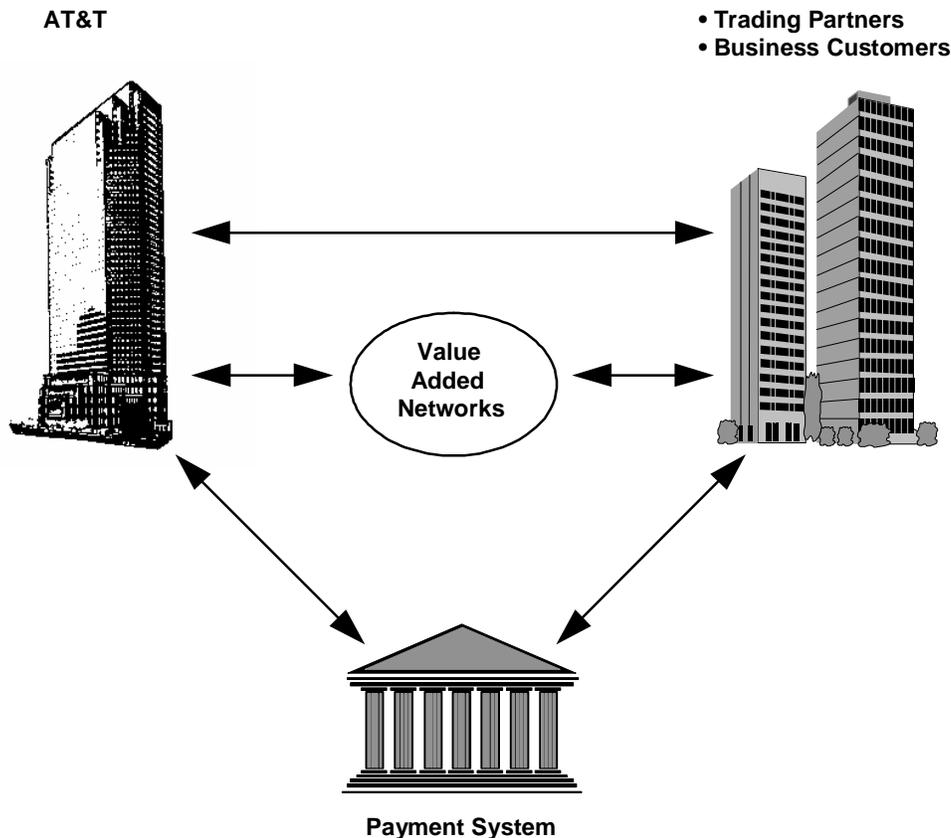




Electronic Commerce Customer Guide

811 Transaction Set (Version/Release 004010)

Electronic Data Interchange - Electronic Funds Transfer



Building Electronic Partnerships For The Future...Today

Release: **February 2010**

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1 Overview

The information in this section reflects the implementation of the Consolidated Service Invoice/Statement Transaction Set (811) by AT&T. EDI Telecommunications Billing (ETB), author of the Issue 9 OBF/EDI Guideline, has developed business models for providing detail bill information for common services. As a member of ETB, AT&T has taken an active role in the development of the “common services” models.

For ease of reference, the 811 Implementation Guide is broken into several sections. This section gives an overview of this guide and the 811. Subsequent sections explain the implementation of the 811 by AT&T. Each section provides a comprehensive discussion of the information AT&T is providing for a particular area of the bill and the format of the segments being used to provide information. The section on auditing the 811 points to the ETB website to explain the summing rules that can be used to validate the charges. Section 7 provides a comprehensive list of segments and data elements that are used in producing the 811.

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 Schedule of 811 Versions

This 811 Implementation Guide should be used in conjunction with the ASC X12 Draft Version 4 Release 1 standards and the Issue 9 OBF/EDI Guideline for the 811. The OBF/EDI Guideline can be found on the World Wide Web within the ETB home page http://www.atis.org/obf/etbguid_Iss9_Rev3.asp

The file format documented applies to all files that AT&T provides with a value of “004010” in **GS08** to signify release 4 version 1 of the transaction set. The format of this file will be updated as billing changes impact the structure.

Trading partners receiving the 811 will be given at least 30 days notice to review pending changes before a new format is delivered. The intention of AT&T is to provide a stable transaction set for trading partners while working toward consistency of implementation in the telecommunications industry.

1.4 Bill and Transaction Formats Provided

AT&T provides different bill formats and different 811 formats. It is important to be aware of which *bill format* and *811 format* you have chosen to receive.

1.4.1 Bill Formats Provided

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

- **Single Account Billing** - CRIS Billing System
This billing arrangement produces one bill per telephone number, with one to many stations.
- **Individual Account Summary for a Summary Billing Arrangement (SBA)** - CRIS Billing System
Single accounts are consolidated under a single number. This produces a special summary 811 followed by a "memo" 811 for each subordinate account. Section 6 of this guide provides a comprehensive explanation of this type of billing arrangement.

1.4.2 811 Formats Provided

AT&T provides the 811 in one of the following formats: The heading and summary areas of all these formats are identical. The detail areas differ in the level of detail provided.

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. Summary information is provided within HLs 1 and 4, and full detail information is provided at HLs 5 - 9. Detail options available are Call Detail, Adds and Changes detail (OC&C), and Customer Service Record (CSR).

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

The *Detail 811 with the Customer Service Record* provides an inventory of products and services. It is estimated that the additional CSR adds approximately 40% to the size of each 811.

Abbreviated 811s

The *Abbreviated 811* formats provide high-level account information. This format contains bill information from the "Remittance" page and "Summary of Current Charges" page of the paper bill. The advantage of this format is a less complex programming effort and lower VAN charges. Summary information is provided within HL levels 1 and 4.

1.5 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. AT&T prefers to use 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).

1.6 Functional Group Information

All 811 transaction sets provided will be enveloped within a functional group. The purpose of the functional group is to provide control information for the business document being exchanged. The functional group consists of a *functional group header* (GS segment) and a *functional group trailer* (GE segment).

GS Segment

Example: GS*CI*006968523MTF*123456XYZ*920615*1527*128*X*004010!

D.E.	Use	Reference	Element #	Data Valid Values/Description
M	GS01	479	Valid Value: CI -Consolidated Invoice	
M	GS02	142	Valid Values: 006968523MTF	
M	GS03	124	Application Receiver's Code	
M	GS04	29	Data Interchange Date	
M	GS05	30	Data Interchange Time	
M	GS06	28	Data Interchange Control Number <i>Matches value in GE02 at end of functional group.</i>	
M	GS07	450	Valid Value: X -Accredited Standards Committee X12	
M	GS08	480	Valid Value: 004010 - Version 4, Release 1	

GE Segment

Example: GE*337*128!

D.E.	Use	Reference	Element #	Data Valid Values/Description
M	GE01	97	Number of Transaction Sets	
M	GE02	28	Data Interchange Control Number <i>Matches value in GS06 at beginning of functional group.</i>	

1.7 Structure of the 811

The 811 is divided into three tables, the Heading area (Table 1), the Detail area (Table 2) and the Summary area (Table 3).

Table 1 contains information about the parties exchanging the invoice and is referred to as the heading area of the 811. Some of the common data elements passed in the heading area are:

Account number	Nature of the bill
Billing party (AT&T)	Billed party (Customer)
Invoice Date	Due date for payment

Table 2 contains service usage and charge information, and is referred to as the detail area of the 811. The detail area is divided into 9 hierarchical levels.

Level 1, Service Provider level, contains information about the provider of the service. The information contained in the heading area refers to the provider or consolidator of the bill (i.e., AT&T), while information contained at the service provider level refers to the actual entity providing the service. AT&T also provides aggregate tax information at this level. It is very common to have charges from more than one service provider for a given account (e.g., AT&T, Sprint, and MCI charges can all appear on an AT&T invoice).

Level 2, Billing Arrangement level, contains information about the billing arrangement. **AT&T does not use level 2.**

Level 3, Sub-Billing Arrangement level, can also contain information about the billing arrangement. **AT&T does not use level 3.**

Level 4, Group level, provides summary charge information for services rendered. The information at this level relates to the Carrier summary pages of the paper bill.

Level 5, Category level, provides segregation of level 4 charges. Telephone Number and Circuit Number are examples of the data provided at level 5. AT&T uses levels 5, 6, and 7 to organize charges within the 811. For example, most itemized charges are sorted by a Circuit ID at level 6, and a Purchase Order Number at level 7.

Level 6, Sub-Category level, is similar to level 5 in providing further segregation of level 4 charges. A Circuit ID is an example of the data provided at this level.

Level 7, Type level, is similar to levels 5 and 6 in providing a further segregation of level 4 charges. A Purchase Order Number is an example of the data provided at this level.

Level 8, Charge Detail level, contains supporting charge detail for charges provided at the level 4.

Level 9, Line Detail level, contains supporting usage and charge detail for charges at either level 4 or level 8.

Table 3 contains summary information about the invoice, and is referred to as the Summary area of the 811. The summary area contains several key amounts which can be used to validate the 811. Individual service provider adjustments will also be shown in this area of the 811.

1.8 Understanding Hierarchical Level Segments

In order to understand the 811, it is important to understand the use of the HL segment. The HL segment indicates the structure of the 811. The HL segment contains the following information:

HL*Hierarchical ID Number*Hierarchical Parent ID Number*Hierarchical Level Code*Hierarchical Child Code~

HL01 (Hierarchical ID Number) is a unique number assigned by the provider to identify a particular data segment in a hierarchical structure.

HL02 (Hierarchical Parent ID Number) is the HL01 value of the parent HL loop.

HL03 (Hierarchical Level Code) identifies the hierarchical level (1 - 9).

HL04 (Hierarchical Child Code) indicates if there are additional subordinate (or child) HL segments associated with the hierarchical level. Although HL04 is not a mandatory element according to X12 syntax, it is required by ETB. The value of '1' indicates that the hierarchical level has children (additional subordinate HL data segments in the hierarchical structure). The value of '0' indicates that the hierarchical level has no children (no subordinate HL segment in the hierarchical structure). This provides positive confirmation of subordinate HL loops.

AT&T provides summary level charges at HL 4. Each charge which has supporting detail (e.g., itemized calls) will be provided in a separate HL loop, with the supporting detail immediately following.

Below are examples which illustrate the use of the HL segment in the 811. The HL01 data element always contains the sequential number of the respective HL loop.

HL~1~1~1!

HL02 is not provided. This means the information provided does not have a parent HL loop. HL03 signifies HL 1, the service provider level. HL04 indicates that there is supporting detail at a lower level.

HL~2~1~4~0!

HL02 indicates that this information supports and is related to the information provided in HL loop number 1. HL03 signifies HL 4, the group level. HL04 indicates that there are no additional HL segments under this HL segment. Several IT1 loops can appear under the same HL loop when HL04 = "0".

HL~3~1~4~1!

HL02 indicates that this information supports and is related to the information provided in HL loop number 1. HL03 signifies HL 4, the group level. HL04 indicates that there is supporting detail at a lower level. When HL04 = "1", only one IT1 loop will appear within this HL loop.

HL~4~3~5~1!

HL02 indicates that this information supports and is related to the information provided in HL loop number 3. HL03 signifies HL 5, the Category level. HL04 indicates that there is supporting detail at a lower level.

HL~5~4~9~0!

HL02 indicates that this information supports and is related to the information provided in HL loop number 4. HL03 signifies HL 9, the Line Detail level. HL04 will always equal "0" when HL03 = "9".

1.9 Referencing Charges When Contacting AT&T

The information provided in the 811 is used in place of the paper bill. Since the information provided will be used to both pay bills and resolve billing discrepancies, key fields from the 811 should be passed to the customer's internal applications. The following data elements are required to reference an account:

Bill Date	BIG Segment - BIG01
Account Number	REF Segment - REF02 when REF01 = "12"
Accounts Payable Number	REF Segment - REF02 when REF01 = "AP"

1.10 Format of the Guide

A brief introduction of each section is followed by a table of segments that depicts the structure of the portion of the 811 that is currently being discussed.

After the structure table is shown, a comprehensive list of segments and data elements that are used in producing the 811 is provided.

Note that the same segment can be used in different sections of the 811 to provide different information. An example of different uses of a segment can be demonstrated with the ITA segment. In the summary area, this segment is used to provide information about service provider adjustments of the billed party; while in the detail area at HL 1, the same segment is used to provide a surcharge amount to the billed party.

2 Auditing the 811 Transaction Set

Audit procedures help ensure that AT&T and the customers are interpreting the charges and credits in the 811 in a consistent manner. This section describes how AT&T audits the 811 that is sent to their customers.

The heading area will not contain any charge amounts. The detail area will only contain current charges. The summary area contains total amounts (i.e., total current charges, total payments, total net adjustment, total payments, and total amount due to AT&T).

The optional Customer Service Record (CSR) is provided for inventory information only and not for auditing the Monthly Service charges.

This section explains how to balance or “audit” supporting detail charges to the appropriate summary level charge.

The sub-sections that follow will explain the *Rules of Extended Pricing*, *Determining the Segment Amount*, and how to “audit” supporting detail charges to the appropriate summary level charge.

2.1 Rules of Extended Pricing

When processing certain segments which contain a quantity and a unit price, the total amount being provided by that segment must be derived. This involves multiplying quantity by unit price to determine the total charge or credit.

There is one exception to this rule. If the segment contains a Unit of Measurement Code (DE355) and that data element contains the value “M4” (Monetary Value), then rules of extended pricing do not apply for that segment. This means that when the “M4” value is used, the unit price is the total charge or credit for the segment. AT&T uses the “M4” value in the IT1 and SLN segments.

2.2 Determining the Segment Amount

For ease of reference the term **segment amount** is used to designate the monetary amount that a segment provides after:

1. Extended pricing rules have been applied.
2. Relational checks have been performed to ensure that the monetary amount is not being supplied for informational purposes only.

Certain segments contain both an amount and a code value identifying whether the amount is a credit or a charge. The OBF/EDI 811 Guideline states that within the detail area of the 811, the sign of the amount field will control the monetary value (positive or negative). The code values should be treated as informational only. They have no impact on the sign interpretation.

The following sub-sections discuss how to determine the segment amount of each “money” segment.

2.2.1 BAL Segment

The amount in BAL03 is the segment amount.

2.2.2 IT1 Segment

The amount in IT104 is the segment amount.

2.2.3 ITA Segment

The amount in ITA07 is the segment amount.

If ITA16 = “O”, then the segment amount is for information purposes only.

2.2.4 SLN Segment

If SLN05 = “M4”, then the amount in SLN06 is the segment amount.

If SLN05 ≠ “M4”, then the product of SLN04 and SLN06 is the segment amount.

If SLN08 = “O”, then the segment amount is for information purposes only.

2.2.5 TXI Segment

The amount in TXI02 is the segment amount.

If TXI07 = “O”, then the segment amount is for information purposes only.

2.2.6 TDS Segment

The amount in TDS01 is the segment amount.

2.2.7 TCD Segment

The amount in TCD12 is the segment amount.

If TCD16 = “O”, then the segment amount is for information purposes only.

2.2.8 USD Segment

The amount in USD08 is the segment amount.

If USD01 = “O”, then the segment amount is for information purposes only.

2.3 Auditing the Detail and Summary Area

The summing rules that can be used to audit the detail and summary areas of the 811 can be found within the OBF/EDI Guideline at the following website:

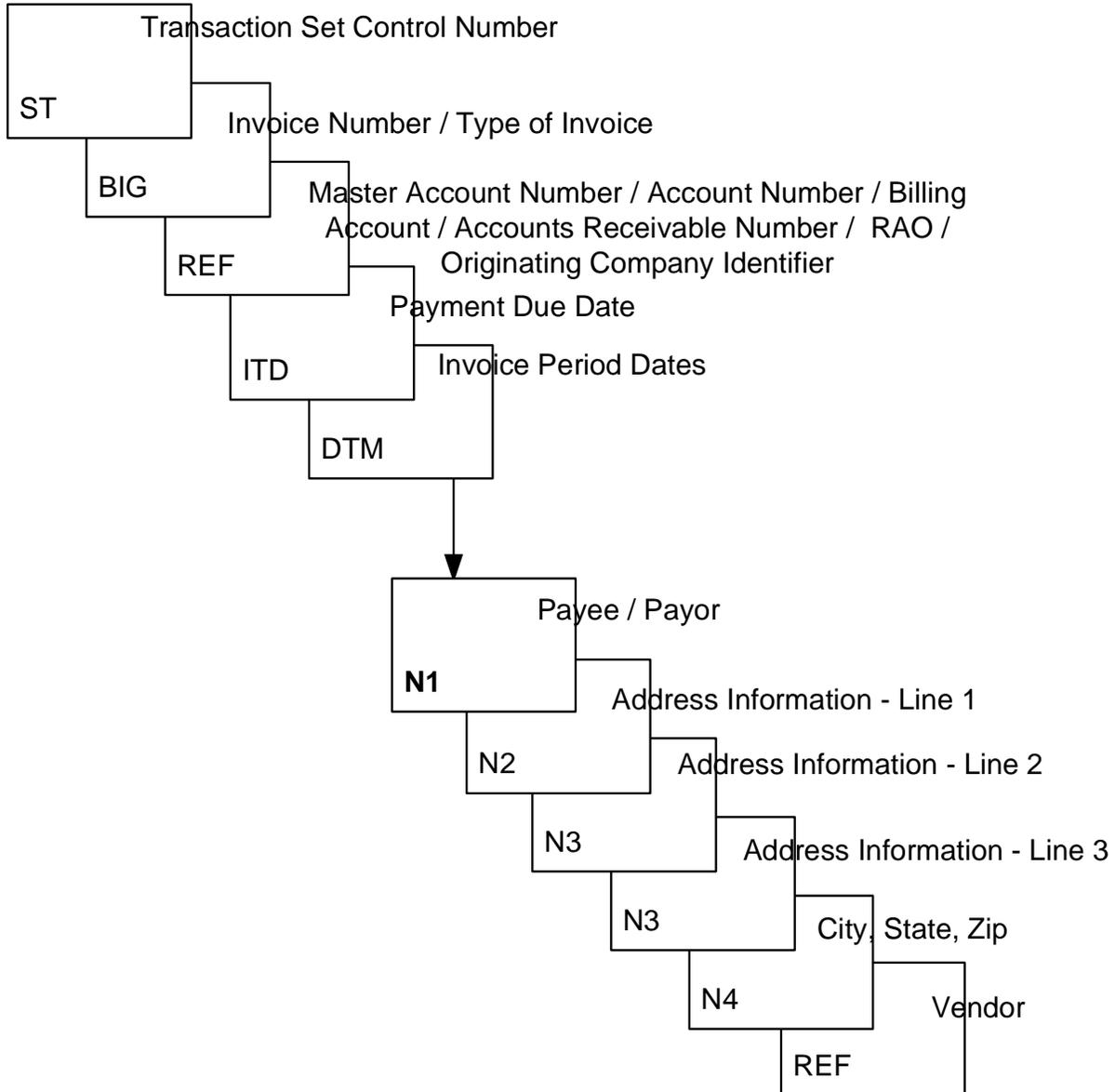
http://www.atis.org/obf/etbguid_Iss9_Rev3.asp

Select "Guidelines" and view the Issue 9 documents. Section 7 is a Business Model overview which provides the summing rules for balancing the 811 transaction set.

3 The 811 TS - Heading Area

The heading area of the 811 provides information about the customer, the bill provider, the account, type of invoice, and the invoice period. There are no billable amounts in the heading area.

3.1.1 Flow Chart / Heading



3.1.2 811 TS - Segment and Data Element Use / Heading

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
ST	ST	ST01	143	TRANSACTION SET IDENTIFIER CODE "811" = Consolidated Service Invoice/ Statement	ID	3/3
		ST02	329	TRANSACTION SET CONTROL NUMBER Control Number	AN	4/9
	BIG	BIG01	373	DATE Billing Date (CCYYMMDD)	DT	8/8
		BIG02	76	INVOICE NUMBER Invoice Number	AN	1/21
		BIG07	640	TRANSACTION TYPE CODE "CD" = Consolidated Debit Invoice (Master Accounts) "CE" = Consolidated Credit Invoice (Master Accounts) "CF" = Consolidated Debit Memo (Master Accounts) "CG" = Consolidated Credit Memo (Master Accounts) "CN" = Credit Invoice (Stand-alone Accounts) "CR" = Credit Memo (Auxiliary & Convergent Accounts) "DI" = Debit Invoice (Stand-alone Accounts) "DR" = Debit Memo (Auxiliary & Convergent Accounts) "FB" = Final Bill (Stand-alone Accounts) "FD" = Consolidated Invoice, Final Bill (Master Accounts) "FE" = Memorandum, Final Bill (Auxiliary & Convergent Accounts) "ME" = Memorandum (Auxiliary & Convergent Accounts)	AN	2/2
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "11" = Account Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Account Number	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "EH" = Financial Classification Code	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Revenue Accounting Office (RAO) Number	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "AP" = Accounts Receivable Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Accounts Receivable Number of Payment Processing	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "14" = Master Account Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Master Account Number	AN	1/30

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "12" = Billing Account	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Billing Account Number	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "8M" = Originating Company Identifier	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Billing Cycle Number	AN	1/30
	ITD	ITD01	336	TERMS TYPE CODE "03" = Fixed Date "18" = Fixed Date, Late Payment Penalty Applies	ID	2/2
		ITD02	333	TERMS BASIS DATE CODE "3" = Invoice Date	ID	1/2
		ITD06	446	TERMS NET DUE DATE Payment Due Date (CCYMMDD)	DT	8/8
		ITD14	107	PAYMENT METHOD CODE "AC" = Credit Card "E" = Electronic Payment System	ID	1/2
	DTM	DTM01	374	DATE/TIME QUALIFIER "186" = Invoice Period Start "187" = Invoice Period End	ID	3/3
		DTM02	373	DATE Date (CCYMMDD)	DT	8/8
N1	N1	N101	98	ENTITY IDENTIFIER CODE "PE" = Payee	ID	2/3
		N102	93	NAME Payee Name	AN	1/60
	N3	N301	166	ADDRESS INFORMATION Remit to Address	AN	1/55
	N4	N401	19	CITY NAME Free-form text for city name	AN	2/30
		N402	156	STATE OR PROVINCE CODE Two character State Code	ID	2/2
		N403	116	POSTAL CODE Zip Code	ID	3/15



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
N1	N1	N101	98	ENTITY IDENTIFIER CODE "PR" = Payer	ID	2/3
		N102	93	NAME Customer Name	AN	1/60
	N3	N301	166	ADDRESS INFORMATION Address Information - Line 1	AN	1/55
		N302	166	ADDRESS INFORMATION Address Information - Line 2	AN	1/55
	N3	N301	166	ADDRESS INFORMATION Address Information - Line 3	AN	1/55
	N4	N401	19	CITY NAME Free-form text for city name	AN	2/21
		N402	156	STATE OR PROVINCE CODE Two character State Code	ID	2/2
		N403	116	POSTAL CODE Zip Code	ID	4/15

4 The 811 TS - Detail Area

The Detail Area of the 811 provides details of charges and credits within the current invoice period. The activity reflected is either since the last bill, or over a specified period of time. Within the Detail Area of the 811, there are unique EDI data structures. Each of these data structures are discussed in the subsections that follow.

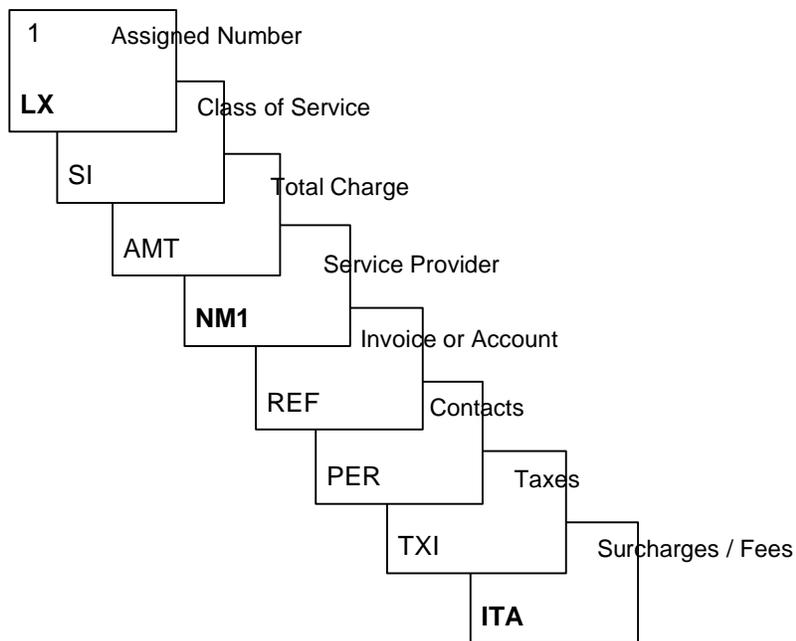
1. Service Provider
2. Individual Account Summary for a Summary Billing Arrangement
3. Monthly Service/Customer Service Record
4. Directory Assistance
5. Directory Assistance - AT&T
6. Directory Assistance - Other Carriers
7. Directory Advertising
8. Customized Billing Services
9. Adds and Changes
10. Itemized Calls and Non-Billable Call Detail
11. Interexchange Carrier Invoice Charges
12. PSP Compensation
13. Basic 800
14. Custom 8 (only applies to AT&T California)
15. AT&T Intrastate 800
16. AT&T LESAL 800
17. Optional Calling Plans
18. Measured Service
19. Public Packet Switching
20. TCD Loop
21. Centrex Contract Billing
22. Voice Mail
23. Itemized Charges and Credits
24. Usage Charges
25. Contracts and Discounts
26. Miscellaneous

4.1 Service Provider

Each 811 TS will have at least one service provider at HL1. The name of the providing company, the total service charges for that service periods and any associated taxes, surcharges, and special charges or credits are associated to that service provider. The service provider may be AT&T or one of many telecommunications providers that AT&T performs billing services for.

The EDI flow, structure and syntax for Service Provider are conveyed on the pages that follow.

4.1.1 Flow Chart / Service Provider



4.1.2 811 TS - Segment and Data Element Use / Service Provider

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 1</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "1" = Service/Billing Provider	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "CL" = Class of Service Code	ID	2/2
		234		PRODUCT/SERVICE ID "B" = Business "R" = Residence	AN	1/48
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "SC" = Total Service Charge	ID	1/3
		AMT02	782	MONETARY AMOUNT Total Charges for the Service Provider	R	1/18
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "9D" = New Service Provider "SJ" = Service Provider	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Name of Service Provider	AN	1/35
		NM108	66	IDENTIFICATION CODE QUALIFIER "41" = Telecommunications Carrier Identification Code (IECs) "42" = Telecommunications Pseudo Carrier Identification Code "91" = Assigned by Seller or Seller's Agent	ID	1/2
		NM109	67	IDENTIFICATION CODE Code	AN	2/80
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "IV" = Seller's Invoice Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Service Provider Invoice Number	AN	1/30

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "11" = Account Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Service Provider Account Number	AN	1/30
	PER	PER01	366	CONTACT FUNCTION CODE "BI" = Bill Inquiry Contact	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Telephone Number	AN	1/40
	PER	PER01	366	CONTACT FUNCTION CODE "OD" = Order Department	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Telephone Number	AN	1/40
	PER	PER01	366	CONTACT FUNCTION CODE "AR" = Accounts Receivable Department	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Telephone Number	AN	1/40
	PER	PER01	366	CONTACT FUNCTION CODE "IC" = Information Contact	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "UR" = Uniform Resource Locator (URL)	ID	2/2
		PER04	364	COMMUNICATION NUMBER URL	AN	1/40

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	TXI	TXI01	963	TAX TYPE CODE "CA" = City Tax "CS" = City Sales Tax "FT" = Federal Excise Tax "LO" = Local Tax (Not Sales Tax) "LS" = State and Local Tax "MP" = Municipal Tax "ZE" = 911 Tax	ID	2/2
		TXI02	782	MONETARY AMOUNT Tax Amount	R	1/18
		TXI03	954	PERCENT Percent (tax rate)	R	1/10
		TXI07	662	RELATIONSHIP CODE "A" = Add	ID	1/1
ITA	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "A" = Allowance "C" = Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "04" = Credit Customer Account "06" = Charge to be paid by Customer	ID	2/2
		ITA05	341	ALLOWANCE OR CHARGE NUMBER Allowance or Charge Number	AN	1/16
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Amount	N2	1/15
		ITA09	332	PERCENT Discount Percent	R	1/6
		ITA10	380	QUANTITY Amount Eligible for Discount	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		ITA13	352	DESCRIPTION Description	AN	1/80

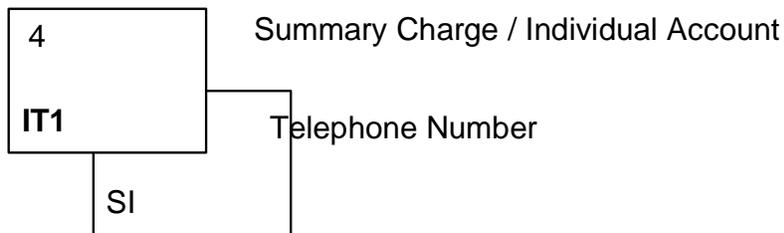
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "ACF" = Access Charge Federal (Network Access Surcharge) or (Digital Line Port) "CCR" = Concession Credit "DAB" = Deposit "DDS" = Deaf and Disabled Surcharge "DSC" = Discount "EAC" = Exchange Access Credit (CA Teleconnect surcredit) "EQA" = Equal Access Surcharge "ESC" = Emergency Service "FUS" = Federal Universal Service "ISD" = Interest on Security Deposit "LNP" = Long Term Number Portability Surcharge "LSS" = Lifeline Surcharge "PPP" = Payphone Public Policy Surcharge "PSP" = Payphone Service Provider Surcharge "REE" = Regulatory Fee "STC" = State Surcharge "SUR" = Surcharge "SUS" = State Universal Service (CA High Cost Fund) or (CA Teleconnect Fund) "UTL" = Buried Facilities Surcharge	ID	3/3
		ITA16	662	RELATIONSHIP CODE "A" = Add	ID	1/1

4.2 Individual Account Summary for a Summary Billing Arrangement

This detail provides the billing telephone accounts associated with a Summary Bill Arrangement (SBA), their individual total charge amount, and the total amount billed. The total amount is included in the Summary Bill Arrangement account total.

Please note that the amount due on the individual accounts is zero. The amount due is transferred to the SBA. The EDI flow, structure and syntax for Individual Account Summary for a Summary Billing Arrangement are conveyed on the pages that follow.

4.2.1 Flow Chart /Individual Account Summary for a Summary Billing Arrangement



4.2.2 811 TS - Segment and Data Element Use / Individual Account Summary for a Summary Billing Arrangement

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Amount for Individual Account	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "2050" = Total Amount Billed (for Summary/ Consolidated Billing Only)	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "4" = Summary/Combined Charges	AN	1/48
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Account Number of Individual Account	AN	1/48

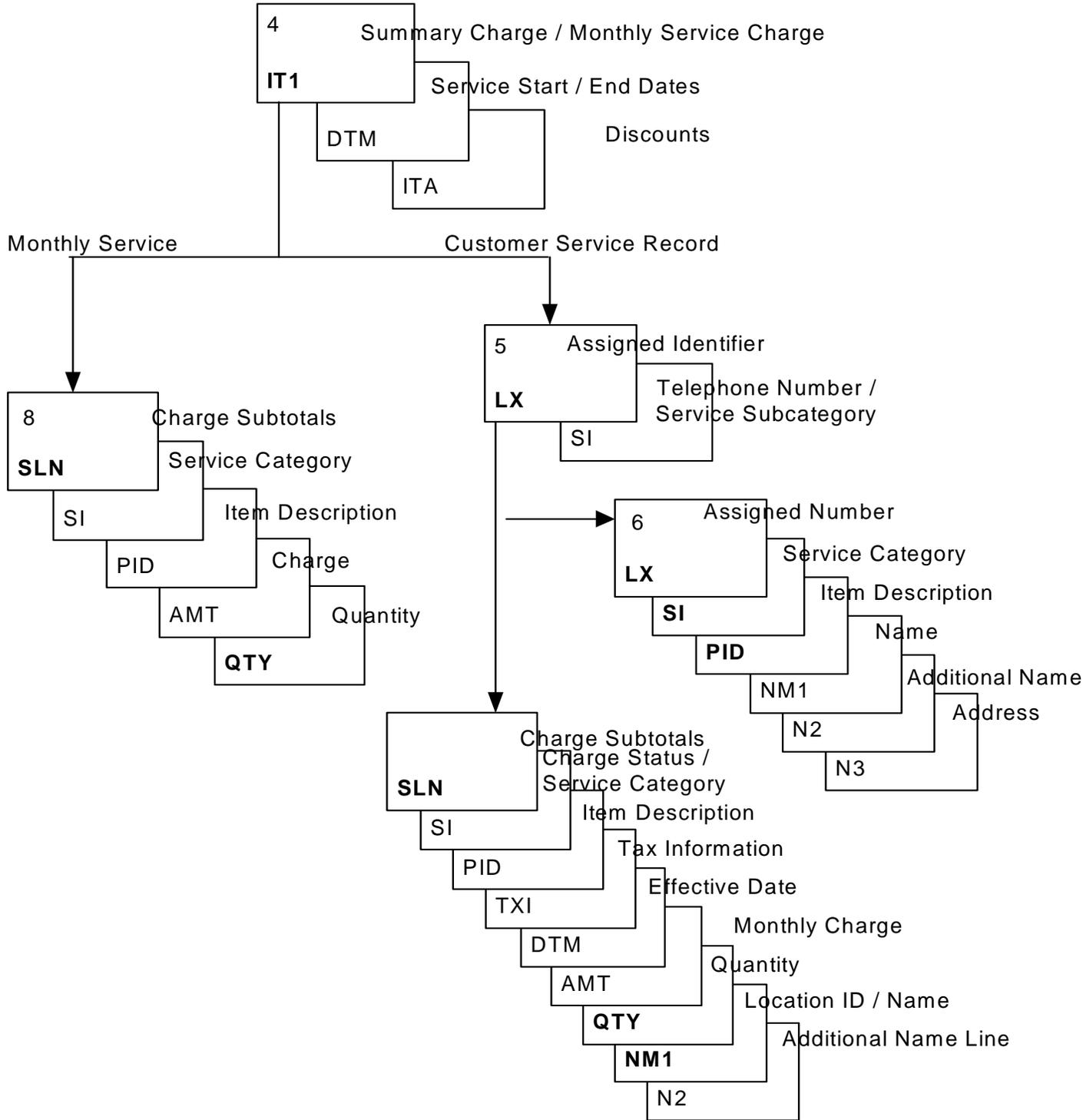
4.3 Monthly Service / Customer Service Record

Monthly Service detail provides the total monthly service amount for products and services that have a monthly recurring charge

The Customer Service Record (CSR) detail section is optional and provides an inventory of the products and services with a monthly recurring charge that a customer subscribes to (as displayed on the paper CSR). It provides the Universal Service Order Code (USOC), the working telephone number or circuit, quantity, amount, activity date, any discount percent, and secondary location addresses.

The EDI flow, structure and syntax for Monthly Service/Customer Service Record are conveyed on the pages that follow.

4.3.1 Flow Chart / Monthly Service-Customer Service Record



4.3.2 811 TS - Segment and Data Element Use / Monthly Service-Customer Service Record

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Monthly Service Amount	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0200" = Monthly Service Charge	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "1" = Recurring Charges "3" = Usage	AN	1/48
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" = Service Period Start "151" = Service Period End	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
ITA	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "A" = Allowance "C" = Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "04" = Credit Customer Account "06" = Charge to be paid by Customer	ID	2/2
		ITA05	341	ALLOWANCE OR CHARGE NUMBER	AN	1/10



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				Line Number		
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount or Charge Amount	N2	1/15
		ITA09	332	PERCENT Discount or Charge Percent	R	1/6
		ITA10	380	QUANTITY Amount Eligible for Discount	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		ITA13	352	DESCRIPTION Description of Discount or Charge	AN	1/80
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "AAJ" = Adjustments "DSC" = Discount	ID	3/3
		ITA16	662	RELATIONSHIP CODE "A" = Add	ID	1/1
Level 8	Monthly Service					
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always one	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Line Item Billed Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN09	235	Product/Service ID Qualifier "SV" = Service Rendered	ID	2/2
		SLN10	234	Product/Service Id "1740" = Miscellaneous	AN	1/48
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CN" = Circuit Number Identification Code	ID	2/2
			234	PRODUCT/SERVICE ID Circuit Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SI" = Circuit Number Special ID	ID	2/2
			234	PRODUCT/SERVICE ID Circuit ID	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "PQ" = Major Product Code	ID	2/2
			234	PRODUCT/SERVICE ID "S" = PremierSERV	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description of product/service	AN	1/80
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization "LI" = Line Item Unit Price	ID	1/3
		AMT02	782	MONETARY AMOUNT Amount	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "01" = Discrete Quantity "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "P1" = Percent	ID	2/2
<hr/>						
<i>Level 5-</i>	<i>CSR</i>					
<i>A</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				Sequential number assigned to the LX loop		
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BN" = Billing Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Billing Telephone Number	AN	1/48
<hr/>						
<i>Level 5- B</i>	<i>CSR</i>					
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequence Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "CSRASIS" = Additional Services IS "CSRASPB" = Additional Services "CSRCBPB" = Custom Billing "CSRDRAD" = Directory Advertising "CSREUPB" = ESP End-User "CSRILIS" = Individual Lines IS "CSRPBC" = Communications "CSRPBI" = System Services Internet "CSRSSAT" = System Services AT&T "CSRSSIS" = System Services IS "CSRSSPB" = System Services "CSRWPLI" = White Pages Listing USOC	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BN" = Billing Telephone Number "DN" = Directory Book Name "MB" = Mail Box "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Billed Telephone Number (BN) Directory Name (DN) Mailbox Number (MB) Telephone Number (TN)	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 8-A						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always one	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	PID	PID01	349	ITEM DESCRIPTION TYPE "X" = Semi-structured (Code and Text)	ID	1/1
		PID03	559	AGENCY QUALIFIER CODE "AS" = Assigned by Seller	ID	2/2
		PID04	751	PRODUCT DESCRIPTION CODE "SA" = Service Address	AN	1/12
		PID05	352	DESCRIPTION Service Address	AN	1/80
Level 8-B						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SLN04	380	QUANTITY "1" = Always one	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
		234		PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "BT" = Basic Service Type	ID	2/2
		234		PRODUCT/SERVICE ID Class of Service USOC	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	PID	PID01	349	ITEM DESCRIPTION TYPE "X" = Semi-structured (Code and Text)	ID	1/1
		PID03	559	AGENCY QUALIFIER CODE "AS" = Assigned by Seller	ID	2/2
		PID04	751	PRODUCT DESCRIPTION CODE FID code	AN	1/12
		PID05	352	DESCRIPTION FID data	AN	1/80
	TXI	TXI01	963	Tax Type Code "FT" = Federal Excise Tax "LO" = Local Tax (Not Sales Tax) "SP" = State/Provincial Tax	ID	2/2
		TXI06	441	Tax Exempt Code "1" = Yes, Tax Exempt	ID	1/1
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" - Service Period Start	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		AMT02	782	MONETARY AMOUNT Full Monthly Rate of Service/Feature	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "01" = Discrete Quantity "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Discount Percent	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "P1" = Percent	ID	2/2
<hr/>						
<i>Level 5- C</i>	<i>CSR</i>					
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "CSRILPB" = Individual Lines	AN	1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "CN" = Circuit Number Identification Code "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Circuit Number (CN) Telephone Number (TN)	AN	1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "KS" = Key System Number	ID	2/2
			234	PRODUCT/SERVICE ID Key System Number	AN	1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "DP" = Different Premises Address/Location Code "SL" = Secondary Location Address	ID	2/2
			234	PRODUCT/SERVICE ID Different Premise (DP) Secondary Location (SL)	AN	1/48

Level 6-

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
C						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Communications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "CI" = Circuit Drop Location Code	ID	2/2
			234	PRODUCT/SERVICE ID Location Code	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "X" = Semi-Structured (Code and Text)	ID	1/1
		PID03	559	AGENCY QUALIFIER CODE "AS" = Assigned By Seller	ID	2/2
		PID04	751	PRODUCTION DESCRIPTION CODE FID Code	AN	1/12
		PID05	352	DESCRIPTION FID Data	AN	1/80
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "C3" = Circuit Location Identifier	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	LAST NAME OR ORGANIZATION NAME Circuit Location ID	AN	1/35
	N2	N201	93	NAME Circuit Location Name	AN	1/60
	N3	N301	166	ADDRESS INFORMATION Address Line 1	AN	1/55
		N302	166	ADDRESS INFORMATION Address Line 2	AN	1/55
Level 8-C						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE	ID	1/2



Loop	Segment	Segment ID	DE	Description	Type	Min / Max
				"8" = Charge Detail		
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always 1	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "PA" = Primary/Originating Message Carrier	ID	2/2
			234	PRODUCT/SERVICE ID Affiliate Entity Code Identifier	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BT" = Basic Service Type	ID	2/2
			234	PRODUCT/SERVICE ID Class of Service USOC	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	PID	PID01	349	ITEM DESCRIPTION TYPE "X" = Semi-structured (Code and Text)	ID	1/1
		PID03	559	AGENCY QUALIFIER CODE "AS" = Assigned by Seller	ID	2/2
		PID04	751	PRODUCT DESCRIPTION CODE FID Code	AN	1/12
		PID05	352	DESCRIPTION FID Data	AN	1/80
	TXI	TXI01	963	Tax Type Code	ID	2/2

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				"FT" = Federal Excise Tax "LO" = Local Tax (Not Sales Tax) "SP" = State/Provincial Tax		
		TXI06	441	Tax Exempt Code "1" = Yes, Tax Exempt	ID	1/1
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" = Service Period Start	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3
		AMT02	782	MONETARY AMOUNT Full Monthly Rate of Service/Feature	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "01" = Discrete Quantity "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Discount Percent	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "P1" = Percent	ID	2/2
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "P9" = Primary Inter-Exchange Carrier (PIC)	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Carrier Name	AN	1/35
		NM108	66	IDENTIFICATION CODE QUALIFIER "41" = Telecommunication Carrier Identification Code	ID	1/2
		NM109	67	IDENTIFICATION CODE Identification Code	AN	2/80
<i>Level 5-D</i>	<i>CSR</i>					
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE	ID	2/2

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				"TI" = Telecommunications Industry		
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "CSRCCAC" = AT&T Call-Me Card "CSRCCAT" = AT&T Calling Card "CSRCCDS" = Dedicated Card (Spanish) "CSRCCOS" = One-Number Card (Spanish) "CSRCCPS" = Calling Card (Spanish) "CSRCCG" = Coast Guard Card "CSRCCNA" = Navy Card "CSRCCMR" = Marines Card "CSRCCDP" = Dedicated Card "CSRCCPB" = Calling Card "CSRCCON" = One-Number Card	AN	1/48
Level 6-D						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "IA" = Installed At	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Mailed-To Location	AN	1/35
	N3	N301	166	ADDRESS INFORMATION Address Line 1	AN	1/55
		N302	166	ADDRESS INFORMATION Address Line 2	AN	1/55
Level 8-D						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE	ID	1/1

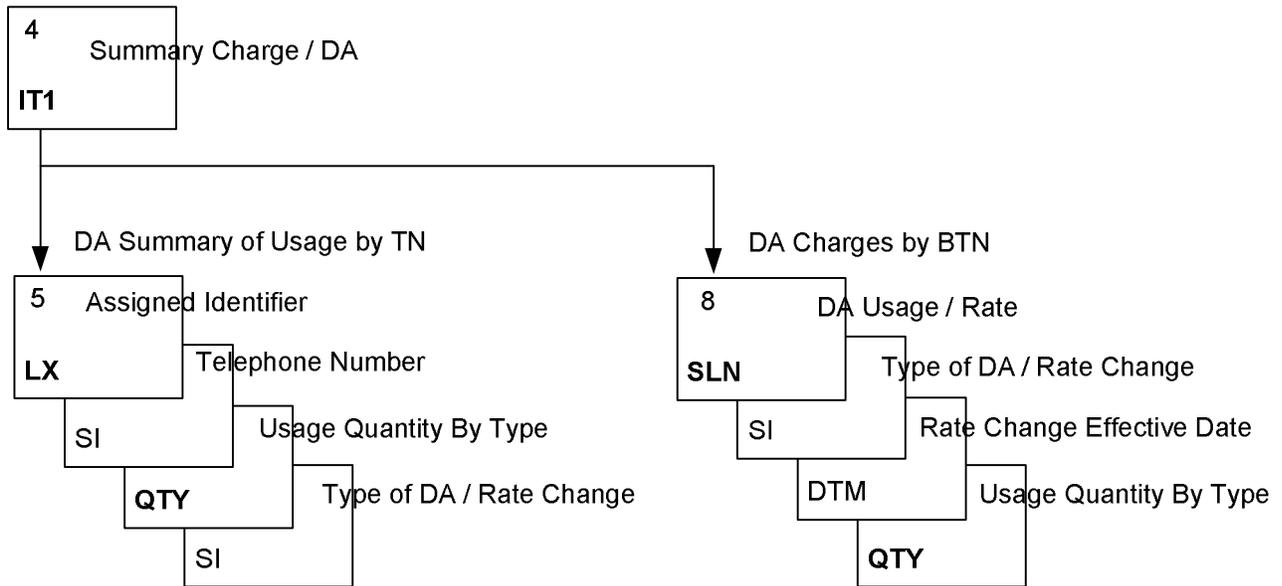
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				"I" = Included		
		SLN04	380	QUANTITY "1" = Always 1	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
		234		PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "CC" = Calling Card Number	ID	2/2
		234		PRODUCT/SERVICE ID Calling Card Number	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	PID	PID01	349	ITEM DESCRIPTION TYPE "X" = Semi-structured (Code and Text)	ID	1/1
		PID03	559	AGENCY QUALIFIER CODE "AS" = Assigned by Seller	ID	2/2
		PID04	751	PRODUCT DESCRIPTION CODE FID Code	AN	1/12
		PID05	352	DESCRIPTION FID Data	AN	1/80
	TXI	TXI01	963	Tax Type Code "FT" = Federal Excise Tax "LO" = Local Tax (Not Sales Tax) "SP" = State/Provincial Tax	ID	2/2
		TXI06	441	Tax Exempt Code "1" = Yes, Tax Exempt	ID	1/1
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" = Service Period Start	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		AMT02	782	MONETARY AMOUNT Full Monthly Rate of Service/Feature	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "01" = Discrete Quantity "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "P1" = Percent	ID	2/2
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "EN" = End User	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Name Associated with Calling Card	AN	1/35
	N2	N201	93	NAME Name Associated with Calling Card	AN	1/60

4.4 Directory Assistance – AT&T Operating Companies

Summarization of Local Directory Assistance usage is shown for each working telephone number using the Level 5 HL structure. The Local Directory Assistance Charges are shown for the billing telephone number using the Level 8 HL structure. The EDI flow, structure and syntax are conveyed on the pages that follow.

4.4.1 Flow Chart / Directory Assistance –AT&T Operating Companies



4.4.2 811 TS - Segment and Data Element Use / Directory Assistance

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Directory Assistance Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0900" = Directory Assistance	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

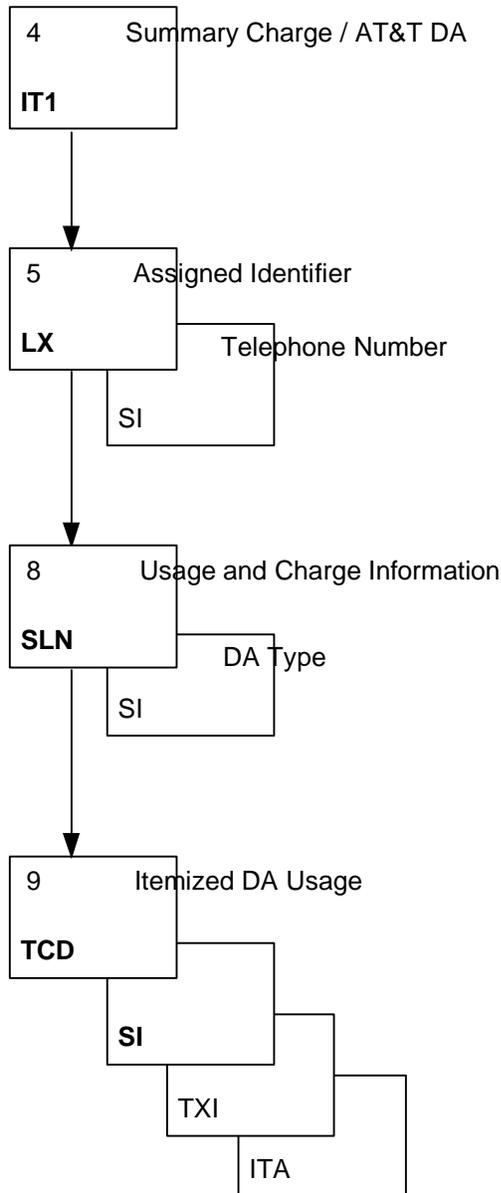
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number PRODUCT/SERVICE ID Telephone Number	ID AN	2/2 1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "92" = Allotted Usage Quantity "94" = Billable Quantity "99" = Quantity Used "AI" = Number of Operator Credits	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "C0" = Calls	ID	2/2
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "DA" = Directory Assistance Category Code PRODUCT/SERVICE ID "11" = Both 411 and 555 combined	ID AN	2/2 1/30
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "QT" = Quantity Qualifier PRODUCT/SERVICE ID "NR" = New Rate	ID AN	2/2 1/30
Level 8						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY Quantity Billed	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls "EA" = Each	ID	2/2
		SLN06	212	UNIT PRICE Rate	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DA" = Directory Assistance Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "11" = Both 411 and 555 combined	AN	1/30
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CH" = Charge/Usage Status Code	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Rate Change	AN	1/30
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "92" = Allotted Usage Quantity "99" = Quantity Used "AI" = Number of Operator Credits	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS OF MEASUREMENT CODE "CO" = Calls	ID	2/2

4.5 Directory Assistance – AT&T

This section provides the EDI flow, structure and syntax for AT&T Directory Assistance. The usage is accumulated by telephone number and directory assistance type. Itemized usage may be provided.

4.5.1 Flow Chart / Directory Assistance – AT&T



4.5.2 811 TS - Segment and Data Element Use / Directory Assistance – AT&T

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE AT & T Directory Assistance Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0900" = Directory Assistance	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Subtotal for Domestic or International	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DA" = Directory Assistance Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "11" = Both 411 and 555 Combined "12" = International	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

4.6 Directory Assistance – Other Carriers

This detail provides the directory assistance charges as displayed on the paper bill for all other carriers other than AT&T California/AT&T Nevada and AT&T. It is a total of the directory assistance charges with no other detail provided.

The EDI flow, structure and syntax are conveyed on the pages that follow.

4.6.1 Flow Chart / Directory Assistance – Other Carriers

4	Summary Charge / IEC DA
IT1	

4.6.2 811 TS - Segment and Data Element Use / Directory Assistance – Other Carriers

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Directory Assistance Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0900" = Directory Assistance	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48

4.7 Directory Advertising

This section provides the EDI flow, structure and syntax associated with Directory Advertising. The limited data provided parallels the charges provided on the paper bill.

Please note that this subtotal does not include charges for shipment of telephone directories. Charges for Telephone directories are included under Additions and Changes charges.

The EDI flow, structure and syntax for Directory Advertising are conveyed on the pages that follow.

4.7.1 Flow Chart / Directory Advertising

4	Summary Charge / Directory Advertising
IT1	

4.7.2 811 TS - Segment and Data Element Use / Directory Advertising

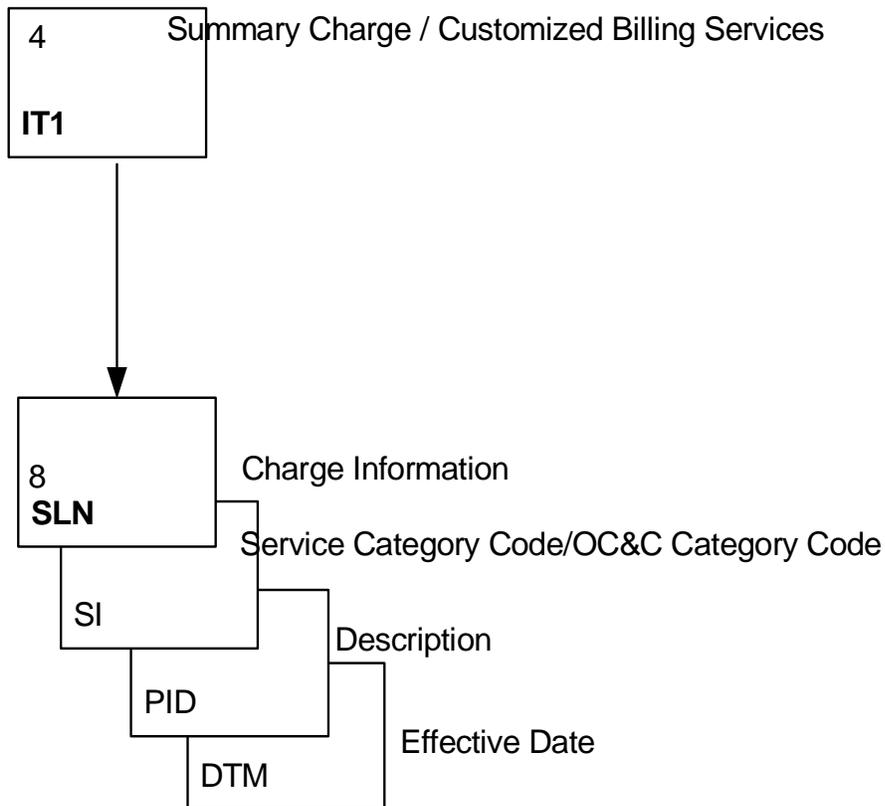
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Directory Advertising Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0600" = Directory Advertising	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		ITI09	234	PRODUCT/SERVICE ID "1" = Recurring Charge	AN	1/48

4.8 Customized Billing Services

Customized Billing Services are charges for the alternative billing media products such as Mag Tape, CD-ROM, and Custom Billing Disk. Charges may also be present for the billing of volume sensitive service products such as multiple paper bill copies and/or CSR copies.

The EDI flow, structure and syntax for Customized Billing Services are conveyed on the pages that follow.

4.8.1 Flow Chart / Customized Billing Services



4.8.2 811 TS - Segment and Data Element Use / Customized Billing Services

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Customized Billing Service Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1710" = Customized Billing Service	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "2" = Other Charges	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY Number of Pages, Records, etc.	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "DC" = Disk (Disc) "DQ" = Data Records "EA" = Each "G7" = Microfiche Sheet "M0" = Magnetic Tapes "M4" = Monetary Value "QB" = Pages - Hardcopy	ID	2/2
		SLN06	212	UNIT PRICE Unit Price	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE "PE" = Price per Each "TP" = Price per Thousand	ID	2/2
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "OC" = Other Charges & Credits Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "H10" = Additional media/report/study	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	ID	8/8

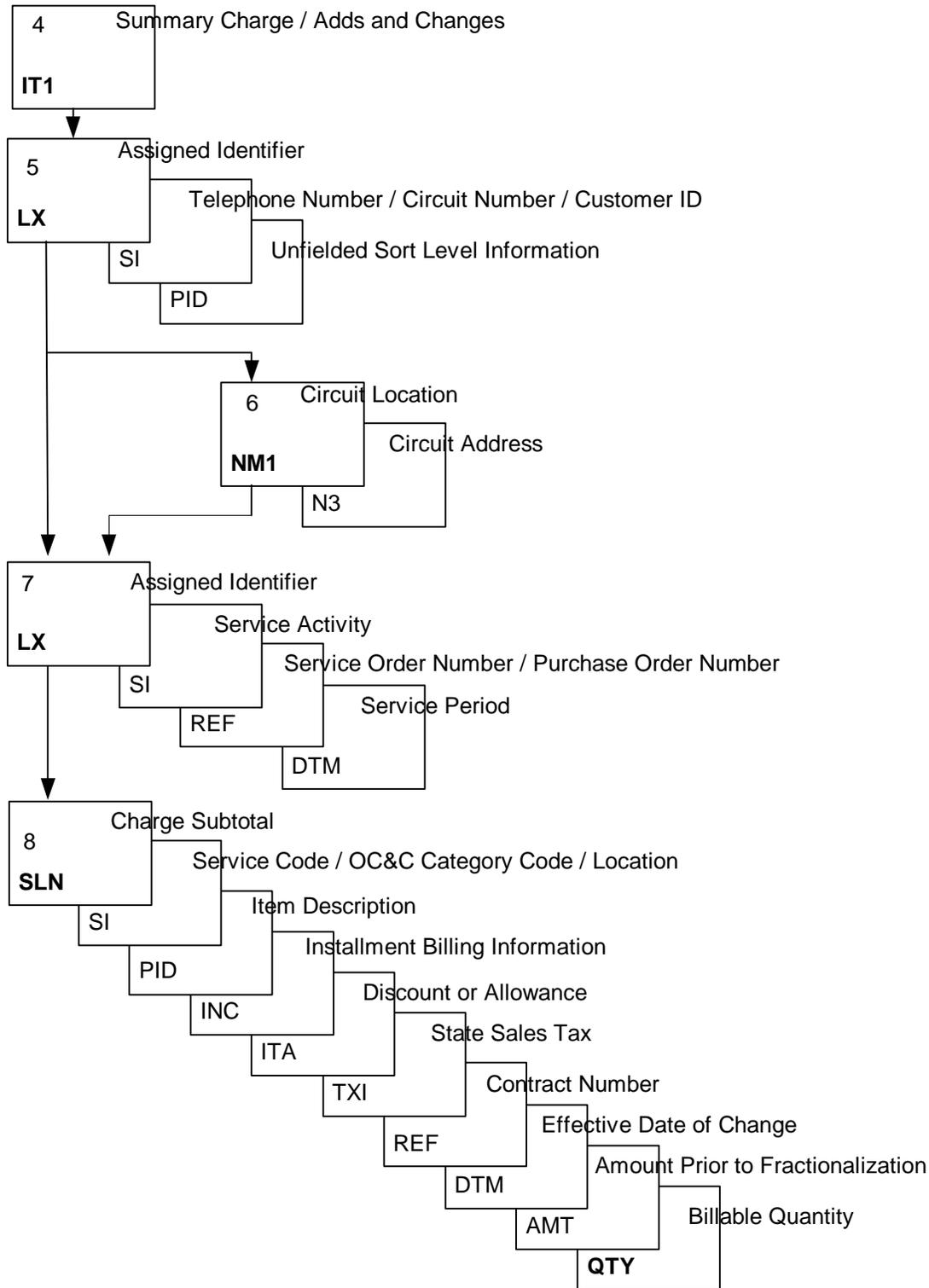
4.9 Adds and Changes

This EDI detail structure provides the Additions and Changes charges as detailed on the paper bill.

As on the paper bill the charges are grouped by working telephone number and circuit, and then the order or purchase number. Relevant start and end dates and different address location are provided when applicable.

The EDI flow, structure and syntax for Adds and Changes are conveyed on the pages that follow.

4.9.1 Flow Chart / Adds and Changes



4.9.2 811 TS - Segment and Data Element Use / Adds and Changes

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Adds and Changes Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0400" = Adds and Changes	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "2" = Other Charges	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CN" = Circuit Number Identification Code "DI" = Customer ID Code "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Circuit Number (CN) Sub-account ID (DI) Telephone Number (TN)	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SI" = Circuit Number Special ID "P6" = Terminating Type	ID	2/2
			234	PRODUCT/SERVICE ID Special ID (SI) "DD" = Dedicated (P6) "DU" = Dial up (P6)	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Free-form Information	AN	1/80
<i>Level 6</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE 'C3" = Circuit Location Identifier	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Circuit Location	AN	1/35

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	N3	N301	166	ADDRESS INFORMATION Circuit Address Line 1	AN	1/55
		N302	166	ADDRESS INFORMATION Circuit Address Line 2	AN	1/55
Level 7						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "7" = Type	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SA" = Service Activity Code	ID	2/2
			234	PRODUCT/SERVICE ID "A" = Add "C" = Change "D" = Delete	ID	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "VN" = Vendor Order Number	AN	2/3
		REF02	127	REFERENCE IDENTIFICATION Service Order Number	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "PO" = Purchase Order Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Purchase Order Number	AN	1/30
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" = Service Period Start "151" = Service Period End	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	ID	8/8

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 8						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 7	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY Quantity	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Prorated, One-Time Charge, Discount, or Charge Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	ID	1/30

Loop	Segment	Segment ID	DE	Description	Type	Min / Max
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "OC" = Other Charges and Credits Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "A" indicates an adjustment related to partial month charges or credits: "A01" Adjustment related to partial month charges or credits "A02" Service billed before connection "A03" Service Outage/Interruption "A04" Suspension of Service "B" indicates charges or credits related to a change in rate: "B01" Charge or credit related to rate change "B02" Carrier Access Line "B03" Rate changed to discount rate "C" indicates charges or credits related to additions, changes, or deletions in monthly recurring events: "C01" Addition, change or deletion related to monthly recurring events "C02" Due to change in billing "C03" Directory advertising "C04" Promotional credit/discount/gift "C05" Reversal of credit due to early removal "C06" Service discontinued by provider "C07" Reversal of promotional credit "D" indicates adjustments related to previously billed events: "D01" Adjustment related to previously billed events "D02" Directory advertising "D03" Directory assistance "D04" Error in billing rate "D05" Tax "D06" Surcharge "D07" Late payment charge "D08" Disputed amount "D09" Transferred billing charges "D10" On discount "E" indicates credits due to refund: "E01" Refund "E02" Interest "E03" Deposit "E04" Regulatory "E05" Overbilling "F" indicates charges or credits due to banking transactions: "F01" Charge or credit due to a banking transaction "F02" Dishonored check/electronic fund transfer "G" indicates charges or credits due to installment billing transactions: "G01" Charge or credit related to installment	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				billing		
				"G02" Construction installation		
				"G03" Transfer to a new number		
				"G04" Repair		
				"G05" Connection/equipment		
				"H" indicates charges or credits due to non-recurring events:		
				"H01" Charge or credit related to non-recurring event		
				"H02" Premise visit		
				"H03" Materials/equipment		
				"H04" Labor		
				"H05" Materials/equipment and labor		
				"H06" Central office connection		
				"H07" Processing/conversion/service ordering		
				"H08" Installation/Establishment/Activation		
				"H10" Additional media/report/study		
				"H11" Shipping/handling		
				"H12" Construction		
				"H13" Expedite		
				"H14" Change/rearrangement/removal		
				"H15" Usage sensitive		
				"H16" Gift of service/installation		
				"H17" Foreign directory		
				"H18" Discount on installation		
				"H19" Directory Advertising/Listing		
				"H20" Promotional Credit/Discount/Gift		
				"H21" Penalty		
				"I" indicates charges or credits due to Primary Interexchange Carrier (PIC) activity:		
				"I01" Charge or Credit related to Primary Interexchange Carrier activities		
				"I02" Disputed amounts		
				"I03" Carrier merger		
				"I04" No selection		
				"I05" Promotional Primary Interexchange Carrier change		
				"J" indicates charges or credits due to IntraLata Pre-Subscribed Interexchange Carrier (LPIC) Activity:		
				"J01" Charge or Credit related to IntraLata Pre-Subscribed Interexchange Carrier (LPIC) Activity		
				"J02" Establishment		
				"J03" Change		
				"J04" Discontinue		
				"J05" No Selection		
				"J06" Assigned		
				"J07" Promotional Change		

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "KS" = Key System Number	ID	2/2
			234	PRODUCT/SERVICE ID Key System Number	ID	2/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DP" = Different Premise Address/Location Code "SL" = Secondary Location Address	ID	2/2
			234	PRODUCT/SERVICE ID Different Premise (DP) Secondary Location (SL)	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTIC QUALIFIER "PQ" = Major Product Code	ID	2/2
			234	PRODUCT/SERVICE ID "S" = PremierSERV	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	INC	INC01	336	TERMS TYPE CODE "04" = Deferred or Installment	ID	2/2
		INC02	355	UNIT OR BASIS FOR MEASUREMENT CODE "MO" = Months	ID	2/2
		INC03	380	QUANTITY Total number of installments	R	1/15
		INC04	380	QUANTITY Number of current installment	R	1/15
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "A" = Allowance	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "04" = Credit Customer Account	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount Amount (credit)	N2	1/9
		ITA09	332	PERCENT Discount Percent	R	1/6

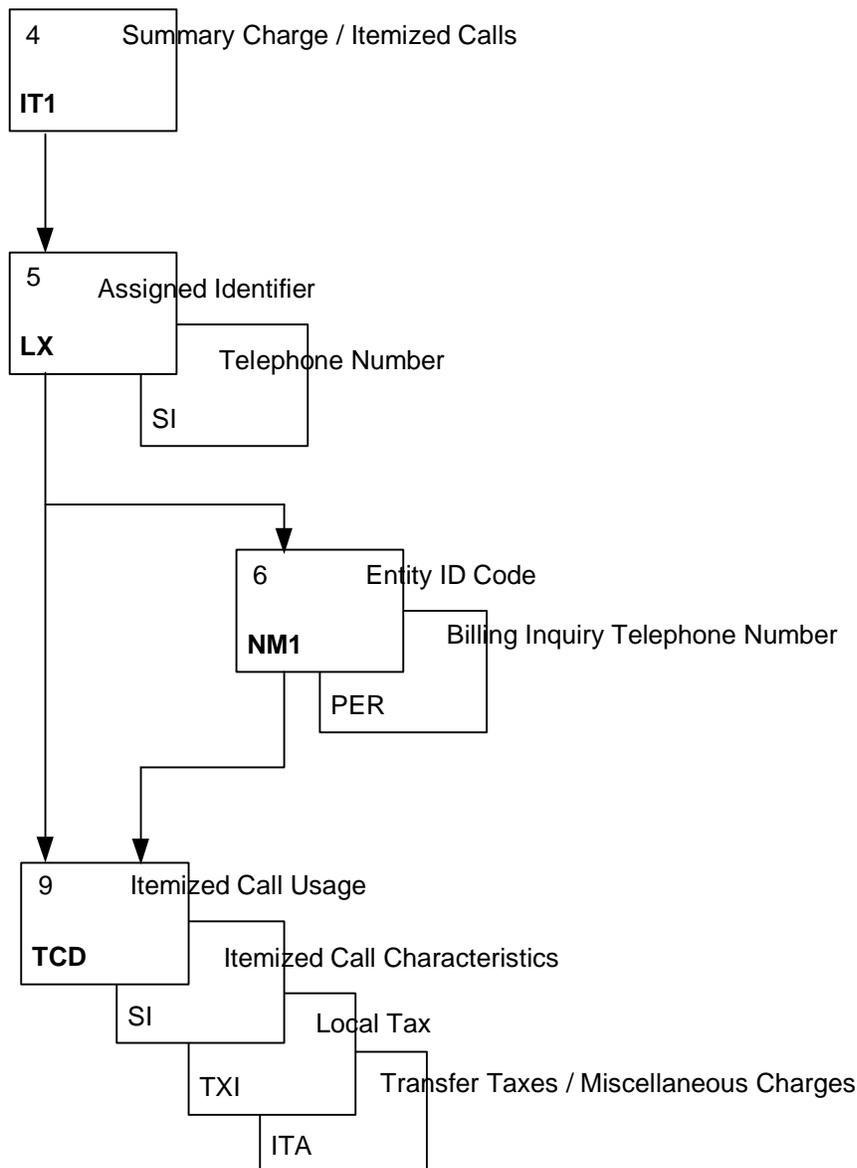
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		ITA10	380	QUANTITY Amount Eligible for Discount	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		ITA13	352	DESCRIPTION Description of Discount	AN	1/80
	TXI	TXI01	963	TAX TYPE CODE "ST" = State Sales Tax	ID	2/2
		TXI02	782	MONETARY AMOUNT Tax Amount	R	1/18
		TXI07	662	RELATIONSHIP CODE "A" = Add	ID	1/1
	REF	REF01	128	REFERENCE NUMBER QUALIFIER "CT" = Contract Number	ID	2/3
		REF02	127	REFERENCE NUMBER Contract Number	AN	1/30
	DTM	DTM01	374	DATE/TIME QUALIFIER "152" = Effective Date of Change	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3
		AMT02	782	MONETARY AMOUNT Monthly Amount Prior to Fractionalization	R	1/18
	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15

4.10 Itemized Calls and Non-Billable Call Detail

Itemized Calls is the detail associated with Local Toll, Zone 3, Operator & System Assisted, Calling Card, and Information Service (900/976) calls as displayed on the paper bill. This is provided for each working telephone number.

The EDI flow, structure and syntax for Itemized Calls and Non-Billable Call Details is conveyed on the pages that follow.

4.10.1 Flow Chart / Itemized Calls and Non-Billable Call Detail



4.10.2 811 TS - Segment and Data Element Use / Itemized Calls and Non-Billable Call Detail

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Itemized Calls Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0500" = Itemized Calls "1870" = Additional Calls	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

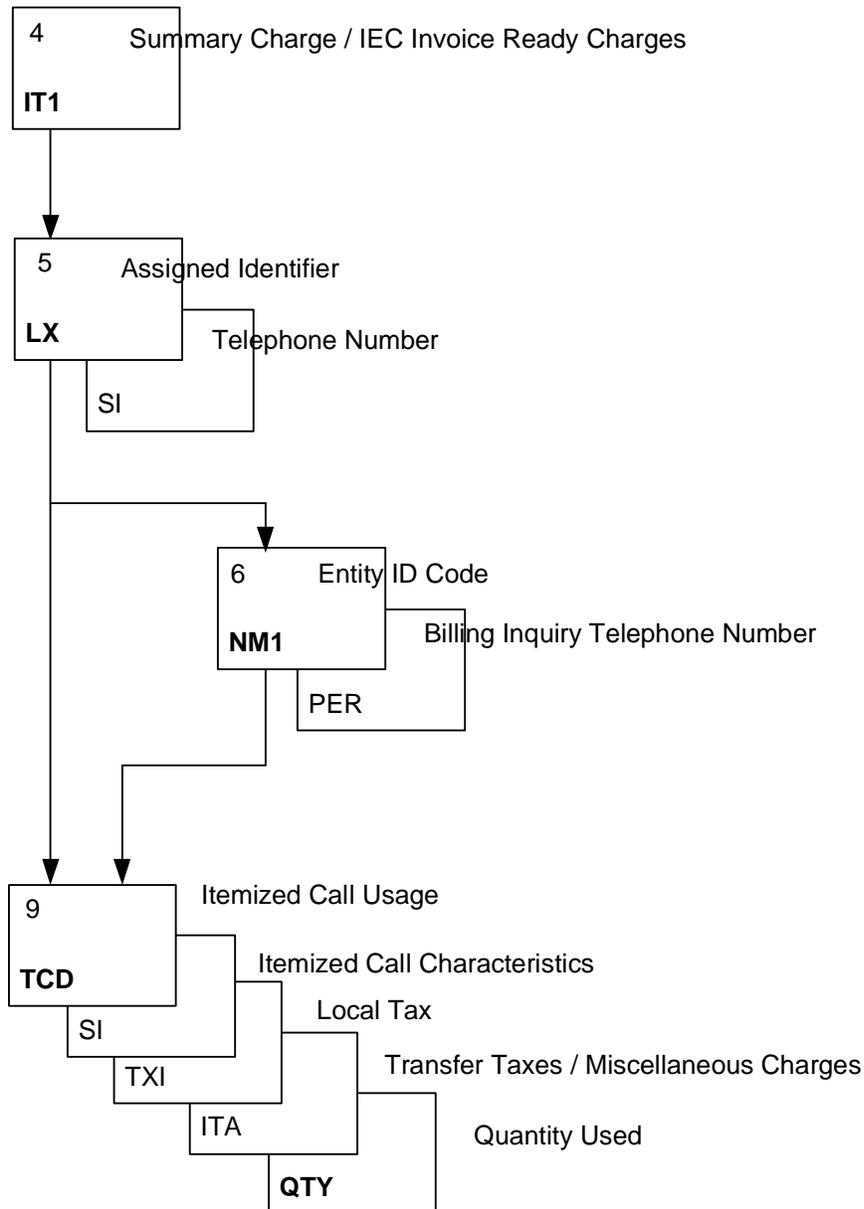
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
Level 6						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "9D" = New Service Provider "CA" = Carrier	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Name of Service Provider	AN	1/35
		NM108	66	IDENTIFICATION CODE QUALIFIER "91" = Assigned by Seller or Seller's Agent	ID	1/2
		NM109	67	IDENTIFICATION CODE Code	AN	2/80
	PER	PER01	366	CONTACT FUNCTION CODE "BI" = Bill Inquiry Contact	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Contact Number	AN	1/80

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

4.11 Interexchange Carrier Invoice Charges

This section provides the EDI flow, structure and syntax for conveying Interexchange Carrier Invoice Charges sent to AT&T for inclusion on our invoice.

4.11.1 Flow Chart / Interexchange Carrier Invoice Charges



4.11.2 811 TS - Segment and Data Element Use / Interexchange Carrier Invoice Charges

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Invoice Ready Total Charge	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0510" = Interexchange Carrier Invoice Charges	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "4" = Summary/Combined Charges	AN	1/48
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number PRODUCT/SERVICE ID Telephone Number	ID AN	2/2 1/48
Level 6						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequence Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "9D" = New Service Provider "CA" = Carrier	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Name of Service Provider	AN	1/35
		NM108	66	IDENTIFICATION CODE QUALIFIER "91" = Assigned by Seller or Seller's Agent	ID	1/2
		NM109	67	IDENTIFICATION CODE Code	AN	2/80
	PER	PER01	366	CONTACT FUNCTION CODE "BI" = Bill Inquiry Contact	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Contact Number	AN	1/80

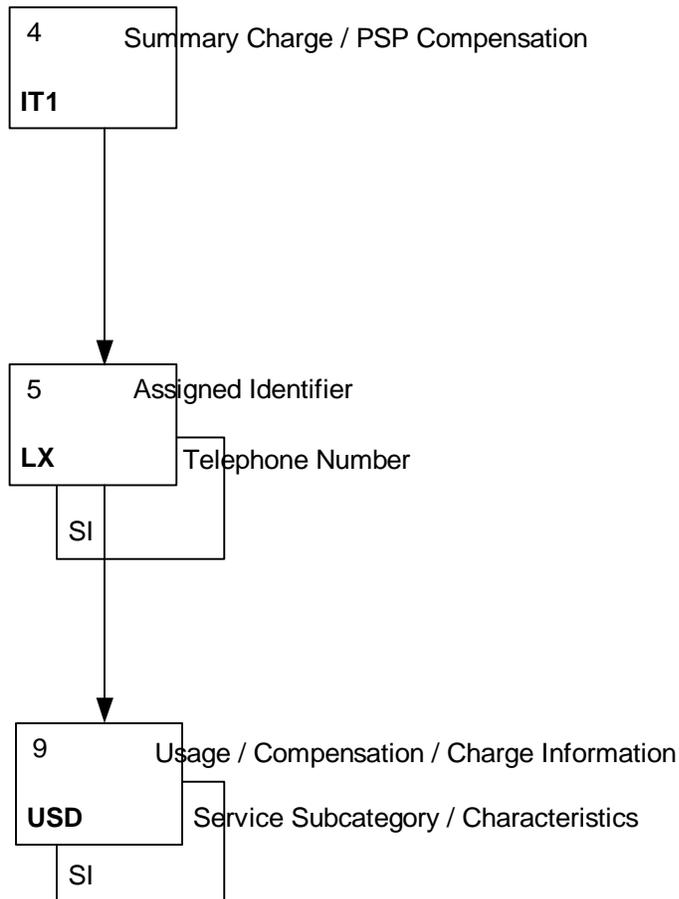
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

4.12 Pay Station Provider (PSP) Compensation

PSP Compensation detail includes a summary of the number of calls made, the total Non Sent Paid compensation credited for non-sent paid IntraLATA traffic, the total 800 Subscriber compensation credited for 800 subscriber traffic, the total Prepaid compensation credited for prepaid calling card traffic.

The EDI flow, structure and syntax for PSP Compensation are discussed on the pages that follow.

4.12.1 Flow Chart / PSP Compensation



4.12.2 811 TS - Segment and Data Element Use / PSP Compensation

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	351	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE PSP (Pay Station Provider) Shaded Section Total	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1460" = Customer Owned Pay Telephone	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	118	RATE Rate	R	1/9
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls	ID	2/2
		USD06	380	QUANTITY Number of Calls	R	1/15
		USD08	782	MONETARY AMOUNT Compensation/Charge Amount	R	1/18

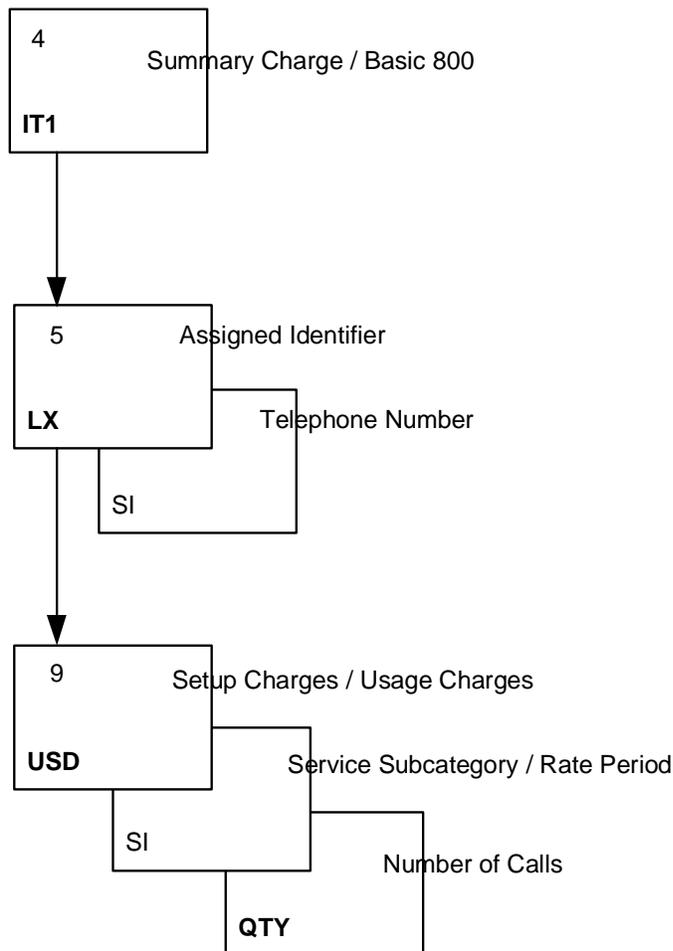
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "CA" = Internal Compensation Debit "CC" = Compensation Adjustment "CD" = Compensation Adjustment Debit "CH" = PSP Charge "CI" = Inmate Station Serv Chrg Comp "CL" = Local Call Charges "CM" = CCD Debit "CN" = Non Sent Paid Compensation "CO" = Other Compensation "CP" = Prepaid Compensation "CS" = 800 Subscriber Compensation "CW" = World Wide Platform Comp	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MH" = Month	ID	2/2
			234	PRODUCT/SERVICE ID 1 = Jan 2 = Feb 3 = Mar 4 = Apr 5 = May 6 = Jun 7 = Jul 8 = Aug 9 = Sep 10 = Oct 11 = Nov 12 = Dec	AN	1/48

4.13 Basic 800

Basic 800 is an inward bound 800 service. This service is bulk billed based on the total number of hours used. Supporting data conveys the rate per call, the rate per hour, the total number of calls, and the number of hours. Like the paper bill, call detail is not provided.

The EDI flow, structure and syntax for Basic 800 Service are conveyed on the pages that follow.

4.13.1 Flow Chart / Basic 800



4.13.2 811 TS - Segment and Data Element Use / Basic 800

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE 800 Service Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1880" = 800 Common Line	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID 800 Number	AN	1/48
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	118	RATE Rate	R	1/9
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls "HR" = Hours	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge Amount	R	1/18
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "SU" = Set-up ID	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period Code	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Peak "02" = Off-Peak	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type	ID	2/2
			234	PRODUCT/SERVICE ID "CR" = Cost Recovery	AN	1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls	ID	2/2

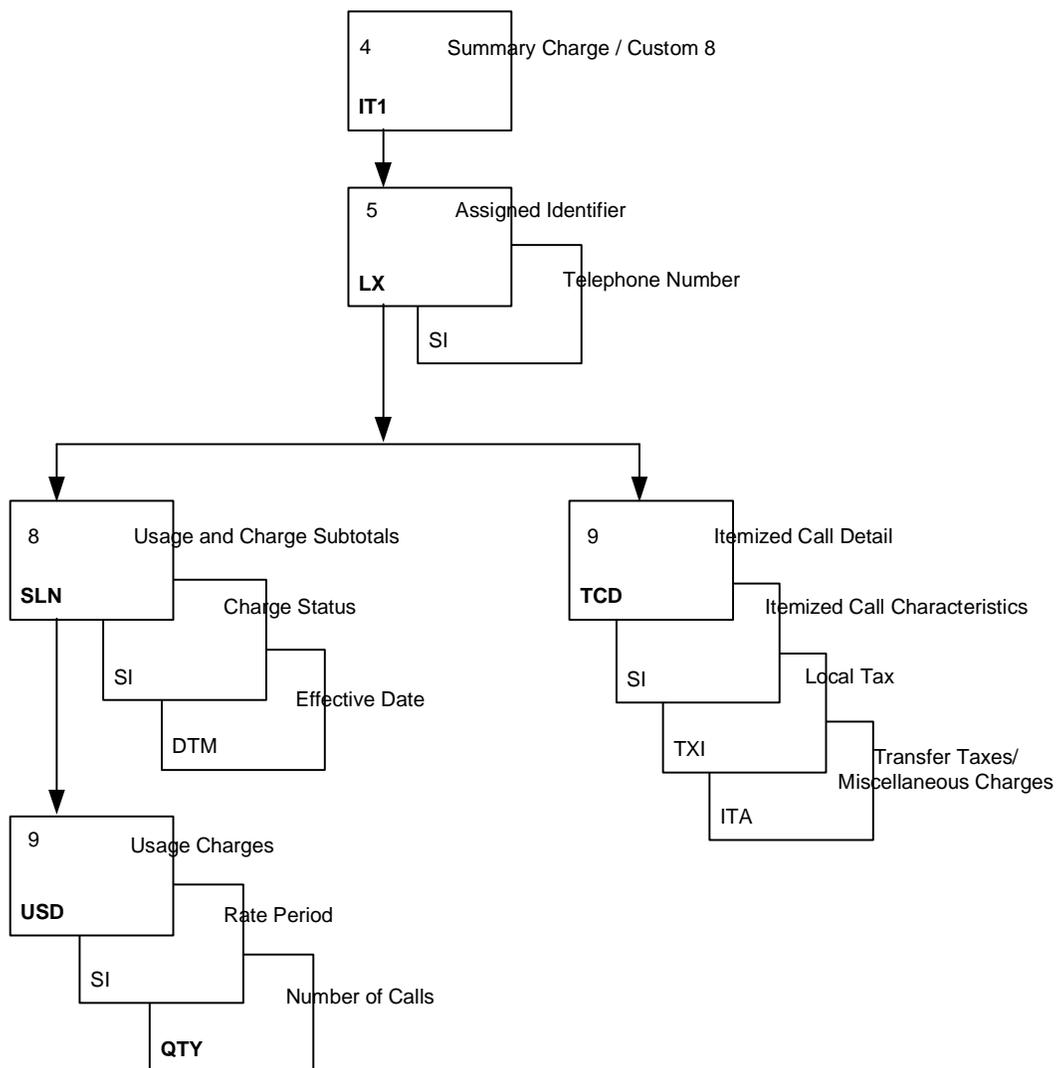
4.14 Custom 8

Note: This section is only applicable to AT&T California.

Custom 8 is an intralata inward bound 800 service. It is available only within the same service area. The usage charges are bulked billed. The total hours used and the rate per hour are conveyed. Itemized usage within the TCD structure may be provided.

The EDI flow, structure and syntax for Custom 8 is conveyed on the pages that follow.

4.14.1 Flow Chart / Custom 8



4.14.2 811 TS - Segment and Data Element Use / Custom 8

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Service Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1880" = 800 Common Line	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type - WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID 800 Number	AN	1/48
Level 8						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Subtotal for Current Usage	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CH" = Charge/Usage Status Code	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Current "03" = Rate Change	AN	1/48



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
<hr/> <i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	359	RATE Rate	R	1/9
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "HR" = Hours "MJ" = Minutes "UN" = Unit	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge for Usage	R	1/18

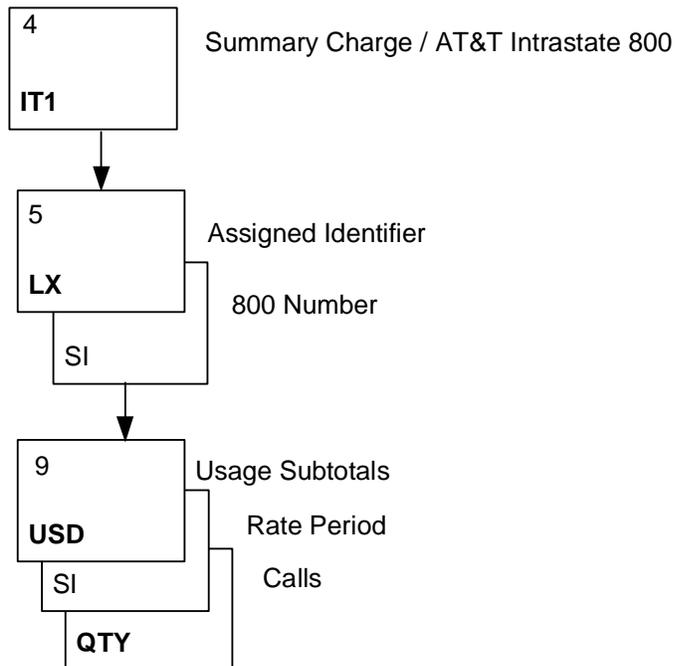
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Day "04" = Evening "05" = Night/Weekend "14" = Multi-period	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type	ID	2/2
			234	PRODUCT/SERVICE ID "CR" = Cost Recovery	AN	1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BAIS FOR MEASUREMENT CODE "C0" = Calls	ID	2/2
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

4.15 AT&T Intrastate 800

AT&T Intrastate 800 is an inward bound 800 service. The usage charges are bulked billed. This billing is generally based upon rate period and the total number of minutes used.

Like the paper bill, individual call detail is not provided with EDI. The EDI flow, structure and syntax for AT&T Intrastate 800 are conveyed on the pages that follow.

4.15.1 Flow Chart / AT&T Intrastate 800



4.15.2 811 TS - Segment and Data Element Use / AT&T Intrastate 800

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Intrastate 800 Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1880" = 800 Common Line	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
		234		PRODUCT/SERVICE ID 800 Number	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 9						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	359	RATE Rate	R	1/9
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "HR" = Hours	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Total Amount for Rate Period	R	1/18
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Peak "02" = Off-peak	AN	1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "C0" = Calls	ID	2/2

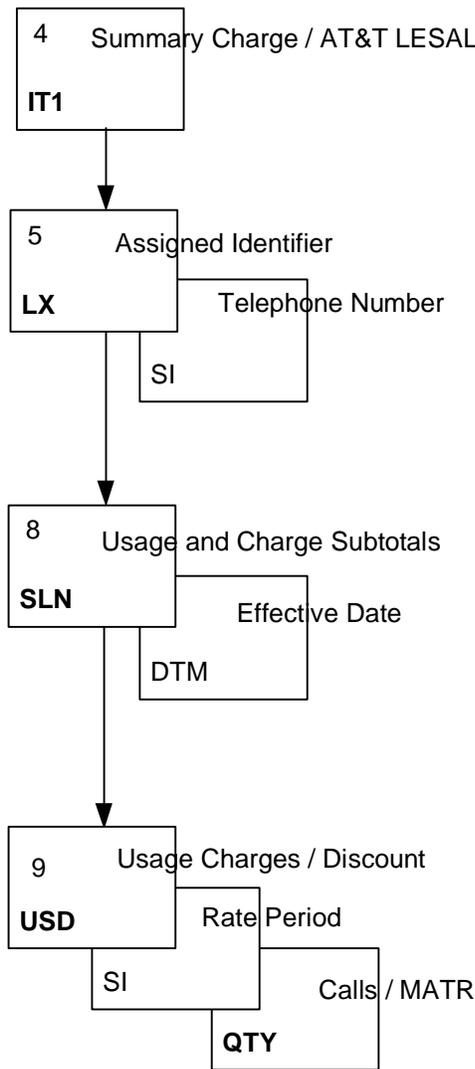
4.16 AT&T LESAL 800

This is AT&T inward bound usage terminating on Custom 8. The usage is bulk billed. Both the paper bill and the EDI will convey the number of calls, minimum hours, hours used, hours charged, rate per hour, and the charge for the service

It's possible that in the billing of this service a Minimum Average Time Required (MATR) may be invoked. The MATR is a rating process that multiplies the number of calls times a pre-determined number of minutes per call. If the total time calculated using the MATR is higher, then the MATR time is utilized in the billing.

Like the paper bill, individual call detail is not provided with EDI. The EDI flow, structure and syntax for AT&T LESAL 800 is conveyed on the pages that follow.

4.16.1 Flow Chart / AT & T Lesal 800



4.16.2 811 TS - Segment and Data Element Use / AT&T LESAL 800

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE LESAL Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1880" = 800 Common Line	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID LESAL Number	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Subtotal for Services	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	359	RATE Rate	R	1/9
		USD04	954	PERCENT Percent Discount	R	1/10
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "HR" = Hours	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge for Usage	R	1/18
		USD09	362	AMOUNT Volume Discount Amount	N2	1/10
		USD10	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		USD11	740	RANGE MINIMUM Range Minimum	R	1/20
		USD12	741	RANGE MAXIMUM Range Maximum	R	1/20

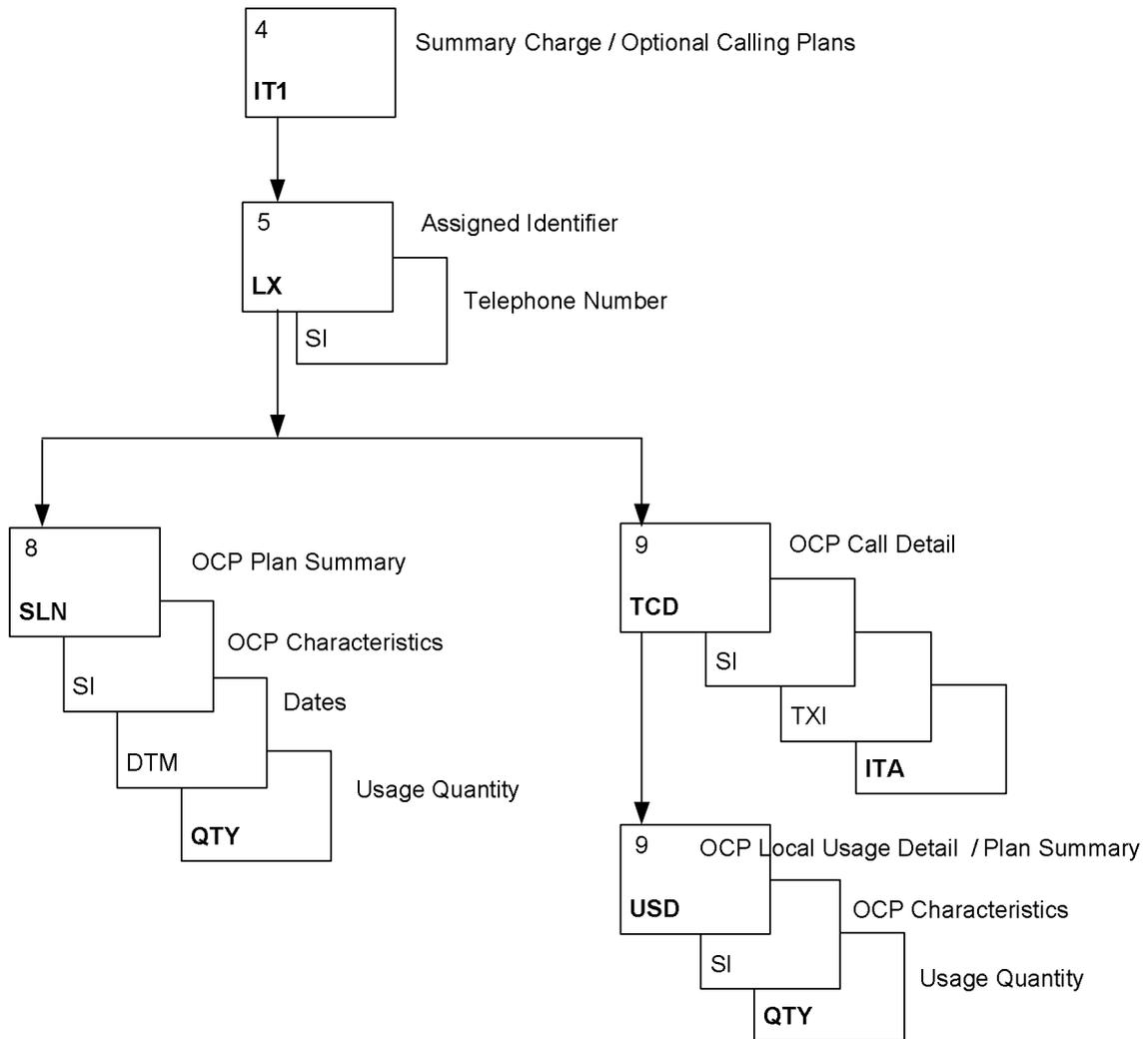
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Day "04" = Evening "05" = Night/Weekend	AN	1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity "99" = Quantity Used "AE" = Minimum Average Time Requirements (MATR) Units	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls "HR" = Hours	ID	2/2

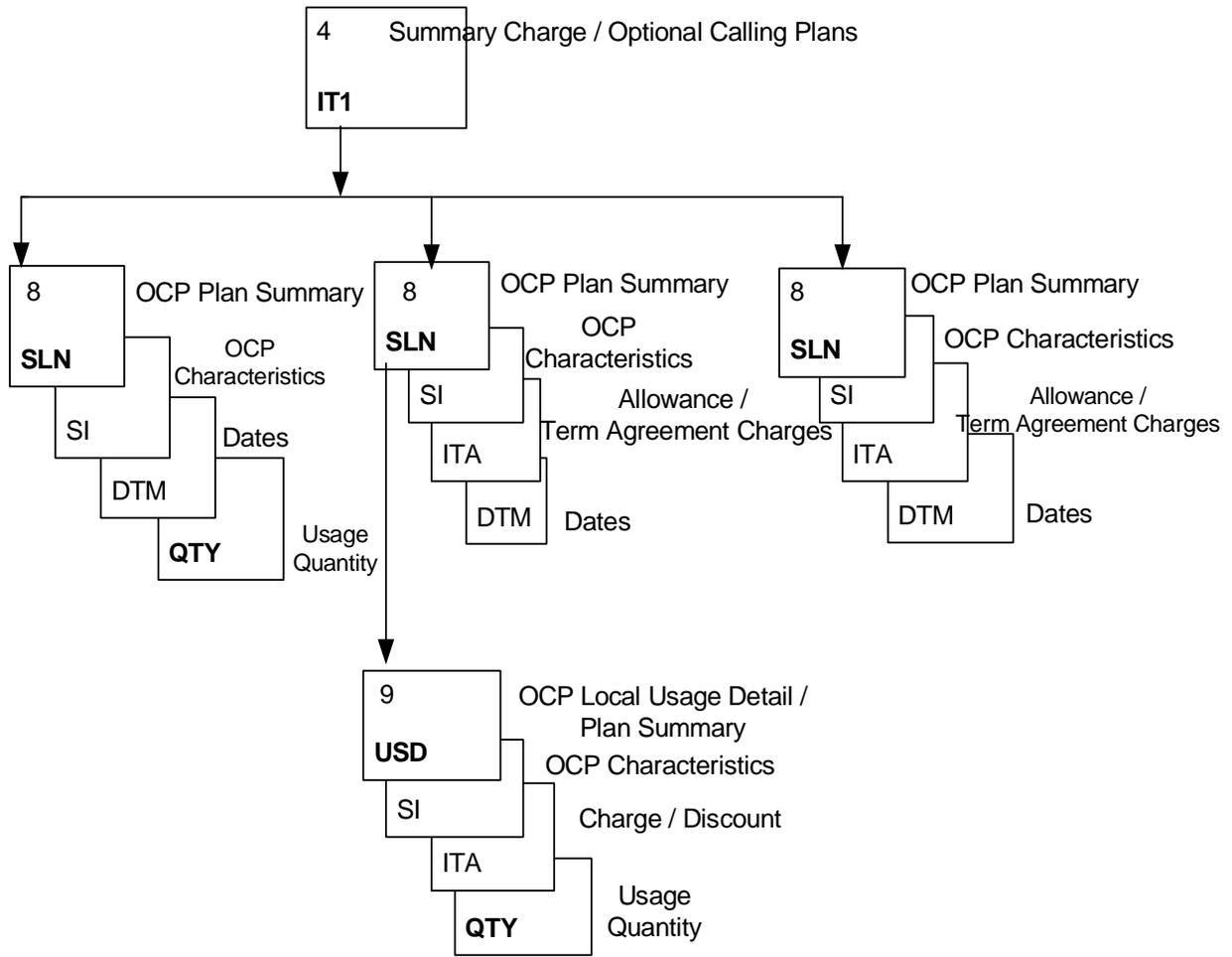
4.17 Optional Calling Plans

Types of Optional Calling Plans (OCPs) include Percentage Discount, Block of Time and Flat Rate. Depending on the OCP and customer billing preferences, individual call detail may be provided. If present, the individual call detail is for informational purposes only.

The EDI flow, structure and syntax for OCPs are conveyed on the pages that follow. Please note the additional section providing a listing of valid OCP codes.

4.17.1 Flow Chart / Optional Calling Plans





4.17.2 811 TS - Segment and Data Element Use / Optional Calling Plans

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Subtotal for All OCPs	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0800" = Optional Calling Plan	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4 or HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY Billed Quantity	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value "MJ" = Minutes	ID	2/2

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SLN06	212	UNIT PRICE Rate Subtotal for OCP	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included "O" = Information Only	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
		234		PRODUCT/SERVICE ID OCP Code	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
		234		PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "CH" = Charge/Usage Status Code	ID	2/2
		234		PRODUCT/SERVICE ID "03" = Rate Change	AN	1/48
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "A" = Allowance "C" = Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "04" = Credit Customer Account "06" = Charge to be paid by Customer	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Amount	N2	1/15
		ITA09	332	PERCENT Discount Percent	R	1/6
		ITA10	380	QUANTITY Amount Eligible for Discount	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE "DO" = Dollars, U.S.	ID	2/2

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		ITA13	352	DESCRIPTION Description	ID	1/80
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "AMP" = Adjustment from Minimum Average Time Requirement Billing "ANB" = Adjustment for Minimum Charges Billing "DSC" = Discount "MSG" = Miscellaneous Charge (Non-Plan charges) "PEN" = Penalty (Cancelled Term Agreement) "PPU" = Prepaid Usage Allowance "VAB" = Volume Discount	ID	3/3
		ITA16	662	RELATIONSHIP CODE "A" = Add "I" = Included	ID	3/3
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective "197" = End	ID	3/3
		DTM02	373	DATE Date (CCYYMMDD)	DT	8/8
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "92" = Minutes Allowed "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS OF MEASUREMENT CODE "MJ" = Minutes	ID	2/2
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
USD	USD	USD01	662	RELATIONSHIP CODE "A" = Add "I" = Included "O" = Information Only	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	359	RATE Rate per Unit	R	1/9
		USD04	954	PERCENT Usage Discount Percent	R	1/10
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "AH" = Additional Minutes "CO" = Calls "HR" = Hours "MJ" = Minutes	R	1/15
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Billed Amount	R	1/18
		USD10	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		USD11	740	RANGE MINIMUM Minimum Range	R	1/20
		USD12	741	RANGE MAXIMUM Maximum Range	R	1/20
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Peak "02" = Off-peak "03" = Day "04" = Evening "05" = Night/Weekend "14" = Multi-periods	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type	ID	2/2
			234	PRODUCT/SERVICE ID "CR" = Cost Recovery "PP" = Payphone	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MT" = Message Type	ID	2/2
			234	PRODUCT/SERVICE ID "CC" = Calling Card "SP" = Sent Paid/DDD	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SD" = Settlement Code	ID	2/2
			234	PRODUCT/SERVICE ID "IA" = Intrastate "IR" = Interstate "IT" = International "LO" = Local "OC" = Outside Specified Area "WC" = Inside Specified Area	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "P4" = Percentage Discounts "TI" = Total Ineligible Charges OCP Code	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BA" = Band	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Zone 3	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CH" = Charge/Usage Status Code	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Rate Change	AN	1/48
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "C" = Charge "N" = No Allowance or Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "06" = Charge to be paid by Customer "ZZ" = Mutually Defined	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Amount	N2	1/15
		ITA09	332	PERCENT Discount Percent – decimal	R	1/6
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "ANB" = Adjustment for Minimum Charges Billing "DSC" = Discount	ID	3/3
		ITA16	662	RELATIONSHIP CODE "I" = Included "O" = Information Only	ID	1/1
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "92" = Allotted Usage Quantity "94" = Billable Quantity "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "03" = Seconds "C0" = Calls "MJ" = Minutes	ID	2/2

* Refer to section 4.17.3 for a comprehensive listing of OCP codes.

4.17.3 Optional Calling Plan (OCP) Codes

This section provides a comprehensive listing of OCP codes. Within the EDI data, these OCP codes are presented to the customer in a SI PAIR.

Charges on various records may be associated to an Optional Calling Plan. Listed below are the plan values and descriptions. The plan names are for AT&T only. The other Carriers do not provide their plan values:

<u>Value</u>	<u>Plan Name</u>
1000	Easy 8
3707	Business Optimizer Plan (Domestic)
3709	Business Optimizer Plan (International)
3110	Non-Emergency 311 Budget Billing Option
3111	Non-Emergency 311 Per Call Option
4601	Basic Saver
4602	Saver 60
4603	OnePrice Saver
4604	Saver Plus
5101	Bonanza
5102	Comstock
5201	Commercial Mobile Radio Service
5202	Commercial Mobile Radio Service - 1 year
5203	Commercial Mobile Radio Service - 2 year
5204	Commercial Mobile Radio Service - 3 year
6201	Business Advantage 50 Option 1
6202	Business Advantage 50 Option 2
6301	Value Promise sm Plus Business Advantage 25 Non-Term
6302	Value Promise sm Plus Business Advantage 25 1 Year Term
6303	Value Promise sm Plus Business Advantage 25 2 Year Term
6304	Advantage 5 – One Year Term
6305	Advantage 5 – Two Year Term
6306	Advantage 10 – One Year Term
6307	Advantage 10 – Two Year Term
6320	Advantage 10 – Sign & Save - One Year Term
6321	Advantage 25 – Sign & Save - One Year Term
6322	Take Advantage 5 – Two Year Term
6343	Take Advantage 25 – Two Year Term
6344	Take Advantage 10 – Two Year Term
6345	Advantage 25 Sign & Save – Two Year Term
6346	Advantage 10 Sign & Save – Two Year Term
6347	Advantage 5 Sign & Save – Two Year Term
6401	Business Advantage 1000 Opt 1
6402	Business Advantage 1000Opt 2
6501	24 Hour Discounts Service Area Plan
6502	24 Hour Discounts Community Plan
6503	24 Hour Discounts Community Plan
6601	Custom Contract Basic and/or Point to Point
6602	Custom Contract
6603	Custom Contract Volume Discount
6655	5 for 55
6701	Value Promise sm Plus - Flat Rate

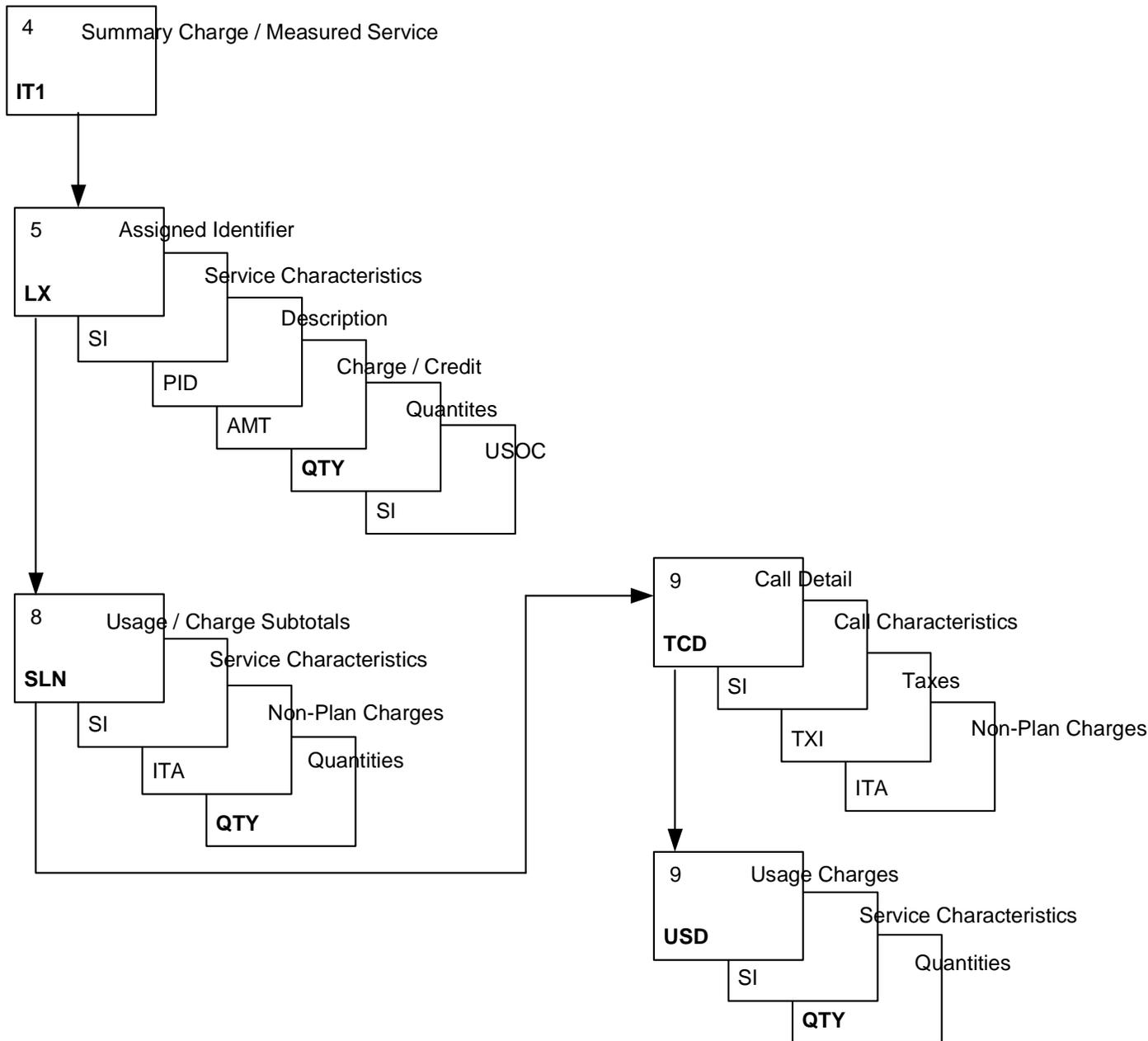
<u>Value</u>	<u>Plan Name</u>
6702	Value Promise sm Plus - Rate Menu
6710	Flat Rate Plus for Business sm 1
6711	Flat Rate Plus for Business sm 2 Opt 1
6712	Flat Rate Plus for Business sm 2 Opt 2
6713	Flat Rate Plus for Business sm 2 Opt 3
6714	Flat Rate Plus for Business sm 2 Opt 4
6715	Flat Rate Plus for Business sm 2 Opt 5
6716	Local 250
6717	Local 750
6718	Local 1200
6730	Value Promise sm Plus Affinity
7000	Residence Block of Time
7001	Business Block of Time
7002	Residence Block of Time
7003	Business Flat Rate (Per Minute)
7004	Residence Flat Rate Monthly Recurring Charge
7005	Business Flat Rate (Per Minute with Local)
7006	Business Block of Time with Local
7007	Business Block of Time Local Only
7008	Residence Flat Rate (Per Minute)
7009	Unlimited Local Calling Plan
7010	Business & Residence Corridor of Time
7011	Business Corridor of Time
7012	Business & Residence Corridor of Time
7013	Business & Residence Corridor of Time
7014	Unlimited Local
7015	Flat Rate Line Level
7016	Flat Rate Line Level
7017	Flat Rate Line Level
7018	Block Of Time Line Level
7019	Block Of Time Line Level
7020	Block Of Time Line Level
7021	Corridor of Time Line Level
7022	Corridor of Time Line Level
7023	Corridor of Time Line Level
7024	Local Block Of Time 250
7025	Local Block Of Time 700
7026	Local Block Of Time 1200
7030	Unlimited Local Usage
7031	Block Of Time Plan
8101	Virtual Intelligence Network (Basic)
8102	Virtual Intelligence Network (Point to Point)
9990	Resale - Local/ZUM 3 Flat Rate Discount
9991	Resale - Business Intralata Toll Flat Rate Discount
9992	Resale - Residence Intralata Toll Flat Rate Discount

4.18 Measured Service

Measured Service conveys detail associated with Enhanced Service Provider usage and Internet usage, Local Calls, Zone 1 & 2 and Zone 3 Block of Time Detail and Summary usage.

The EDI flow, structure and syntax for Measured Service are conveyed on the pages that follow.

4.18.1 Flow Chart / Measured Service



4.18.2 811 TS - Segment and Data Element Use / Measured Service

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Measured Service Usage Charges Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0705" = Measured Service	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Working Telephone Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DI" = Customer ID Code	ID	2/2
			234	PRODUCT/SERVICE ID Subaccount ID	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MX" = Mailbox Extension	ID	2/2
			234	PRODUCT/SERVICE ID Extension Number	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "1" = Line Item Total	ID	1/3
		AMT02	782	MONETARY AMOUNT Amount	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls "MJ" = Minutes	ID	2/2
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC Code	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4 or 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	½
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Subtotal for OCP	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID OCP Code	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MT" = Message Type	ID	2/2
			234	PRODUCT/SERVICE ID "SP" = Sent Paid/DDD	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SD" = Settlement Code	ID	2/2
			234	PRODUCT/SERVICE ID "LO" = Local	AN	1/48
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "C" = Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "06" = Charge to be paid by Customer	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount	N2	1/15
		ITA13	352	DESCRIPTION Line item text	AN	1/80
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "SUF" = Set Use Fee – Customer Charge (Express Call Completion)	ID	3/3
		ITA16	662	RELATIONSHIP CODE "I" = Included	ID	1/1
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls "MJ" = Minutes	ID	2/2
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
TCD				CALL DETAIL Standard TCD Loop		

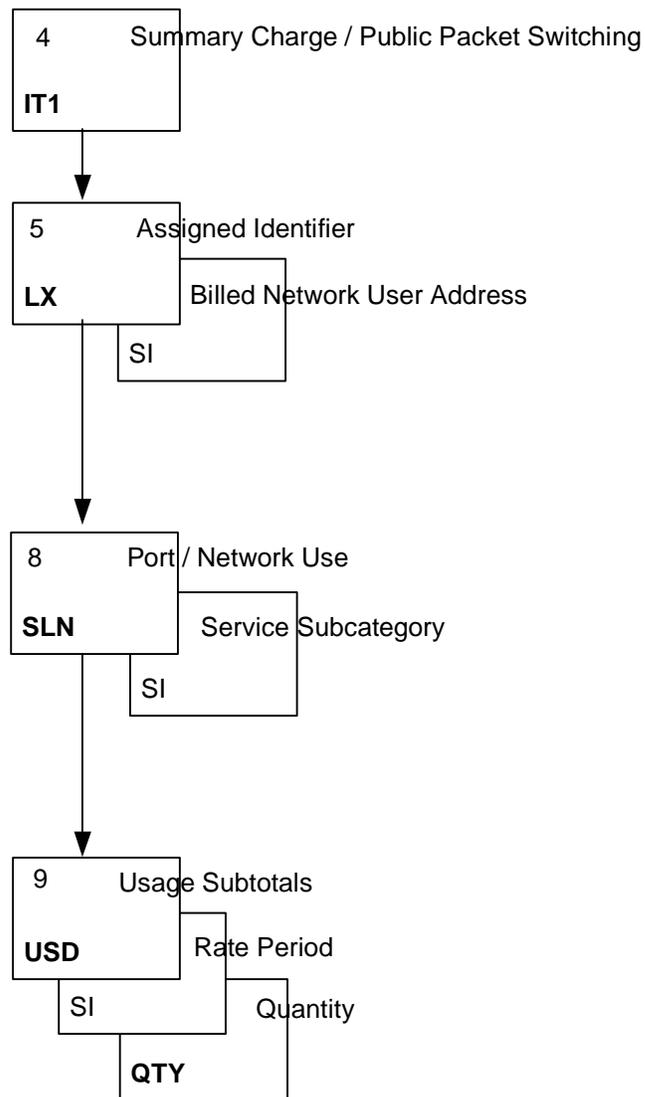
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included "O" = Information Only	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	118	RATE Rate per Unit	R	1/15
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "AH" = Additional Minutes "CO" = Calls "EA" = Each "M4" = Monetary Value "MJ" = Minutes	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge Amount	R	1/18
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
		234		PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
		234		PRODUCT/SERVICE ID "03" = Day "04" = Evening "05" = Night/Weekend "14" = Multi-periods	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	AN	2/2
		234		PRODUCT/SERVICE ID OCP Code	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SD" = Settlement Code	AN	2/2
		234		PRODUCT/SERVICE ID "LO" = Local	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "38" = Original Quantity "91" = Additional Usage Quantity "92" = Allotted Usage Quantity "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "C0" = Calls "MJ" = Minutes	ID	2/2

4.19 Public Packet Switching

Public Packet Switching (PPS) is a basic network service that provides for intra-service area network transport for low speed data. PPS provides for outing of packets of digital information at transmission speeds less than or equal to 56 Kbps. The EDI flow, structure and syntax for PPS are conveyed on the pages that follow.

4.19.1 Flow Chart / Public Packet Switching



4.19.2 811 TS - Segment and Data Element Use / Public Packet Switching

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Service Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1605" = Packet Switching	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BU" = Billed Network Address/User ID	ID	2/2
			234	PRODUCT/SERVICE ID Network Address or Billing Number	AN	1/48
Level 8						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Charge Subtotal	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID "BP" = Basic Svc Packet Network Use "PC" = Protocol Conov. Pkt Netwk Use "PD" = Use from Public Dial Port	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD08	782	MONETARY AMOUNT Charge for Service	R	1/18
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Peak "02" = Off-peak	AN	1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "38" = Original Quantity "91" = Additional Usage Quantity "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "MJ" = Minutes "SG" = Segment "S6" = Sessions (call set-ups)	ID	2/2

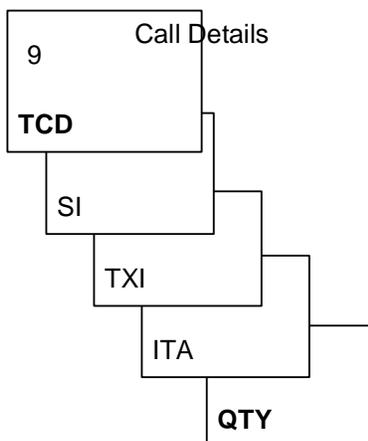
4.20 TCD Loop

The TCD Loop is a standard structure for presenting itemized usage related to services such as DA, 800 services, Optional Calling Plans and Toll Usage. Its structure is standard enough that it is represented in this form rather than included with each of the services mentioned above.

Think of each occurrence of the TCD loop as an itemized call. Depending on the service that this itemized call applies to; there are a number of characteristics that may be relevant in addition to the charge. The date of call, time of call, from place, to place, duration of call, rate period, from number, to number, jurisdiction, message type, and lata are just a few examples of data or characteristics that may be provided.

The EDI flow, structure and syntax for the TCD Loop are conveyed on the pages that follow.

4.20.1 Flow Chart / TCD Loop



4.20.2 811 TS - Segment and Data Element Use / TCD Loop

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 9						
TCD	TCD	TCD01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		TCD02	373	DATE Date of Call (CCYYMMDD)	DT	8/8
		TCD03	337	TIME Time of Call	TM	4/6
		TCD04	309	LOCATION QUALIFIER "CC" = Country "CI" = City "ZZ" = Mutually Defined	ID	1/2
		TCD05	310	LOCATION IDENTIFIER To City, Country, Ship Name, Service, etc.	AN	1/25
		TCD06	156	STATE OR PROVINCE CODE To State	ID	2/2
		TCD07	309	LOCATION QUALIFIER "CC" = Country "CI" = City "ZZ" = Mutually Defined	ID	1/2
		TCD08	310	LOCATION IDENTIFIER From City, Country, Ship Name, Service, etc.	AN	1/25
		TCD09	156	STATE OR PROVINCE CODE From State	ID	2/2
		TCD10	739	MEASUREMENT VALUE Call Duration in Minutes and Tenths of Minutes	R	1/20
		TCD11	739	MEASUREMENT VALUE Call Duration in Seconds and Tenths of Seconds	R	1/20
		TCD12	782	MONETARY AMOUNT Un-discounted Amount of Call	R	1/18
		TCD13	782	MONETARY AMOUNT Discounted Amount of Call	R	1/18
		TCD16	662	RELATIONSHIP CODE "I" = Included "O" = Information Only	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TM" = To/ Terminating Station Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID To Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "FN" = From/ Originating Station Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID From Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "RP" = Rate Period	ID	2/2
			234	PRODUCT/SERVICE ID "01" = Peak "02" = Off-peak "03" = Day "04" = Evening "05" = Night/Weekend "06" = Weekend "10" = Discount "11" = Economy "13" = Standard	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MT" = Message Type	ID	2/2
			234	PRODUCT/SERVICE ID "CC" = Calling Card "CL" = Collect "CP" = Coin Paid "RP" = Receipt Paid "SC" = Special Collect "SP" = Send Paid/DDD "TN" = Third Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "BA" = Band	ID	2/2
			234	PRODUCT/SERVICE ID "0I" = International "03" = Within Zone 3 "0A" = Within Local Plus™ zone "0D" = Domestic "0L" = Local	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MC" = Message/Rate Class	ID	2/2
			234	PRODUCT/SERVICE ID "AB" = Automated Billing Service "DS" = Dial Station "OC" = Operator Completed with Dial Rate Applied "OS" = Operator Station "PC" = Person Call Back "PR" = Person "ST" = Station	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DS" = Discount Planned Code	ID	2/2
			234	PRODUCT/SERVICE ID "RBR" = Remote Tie Line Reduction "UBR" = Usage Billing Reduction	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "DA" = Directory Assistance Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "16" = Interstate, Canada and/or 809 "24" = Name/Address "32" = Business Listing	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MI" = Special Message Information Code Qualifier	ID	2/2
			234	PRODUCT/SERVICE ID "02" = Indicates a Toll Message Spanned Multiple Rate Periods	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SD" = Settlement Code	ID	2/2
			234	PRODUCT/SERVICE ID "IT" = International "RR" = Interstate/IntraLATA	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type	ID	2/2
			234	PRODUCT/SERVICE ID "CE" = Cellular "CH" = Non-Dial Conference Leg "CI" = Dial Conference Bridge "LV" = Local Verify "PP" = Payphone "TG" = Telegram	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID OCP Code	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CD" = Customer Dialed Acct. Recording/Sub- authorization Number "CN" = Circuit Number Identification Code	ID	2/2
			234	PRODUCT/SERVICE ID CDAR or Sub-account Number (CD) Circuit Number (CN)	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "AU" - Authorization Code	ID	2/2
			234	PRODUCT/SERVICE ID Authorization Code	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "CC" = Calling Card Number	ID	2/2
			234	PRODUCT/SERVICE ID Calling Card Number	AN	1/48
	TXI	TXI01	963	TAX TYPE CODE "CA" = City Tax "LS" = State and Local Tax	ID	2/2
		TXI02	782	MONETARY AMOUNT Tax Amount	R	1/18
		TXI07	662	RELATIONSHIP CODE "A" = Add "O" = Information Only	ID	1/1

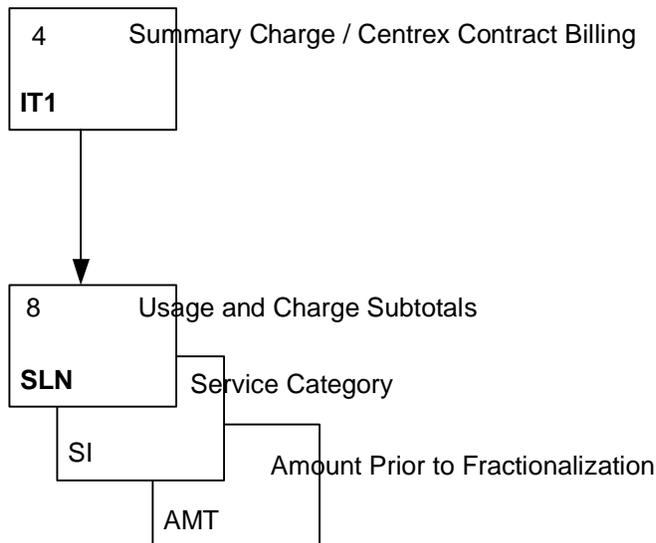
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "C" = Charge "N" = No Allowance or Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "06" = Charge to be paid by Customer "ZZ" = Mutually Defined	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount	N2	1/15
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "MSG" = Miscellaneous Charge "OLC" = Other Line Charge - Canadian Portion "OLM" = Other Line Charge - Mexican Portion "SUF" = Set Use Fee – Customer Charge (Express Call Complete, etc.) "TRL" = Transfer Local Tax "TRT" = Transfer State Tax	ID	3/3
		ITA16	662	RELATIONSHIP CODE "A" = Add "O" = Information Only	ID	1/1
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "2P" = Kilobyte "NF" = Messages "UN" = Unit	ID	2/2

4.21 Centrex Contract Billing

A Centrex Contract is a contract for a minimum set of services. When the minimum is not met, the additional charges are billed as Centrex Contract. These charges are in addition to those reported in the Monthly Charges segment section.

The EDI flow, structure and syntax for Centrex Contract Billing is conveyed on the pages that follow.

4.21.1 Flow Chart / Centrex Contract Billing



4.21.2 811 TS - Segment and Data Element Use / Centrex Contract Billing

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Centrex Contract Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0250" = CENTREX/ESSX	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

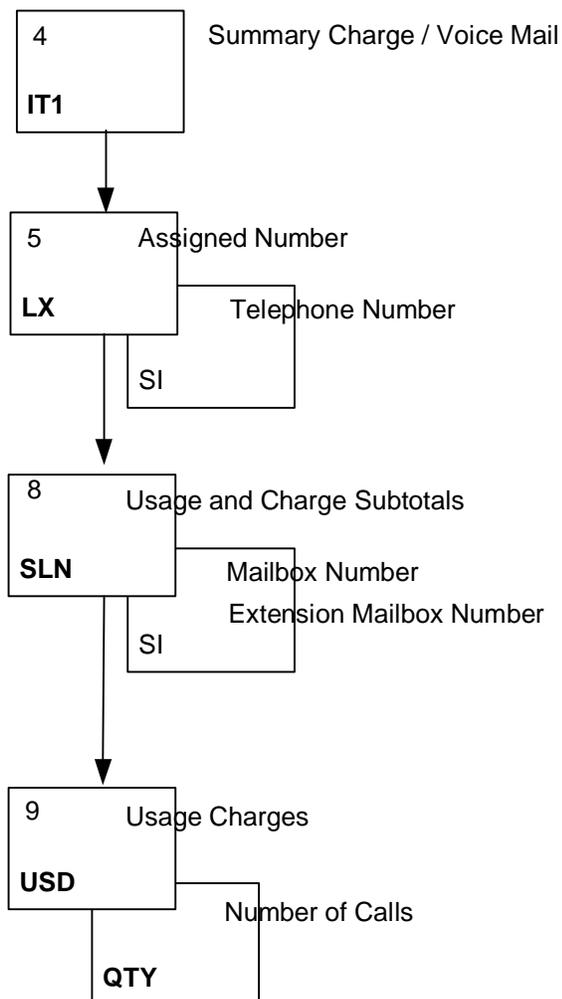
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Charge amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC	AN	1/48
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3
		AMT02	782	MONETARY AMOUNT Full Monthly Amount	R	1/18

4.22 Voice Mail Charges

Voice Mail Charges apply to services such as Voice Mail, Message Center or Call Navigator. These charges include monthly service as well as usage charges.

The EDI flow, structure and syntax for Voice Mail Billing is conveyed on the pages that follow.

4.22.1 Flow Chart / Voice Mail



4.22.2 811 TS - Segment and Data Element Use / Voice Mail

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Voice Mail Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1820" = Voice Mail	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

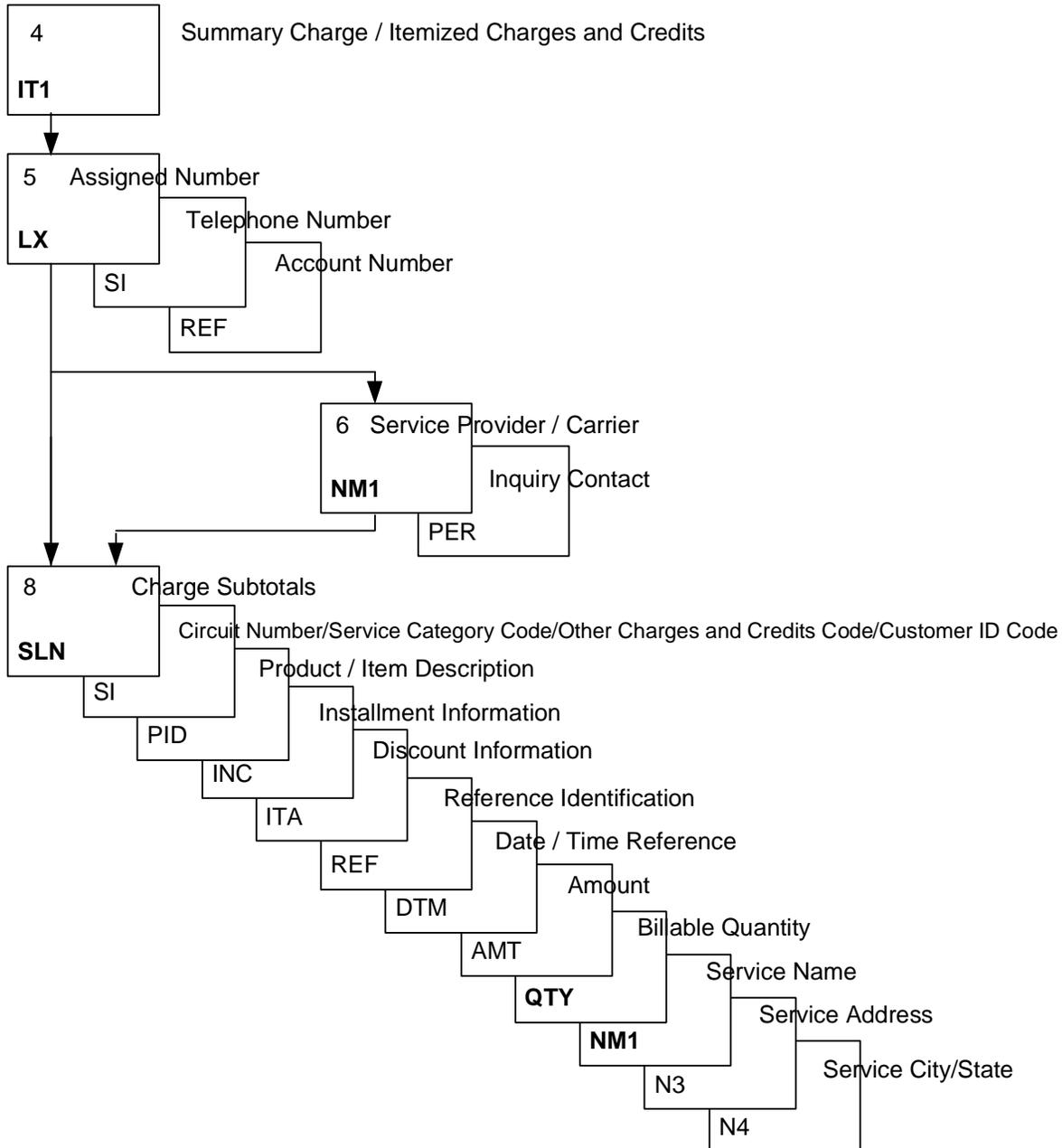
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	1/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Subtotal for Extension Number	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MB" = Mail Box	ID	2/2
			234	PRODUCT/SERVICE ID Mailbox Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "MX" = Mailbox Extension	ID	2/2
			234	PRODUCT/SERVICE ID Extension Number	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 9</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	2/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	359	RATE Rate per Unit	R	1/9
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "MJ" = Minutes	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge for Service	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "03" = Seconds "CO" = Calls	ID	2/2

4.23 Itemized Charges and Credits

The EDI flow, structure and syntax for Itemized Charges and Credits billing is conveyed on the pages that follow. The NM1 loop at HL6 is optional and will only be present when an additional service provider or carrier was involved in the charge.

4.23.1 Flow Chart / Itemized Charges and Credits



4.23.2 811 TS - Segment and Data Element Use / Itemized Charges and Credits

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Misc Charges & Credits Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0520" = Itemized Charges/Credits	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "2" = Other Charges	AN	1/48
<i>Level 5</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	1/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "11" = Account Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Account Number	AN	1/30
<i>Level 6</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "6" = Sub-Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "9D" = New Service Provider "CA" = Carrier	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Name of Service Provider/Carrier	AN	1/35
		NM108	66	IDENTIFICATION CODE QUALIFIER "91" = Assigned by Seller or Seller's Agent	ID	1/2
		NM109	67	IDENTIFICATION CODE Code	AN	2/80
	PER	PER01	366	CONTACT FUNCTION CODE "BI" = Bill Inquiry Contact	ID	2/2
		PER03	365	COMMUNICATION NUMBER QUALIFIER "TE" = Telephone	ID	2/2
		PER04	364	COMMUNICATION NUMBER Contact Number	AN	1/80

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 5 or 6	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Unit Price	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "CN" = Circuit Number Identification Code	ID	2/2
		234		PRODUCT/SERVICE ID Circuit Number	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
		234		PRODUCT/SERVICE ID USOC	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "OC" = Other Charges and Credits Category Code	ID	2/2
		234		PRODUCT/SERVICE ID "G01" = Charge or credit related to Installment Billing	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "PQ" = Major Product Code	ID	2/2
		234		PRODUCT/SERVICE ID Product Group Identification	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "OD" = Other Charges and Credits Description Code	ID	2/2
		234		PRODUCT/SERVICE ID Description Code	AN	1/48
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "DI" = Department Code/Customer ID Code	ID	2/2
		234		PRODUCT/SERVICE ID Code	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Line Item Description	AN	1/80
	INC	INC01	336	TERMS TYPE CODE "04" = Deferred or Installment	ID	2/2
		INC02	355	UNIT OR BASIS FOR MEASUREMENT CODE "MO" = Months	ID	2/2
		INC03	380	QUANTITY Total Number of Installments	R	1/15
		INC04	380	QUANTITY Number of Current Installment	R	1/15
	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "N" = No Allowance or Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "ZZ" = Mutually Defined	ID	2/2
		ITA09	332	PERCENT Discount Percent	R	1/6
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "DSC" = Discount	ID	3/3
		ITA16	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "CR" = Customer Reference Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Member Identifier	AN	1/30
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER	ID	2/3



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
				"OW" = Service Order Number		
		REF02	127	REFERENCE IDENTIFICATION Service Order Number	AN	1/30

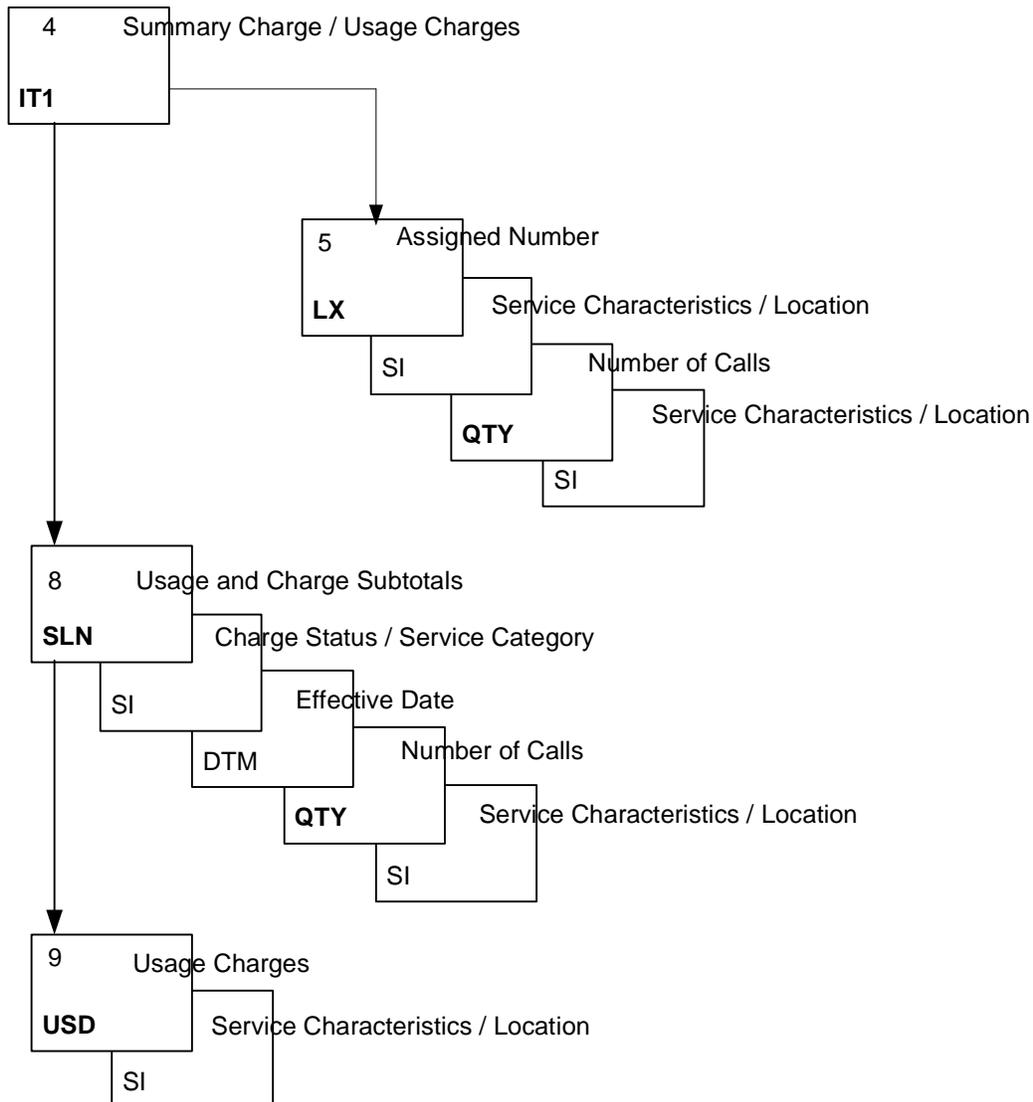
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "PO" = Purchase Order Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Purchase Order Number	AN	1/30
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date (ccymmdd)	DT	8/8
	DTM	DTM01	374	DATE/TIME QUALIFIER "150" = Service Period Start	ID	3/3
		DTM02	373	DATE Date (ccymmdd)	DT	8/8
	DTM	DTM01	374	DATE/TIME QUALIFIER "151" = Service Period End	ID	3/3
		DTM02	373	DATE Date (ccymmdd)	DT	8/8
	AMT	AMT01	522	AMOUNT QUALIFIER CODE "AP" = Amount Prior to Fractionalization	ID	1/3
		AMT02	782	MONETARY AMOUNT Amount	R	1/18
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
NM1	NM1	NM101	98	ENTITY IDENTIFIER CODE "IA" = Installed At	ID	2/3
		NM102	1065	ENTITY TYPE QUALIFIER "2" = Non-Person Entity	ID	1/1
		NM103	1035	NAME LAST OR ORGANIZATION NAME Service Name	AN	1/35
	N3	N301	166	ADDRESS INFORMATION Service Address Line 1	AN	1/55
		N302	166	ADDRESS INFORMATION Service Address Line 2	AN	1/55
	N4	N401	19	CITY NAME City	AN	2/30
		N402	156	STATE OR PROVINCE CODE State	ID	2/2

4.24 Usage Charges

This section conveys detail associated with 211, 311, 511, 911 and Customer Calling Features-Pay Per Use charges.

The EDI flow, structure and syntax for Usage charges are conveyed on the pages that follow.

4.24.1 Flow Chart / Usage Charges



4.24.2 811 TS - Segment and Data Element Use / Usage Charges

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Usage Subtotal	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "0700" = Usage	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "3" = Usage	AN	1/48
Level 5 (used for 211/311/511/E911 calling, Custom Calling Features-Pay Per Use)						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "5" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
LX	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop	N0	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number PRODUCT/SERVICE ID Telephone Number	ID AN	2/2 1/48
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "99" = Quantity Used	ID	2/2
		QTY02	380	QUANTITY Number of Units	R	1/15
		QTY03	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls	ID	2/2
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type PRODUCT/SERVICE ID "211" = Information Referral "311" = Non Emergency "511" = Transportation Information "E911" = Enhanced 911	ID AN	2/2 1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "TL" = To/Terminating Location (only used for 211/ 311/511 calling) PRODUCT/SERVICE ID Location	ID AN	2/2 1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "TM" = To/Terminating Station Telephone Number (only used for 211/ 311/511 calling) PRODUCT/SERVICE ID Telephone Number	ID AN	2/2 1/48
	SI PAIR	1000	234	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code PRODUCT/SERVICE ID USOC or OCP Code	ID AN	2/2 1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = One (M4) Pay Per Use Quantity (EA)	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "EA" = Each "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN09	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		SLN10	234	PRODUCT/SERVICE ID "1790" = Call Trace	AN	1/48
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "ST" = Message Service Type (for 211/311/511/ 911/Customer Calling Features-Pay Per Use)	ID	2/2
		234		PRODUCT/SERVICE ID "211" = Information Referral "311" = Non Emergency "511" = Transportation Information "CA" = On Demand Call Feature Activation "E911" = Enhanced 911	AN	1/48



<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "3WC" = Three Way Calling "ACB" = Call Return "RPD" = Repeat Dialing USOC/OCP Code (for 211/311/511/911 calls)	AN	1/48
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE Date	DT	8/8
QTY	QTY	QTY01	673	QUANTITY QUALIFIER "94" = Billable Quantity	ID	2/2
		QTY02	380	QUANTITY Quantity	R	1/15
		QTY03	355	UNIT OF MEASURE "C0" = Calls	ID	2/2
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TM" = To/Terminating Station Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
Level 9						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "9" = Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1
USD	USD	USD01	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		USD03	118	RATE Rate per Unit	R	1/15

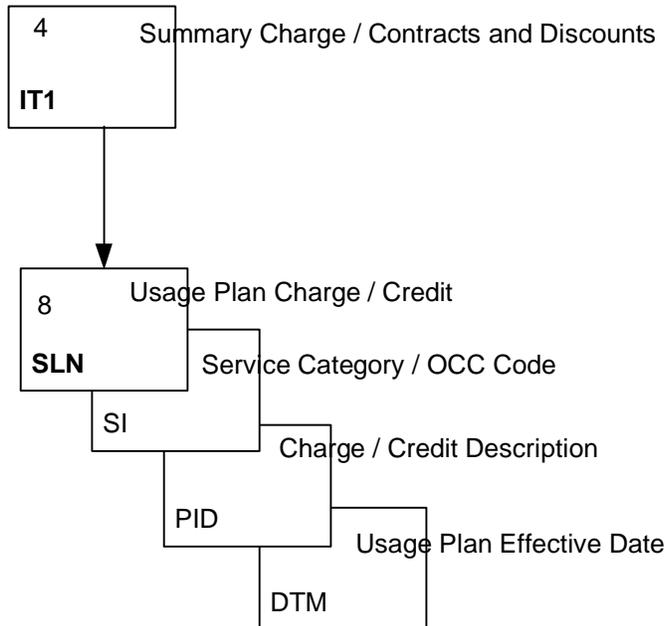
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		USD05	355	UNIT OR BASIS FOR MEASUREMENT CODE "CO" = Calls (used for 211/311/511/E911 calling)	ID	2/2
		USD06	380	QUANTITY Quantity	R	1/15
		USD08	782	MONETARY AMOUNT Charge for Service	R	1/18
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000	1000	SERVICE CHARACTERISTICS QUALIFIER "TL" = To/Terminating Location (only used for 211/ 311/511 calling)	ID	2/2
			234	PRODUCT/SERVICE ID Location	AN	1/48
	SI PAIR	1000	1000	SERVICE CHARACTERISTICS QUALIFIER "TM" = To/Terminating Station Telephone Number (only used for 211/311/511 calling)	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
	SI PAIR	1000	1000	SERVICE CHARACTERISTICS QUALIFIER "CH" = Charge/Usage Status Code (only used for E911)	ID	2/2
			234	PRODUCT/SERVICE ID "03" = Rate Change	AN	1/48

4.25 Contracts and Discounts

This section conveys detail associated with contracted Usage plans.

The EDI flow, structure and syntax for Contracts and Discounts are conveyed on the pages that follow.

4.25.1 Flow Chart / Contracts and Discounts



4.25.2 811 TS - Segment and Data Element Use / Contracts and Discounts

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
Level 4						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OF MEASURE CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Total Contracts and Discounts	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "2110" = Contracts/Discounts	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "2" = Other Charges	AN	1/48
Level 8						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

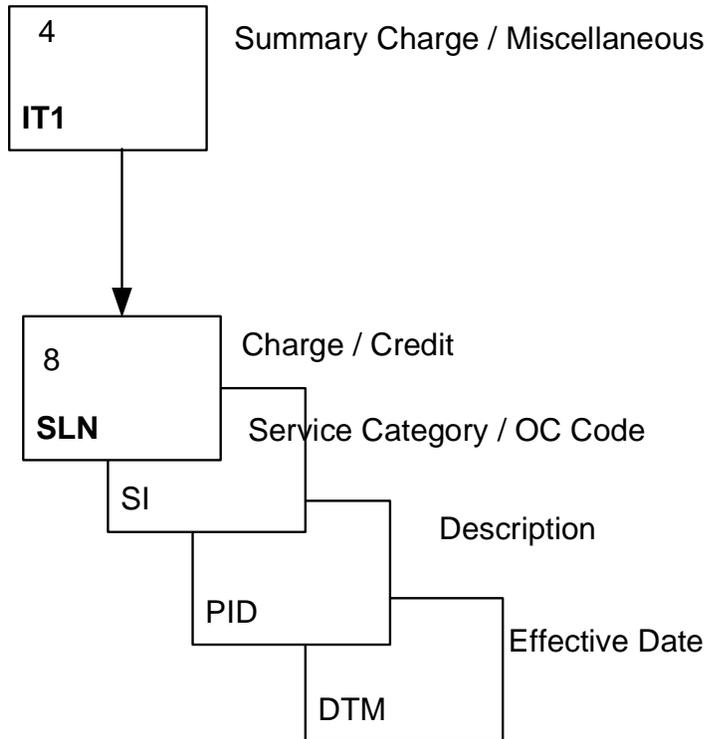
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Telephone Number	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SC" = Service Category Code	ID	2/2
			234	PRODUCT/SERVICE ID USOC or Plan Code	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "OC" = Other Charges and Credits Category Code	ID	2/2
			234	PRODUCT/SERVICE ID "H14" = Change/rearrangement/removal "H15" = Usage sensitive "H20" = Promotional Credit/Discount/Gift	AN	1/48
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "SS" = Service Sub-category Code	ID	2/2
			234	PRODUCT/SERVICE ID OCP code	AN	1/48

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective "150" = Service Period Start "151" = Service Period End	ID	1/3
		DTM02	373	DATE Date (CCYYMMDD)	ID	8/8

4.26 Miscellaneous

The EDI flow, structure and syntax for Miscellaneous billing is conveyed on the pages that follow.

4.26.1 Flow Chart / Miscellaneous



4.26.2 811 TS - Segment and Data Element Use / Miscellaneous

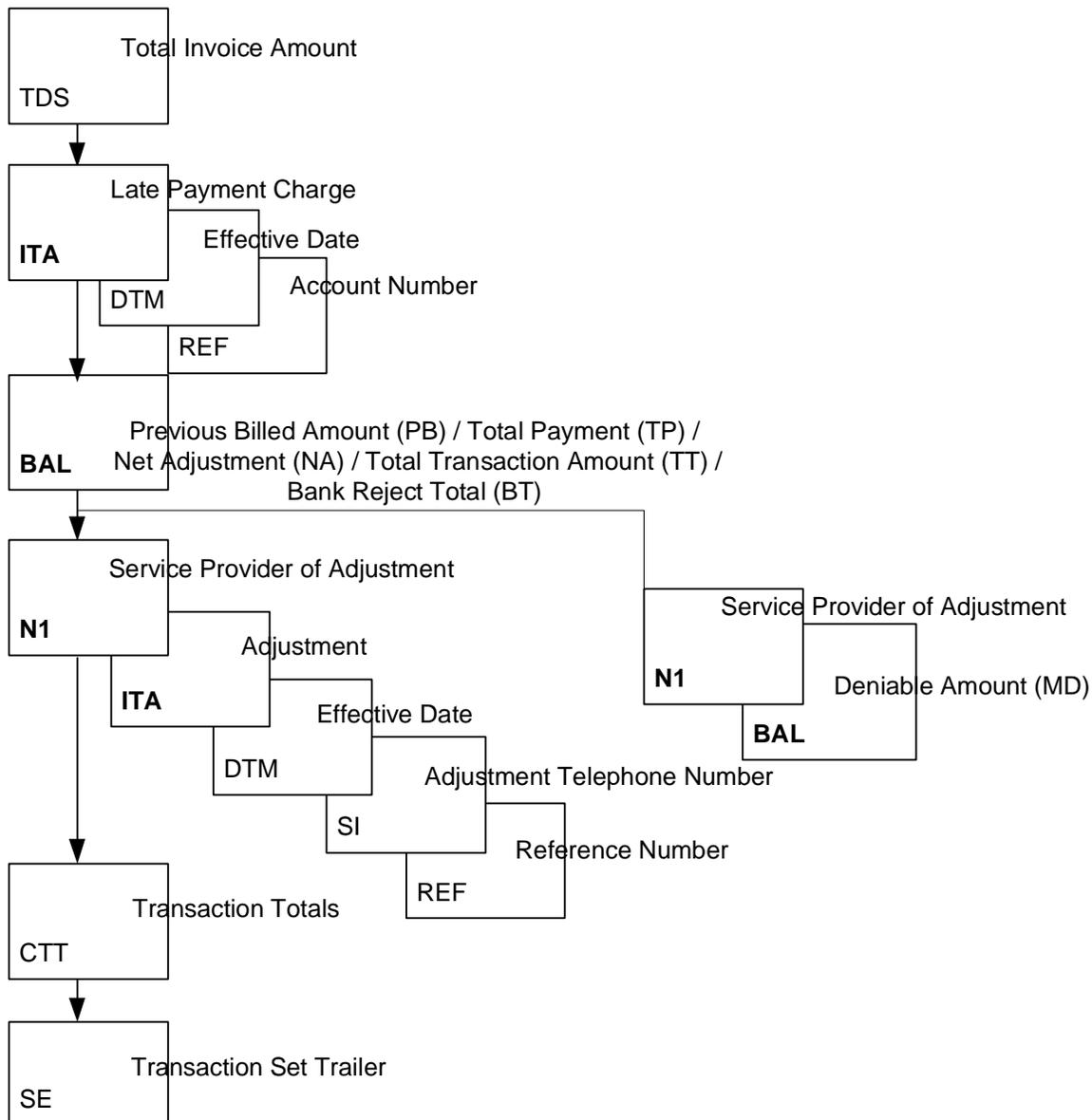
<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
<i>Level 4</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 1	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "4" = Group	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "1" = Additional Subordinate HL	ID	1/1
IT1	IT1	IT101	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		IT102	358	QUANTITY INVOICED "1" = Always One	R	1/10
		IT103	355	UNIT OF MEASURE CODE "M4" = Monetary Value	ID	2/2
		IT104	212	UNIT PRICE Total Miscellaneous	R	1/17
		IT106	235	PRODUCT/SERVICE ID QUALIFIER "SV" = Service Rendered	ID	2/2
		IT107	234	PRODUCT/SERVICE ID "1740" = Miscellaneous	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER "ZZ" = Mutually Defined (Used in place of Telecom Service Type – WJ)	ID	2/2
		IT109	234	PRODUCT/SERVICE ID "2" = Other Charges	AN	1/48
<i>Level 8</i>						
HL	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER DE 628 from HL 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE "8" = Category	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE "0" = No Subordinate HL	ID	1/1

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
SLN	SLN	SLN01	350	ASSIGNED IDENTIFICATION Internal Reference Number (GIRN)	AN	1/20
		SLN03	662	RELATIONSHIP CODE "I" = Included	ID	1/1
		SLN04	380	QUANTITY "1" = Always One	R	1/15
		SLN05	355	UNIT OR BASIS FOR MEASUREMENT CODE "M4" = Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Amount	R	1/17
		SLN08	662	RELATIONSHIP CODE "I" = Included	ID	1/1
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
	SI PAIR	1000		SERVICE CHARACTERISTICS QUALIFIER "OC" = Other Charges and Credits Category Code	ID	2/2
		234		PRODUCT/SERVICE ID "H07" = Processing/conversion/service ordering	AN	1/48
	PID	PID01	349	ITEM DESCRIPTION TYPE "F" = Free-form	ID	1/1
		PID05	352	DESCRIPTION Description	AN	1/80
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	1/3
		DTM02	373	DATE Date (CCYYMMDD)	ID	8/8

5 The 811 TS - Summary Area

The summary area provides the total amount due and statement information for the entire invoice. Statement information includes late payment charge, previous balance, total payments, net adjustments, bank reject total and total amount due.

5.1.1.1 Flow Chart / Summary Area



5.1.2 811 TS –Segment and Data Element Use / Summary Area

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
TDS	TDS	TDS01	610	AMOUNT Current Bill Amount	N2	1/15
ITA	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "C" = Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "06" = Charge to be Paid by Customer	ID	2/2
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Late Payment Charge	N2	1/15
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "LPC" = Late Payment Charge	ID	3/3
		ITA16	662	RELATIONSHIP CODE "A" = Add	ID	1/1
		DTM	DTM01	374	DATE QUALIFIER "007" = Effective	ID
	DTM02		373	DATE (CCYYMMDD)	DT	8/8
	REF		REF01	128	REFERENCE IDENTIFICATION QUALIFIER "11" = Account Number	ID
		REF02	127	REFERENCE IDENTIFICATION Reference Identification Number	AN	1/30
BAL	BAL	BAL01	951	BALANCE TYPE CODE "P" = Previous Month	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "PB" = Billed Amount	ID	1/3
		BAL03	782	MONETARY AMOUNT Previous Billed Amount	R	1/18
BAL	BAL	BAL01	951	BALANCE TYPE CODE "A" = Adjustment	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "NA" = Net Adjustment	ID	1/3
		BAL03	782	MONETARY AMOUNT Total Adjustments (minus LPC debit)	R	1/18

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
BAL	BAL	BAL01	951	BALANCE TYPE CODE "M" = Current Month	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "BT" = Bank Reject Total	ID	1/3
		BAL03	782	MONETARY AMOUNT Total Returned Payments	R	1/18
BAL	BAL	BAL01	951	BALANCE TYPE CODE "M" = Current Month	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "TP" = Total Payment Amount	ID	1/3
		BAL03	782	MONETARY AMOUNT Total Payment Amount (minus returned payments)	R	1/18
BAL	BAL	BAL01	951	BALANCE TYPE CODE "M" = Current Month	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "TT" = Total Transaction Amount	ID	1/3
		BAL03	782	MONETARY AMOUNT Total Amount Due	R	1/18
N1	N1	N101	98	ENTITY IDENTIFIER CODE "87" = Pay-to Provider	ID	2/3
		N102	93	NAME Local Service Provider Name	AN	1/60
		N103	66	IDENTIFICATION CODE QUALIFIER "42" = Telecommunications Pseudo Carrier Identification Code	ID	1/2
		N104	67	IDENTIFICATION CODE Carrier ID Code	AN	2/80
BAL	BAL	BAL01	951	BALANCE TYPE CODE "M" = Current Month	ID	1/2
		BAL02	522	AMOUNT QUALIFIER CODE "MD" = Minimum Due	ID	1/3
		BAL03	782	MONETARY AMOUNT Deniable Amount	R	1/18

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
N1	N1	N101	98	ENTITY IDENTIFIER CODE "SJ" = Service Provider	ID	2/3
		N102	93	NAME Service Provider Name	AN	1/60
		N103	66	IDENTIFICATION CODE QUALIFIER "41" = Telecommunications Carrier Identification Code (IECs) "42" = Telecommunications Pseudo Carrier Identification Code "91" = Assigned by Seller or Seller's Agent (ESPs)	ID	1/2
		N104	67	IDENTIFICATION CODE Carrier ID Code	AN	2/80
ITA	ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR "N" = No Allowance or Charge	ID	1/1
		ITA02	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		ITA03	560	SPECIAL SERVICES CODE "CA" = City "FD" = Federal "LO" = Local "SL" = State and Local	ID	2/10
		ITA04	331	ALLOWANCE OR CHARGE METHOD OF HANDLING CODE "ZZ" = Mutually Defined	ID	2/2
		ITA05	341	ALLOWANCE OR CHARGE NUMBER Government Fee	AN	1/16
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Itemized Adjustment Amount	N2	1/15
		ITA13	352	DESCRIPTION Line Item Description	AN	1/80

<i>Loop</i>	<i>Segment</i>	<i>Segment ID</i>	<i>DE</i>	<i>Description</i>	<i>Type</i>	<i>Min / Max</i>
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE "AAJ" = Adjustments "DDS" = Deaf and Disabled Surcharge "ESC" = Emergency Service "FUS" = Federal Universal Service "LPC" = Late Payment Charge <u>Credit</u> "LSS" = Lifeline Surcharge "OLC" = Other Line Charge – Canadian Portion "OLM" = Other Line Charge – Mexican Portion "PSP" = Payphone Service Provider Surcharge "REE" = Regulatory Fee "SER" = Service Charge "SUF" = Set Use Fee – Customer Change "SUR" = Surcharge "SUS" = State Universal Service "TR1" = Transferred Charges or Credit from Another Account or Invoice	ID	3/3
		ITA16	662	RELATIONSHIP CODE "O" = Information Only	ID	1/1
	DTM	DTM01	374	DATE/TIME QUALIFIER "007" = Effective	ID	3/3
		DTM02	373	DATE (CCYYMMDD)	DT	8/8
	SI	SI01	559	AGENCY QUALIFIER CODE "TI" = Telecommunications Industry	ID	2/2
		SI PAIR	1000	SERVICE CHARACTERISTICS QUALIFIER "TN" = Telephone Number	ID	2/2
			234	PRODUCT/SERVICE ID Working Telephone Number	AN	1/48
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER "2I" = Tracking Number "CR" = Customer Reference Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Funding Request Number (used for FUS only) Customer Reference Number	AN	1/30
CTT	CTT	CTT01	354	NUMBER OF LINE ITEMS Number of IT1 Segments	N0	1/6
SE	SE	SE01	96	NUMBER OF INCLUDED SEGMENTS Total # of Segments (including ST and SE)	N0	1/6
		SE02	329	TRANSACTION SET CONTROL NUMBER Unique # from Trans. (Matches ST02)	AN	4/9

6 Summary Billing Account (SBA) 811

The 811 invoice produced for a SBA is very similar to a single account 811 invoice. The exceptions are noted below:

- The consolidated account number, which will always begin with a “960” or “023”, is used for payment. Subordinate account information is provided in a Subordinate 811 Invoice (also referred to as a “Memo 811”).
- For a Subordinate 811 Invoice, BIG07 will always have the value of “DR” (Debit Memo), “CR” (Credit Memo), or “FE” (Memo Final Bill).
- For the Total Amount due, a Subordinate 811 Invoice will not have a BAL segment for BAL02 = TT. The Total Amount Due is applied to the Consolidated bill.
- There will be a REF segment in the Heading Area of the SBA 811 Invoice with REF01 = “12” to provide the 960 or 023 Billing Account Number.
- For each Subordinate 811 Invoice, there will be a REF segment in the Heading Area with REF01 = “12” to indicate the Subordinate Account number; REF01 = “14” to indicate the 960 Billing Account Number and/or REF01 = “11” to indicate the 023 Billing Account Number.
- The Consolidated 811 Invoice provides Total Due information for each Subordinate 811 Invoice as shown in the structure table that follows. The only three values provided in IT107 are “2050”, “0200”, and “0400”.

7 Technical Specifications

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.

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>
	010	ST	Transaction Set Header	O	1		
	020	BIG	Beginning Segment for Invoice	O	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		
Not Used	090	TXI	Tax Information	O	>1		
LOOP ID - N1						>1	
	100	N1	Name	O	1		
Not Used	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		
	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		
	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		
Not Used	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	
					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	
					>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	n4
Not Used	387	DMG	Demographic Information	O	1	
					>1	
	390	SLN	Subline Item Detail	O	1	n5
	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	
					>1	
	510	QTY	Quantity	O	1	
	520	SI	Service Characteristic Identification	O	1	
					>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	
					>1	
	590	TCD	Itemized Call Detail	O	1	n6
	600	SI	Service Characteristic Identification	O	2	

	610	TXI	Tax Information	O	>1	
	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	n7
	625	SI	Service Characteristic Identification	O	2	
	630	ITA	Allowance, Charge or Service	O	2	
Not Used	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>
010	TDS	Total Monetary Value Summary	O	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	
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
120	SE	Transaction Set Trailer	O	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.

2. When used for telecommunications billing, the service/billing provider level is defined by the NM1 loop.
3. The group level is defined by at least one occurrence of the IT1 loop which may only appear at the group level.
4. 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: Optional
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		811 Consolidated Service Invoice/Statement	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		The value of this data element in ST02 in the Transaction Set Header (ST) must match the value of the same data element in SE02 of the Transaction Set Trailer (SE).	

Segment: **BIG** Beginning Segment for Invoice
Position: 020
Loop:
Level: Heading
Usage: Optional
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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	BIG01	373 Date	M DT 8/8
		Date expressed as CCYYMMDD	
M	BIG02	76 Invoice Number	M AN 1/22
		Identifying number assigned by issuer	
		The invoice number will contain the Account Number followed by Bill Date.	
Not Used	BIG03	373 Date	O DT 8/8
		Date expressed as CCYYMMDD	
Not Used	BIG04	324 Purchase Order Number	O AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	
Not Used	BIG05	328 Release Number	O AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
Not Used	BIG06	327 Change Order Sequence Number	O AN 1/8
		Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	
	BIG07	640 Transaction Type Code	O ID 2/2
		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	
		FD Consolidated Invoice, Final Bill	
		FE Memorandum, Final Bill	

			ME	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 11 Account Number 12 Billing Account 14 Master Account Number AP Accounts Receivable Number EH Financial Classification Code 8M Originating Company Identifier	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

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:	<ol style="list-style-type: none"> 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	<ol style="list-style-type: none"> 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</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 N0 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 N0 1/3
Not Used	ITD08	362 Terms Discount Amount Total amount of terms discount	O N2 1/10
Not Used	ITD09	388 Terms Deferred Due Date Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	O DT 8/8
Not Used	ITD10	389 Deferred Amount Due Deferred amount due for payment	X N2 1/10

Not Used	ITD11	342	Percent of Invoice Payable Amount of invoice payable expressed in percent	X R 1/5
Not Used	ITD12	352	Description A free-form description to clarify the related data elements and their content	O AN 1/80
Not Used	ITD13	765	Day of Month The numeric value of the day of the month between 1 and the maximum day of the month being referenced	X N0 1/2
	ITD14	107	Payment Method Code Code identifying type of payment procedures AC Credit Card E Electronic Payment System	O ID 1/2
Not Used	ITD15	954	Percent Percentage expressed as a decimal	O R 1/10

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.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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 Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

- 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
Not Used	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Not Used	N104	67	Identification Code Code identifying a party or other code If N103 = "41" - Use Telcordia CIC list. If N103 = "42" - See 10.4 Additional Code Lists, Appendix B Pseudo-CICs provided within the TCIF Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	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: **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

	Ref.	Data	Attributes
	<u>Des.</u>	<u>Element</u> <u>Name</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	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

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.

Notes: When the HL segment for a Level 4 indicates that there are no children, multiple IT1 loops may appear at this level; otherwise, there will only be one IT1 loop per HL loop.

As in the HL segment at level 4, when the HL segment for level 8 indicates there are no children, multiple SLN loops may appear within one HL 8 loop; otherwise, there will only be one SLN loop per HL 8 loop.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</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	
			Sequential number assigned to this HL segment.	
	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	
			Not used at HL1 (Service Provider).	
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	
		7	Type	
		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	
			Required by ETB.	
		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>
	<u>Des.</u>	<u>Element</u>		
M	LX01	554	Assigned Number	M N0 1/6
			Number assigned for differentiation within a transaction set	

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: 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	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559 Agency Qualifier Code	M ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
M	SI02	1000 Service Characteristics Qualifier	M AN 2/2
		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.	
		CL Class of Service Code	
		OC Other Charges and Credits	
		SA Service Activity	
M	SI03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	
	SI04	1000 Service Characteristics Qualifier	X AN 2/2
		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 Number	
		BU Billed Network User Address	

		CI	Circuit Drop Location Code	
		CN	Circuit Number	
		DI	Customer ID Code	
		DN	Directory Book Name	
		DP	Different Premise	
		KS	Key System	
		MB	Mailbox Number	
		MX	Mailbox Extension	
		PX	PBX Number	
		SI	Circuit Number Special ID	
		SL	Secondary Location	
		TN	Telephone Number	
SI05	234	Product/Service ID		X AN 1/48
		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, etc.		
SI06	1000	Service Characteristics Qualifier		X AN 2/2
		Code from an industry code list qualifying the type of service characteristics		
		SS	Service Subcategory Code	
SI07	234	Product/Service ID		X AN 1/48
		Identifying number for a product or service		
		CSRASIS	Additional Services IS	
		CSRASPB	Additional Services	
		CSRBCPB	Customer Billing	
		CSRCCAC	AT&T Call-Me Card	
		CSRCCAT	AT&T Calling Card	
		CSRCCCG	Coast Guard Card	
		CSRCCDP	Dedicated Card	
		CSRCCDS	Dedicated Card (Spanish)	
		CSRCCMR	Marines Card	
		CSRCCNA	Navy Card	
		CSRCCON	One-Number Card	
		CSRCCOS	One-Number Card (Spanish)	
		CSRCCPB	Calling Card	
		CSRCCPS	Calling Card (Spanish)	
		CSRCTRX	Centrex Contract	
		CSRDRAD	Directory Advertising	
		CSREUPB	ESP End-User	
		CSRILIS	Individual Lines IS	
		CSRILPB	Individual Lines	
		CSRPBC	Communications	
		CSRPBI	System Services Internet	
		CSRSSAT	System Services AT&T	

		CSRSSIS	System Services IS		
		CSRSSPB	System Services		
		CSRWPLI	White Pages Listings		
SI08	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
		P6	Terminating Type		
SI09	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
		DD	Dedicated		
		DU	Dial-Up		
SI10	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI11	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI12	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI13	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI14	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI15	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI16	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI17	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI18	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI19	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI20	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI21	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			

Segment:	PID Product/Item Description
Position:	040
Loop:	LX 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

Ref.	<u>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	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
Not Used	PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values	X ID 2/2
Not Used	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 A reference that indicates the table or text maintained by the Source Qualifier	O AN 1/15
Not Used	PID08	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O ID 1/1
Not Used	PID09	819	Language Code Code designating the language used in text, from a standard code list	O ID 2/3

maintained by the International Standards Organization (ISO 639)

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:
Notes: This segment is not used at HL1 (Service Provider Level).

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 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 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

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 1 Line Item Total SC Total Service Charge ZZ Mutually Defined	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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</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
	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 Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM06	1251 Date Time Period 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.</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 92 Allotted Usage Quantity 94 Billable Quantity 99 Quantity Used AI Number of Operator Credits	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 MJ Minutes	M ID 2/2
	C00102	1018	Exponent Power to which a unit is raised	O R 1/15
	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

Not Used	C00109	649	Power to which a unit is raised 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	QTY04	61	Free-Form Message Free-form information	X AN 1/30

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	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559 Agency Qualifier Code	M ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
M	SI02	1000 Service Characteristics Qualifier	M AN 2/2
		Code from an industry code list qualifying the type of service characteristics	
		DA Directory Assistance Category Code	
		QT Quantity Qualifier	
		ST Message Service Type	
M	SI03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	
	SI04	1000 Service Characteristics Qualifier	X AN 2/2
		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.	
		SC Service Category Code	
		TL To/Terminating Location	
		TM To/Terminating Station Telephone Number	
	SI05	234 Product/Service ID	X AN 1/48

			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, location, OCP Code, USOC, etc.		
	SI06	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
	SI07	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
	SI08	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
	SI09	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI10	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI11	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI12	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI13	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI14	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI15	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI16	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI17	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI18	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI19	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
Not Used	SI20	1000	Service Characteristics Qualifier	X	AN 2/2
			Code from an industry code list qualifying the type of service characteristics		
Not Used	SI21	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		

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>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	NM101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		9D New Service Provider	
		C3 Circuit Location Identifier	
		CA Carrier	
		IA Installed At	
		SJ Service Provider	
M	NM102	1065 Entity Type Qualifier	M ID 1/1
		Code qualifying the type of entity	
		2 Non-Person Entity	
	NM103	1035 Name Last or Organization Name	O AN 1/35
		Individual last name or organizational name	
Not Used	NM104	1036 Name First	O AN 1/25
		Individual first name	
Not Used	NM105	1037 Name Middle	O AN 1/25
		Individual middle name or initial	
Not Used	NM106	1038 Name Prefix	O AN 1/10
		Prefix to individual name	
Not Used	NM107	1039 Name Suffix	O AN 1/10
		Suffix to individual name	
	NM108	66 Identification Code Qualifier	X ID 1/2
		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	
	NM109	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
Not Used	NM110	706 Entity Relationship Code	X ID 2/2

Not Used	NM111	98	Code describing entity relationship Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O ID 2/3
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Segment: N3 Address Information
Position: 130
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>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: **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 11 Account 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 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

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</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 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 CA City Tax CS City Sales Tax FT Federal Excise Tax LO Local Tax (Not Sales Tax) LS State and Local Sales Tax MP Municipal Tax ZE 911-Tax	M ID 2/2
	TXI02	782	Monetary Amount Monetary amount	X R 1/18
	TXI03	954	Percent Percentage expressed as a decimal	X R 1/10
Not Used	TXI04	955	Tax Jurisdiction Code Qualifier Code identifying the source of the data used in tax jurisdiction code	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the taxing jurisdiction	X AN 1/10
Not Used	TXI06	441	Tax Exempt Code Code identifying exemption status from sales and use tax	X ID 1/1
	TXI07	662	Relationship Code 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

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

	<u>Ref.</u> <u>Des.</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 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
	ITA10	380	Quantity Numeric value of quantity	X R 1/15
	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 M4 Monetary Value	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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing 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 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: **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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
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 When IT103 = "M4" - Rules of extended pricing do not apply.	X ID 2/2
		M4 Monetary Value	
IT104	212	Unit Price Price per unit of product, service, commodity, etc. 0 Always 0 for NBRI	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 Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X ID 2/2

		SV	Service Rendered		
	IT107	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
		0200	Monthly Service Charge		
		0250	CENTREX/ESSX		
		0400	Additions and Changes		
		0500	Itemized Calls		
		0510	Interexchange Carrier Invoice Charges		
		0520	Itemized Charges/Credits		
		0600	Directory Advertising		
		0700	Usage		
		0705	Measured Service		
		0800	Optional Calling Plan/Discount Plan		
		0900	Directory Assistance		
		1460	Customer Owned Pay Telephone		
		1605	Packet Switching		
		1710	Customized Billing Service		
		1740	Miscellaneous		
		1820	Voice Mail		
		1870	Additional Calls		
		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)		
			Used in place of Telecom Service Type - WJ.		
		ZZ	Mutually Defined		
	IT109	234	Product/Service ID	X	AN 1/48
			Identifying number for a product or service		
		1	Recurring Charges		
		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: 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.</u>	<u>Data</u>	<u>Attributes</u>
	<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 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, etc.	M AN 1/48
Not Used	SI04	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI05	234 Product/Service ID Identifying number for a product or service	X AN 1/48
Not Used	SI06	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI07	234 Product/Service ID Identifying number for a product or service	X AN 1/48
Not Used	SI08	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2

Not Used	SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

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

- 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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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
	ITA09	332	Percent Percent expressed as a percent	X R 1/6
	ITA10	380	Quantity Numeric value of quantity	X R 1/15
	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 M4 Monetary Value	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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing 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

	SLN05	C001	Composite Unit of Measure	X
			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	
			CO Calls	
			DC Disk (Disc)	
			DQ Data Records	
			EA Each	
			G7 Microfiche Sheet	
			M0 Magnetic Tapes	
			M4 Monetary Value	
			MJ Minutes	
			QB Pages - Hardcopy	
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 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
	SLN06	212	Unit Price Price per unit of product, service, commodity, etc. Prorated, One-Time charge, Discount, or Charge Amount	X	R 1/17
	SLN07	639	Basis of Unit Price Code Code identifying the type of unit price for an item PE Price per Each TP Price per Thousand	O	ID 2/2
	SLN08	662	Relationship Code Code indicating the relationship between entities A Add I Included O Information Only	O	ID 1/1
	SLN09	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	X	ID 2/2
	SLN10	234	Product/Service ID Identifying number for a product or service 1740 Miscellaneous 1790 Call Trace	X	AN 1/48
Not Used	SLN11	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	SLN12	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SLN13	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	SLN14	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
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

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559 Agency Qualifier Code	M ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
M	SI02	1000 Service Characteristics Qualifier	M AN 2/2
		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	
		MT Message Type	
		OC Other Charges and Credits Category Code	
		SD Settlement Code	
		ST Message Service Type	
M	SI03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	

SI04	1000	Service Characteristics Qualifier	X AN 2/2
		Code from an industry code list qualifying the type of service characteristics	
		One or more of the following DE1000 values and the associated DE234 value may be present within the SI segment.	
		CC Calling Card Number	
		CN Circuit Number	
		DP Different Premise	
		DI Department Code/Customer ID Code	
		DT Dialed Telephone Number	
		KS Key System	
		MB Mailbox Number	
		MX Mailbox Extension Number	
		OD Other Charges and Credits Description Code	
		PA Primary/Originating Message Carrier Identification	
		PQ Major Product Code	
		SC Service Category Code	
		SI Circuit Number Special ID	
		SL Secondary Location	
		TN Telephone Number	
SI05	234	Product/Service ID	X AN 1/48
		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, calling card number, circuit number, custom calling feature identifiers, etc.	
SI06	1000	Service Characteristics Qualifier	X AN 2/2
		Code from an industry code list qualifying the type of service characteristics	
		SS Service Subcategory	
SI07	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		OCP Code	
		BP Basic Service Packet Network Use	
		PC Protocol Conov. Packet Network Use	
		PD Use from Public Dial Port	
SI08	1000	Service Characteristics Qualifier	X AN 2/2
		Code from an industry code list qualifying the type of service characteristics	
SI09	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
SI10	1000	Service Characteristics Qualifier	X AN 2/2
		Code from an industry code list qualifying the type of service characteristics	
SI11	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
SI12	1000	Service Characteristics Qualifier	X AN 2/2
		Code from an industry code list qualifying the type of service characteristics	

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

Ref.	Data	Attributes
<u>Des.</u>	<u>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 A reference that indicates the table or text maintained by the Source Qualifier	O AN 1/15
Not Used	PID08 1073 Yes/No Condition or Response Code	O ID 1/1

Not Used	PID09	819	Code indicating a Yes or No condition or response 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 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	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.</u> <u>Des.</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 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
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 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 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
	ITA10	380	Quantity Numeric value of quantity	X R 1/15
	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 DO Dollars, U.S.	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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing 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 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: **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.</u> <u>Des.</u>	<u>Data</u> <u>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 Code identifying the source of the data used in tax jurisdiction code	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the taxing jurisdiction	X AN 1/10
Not Used	TXI06	441	Tax Exempt Code Code identifying exemption status from sales and use tax	X ID 1/1
	TXI07	662	Relationship Code 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 Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	O AN 1/20
Not Used	TXI10	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20

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 CR Customer Reference 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 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

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 197 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 Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/3/5

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 LI Line Item Unit Price	M ID 1/3
M	AMT02	782	Monetary Amount Monetary amount Monthly amount prior to fractionalization.	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.</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 01 Discrete Quantity 92 Allotted Usage Quantity 94 Billable Quantity 99 Quantity Used AI Number of Operator Credits	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 EA Each MJ Minutes P1 Percent	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: 520

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

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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 TM To/Terminating Station 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, calling card number, circuit number, etc.	M AN 1/48
Not Used	SI04	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI05	234	Product/Service ID Identifying number for a product or service	X AN 1/48
Not Used	SI06	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI07	234	Product/Service ID Identifying number for a product or service	X AN 1/48
Not Used	SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2

Not Used	SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

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.</u> <u>Des.</u>	<u>Data</u> <u>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 EN End User IA Installed At	M ID 2/3
M	NM102	1065	Entity Type Qualifier Code qualifying the type of entity 1 Person 2 Non-Person Entity 3 Unknown	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
Not Used	NM108	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	X ID 1/2
Not Used	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>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</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

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
Not Used	N403	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Not Used	N404	Country Code Code identifying the country	O ID 2/3
Not Used	N405	Location Qualifier Code identifying type of location	X ID 1/2
Not Used	N406	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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 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.
Notes:	The TCD loop may only appear at the line detail (HL9) level.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
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) Connect time of call.	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 originating/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	X ID 1/2

			be the name of an aircraft, vessel, vehicle, or service where a call originated/terminated or the service was provided.	
			CC Country	
			CI City	
			ZZ Mutually Defined	
TCD05	310	Location Identifier		X AN 1/30
		Code which identifies a specific location		
TCD06	156	State or Province Code		O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
TCD07	309	Location Qualifier		X ID 1/2
		Code identifying type of location		
			Code identifying the type of "FROM" location provided in TCD08 and TCD09.	
			A value of "ZZ" indicates any point of originating/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.	
			CC Country	
			CI City	
			ZZ Mutually Defined	
TCD08	310	Location Identifier		X AN 1/30
		Code which identifies a specific location		
TCD09	156	State or Province Code		O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency		
TCD10	739	Measurement Value		O R 1/20
		The value of the measurement		
			Duration of call measured in minutes and tenths of minutes.	
TCD11	739	Measurement Value		O R 1/20
		The value of the measurement		
			Duration of call measured in seconds and tenths of seconds.	
TCD12	782	Monetary Amount		O R 1/18
		Monetary amount		
			Undiscounted amount.	
TCD13	782	Monetary Amount		O R 1/18
		Monetary amount		
			Net amount after a discount has been applied to the amount in TCD12.	
Not Used	TCD14	782	Monetary Amount	O R 1/18
			Monetary amount	
Not Used	TCD15	782	Monetary Amount	O R 1/18
			Monetary amount	
TCD16	662	Relationship Code		O ID 1/1
		Code indicating the relationship between entities		

A	Add
I	Included
O	Information Only

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: 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	Data Element Summary		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	SI01	559	Agency Qualifier Code	M ID 2/2
Code identifying the agency assigning the code values				
TI Telecommunications Industry				
M	SI02	1000	Service Characteristics Qualifier	M AN 2/2
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				
MC Message Class				
MI Special Message Information Code Qualifier				
MT Message Type				
RP Rate Period				
SD Settlement Code				
ST Message Service Type				
XA Call Detail Indicator				
M	SI03	234	Product/Service ID	M AN 1/48
Identifying number for a product or service				
For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp				

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.	X AN 2/2
		AU Authorization Code	
		CC Calling Card Number	
		CD Customer Dialed Account	
		CN Circuit Number	
		FN From/Originating Station Telephone Number	
		SC Service Category Code	
		SS Service Subcategory	
		TM To/Termination 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, calling card number, circuit 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
		BA Band	
SI07	234	Product/Service ID Identifying number for a product or service	X AN 1/48
		03 Within Zone 3	
		0A Within Local Plus zone	
		0D Domestic	
		0I International	
		0L Local	
SI08	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
		DS Discount Plan Code	
SI09	234	Product/Service ID Identifying number for a product or service	X AN 1/48
		RBR Remote Tie Line Reduction	
		UBR Usage Billing Reduction	
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	X AN 1/48

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

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.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TXI01	963	Tax Type Code Code specifying the type of tax CA City Tax LS State and Local 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 Code identifying the source of the data used in tax jurisdiction code	X ID 2/2
Not Used	TXI05	956	Tax Jurisdiction Code Code identifying the taxing jurisdiction	X AN 1/10
Not Used	TXI06	441	Tax Exempt Code Code identifying exemption status from sales and use tax	X ID 1/1
	TXI07	662	Relationship Code Code indicating the relationship between entities A Add O Information Only	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 Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	O AN 1/20
Not Used	TXI10	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20

- Segment:** **ITA** Allowance, Charge or Service
- Position:** 615
- Loop:** TCD 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

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	ITA01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		C Charge	
		N No Allowance or Charge	
	ITA02	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
Not Used	ITA03	560 Special Services Code	X ID 2/10
		Code identifying the special service	
M	ITA04	331 Allowance or Charge Method of Handling Code	M ID 2/2
		Code indicating method of handling for an allowance or charge	
		06 Charge to be Paid by Customer	
		ZZ Mutually Defined	
Not Used	ITA05	341 Allowance or Charge Number	O AN 1/16
		The number assigned by a vendor referencing an allowance, promotion, deal or charge	
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 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	X ID 3/3
			For a list of valid values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	
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 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: **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 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	O R 1/10

Not Used	C00110	355	Value to be used as a multiplier to obtain a new value 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.

Notes: The USD loop may only appear at the line detail (HL9) level.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	USD01	662 Relationship Code Code indicating the relationship between entities A Add 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
	USD04	954 Percent Percentage expressed as a decimal Discount percentage.	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	M ID 2/2

			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			AH Additional Minutes	
			C0 Calls	
			EA Each	
			HR Hours	
			M4 Monetary Value	
			MJ Minutes	
			UN Unit	
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	
	USD06	380	Quantity	X R 1/15
			Numeric value of quantity	
Not Used	USD07	380	Quantity	X R 1/15
			Numeric value of quantity	

	USD08	782	Monetary Amount Monetary amount	X	R 1/18
	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 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 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
	USD11	740	Range Minimum The value specifying the minimum of the measurement range	X	R 1/20
	USD12	741	Range Maximum	X	R 1/20

The value specifying the maximum of the measurement range

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

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559	Agency Qualifier Code	M ID 2/2
			Code identifying the agency assigning the code values	
			TI Telecommunications Industry	
M	SI02	1000	Service Characteristics Qualifier	M AN 2/2
			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.	
			BA Band	
			CH Charge/Usage Status Code	
			MT Message Type	
			RP Rate Period	
			SD Settlement Code	
			SS Service Subcategory	
			ST Message Service Type	
M	SI03	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
			For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website:	
			http://www.atis.org/obf/etbguid_Iss9_Rev3.asp	
	SI04	1000	Service Characteristics Qualifier	X AN 2/2
			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	Customer ID		
		MH	Month		
		SC	Service Category Code		
		TL	To/Terminating Location		
		TM	To/Terminating Station Telephone Number		
SI05	234	Product/Service ID		X	AN 1/48
		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, customer id, numeric month, etc.			
SI06	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
		SS	Service Subcategory		
SI07	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
		OCP Code			
		CA	Internal Compensation Debit		
		CC	Compensation Adjustment Credit		
		CD	Compensation Adjustment Debit		
		CH	PSP Charge		
		CI	Inmate State Service Charge Compensation		
		CL	Local Call Charges		
		CM	CCD Debit		
		CN	Non-Sent Paid Compensation		
		CO	Other Compensation		
		CP	Prepaid Compensation		
		CS	800 Subscriber Compensation		
		CW	World Wide Platform Compensation		
		P4	Percentage Discounts		
		TI	Total Ineligible Calls		
SI08	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI09	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI10	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI11	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
SI12	1000	Service Characteristics Qualifier		X	AN 2/2
		Code from an industry code list qualifying the type of service characteristics			
SI13	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			

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:**
- 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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	ITA01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		C Charge	
		N No Allowance or Charge	
	ITA02	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
Not Used	ITA03	560 Special Services Code	X ID 2/10
		Code identifying the special service	
M	ITA04	331 Allowance or Charge Method of Handling Code	M ID 2/2
		Code indicating method of handling for an allowance or charge	
		06 Charge to be Paid by Customer	
		ZZ Mutually Defined	
Not Used	ITA05	341 Allowance or Charge Number	O AN 1/16
		The number assigned by a vendor referencing an allowance, promotion, deal or charge	
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 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
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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing 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 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: **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 38 Original Quantity 91 Additional Usage 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 03 Seconds C0 Calls HR Hours MJ Minutes S6 Sessions SG Segment	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	QTY04	61	Free-Form Message Free-form information	X AN 1/30

- Segment:** **TDS** Total Monetary Value Summary
- Position:** 010
- Loop:**
- Level:** Summary
- Usage:** Optional
- 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 Total current month invoiced 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:**
- 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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	ITA01	248 Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified 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 06 Charge to be Paid by Customer	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 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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing 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: **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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</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 Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM06	1251 Date Time Period 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	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

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</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

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

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. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
M	ITA01	248 Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		N No Allowance or Charge	
	ITA02	559 Agency Qualifier Code	X ID 2/2
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	
	ITA03	560 Special Services Code	X ID 2/10
		Code identifying the special service	
		CA City	
		FD Federal	
		LO Local	
		SL State and Local	
M	ITA04	331 Allowance or Charge Method of Handling Code	M ID 2/2
		Code indicating method of handling for an allowance or charge	
		ZZ Mutually Defined	
	ITA05	341 Allowance or Charge Number	O AN 1/16
		The number assigned by a vendor referencing an allowance, promotion, deal or charge	

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 values associated with DE150, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: http://www.atis.org/obf/etbguid_Iss9_Rev3.asp TRS Transferred Charges	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 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: **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.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</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 Code indicating the date format, time format, or date and time format	X ID 2/3
Not Used	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X AN 1/35

Segment: **SI** Service Characteristic Identification

Position: 103

Loop: ITA Optional

Level: Summary

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.</u>	<u>Data</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 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, USOC, customer id, numeric month, etc.	M AN 1/48
Not Used	SI04	1000	Service Characteristics Qualifier	Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI05	234	Product/Service ID	Identifying number for a product or service	X AN 1/48
Not Used	SI06	1000	Service Characteristics Qualifier	Code from an industry code list qualifying the type of service characteristics	X AN 2/2
Not Used	SI07	234	Product/Service ID	Identifying number for a product or service	X AN 1/48
Not Used	SI08	1000	Service Characteristics Qualifier	Code from an industry code list qualifying the type of service characteristics	X AN 2/2

Not Used	SI09	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI10	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI11	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI12	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI13	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI14	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI15	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI16	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI17	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI18	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI19	234	Product/Service ID Identifying number for a product or service	X	AN 1/48
Not Used	SI20	1000	Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X	AN 2/2
Not Used	SI21	234	Product/Service ID Identifying number for a product or service	X	AN 1/48

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 2I Tracking Number 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 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

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.

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>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 N0 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: Optional
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	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			The value of this data element in SE02 in the Transaction Set Trailer (SE) must match the value of the same data element in ST02 of the Transaction Set Header (ST).	