. While we do provide all X12 syntax notes and semantic notes associated with segments we generate in this documentation, notes about unused data elements do not impact our implementation. Please ignore any notes or comments related to data elements that are not provided.

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BIG	Beginning Segment for Invoice	M	1		
Not Used	030	NTE	Note/Special Instruction	O	100		
Not Used	040	CUR	Currency	O	1		
	050	REF	Reference Identification	O	>1		
Not Used	060	PER	Administrative Communications Contact	O	3		
	070	ITD	Terms of Sale/Deferred Terms of Sale	O	5		
	080	DTM	Date/Time Reference	O	10		
	090	TXI	Tax Information	O	>1		
LOOP ID - N1						>1	
	100	N1	Name	O	1		
	110	N2	Additional Name Information	O	2		
	120	N3	Address Information	O	2		
	130	N4	Geographic Location	O	1		
	140	REF	Reference Identification	O	12		
Not Used	150	PER	Administrative Communications Contact	O	3		
Not Used	155	DMG	Demographic Information	O	1		
LOOP ID - FA1						>1	
Not Used	170	FA1	Type of Financial Accounting Data	O	1		
Not Used	180	FA2	Accounting Data	M	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			>1	
M	010	HL	Hierarchical Level	M	1		n1
			LOOP ID - LX			>1	
	020	LX	Assigned Number	O	1		
Not Used	025	VEH	Vehicle Information	O	1		
	030	SI	Service Characteristic Identification	O	8		
Not Used	040	PID	Product/Item Description	O	200		
Not Used	045	MEA	Measurements	O	20		
	050	REF	Reference Identification	O	>1		
	060	AMT	Monetary Amount	O	5		
	070	DTM	Date/Time Reference	O	8		
Not Used	080	TXI	Tax Information	O	>1		
			LOOP ID - QTY			10	
	090	QTY	Quantity	O	1		
	100	SI	Service Characteristic Identification	O	1		
			LOOP ID - NM1			1	
	110	NM1	Individual or Organizational Name	O	1		n2
Not Used	120	N2	Additional Name Information	O	2		
Not Used	130	N3	Address Information	O	2		
Not Used	140	N4	Geographic Location	O	1		
	150	REF	Reference Identification	O	2		
	160	PER	Administrative Communications Contact	O	>1		
	170	TXI	Tax Information	O	>1		
Not Used	175	DMG	Demographic Information	O	1		
			LOOP ID - ITA			>1	
	180	ITA	Allowance, Charge or Service	O	1		
Not Used	190	DTM	Date/Time Reference	O	1		
Not Used	200	TXI	Tax Information	O	>1		
			LOOP ID - IT1			999999	
	210	IT1	Baseline Item Data (Invoice)	O	1		n3
	220	SI	Service Characteristic Identification	O	2		
Not Used	230	PID	Product/Item Description	O	200		
Not Used	235	MEA	Measurements	O	20		
Not Used	240	INC	Installment Information	O	1		
Not Used	250	TXI	Tax Information	O	>1		
	260	REF	Reference Identification	O	8		
	270	DTM	Date/Time Reference	O	10		
Not Used	280	MSG	Message Text	O	>1		
Not Used	285	AMT	Monetary Amount	O	1		
			LOOP ID - QTY			>1	
Not Used	290	QTY	Quantity	O	1		
Not Used	300	SI	Service Characteristic Identification	O	1		
			LOOP ID - ITA			10	
	310	ITA	Allowance, Charge or Service	O	1		
Not Used	320	DTM	Date/Time Reference	O	1		
Not Used	330	TXI	Tax Information	O	>1		

		LOOP ID - NM1			>1
Not Used	340	NM1	Individual or Organizational Name	O	1
Not Used	350	N2	Additional Name Information	O	2
Not Used	360	N3	Address Information	O	2
Not Used	370	N4	Geographic Location	O	1
Not Used	380	PER	Administrative Communications Contact	O	3
Not Used	385	NX2	Location ID Component	O	>1
Not Used	387	DMG	Demographic Information	O	1
		LOOP ID - SLN			>1
	390	SLN	Subline Item Detail	O	1
	400	SI	Service Characteristic Identification	O	2
	410	PID	Product/Item Description	O	200
Not Used	415	MEA	Measurements	O	20
Not Used	420	CUR	Currency	O	1
	430	INC	Installment Information	O	1
	440	ITA	Allowance, Charge or Service	O	10
	450	TXI	Tax Information	O	>1
	460	REF	Reference Identification	O	>1
Not Used	470	PER	Administrative Communications Contact	O	3
	480	DTM	Date/Time Reference	O	10
	490	AMT	Monetary Amount	O	15
Not Used	500	MSG	Message Text	O	>1
		LOOP ID - QTY			>1
	510	QTY	Quantity	O	1
Not Used	520	SI	Service Characteristic Identification	O	1
		LOOP ID - NM1			>1
	530	NM1	Individual or Organizational Name	O	1
Not Used	540	N2	Additional Name Information	O	2
	550	N3	Address Information	O	2
	560	N4	Geographic Location	O	1
Not Used	570	REF	Reference Identification	O	8
Not Used	580	PER	Administrative Communications Contact	O	3
Not Used	585	DMG	Demographic Information	O	1
		LOOP ID - TCD			>1
	590	TCD	Itemized Call Detail	O	1
	600	SI	Service Characteristic Identification	O	2
	610	TXI	Tax Information	O	>1
Not Used	615	ITA	Allowance, Charge or Service	O	>1
		LOOP ID - QTY			>1
	617	QTY	Quantity	O	1
Not Used	618	SI	Service Characteristic Identification	O	1
		LOOP ID - USD			>1
	620	USD	Usage Sensitive Detail	O	1
	625	SI	Service Characteristic Identification	O	2
	630	ITA	Allowance, Charge or Service	O	2
	640	TRF	Rating Factors	O	18
		LOOP ID - QTY			>1
	650	QTY	Quantity	O	1
Not Used	660	SI	Service Characteristic Identification	O	1

			LOOP ID - III		>1
Not Used	670	III	Information	O	1
Not Used	680	DTP	Date or Time or Period	O	5
Not Used	690	AMT	Monetary Amount	O	5
Not Used	700	PCT	Percent Amounts	O	5
			LOOP ID - LQ		>1
Not Used	710	LQ	Industry Code	O	1
Not Used	720	AMT	Monetary Amount	O	5
Not Used	730	PCT	Percent Amounts	O	5
			LOOP ID - FA1		>1
Not Used	740	FA1	Type of Financial Accounting Data	O	1
Not Used	750	FA2	Accounting Data	M	>1

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	TDS	Total Monetary Value Summary	M	1		
			LOOP ID - ITA			>1	
	020	ITA	Allowance, Charge or Service	O	1		
	030	DTM	Date/Time Reference	O	1		
	035	REF	Reference Identification	O	5		
			LOOP ID - BAL			>1	
	040	BAL	Balance Detail	O	1		
Not Used	050	DTM	Date/Time Reference	O	1		
			LOOP ID - N1			>1	
	060	N1	Name	O	1		
			LOOP ID - BAL			>1	
	070	BAL	Balance Detail	O	1		
Not Used	080	DTM	Date/Time Reference	O	1		
			LOOP ID - ITA			>1	
	090	ITA	Allowance, Charge or Service	O	1		
	100	DTM	Date/Time Reference	O	2		
Not Used	102	AMT	Monetary Amount	O	1		
Not Used	103	SI	Service Characteristic Identification	O	2		
	105	REF	Reference Identification	O	5		
Not Used	106	CUR	Currency	O	1		
			LOOP ID - LX			>1	
Not Used	107	LX	Assigned Number	O	1		
Not Used	108	REF	Reference Identification	O	1		
			LOOP ID - AMT			>1	
Not Used	109	AMT	Monetary Amount	O	1		
Not Used	110	DTM	Date/Time Reference	O	1		
			LOOP ID - ITA			>1	
Not Used	111	ITA	Allowance, Charge or Service	O	1		
Not Used	112	DTM	Date/Time Reference	O	1		
	115	CTT	Transaction Totals	O	1		n8
M	120	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- Valid codes for HL03 to define levels for this transaction set are given below: 1 - Service/Billing Provider (Identifies the Company Providing the Service/Billing) 2 - Billing Arrangement (Identifies a Specific Billing Arrangement) 3 - Sub-billing Arrangement (Identifies a More Detailed Billing Arrangement) 4 - Group (Identifies a Group of Charges on the Bill) 5 - Category (Identifies the Subdivision of the Group) 6 - Subcategory (Identifies a Further Breakdown of the Category) 7 - Type (Identifies a Further Breakdown of the Subcategory) 8 - Charge Detail (Identifies the Lowest Level of Charges within a Billing Arrangement) 9 - Line Detail (Identifies the Supporting Detail Associated with the Charge or Group Level) They must be used in the (hierarchical) order in which they are listed; however, certain levels are optional and may be omitted. At least one occurrence each of the service/billing provider level and group level is required.
- When used for telecommunications billing, the service/billing provider level is defined by the NM1 loop.
- The group level is defined by at least one occurrence of the IT1 loop which may only appear at the group level.
- The NX2 segment is used to convey parsed address information.

5. The SLN loop may only appear at the charge detail level.
6. The TCD loop may only appear at the line detail level.
7. The USD loop may only appear at the line detail level.
8. The number of line items (CTT01) is the accumulation of the number of IT1 segments.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 811 Consolidated Service Invoice/Statement	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Syntax Notes:

- Semantic Notes:**
- 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BIG01	373	Date Date expressed as CCYYMMDD	M DT 8/8
M	BIG02	76	Invoice Number Identifying number assigned by issuer The invoice number will contain the Account Number followed by Bill Date. For Consolidated Billing Arrangements, "C" will be appended to the account number and bill date format.	M AN 1/22
Not Used	BIG03	373	Date Date expressed as CCYYMMDD	O DT 8/8
Not Used	BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	O AN 1/22
Not Used	BIG05	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
Not Used	BIG06	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O AN 1/8
	BIG07	640	Transaction Type Code Code specifying the type of transaction CD Consolidated Debit Invoice CE Consolidated Credit Invoice CF Consolidated Debit Memo CG Consolidated Credit Memo CN Credit Invoice CR Credit Memo DI Debit Invoice DR Debit Memo FB Final Bill	O ID 2/2

			FD FE ME	Consolidated Invoice, Final Bill Memorandum, Final Bill Memorandum		
Not Used	BIG08	353	Transaction Set Purpose Code		O	ID 2/2
				Code identifying purpose of transaction set		
Not Used	BIG09	306	Action Code		O	ID 1/2
				Code indicating type of action		
Not Used	BIG10	76	Invoice Number		O	AN 1/22
				Identifying number assigned by issuer		

Segment: **REF** Reference Identification
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account 14 Master Account Number AP Accounts Receivable Number EH Financial Classification Code	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Segment:	ITD Terms of Sale/Deferred Terms of Sale
Position:	070
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	5
Purpose:	To specify terms of sale
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required. 2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required. 3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ITD01	336		Terms Type Code Code identifying type of payment terms 03 Fixed Date 18 Fixed Date, Late Payment Penalty Applies	O ID 2/2
ITD02	333		Terms Basis Date Code Code identifying the beginning of the terms period 3 Invoice Date	O ID 1/2
Not Used	ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	O R 1/6
Not Used	ITD04	370	Terms Discount Due Date Date payment is due if discount is to be earned expressed in format CCYYMMDD	X DT 8/8
Not Used	ITD05	351	Terms Discount Days Due Number of days in the terms discount period by which payment is due if terms discount is earned	X NO 1/3
ITD06	446		Terms Net Due Date Date when total invoice amount becomes due expressed in format CCYYMMDD	O DT 8/8
Not Used	ITD07	386	Terms Net Days Number of days until total invoice amount is due (discount not applicable)	O NO 1/3

Not Used	ITD08	362	Terms Discount Amount	O N2 1/10
			Total amount of terms discount	
Not Used	ITD09	388	Terms Deferred Due Date	O DT 8/8
			Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	
Not Used	ITD10	389	Deferred Amount Due	X N2 1/10
			Deferred amount due for payment	
Not Used	ITD11	342	Percent of Invoice Payable	X R 1/5
			Amount of invoice payable expressed in percent	
Not Used	ITD12	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
Not Used	ITD13	765	Day of Month	X N0 1/2
			The numeric value of the day of the month between 1 and the maximum day of the month being referenced	
	ITD14	107	Payment Method Code	O ID 1/2
			Code identifying type of payment procedures	
			AC Credit Card	
			E Electronic Payment System	
Not Used	ITD15	954	Percent	O R 1/10
			Percentage expressed as a decimal	

Segment: **DTM** Date/Time Reference
Position: 080
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 186 Invoice Period Start 187 Invoice Period End	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **TXI** Tax Information
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 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.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax FT Federal Excise Tax LS State and Local Sales Tax MP Municipal Tax	M ID 2/2
Not Used	TXI02	782	Monetary Amount Monetary amount	X R 1/18
Not Used	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
Not Used	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the source of the data used in tax jurisdiction code	X AN 1/10
	TXI06	441	Tax Exempt Code Code identifying exemption status from sales and use tax 1 Yes (Tax Exempt)	X ID 1/1
Not Used	TXI07	662	Relationship Code	O ID 1/1
Not Used	TXI08	828	Dollar Basis For Percent Code indicating the relationship between entities Dollar basis to be used in the percent calculation of the allowance, charge or tax	O R 1/9

Not Used	TXI09	325	Tax Identification Number	O AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	
Not Used	TXI10	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	

Segment: **N1** Name
Position: 100
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual PE Payee PR Payer	M ID 2/3
	N102	93	Name Free-form name	X AN 1/60
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 91 Assigned by Seller or Seller's Agent	X ID 1/2
	N104	67	Identification Code Code identifying a party or other code	X AN 2/80
Not Used	N105	706	Entity Relationship Code Code describing entity relationship	O ID 2/2
Not Used	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3

Segment: **N2** Additional Name Information

Position: 110

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 2

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

Syntax Notes:

Semantic Notes:

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name	M AN 1/60
Not Used	N202	93	Name Free-form name	O AN 1/60

Segment: **N3** Address Information
Position: 120
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4** Geographic Location

Position: 130

Loop: N1 Optional

Level: Heading

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments:

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

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name Free-form text for city name	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Not Used	N404	26 Country Code Code identifying the country	O ID 2/3
Not Used	N405	309 Location Qualifier Code identifying type of location	X ID 1/2
Not Used	N406	310 Location Identifier Code which identifies a specific location	O AN 1/30

Segment: **REF** Reference Identification
Position: 140
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification VR Vendor ID Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier CRIS Customer Records Information System Bill	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **HL Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	HL01	628 Hierarchical ID Number	M	AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
	HL02	734 Hierarchical Parent ID Number	O	AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
M	HL03	735 Hierarchical Level Code	M	ID 1/2
		Code defining the characteristic of a level in a hierarchical structure		
		1	Service/Billing Provider	
		4	Group	
		5	Category	
		6	Sub-Category	
		8	Charge Detail	
		9	Line Detail	

HL04	736	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		0	No Subordinate HL Segment in This Hierarchical Structure.
		1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

Segment: LX Assigned Number
Position: 020
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554	Assigned Number Number assigned for differentiation within a transaction set	M NO 1/6

Segment: **SI** Service Characteristic Identification
Position: 030
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 8
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

1 SI01 defines the source for each of the service characteristics qualifiers. The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. CH Charge/Usage Status Code	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	M AN 1/48

SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. BN Billing Telephone Number BT Basic Service Type CC Calling Card Number CN Circuit Number TM To/Terminating Station Telephone Number TN Telephone Number WN Wide Area Telephone Service	X AN 2/2
SI05	234	Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a billing telephone number, basic class of service, telephone number, circuit number, WATS telephone number, etc.	X AN 1/48
SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X AN 1/48

SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **REF** Reference Identification
Position: 050
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number OW Service Order Number PO Purchase Order Number VN Vendor Order Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **AMT** Monetary Amount
Position: 060
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	AMT01	522	Amount Qualifier Code Code to qualify amount SC Total Service Charge (for a Service Provider)	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount	M R 1/18
Not Used	AMT03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O ID 1/1

Segment: **DTM** Date/Time Reference
Position: 070
Loop: LX Optional
Level: Detail
Usage: Optional
Max Use: 8
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **QTY** Quantity
Position: 090
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 98 Overflow Quantity 99 Quantity Used	M ID 2/2
	QTY02	380	Quantity Numeric value of quantity	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls (Messages) HR Hours MJ Minutes	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	

Segment: **SI** Service Characteristic Identification
Position: 100
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments:

1 SI01 defines the source for each of the service characteristics qualifiers.

Notes:

The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. DA Directory Assistance Category Code RP Rate Period Code ST Message Service Type	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	M AN 1/48

SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics SC Service Category Code TL To/Terminating Location TM To/Terminating Station Telephone Number	X	AN 2/2
SI05	234	Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a USOC, terminating telephone number, terminating location, etc.	X	AN 1/48
SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **NM1** Individual or Organizational Name
Position: 110
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes:

- 1 If either NM108 or NM109 is present, then the other is required.
- 2 If NM111 is present, then NM110 is required.

Semantic Notes:

- 1 NM102 qualifies NM103.

Comments:

- 1 NM110 and NM111 further define the type of entity in NM101.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	NM101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 9D New Service Provider CA Carrier SJ Service Provider	M ID 2/3
M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 2 Non-Person Entity	M ID 1/1
	NM103	1035	Name Last or Organization Name Individual last name or organizational name	O AN 1/35
Not Used	NM104	1036	Name First Individual first name	O AN 1/25
Not Used	NM105	1037	Name Middle Individual middle name or initial	O AN 1/25
Not Used	NM106	1038	Name Prefix Prefix to individual name	O AN 1/10
Not Used	NM107	1039	Name Suffix Suffix to individual name	O AN 1/10
	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 41 Telecommunications Carrier Identification Code 42 Telecommunications Pseudo Carrier Identification Code 91 Assigned by Seller or Seller's Agent	X ID 1/2

	NM109	67	Identification Code Code identifying a party or other code For a list of valid DE67 Pseudo CIC values associated with the preceding DE66 value of '42', see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	X	AN 2/80
Not Used	NM110	706	Entity Relationship Code Code describing entity relationship	X	ID 2/2
Not Used	NM111	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O	ID 2/3

Segment: **REF** Reference Identification
Position: 150
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify identifying information
Syntax Notes: 1 At least one of REF02 or REF03 is required.
 2 If either C04003 or C04004 is present, then the other is required.
 3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number IV Seller's Invoice Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **PER** Administrative Communications Contact
Position: 160
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

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

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named AR Accounts Receivable Department BI Bill Inquiry Contact IC Information Contact MA Maintenance Contact OD Order Department	M ID 2/2
Not Used	PER02	93	Name Free-form name	O AN 1/60
	PER03	365	Communication Number Qualifier Code identifying the type of communication number TE Telephone UR Uniform Resource Locator (URL)	X ID 2/2
	PER04	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
Not Used	PER05	365	Communication Number Qualifier Code identifying the type of communication number	X ID 2/2
Not Used	PER06	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
Not Used	PER07	365	Communication Number Qualifier Code identifying the type of communication number	X ID 2/2
Not Used	PER08	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80
Not Used	PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O AN 1/20

Segment: **TXI** Tax Information
Position: 170
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 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.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax CP County/Parish Sales Tax CS City Sales Tax FT Federal Excise Tax GR Gross Receipts Tax LO Local Tax (Not Sales Tax) LS State and Local Sales Tax LT Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level) OT Occupational Tax SE State Excise Tax ST State Sales Tax SU Sales and Use Tax TD Telecommunications Device for the Deaf (TDD) Service Excise Tax TT Telecommunications Tax ZB 911-County Tax	M ID 2/2
	TXI02	782	Monetary Amount Monetary amount	X R 1/18
Not Used	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
Not Used	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the source of the data used in tax jurisdiction code Code identifying the taxing jurisdiction	X AN 1/10

Not Used	TXI06	441	Tax Exempt Code	X	ID 1/1
			Code identifying exemption status from sales and use tax		
	TXI07	662	Relationship Code	O	ID 1/1
			Code indicating the relationship between entities		
			A Add		
Not Used	TXI08	828	Dollar Basis For Percent	O	R 1/9
			Dollar basis to be used in the percent calculation of the allowance, charge or tax		
Not Used	TXI09	325	Tax Identification Number	O	AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number		
	TXI10	350	Assigned Identification	O	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set		

- Segment:** **ITA** Allowance, Charge or Service
- Position:** 180
- Loop:** ITA Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify allowances, charges, or services
- Syntax Notes:**
- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
 - 2 If ITA08 is present, then ITA09 is required.
 - 3 If either ITA10 or ITA11 is present, then the other is required.
 - 4 If ITA15 is present, then ITA02 is required.
 - 5 If ITA17 is present, then ITA12 is required.
- Semantic Notes:**
- 1 ITA09 is the allowance or charge percent.
 - 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 3 ITA12 is the quantity of free goods.
- Comments:**
- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
 - 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
 - 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
 - 4 ITA13 is used to clarify the allowance, charge, or service.
 - 5 ITA15 specifies the individual code list of the agency specified in ITA02.
 - 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	ITA02	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
	ITA03	560	Special Services Code Code identifying the special service FS Federal and State LO Local SL State and Local ST State TOL Toll	X ID 2/10
M	ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account 06 Charge to be Paid by Customer	M ID 2/2

	ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O	AN 1/16
Not Used	ITA06	359	Allowance or Charge Rate Allowance or Charge Rate per Unit	O	R 1/15
	ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge	O	N2 1/15
Not Used	ITA08	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated	O	ID 1/1
	ITA09	332	Percent Percent expressed as a percent	X	R 1/6
Not Used	ITA10	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	ITA11	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID 2/2
Not Used	ITA12	380	Quantity Numeric value of quantity	X	R 1/15
	ITA13	352	Description A free-form description to clarify the related data elements and their content	X	AN 1/80
	ITA14	150	Special Charge or Allowance Code Code identifying type of special charge or allowance For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	X	ID 3/3
Not Used	ITA15	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O	AN 1/15
	ITA16	662	Relationship Code Code indicating the relationship between entities A Add	O	ID 1/1
Not Used	ITA17	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2

Segment: **IT1** **Baseline Item Data (Invoice)**
Position: 210
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
 - 2 If either IT106 or IT107 is present, then the other is required.
 - 3 If either IT108 or IT109 is present, then the other is required.
 - 4 If either IT110 or IT111 is present, then the other is required.
 - 5 If either IT112 or IT113 is present, then the other is required.
 - 6 If either IT114 or IT115 is present, then the other is required.
 - 7 If either IT116 or IT117 is present, then the other is required.
 - 8 If either IT118 or IT119 is present, then the other is required.
 - 9 If either IT120 or IT121 is present, then the other is required.
 - 10 If either IT122 or IT123 is present, then the other is required.
 - 11 If either IT124 or IT125 is present, then the other is required.

- Semantic Notes:** 1 IT101 is the purchase order line item identification.
Comments:
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of 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.

Notes: The group level is defined by at least one occurrence of the IT1 loop which may only appear at the group level.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IT101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
IT102	358	Quantity Invoiced Number of units invoiced (supplier units)	X R 1/10
IT103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken M4 Monetary Value	X ID 2/2
IT104	212	Unit Price Price per unit of product, service, commodity, etc.	X R 1/17
Not Used	IT105	639 Basis of Unit Price Code Code identifying the type of unit price for an item	O ID 2/2

	IT106	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			SV Service Rendered	
	IT107	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			0200 Monthly Service Charge	
			0400 Other Charges and Credits/Additions and Changes	
			0500 Itemized Calls	
			0520 Itemized Charges/Credits	
			0700 Usage	
			0705 Measured Service	
			0900 Directory Assistance	
			1000 WATS	
			1600 Non-Voice Service	
			1710 Customized Billing Service	
			1740 Miscellaneous	
			1880 800 Common Line	
			2050 Total Amount Billed (for Summary/Consolidated Billing Only)	
			2110 Contracts/Discounts	
	IT108	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			ZZ Mutually Defined	
			Temporarily used in place of Telecom Service Type - WJ	
	IT109	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			1 Recurring Charge	
			2 Other Charges	
			3 Usage	
			4 Summary/Combined Charges	
Not Used	IT110	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
Not Used	IT111	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
Not Used	IT112	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
Not Used	IT113	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	

Not Used	IT114	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT115	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	IT116	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT117	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	IT118	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT119	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	IT120	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT121	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	IT122	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT123	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	IT124	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	IT125	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **SI** Service Characteristic Identification
Position: 220
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

1 SI01 defines the source for each of the service characteristics qualifiers. The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. DI Department Code/Customer ID Code TN Telephone Number	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a telephone number, department code, customer id code, etc.	M AN 1/48
	SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
	SI05	234	Product/Service ID Identifying number for a product or service	X AN 1/48

SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **REF** Reference Identification
Position: 260
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 8
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Code qualifying the Reference Identification		
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **DTM** Date/Time Reference
Position: 270
Loop: IT1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 150 Service Period Start 151 Service Period End	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

- Segment:** **ITA** Allowance, Charge or Service
- Position:** 310
- Loop:** ITA Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify allowances, charges, or services
- Syntax Notes:**
- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
 - 2 If ITA08 is present, then ITA09 is required.
 - 3 If either ITA10 or ITA11 is present, then the other is required.
 - 4 If ITA15 is present, then ITA02 is required.
 - 5 If ITA17 is present, then ITA12 is required.
- Semantic Notes:**
- 1 ITA09 is the allowance or charge percent.
 - 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 3 ITA12 is the quantity of free goods.
- Comments:**
- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
 - 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
 - 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
 - 4 ITA13 is used to clarify the allowance, charge, or service.
 - 5 ITA15 specifies the individual code list of the agency specified in ITA02.
 - 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ITA01	248 Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge	M ID 1/1
	ITA02	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
	ITA03	560 Special Services Code Code identifying the special service ST State	X ID 2/10
M	ITA04	331 Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account 06 Charge to be Paid by Customer ZZ Mutually Defined	M ID 2/2
	ITA05	341 Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
Not Used	ITA06	359 Allowance or Charge Rate Allowance or Charge Rate per Unit	O R 1/15

	ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge	O	N2 1/15
Not Used	ITA08	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated	O	ID 1/1
Not Used	ITA09	332	Percent Percent expressed as a percent	X	R 1/6
Not Used	ITA10	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	ITA11	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID 2/2
Not Used	ITA12	380	Quantity Numeric value of quantity	X	R 1/15
	ITA13	352	Description A free-form description to clarify the related data elements and their content	X	AN 1/80
	ITA14	150	Special Charge or Allowance Code Code identifying type of special charge or allowance For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	X	ID 3/3
Not Used	ITA15	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O	AN 1/15
	ITA16	662	Relationship Code Code indicating the relationship between entities I Included O Information Only	O	ID 1/1
Not Used	ITA17	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2

Segment:	SLN Subline Item Detail
Position:	390
Loop:	SLN Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify product subline detail item data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either SLN04 or SLN05 is present, then the other is required. 2 If SLN07 is present, then SLN06 is required. 3 If SLN08 is present, then SLN06 is required. 4 If either SLN09 or SLN10 is present, then the other is required. 5 If either SLN11 or SLN12 is present, then the other is required. 6 If either SLN13 or SLN14 is present, then the other is required. 7 If either SLN15 or SLN16 is present, then the other is required. 8 If either SLN17 or SLN18 is present, then the other is required. 9 If either SLN19 or SLN20 is present, then the other is required. 10 If either SLN21 or SLN22 is present, then the other is required. 11 If either SLN23 or SLN24 is present, then the other is required. 12 If either SLN25 or SLN26 is present, then the other is required. 13 If either SLN27 or SLN28 is present, then the other is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.
Notes:	The SLN loop may only appear at the charge detail level.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SLN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
Not Used	SLN02	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
M	SLN03	662	Relationship Code Code indicating the relationship between entities I Included	M ID 1/1

	SLN04	380	Quantity Numeric value of quantity	X	R 1/15
	SLN05	C001	Composite Unit of Measure To identify a composite unit of measure	X	
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls (Messages) EA Each M4 Monetary Value	M	ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
Not Used	C00108	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
Not Used	C00111	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10

Not Used	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
	SLN06	212	Unit Price	X	R 1/17
			Price per unit of product, service, commodity, etc.		
Not Used	SLN07	639	Basis of Unit Price Code	O	ID 2/2
			Code identifying the type of unit price for an item		
	SLN08	662	Relationship Code	O	ID 1/1
			Code indicating the relationship between entities		
			I Included		
			O Information Only		
	SLN09	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
			SV Service Rendered		
	SLN10	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
			0205 Basic Service		
			0800 Optional Call Plan/Discount Plan		
			1910 Billing/Transaction Processing Charges		
			1950 InWATS/800 Service		
			1960 OutWATS		
			1990 Other Line Charge		
			2110 Contracts/Discounts		
Not Used	SLN11	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	SLN12	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SLN13	235	Product/Service ID Qualifier	X	ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
Not Used	SLN14	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		

Not Used	SLN15	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN16	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN17	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN18	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN19	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN20	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN22	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN24	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN26	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN27	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID 2/2
Not Used	SLN28	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **SI** Service Characteristic Identification
Position: 400
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments:

1 SI01 defines the source for each of the service characteristics qualifiers.

Notes:

The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. CH Charge/Usage Status Code DA Directory Assistance Category Code DC Direction Code OC Other Charges and Credits Category Code RP Rate Period Code SA Service Activity Code SD Settlement Code ST Message Service Type	M AN 2/2
M	SI03	234	Product/Service ID Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	M AN 1/48

SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics BA Band CI Circuit Drop Location Code CN Circuit Number DI Department Code/Customer ID Code DJ Sub-Departmental ID Code FD Feature Data FN From/Originating Station Telephone Number FS Foreign Serving Office (FSO) LS Local Serving Office (LSO) OD Other Charges and Credits Description Code PA Primary/Originating Message Carrier Identification PQ Major Product Code SC Service Category Code TM To/Terminating Station Telephone Number TN Telephone Number TS Type of Signaling TX Translated Telephone Number	X AN 2/2
SI05	234	Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a circuit number, circuit drop location, feature data, telephone number, USOC, department code, customer id code, etc.	X AN 1/48
SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X AN 1/48

SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment:	PID Product/Item Description
Position:	410
Loop:	SLN Optional
Level:	Detail
Usage:	Optional
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349	Item Description Type Code indicating the format of a description F Free-form X Semi-structured (Code and Text)	M ID 1/1
Not Used	PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic	O ID 2/3
	PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values AS Assigned by Seller	X ID 2/2
	PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic	X AN 1/12
	PID05	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O ID 2/2

Not Used	PID07	822	Source Subqualifier	O AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier	
Not Used	PID08	1073	Yes/No Condition or Response Code	O ID 1/1
			Code indicating a Yes or No condition or response	
Not Used	PID09	819	Language Code	O ID 2/3
			Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	

Segment: **INC** **Installment Information**
Position: 430
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify installment billing arrangement
Syntax Notes:
Semantic Notes:

- 1 INC02 is the installment period (e.g., months).
- 2 INC03 is the total number of installments.
- 3 INC04 is the number of the current installment.
- 4 INC05 is the installment balance after the current installment is applied.

Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	INC01	336	Terms Type Code Code identifying type of payment terms 04 Deferred or Installment	M ID 2/2
M	INC02	C001	Composite Unit of Measure To identify a composite unit of measure	M
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken MO Months	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2

Not Used	C00108	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00109	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
M	INC03	380	Quantity	M	R 1/15
			Numeric value of quantity		
			Indicates the total number of installments.		
M	INC04	380	Quantity	M	R 1/15
			Numeric value of quantity		
			Indicates number of current installment.		
Not Used	INC05	782	Monetary Amount	O	R 1/18
			Monetary amount		

- Segment:** **ITA** Allowance, Charge or Service
- Position:** 440
- Loop:** SLN Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 10
- Purpose:** To specify allowances, charges, or services
- Syntax Notes:**
- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
 - 2 If ITA08 is present, then ITA09 is required.
 - 3 If either ITA10 or ITA11 is present, then the other is required.
 - 4 If ITA15 is present, then ITA02 is required.
 - 5 If ITA17 is present, then ITA12 is required.
- Semantic Notes:**
- 1 ITA09 is the allowance or charge percent.
 - 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 3 ITA12 is the quantity of free goods.
- Comments:**
- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
 - 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
 - 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
 - 4 ITA13 is used to clarify the allowance, charge, or service.
 - 5 ITA15 specifies the individual code list of the agency specified in ITA02.
 - 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance N No Allowance or Charge	M ID 1/1
	ITA02	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
	ITA03	560	Special Services Code Code identifying the special service CY County ST State	X ID 2/10
M	ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account ZZ Mutually Defined	M ID 2/2
Not Used	ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16

Not Used	ITA06	359	Allowance or Charge Rate	O	R 1/15
			Allowance or Charge Rate per Unit		
	ITA07	360	Allowance or Charge Total Amount	O	N2 1/15
			Total dollar amount for the allowance or charge		
Not Used	ITA08	378	Allowance/Charge Percent Qualifier	O	ID 1/1
			Code indicating on what basis allowance or charge percent is calculated		
	ITA09	332	Percent	X	R 1/6
			Percent expressed as a percent		
Not Used	ITA10	380	Quantity	X	R 1/15
			Numeric value of quantity		
Not Used	ITA11	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	ITA12	380	Quantity	X	R 1/15
			Numeric value of quantity		
	ITA13	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
	ITA14	150	Special Charge or Allowance Code	X	ID 3/3
			Code identifying type of special charge or allowance		
			For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp		
Not Used	ITA15	822	Source Subqualifier	O	AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier		
	ITA16	662	Relationship Code	O	ID 1/1
			Code indicating the relationship between entities		
			I Included		
			O Information Only		
Not Used	ITA17	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

Segment: **TXI** Tax Information
Position: 450
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 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.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax ST State Sales Tax	M ID 2/2
	TXI02	782	Monetary Amount Monetary amount	X R 1/18
Not Used	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
Not Used	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the source of the data used in tax jurisdiction code	X AN 1/10
Not Used	TXI06	441	Tax Exempt Code Code identifying the taxing jurisdiction	X ID 1/1
	TXI07	662	Relationship Code Code identifying exemption status from sales and use tax Code indicating the relationship between entities A Add	O ID 1/1
Not Used	TXI08	828	Dollar Basis For Percent Dollar basis to be used in the percent calculation of the allowance, charge or tax	O R 1/9

Not Used	TXI09	325	Tax Identification Number	O AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	
Not Used	TXI10	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	

Segment: **REF** Reference Identification
Position: 460
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CIR Circuit Number CT Contract Number OW Service Order Number PO Purchase Order Number	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
Not Used	C04006	127	Code qualifying the Reference Identification Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **DTM** Date/Time Reference
Position: 480
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective 150 Service Period Start 151 Service Period End 152 Effective Date of Change	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **AMT** Monetary Amount
Position: 490
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 15
Purpose: To indicate the total monetary amount
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	AMT01	522	Amount Qualifier Code Code to qualify amount AP Amount Prior to Fractionalization	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount	M R 1/18
Not Used	AMT03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O ID 1/1

Segment: **QTY** Quantity
Position: 510
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 8H Minimum 92 Allotted Usage Quantity 94 Billable Quantity 99 Quantity Used	M ID 2/2
	QTY02	380	Quantity Numeric value of quantity	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls (Messages) HR Hours MJ Minutes	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	

Segment: **NM1 Individual or Organizational Name**
Position: 530
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes:
 1 If either NM108 or NM109 is present, then the other is required.
 2 If NM111 is present, then NM110 is required.
Semantic Notes:
 1 NM102 qualifies NM103.
Comments:
 1 NM110 and NM111 further define the type of entity in NM101.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual IA Installed At P9 Primary Interexchange Carrier (PIC)	M ID 2/3
M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 2 Non-Person Entity	M ID 1/1
	NM103	1035	Name Last or Organization Name Individual last name or organizational name	O AN 1/35
Not Used	NM104	1036	Name First Individual first name	O AN 1/25
Not Used	NM105	1037	Name Middle Individual middle name or initial	O AN 1/25
Not Used	NM106	1038	Name Prefix Prefix to individual name	O AN 1/10
Not Used	NM107	1039	Name Suffix Suffix to individual name	O AN 1/10
	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 41 Telecommunications Carrier Identification Code 91 Assigned by Seller or Seller's Agent	X ID 1/2
	NM109	67	Identification Code Code identifying a party or other code	X AN 2/80
Not Used	NM110	706	Entity Relationship Code Code describing entity relationship	X ID 2/2
Not Used	NM111	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3

Segment: **N3** Address Information
Position: 550
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

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

Segment: **N4 Geographic Location**
Position: 560
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	N401	19	City Name Free-form text for city name	O AN 2/30
	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Not Used	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Not Used	N404	26	Country Code Code identifying the country	O ID 2/3
Not Used	N405	309	Location Qualifier Code identifying type of location	X ID 1/2
Not Used	N406	310	Location Identifier Code which identifies a specific location	O AN 1/30

- Segment:** **TCD** Itemized Call Detail
- Position:** 590
- Loop:** TCD Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify detail information for itemized calls
- Syntax Notes:**
- 1 If either TCD04 or TCD05 is present, then the other is required.
 - 2 If either TCD07 or TCD08 is present, then the other is required.
- Semantic Notes:**
- 1 TCD12 is an undiscounted amount.
 - 2 TCD13 is a net amount after the discount has been applied to the amount in TCD12.
 - 3 TCD14 is an undiscounted amount.
 - 4 TCD15 is a net amount after the discount has been applied to the amount in TCD14.
 - 5 TCD16 is a code indicating the relationship of the price or amount to the associated segment.
- Comments:**
- 1 TCD01 is the detail information.
 - 2 TCD02 is the date of the call.
 - 3 TCD03 is the connect time of the call.
 - 4 TCD04, TCD05, and TCD06 are the "TO" location of the call.
 - 5 TCD07, TCD08, and TCD09 are the "FROM" location of the call.
 - 6 TCD10 and TCD11 are the total duration of the call. TCD10 is the time measured in minutes or minutes and tenths of minutes. TCD11 is time measured in seconds or seconds and tenths of seconds.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TCD01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
TCD02	373	Date Date expressed as CCYYMMDD	O DT 8/8
TCD03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O TM 4/8

	TCD04	309	Location Qualifier Code identifying type of location Code identifying the type of "TO" location provided in TCD05 and TCD06. A value of "ZZ" indicates any point of origination/termination or service for a call that cannot be qualified by traditional geographic qualifiers (i.e., City or Country). The point of origination/termination or service that this code qualifies could be the name of an aircraft, vessel, vehicle, or service where a call originated/terminated or the service was provided.	X	ID 1/2
			CC Country CI City ZZ Mutually Defined		
	TCD05	310	Location Identifier Code which identifies a specific location	X	AN 1/30
	TCD06	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2
	TCD07	309	Location Qualifier Code identifying type of location Code identifying the type of "FROM" location in TCD08 and TCD09. A value of "ZZ" indicates any point of origination/termination or service for a call that cannot be qualified by traditional geographic qualifiers (i.e., City or Country). The point of origination/termination or service that this code qualifies could be the name of an aircraft, vessel, vehicle, or service where a call originated/terminated or the service was provided.	X	ID 1/2
			CC Country CI City ZZ Mutually Defined		
	TCD08	310	Location Identifier Code which identifies a specific location	X	AN 1/30
	TCD09	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O	ID 2/2
	TCD10	739	Measurement Value The value of the measurement	O	R 1/20
	TCD11	739	Measurement Value The value of the measurement The measurement is in seconds as related to the length of the call. This field can be used in conjunction with the TCD10 field of minutes.	O	R 1/20
	TCD12	782	Monetary Amount Monetary amount	O	R 1/18
Not Used	TCD13	782	Monetary Amount Monetary amount	O	R 1/18
Not Used	TCD14	782	Monetary Amount Monetary amount	O	R 1/18

Not Used	TCD15	782	Monetary Amount	O R 1/18
	TCD16	662	Monetary amount Relationship Code Code indicating the relationship between entities I Included O Information Only	O ID 1/1

Segment: **SI** Service Characteristic Identification
Position: 600
Loop: TCD Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

1 SI01 defines the source for each of the service characteristics qualifiers. The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SI01	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. DA Directory Assistance Category Code DC Direction Code MC Message/Rate Class MI Special Message Information Code Qualifier MT Message Type RP Rate Period Code SD Settlement Code ST Message Service Type	M AN 2/2
M	SI03	234 Product/Service ID Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	M AN 1/48

SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
		BA Band CC Calling Card Number DI Department Code/Customer ID Code DJ Sub-Departmental ID Code FN From/Originating Station Telephone Number PN Personal Identification Number SC Service Category Code TM To/Terminating Station Telephone Number	
SI05	234	Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a telephone number, USOC, department code, customer id code, etc.	X AN 1/48
SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X AN 1/48

SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment: **TXI** Tax Information
Position: 610
Loop: TCD Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify tax information
Syntax Notes:

- 1 At least one of TXI02 TXI03 or TXI06 is required.
- 2 If either TXI04 or TXI05 is present, then the other is required.
- 3 If TXI08 is present, then TXI03 is required.

Semantic Notes:

- 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.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax ST State Sales Tax	M ID 2/2
	TXI02	782	Monetary Amount Monetary amount	X R 1/18
Not Used	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
Not Used	TXI04	955	Tax Jurisdiction Code Qualifier	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the source of the data used in tax jurisdiction code	X AN 1/10
Not Used	TXI06	441	Tax Exempt Code Code identifying the taxing jurisdiction	X ID 1/1
	TXI07	662	Relationship Code Code identifying exemption status from sales and use tax Code indicating the relationship between entities A Add	O ID 1/1
Not Used	TXI08	828	Dollar Basis For Percent Dollar basis to be used in the percent calculation of the allowance, charge or tax	O R 1/9

Not Used	TXI09	325	Tax Identification Number	O AN 1/20
			Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	
Not Used	TXI10	350	Assigned Identification	O AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set	

Segment: **QTY** Quantity

Position: 617
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes:
 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes:
 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 99 Quantity Used	M ID 2/2
	QTY02	380	Quantity Numeric value of quantity	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 2P Kilobyte NF Messages UN Unit	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	

Segment: **USD Usage Sensitive Detail**
Position: 620
Loop: USD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify usage-sensitive details which qualify for discounts or are subject to special rates

- Syntax Notes:**
- 1 Only one of USD03 or USD04 may be present.
 - 2 If USD03 is present, then at least one of USD06 USD07 or USD08 is required.
 - 3 If USD04 is present, then at least one of USD08 or USD09 is required.
 - 4 If either USD05 or USD06 is present, then the other is required.
 - 5 If USD07 is present, then both USD05 and USD06 are required.
 - 6 If USD10 is present, then at least one of USD11 or USD12 is required.
 - 7 If USD11 is present, then USD10 is required.
 - 8 If USD12 is present, then USD10 is required.

- Semantic Notes:**
- 1 USD01 is a code indicating the relationship of the price or amount to the associated segment.
 - 2 USD03 is the allowance or charge rate per unit.
 - 3 USD04 is the discount percentage.
 - 4 USD06 is the quantity of usage.
 - 5 USD07 is a quantity of usage different than the quantity in USD06. When USD07 is present, it is used in conjunction with USD06, and then the rate USD03 is applied.
 - 6 USD09 is the total amount of terms discount.
- Comments:**
- 1 If both USD03 and USD08 are present, then USD08 takes precedence.
 - 2 If USD11 is present and USD12 is not present, then the range is open ended.
 - 3 If USD12 is present and USD11 is not present, then the minimum is zero.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	USD01	662	Relationship Code Code indicating the relationship between entities I Included O Information Only	M ID 1/1
	USD02	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
	USD03	118	Rate Rate expressed in the standard monetary denomination for the currency specified	X R 1/9
Not Used	USD04	954	Percent Percentage expressed as a decimal	X R 1/10

	USD05	C001	Composite Unit of Measure To identify a composite unit of measure	X
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken AH Additional Minutes CO Calls (Messages) EA Each HR Hours MJ Minutes	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00108	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00109	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Not Used	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
Not Used	C00114	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	USD06	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	USD07	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	USD08	782	Monetary Amount Monetary amount	X	R 1/18
Not Used	USD09	610	Amount Monetary amount	X	N2 1/15
	USD10	C001	Composite Unit of Measure To identify a composite unit of measure	X	
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken HR Hours	M	ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O	R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2

Not Used	C00108	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00109	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00110	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00111	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00112	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
Not Used	C00113	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	C00114	1018	Exponent	O	R 1/15
			Power to which a unit is raised		
Not Used	C00115	649	Multiplier	O	R 1/10
			Value to be used as a multiplier to obtain a new value		
	USD11	740	Range Minimum	X	R 1/20
			The value specifying the minimum of the measurement range		
			If USD11 is present and USD12 is not present, then the range is open-ended.		
	USD12	741	Range Maximum	X	R 1/20
			The value specifying the maximum of the measurement range		
			If USD12 is present and USD11 is not present, the minimum is zero.		

Segment: **SI Service Characteristic Identification**
Position: 625
Loop: USD Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify service characteristic data
Syntax Notes:

- 1 If either SI04 or SI05 is present, then the other is required.
- 2 If either SI06 or SI07 is present, then the other is required.
- 3 If either SI08 or SI09 is present, then the other is required.
- 4 If either SI10 or SI11 is present, then the other is required.
- 5 If either SI12 or SI13 is present, then the other is required.
- 6 If either SI14 or SI15 is present, then the other is required.
- 7 If either SI16 or SI17 is present, then the other is required.
- 8 If either SI18 or SI19 is present, then the other is required.
- 9 If either SI20 or SI21 is present, then the other is required.

Semantic Notes:

Comments: 1 SI01 defines the source for each of the service characteristics qualifiers.

Notes: The SI segment actually contains 21 data elements. SI01 provides an Agency Qualifier Code and the other 20 data elements are matched pairs. The DE1000/DE234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted within the SI segment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	SI01	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. CH Charge/Usage Status Code DC Direction Code RP Rate Period Code	M AN 2/2
M	SI03	234 Product/Service ID Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_ Iss9_ Rev3.asp	M AN 1/48
	SI04	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics SC Service Category Code	X AN 2/2
	SI05	234 Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with the preceding DE1000 value. Examples of a locally defined value include USOC.	X AN 1/48

SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI07	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

Segment:	ITA Allowance, Charge or Service
Position:	630
Loop:	USD Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify allowances, charges, or services
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required. 2 If ITA08 is present, then ITA09 is required. 3 If either ITA10 or ITA11 is present, then the other is required. 4 If ITA15 is present, then ITA02 is required. 5 If ITA17 is present, then ITA12 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 ITA09 is the allowance or charge percent. 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. 3 ITA12 is the quantity of free goods.
Comments:	<ol style="list-style-type: none"> 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present. 2 ITA02 identifies the source of the code value in ITA03 or ITA15. 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence. 4 ITA13 is used to clarify the allowance, charge, or service. 5 ITA15 specifies the individual code list of the agency specified in ITA02. 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance N No Allowance or Charge	M ID 1/1
	ITA02	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
Not Used	ITA03	560	Special Services Code Code identifying the special service	X ID 2/10
M	ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account ZZ Mutually Defined	M ID 2/2
Not Used	ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16

Not Used	ITA06	359	Allowance or Charge Rate	O	R 1/15
			Allowance or Charge Rate per Unit		
	ITA07	360	Allowance or Charge Total Amount	O	N2 1/15
			Total dollar amount for the allowance or charge		
Not Used	ITA08	378	Allowance/Charge Percent Qualifier	O	ID 1/1
			Code indicating on what basis allowance or charge percent is calculated		
	ITA09	332	Percent	X	R 1/6
			Percent expressed as a percent		
Not Used	ITA10	380	Quantity	X	R 1/15
			Numeric value of quantity		
Not Used	ITA11	355	Unit or Basis for Measurement Code	X	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
Not Used	ITA12	380	Quantity	X	R 1/15
			Numeric value of quantity		
Not Used	ITA13	352	Description	X	AN 1/80
			A free-form description to clarify the related data elements and their content		
	ITA14	150	Special Charge or Allowance Code	X	ID 3/3
			Code identifying type of special charge or allowance		
			For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp		
Not Used	ITA15	822	Source Subqualifier	O	AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier		
	ITA16	662	Relationship Code	O	ID 1/1
			Code indicating the relationship between entities		
			I Included		
			O Information Only		
Not Used	ITA17	355	Unit or Basis for Measurement Code	O	ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

Segment: **TRF** **Rating Factors**
Position: 640
Loop: USD Optional
Level: Detail
Usage: Optional
Max Use: 18
Purpose: To specify rating information used to calculate usage-sensitive charges

Syntax Notes:
Semantic Notes:

- Comments:**
- 1 TRF01 defines the rating basis (e.g., acknowledged calls, minimum period, etc.) for the segment.
 - 2 TRF02 and TRF03 define equivalent units per standard unit.
 - 3 TRF04 and TRF05 define the standard unit.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	TRF01	673	Quantity Qualifier Code specifying the type of quantity AE Minimum Average Time Requirement (MATR) Units	M ID 2/2
M	TRF02	C001	Composite Unit of Measure To identify a composite unit of measure	M
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken MJ Minutes	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2

Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
M	TRF03	380	Quantity	M R 1/15
			Numeric value of quantity	
M	TRF04	C001	Composite Unit of Measure	M
			To identify a composite unit of measure	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			C0 Calls (Messages)	
Not Used	C00102	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00103	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00104	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

Not Used	C00105	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00106	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
M	TRF05	380	Quantity	M R 1/15
			Numeric value of quantity	

Segment: **QTY** Quantity
Position: 650
Loop: QTY Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity information
Syntax Notes: 1 At least one of QTY02 or QTY04 is required.
 2 Only one of QTY02 or QTY04 may be present.
Semantic Notes: 1 QTY04 is used when the quantity is non-numeric.
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	Quantity Qualifier Code specifying the type of quantity 92 Allotted Usage Quantity 94 Billable Quantity 99 Quantity Used AE Minimum Average Time Requirement (MATR) Units	M ID 2/2
	QTY02	380	Quantity Numeric value of quantity	X R 1/15
	QTY03	C001	Composite Unit of Measure To identify a composite unit of measure	O
M	C00101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls (Messages) HR Hours MJ Minutes UB Telecommunications Lines in Service - Average UF Usage per Telecommunications Line - Average	M ID 2/2
Not Used	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00103	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
Not Used	C00104	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
Not Used	C00105	1018	Exponent Power to which a unit is raised	O R 1/15
Not Used	C00106	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10

Not Used	C00107	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00108	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00109	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00110	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00111	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00112	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	C00113	355	Unit or Basis for Measurement Code	O ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
Not Used	C00114	1018	Exponent	O R 1/15
			Power to which a unit is raised	
Not Used	C00115	649	Multiplier	O R 1/10
			Value to be used as a multiplier to obtain a new value	
Not Used	QTY04	61	Free-Form Message	X AN 1/30
			Free-form information	

Segment: **TDS** Total Monetary Value Summary

Position: 010

Loop:

Level: Summary

Usage: Mandatory

Max Use: 1

Purpose: To specify the total invoice discounts and amounts

Syntax Notes:

Semantic Notes:

- 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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TDS01	610	Amount Monetary amount	M N2 1/15
Not Used	TDS02	610	Amount Monetary amount	O N2 1/15
Not Used	TDS03	610	Amount Monetary amount	O N2 1/15
Not Used	TDS04	610	Amount Monetary amount	O N2 1/15

Segment:	ITA Allowance, Charge or Service
Position:	020
Loop:	ITA Optional
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To specify allowances, charges, or services
Syntax Notes:	<ol style="list-style-type: none"> 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required. 2 If ITA08 is present, then ITA09 is required. 3 If either ITA10 or ITA11 is present, then the other is required. 4 If ITA15 is present, then ITA02 is required. 5 If ITA17 is present, then ITA12 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 ITA09 is the allowance or charge percent. 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. 3 ITA12 is the quantity of free goods.
Comments:	<ol style="list-style-type: none"> 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present. 2 ITA02 identifies the source of the code value in ITA03 or ITA15. 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence. 4 ITA13 is used to clarify the allowance, charge, or service. 5 ITA15 specifies the individual code list of the agency specified in ITA02. 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ITA01	248 Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	ITA02	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
Not Used	ITA03	560 Special Services Code Code identifying the special service	X ID 2/10
M	ITA04	331 Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account 06 Charge to be Paid by Customer	M ID 2/2
	ITA05	341 Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
Not Used	ITA06	359 Allowance or Charge Rate Allowance or Charge Rate per Unit	O R 1/15

	ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge	O	N2 1/15
Not Used	ITA08	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated	O	ID 1/1
Not Used	ITA09	332	Percent Percent expressed as a percent	X	R 1/6
Not Used	ITA10	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	ITA11	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID 2/2
Not Used	ITA12	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	ITA13	352	Description A free-form description to clarify the related data elements and their content	X	AN 1/80
	ITA14	150	Special Charge or Allowance Code Code identifying type of special charge or allowance For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	X	ID 3/3
Not Used	ITA15	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O	AN 1/15
	ITA16	662	Relationship Code Code indicating the relationship between entities A Add O Information Only	O	ID 1/1
Not Used	ITA17	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2

Segment: **DTM** Date/Time Reference
Position: 030
Loop: ITA Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **REF** Reference Identification
Position: 035
Loop: ITA Optional
Level: Summary
Usage: Optional
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 11 Account Number 12 Billing Account	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
Not Used	C04006	127	Code qualifying the Reference Identification Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **BAL** Balance Detail
Position: 040
Loop: BAL Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance A Adjustment M Current Month P Previous Month	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount BT Bank Reject Total NA Net Adjustment PB Billed Amount TP Total payment amount TT Total Transaction Amount	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount	M R 1/18

Segment: **N1** Name
Position: 060
Loop: N1 Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual 87 Pay-to Provider SJ Service Provider	M ID 2/3
	N102	93	Name Free-form name	X AN 1/60
	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 41 Telecommunications Carrier Identification Code 42 Telecommunications Pseudo Carrier Identification Code 91 Assigned by Seller or Seller's Agent	X ID 1/2
	N104	67	Identification Code Code identifying a party or other code	X AN 2/80
Not Used	N105	706	Entity Relationship Code Code describing entity relationship	O ID 2/2
Not Used	N106	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3

Segment: **BAL** Balance Detail
Position: 070
Loop: BAL Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To identify the specific monetary balances associated with a particular account
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	Balance Type Code Code indicating the type of balance M Current Month	M ID 1/2
M	BAL02	522	Amount Qualifier Code Code to qualify amount MD Minimum Due	M ID 1/3
M	BAL03	782	Monetary Amount Monetary amount	M R 1/18

- Segment:** **ITA** Allowance, Charge or Service
- Position:** 090
- Loop:** ITA Optional
- Level:** Summary
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify allowances, charges, or services
- Syntax Notes:**
- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
 - 2 If ITA08 is present, then ITA09 is required.
 - 3 If either ITA10 or ITA11 is present, then the other is required.
 - 4 If ITA15 is present, then ITA02 is required.
 - 5 If ITA17 is present, then ITA12 is required.
- Semantic Notes:**
- 1 ITA09 is the allowance or charge percent.
 - 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 3 ITA12 is the quantity of free goods.
- Comments:**
- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
 - 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
 - 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
 - 4 ITA13 is used to clarify the allowance, charge, or service.
 - 5 ITA15 specifies the individual code list of the agency specified in ITA02.
 - 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge	M ID 1/1
	ITA02	559	Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
Not Used	ITA03	560	Special Services Code Code identifying the special service	X ID 2/10
M	ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge 04 Credit Customer Account 06 Charge to be Paid by Customer	M ID 2/2
	ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
Not Used	ITA06	359	Allowance or Charge Rate Allowance or Charge Rate per Unit	O R 1/15

	ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge	O	N2 1/15
Not Used	ITA08	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated	O	ID 1/1
Not Used	ITA09	332	Percent Percent expressed as a percent	X	R 1/6
Not Used	ITA10	380	Quantity Numeric value of quantity	X	R 1/15
Not Used	ITA11	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID 2/2
Not Used	ITA12	380	Quantity Numeric value of quantity	X	R 1/15
	ITA13	352	Description A free-form description to clarify the related data elements and their content	X	AN 1/80
	ITA14	150	Special Charge or Allowance Code Code identifying type of special charge or allowance For a list of valid DE150 values, see Section 10.4 Maintained Code List used by ETB within the ETB Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	X	ID 3/3
Not Used	ITA15	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O	AN 1/15
	ITA16	662	Relationship Code Code indicating the relationship between entities O Information Only	O	ID 1/1
Not Used	ITA17	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID 2/2

Segment: **DTM** Date/Time Reference
Position: 100
Loop: ITA Optional
Level: Summary
Usage: Optional
Max Use: 2
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 007 Effective	M ID 3/3
	DTM02	373	Date Date expressed as CCYYMMDD	X DT 8/8
Not Used	DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X TM 4/8
Not Used	DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O ID 2/2
Not Used	DTM05	1250	Date Time Period Format Qualifier	X ID 2/3
Not Used	DTM06	1251	Date Time Period Code indicating the date format, time format, or date and time format Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **REF** Reference Identification
Position: 105
Loop: ITA Optional
Level: Summary
Usage: Optional
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification 12 Billing Account	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Not Used	C04005	128	Reference Identification Qualifier	X	ID 2/3
			Code qualifying the Reference Identification		
Not Used	C04006	127	Reference Identification	X	AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **CTT** Transaction Totals
Position: 115
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes:
 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: The number of line items (CTT01) is the accumulation of the number of IT1 segments.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	CTT01	354	Number of Line Items Total number of line items in the transaction set Number of IT1 segments in this transaction set.	M NO 1/6
Not Used	CTT02	347	Hash Total 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
Not Used	CTT03	81	Weight Numeric value of weight	X R 1/10
Not Used	CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X ID 2/2
Not Used	CTT05	183	Volume Value of volumetric measure	X R 1/8
Not Used	CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X ID 2/2
Not Used	CTT07	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80

Segment: **SE** Transaction Set Trailer
Position: 120
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

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