



# **EDI Implementation Guide**

## **Summary and Detail Bills 811 Transaction Set**

**Version/Release 004010**

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## 1 EDI Billing Program

### 1.1 Introduction

This Implementation Guide describes Ameritech EDI Billing Products in business and technical terms. It is intended for those new to EDI as well as those who are experienced. The estimated time to implement EDI Billing with us is 6 to 12 months, depending on a company's level of experience.

The following briefly describes the Implementation Guide's sections.

#### **Section 1 EDI Billing Program**

Section 1 contains EDI background information as well as a brief, non-technical description of Ameritech's EDI Billing Products.

#### **Section 2 EDI Processing Overview**

Section 2 describes our process for producing and transmitting EDI Billing Products, providing both a technical and non-technical understanding of the EDI Billing system.

#### **Section 3 EDI Implementation Procedures**

Section 3 provides the steps to implement the 811 transaction set with us. A separate 820 Implementation Guide addresses implementation of the Payment Order/Remittance Advice Transaction Set. It is important to complete and return all of this section's forms so that we may manage your account with speed and accuracy.

#### **Section 4 EDI Technical Specifications**

Section 4 furnishes detailed information on the structure of the EDI Detail Bill and EDI Summary Bill. This section is necessary for translator and application programmers.

#### **Section 5 Appendices**

Section 5 contains supplemental information that supports the other sections.

## **1.2 EDI Overview**

Electronic Data Interchange (EDI) is the computer-to-computer exchange of business documents in a standardized format. The EDI world has evolved significantly over the past 5 years, with the introduction of many new products and services to make the implementation process easier and more successful.

EDI systems have four major technical components:

- Standards
- Translators
- Communication Links
- Application Interfaces

### **Standards**

Standards refer to ASC (Accredited Standards Committee) X12 Transactions or structured computer readable business documents. Standards are managed by several committees in the American National Standards Institute (ANSI), a national organization. The committee that defines EDI transactions for the US and Canada is ASC X12.

Industries may interpret transactions differently, based upon a particular industry need. Several industry-based groups have been formed for EDI guidelines development. The telecommunications industry group is the Ordering and Billing Forum (OBF). We support and participate in the development of EDI guidelines, including the development of the Consolidated Service Invoice/Statement (811 transaction set) and the Text Message (864 transaction set).

ASC X12 Standards are evolving yearly. It is neither required nor anticipated that a company will change with every standard release. All transactions become part of a version release whether or not they have changed from previously released versions.

We currently support Version/Release 004010 of the 811 Transaction Set. See section 3.6 for more information.

## 1.2 EDI Overview, Continued

Standards have four components:

Transactions	A series of segments that are defined by ASC X12 assigned transaction numbers.
Segments	A series of related data elements that are the equivalent of data processing records.
Data elements	The smallest component, the equivalent of data processing fields.
Delimiters	Special characters used to separate data elements and segments.

Before transmission, transactions are compressed to remove all spaces for economical data transfer.

### Translators

Translators are commercial software packages that make the transmission of EDI data more efficient. The most important functions include:

- Translation of application data to EDI formatted data (and vice versa)
- X12 compliance checking
- Version control
- Acknowledgment processing
- Audit reports and journalizing
- Trading partner profile management

Translators are available for all major platforms (PC, Mini, and Mainframe). While the purchase of a translator is not mandatory, custom development of the required EDI functionality may be cost prohibitive.



## 1.2 EDI Overview, Continued

### Communication Links

Communication Links use three major routes:

- Direct
- Value Added Networks (VANs)

VANs are the most popular transmission route because they remove two communication barriers: time and protocol dependence. VANs provide multiple protocol links so that a trading partner may access EDI transmissions from a PC, client/server, mini, or mainframe environment. Time independence is possible through the use of electronic mailboxes, where transactions are stored until retrieved by a trading partner. Direct links may be used if a high volume of data is consistently transferred between the two companies, otherwise they may be cost prohibitive.

### Application Interface

The application interface connects the EDI system to existing or new applications. An application interface may be a manual or automated interface. The application interface may provide outbound data or receive inbound data.

For the EDI Billing Products, the customer needs to provide an application interface to process EDI data to accept bills (811 transactions) or issue payment orders (820 transactions). Combination translator/application interface packages are available for PC-based systems from third party vendors. Section 3 describes each of these components as it relates to implementing EDI with an AT&T local exchange carrier in the states of IL, IN, MI, OH and WI".

### 1.3 EDI Billing Products

We offer three EDI Billing Products:

- EDI Detail Bill
- EDI Summary Bill
- EDI Bill Payment

This Guide addresses the EDI Detail Bill, EDI Summary Bill, and a Customer Service Record option. EDI Bill Payment has a separate Implementation Guide, available upon request from your AT&T Account Representative.

#### EDI Detail Bill

EDI Detail Bill provides customers complete billing information in an electronic format. Customers who perform detailed analysis of telecommunications usage and billing are the intended subscribers. It is sent to Ameritech EDI customers using the ASC X12 811 Transaction Set.

Note: Customers subscribing to AT&T Convergent Bill product will have option of receiving The EDI 811 as a Memorandum. The account information provided is supporting Detail of the AT&T Convergent Bill product. The 811 Memorandum is not a bill

EDI Detail Bill has three areas:

<u>Area</u>	<u>Contains</u>
Heading	Account information, such as invoice number, invoice date, and invoice terms.
Detail	Bill section subtotals for each service provider, plus supporting detail information (such as Toll Call detail, Optional Calling Plan information, Other Charges and Credit line items, Directory Assistance information, and other billing data).
Summary	Bill balance, payment, and adjustment amounts.

In addition to basic billing information, the Customer Service Record (CSR) option may be added to the EDI Detail bill. When the CSR option is selected, the optional information is included in the transaction set's Detail area.

A detailed description of EDI Detail Bill and the CSR option is provided in Sections 4.4 and 4.6.

### 1.3 EDI Billing Products, Continued

#### EDI Summary Bill

EDI Summary Bill provides customers summary level bill information in an electronic format. It is intended for our customers who perform high-level bill processing and electronic bill payment. The EDI Summary Bill is sent to our EDI customers using the ASC X12 811 Transaction Set.

Note: Customers subscribing to AT&T Convergent Bill product will have option of receiving The EDI 811 as a Memorandum. The account information provided is supporting Detail of the AT&T Convergent Bill product. The 811 Memorandum is not a bill

The EDI Summary Bill has three areas.

<u>Area</u>	<u>Contains</u>
Heading	Account information, such as invoice number, invoice date, and payment terms.
Detail	Bill section subtotals for each service provider, with no additional detail.
Summary	Bill balance, payment, and adjustment amounts.

When the CSR option is selected, complete CSR information is included in the transaction set's Detail area.

A detailed description of EDI Summary Bill and the CSR option is provided in Sections 4.3 and 4.6.

#### EDI Bill Payment

EDI Bill Payment sends payment information from EDI customers to Ameritech using the ASC X12 820 Transaction Set. EDI Bill Payment uses an EDI/EFT process, or Financial EDI, where the 820 transaction is routed through banks capable of processing EDI transactions (known as value added banks or VABs). We do not charge for this service, but the customer's bank may charge a fee for EDI/EFT transaction processing. EDI Bill Payment may be used in conjunction with EDI Detail Bill or EDI Summary Bill.

The EDI Bill Payment has three areas.

<u>Area</u>	<u>Contains</u>
Heading	Payee and payer information, including the total payment amount.
Detail	Information on one or more invoices that are paid by this transaction.
Summary	Transaction control total information (only).

#### **1.4 AT&T local exchange carrier in the states of IL, IN, MI, OH & WI and the Telecommunications Industry Forum**

We are an active member of the OBF (Ordering and Billing Forum) EDI Committee, and this Implementation Guide conforms to OBF guidelines. The ASC X12 811 transaction, like other standards, is evolving and we are committed to remaining current with changes recommended by the OBF EDI committee.

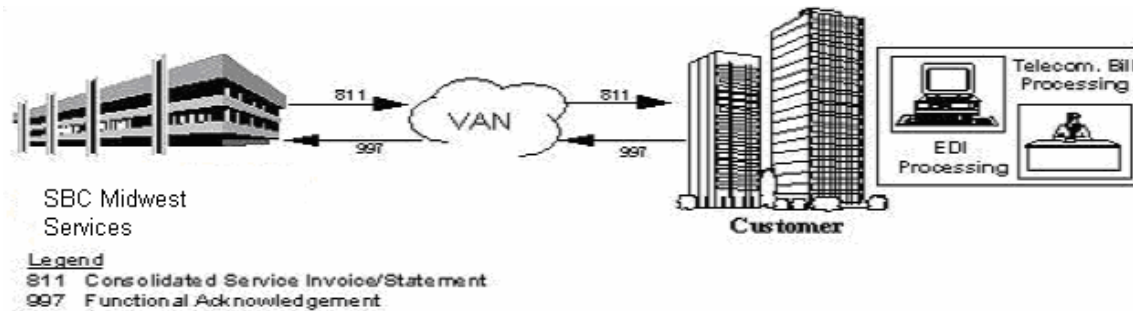
#### **1.5 AT&T Customer Contacts for EDI**

If you have questions about the EDI Billing Program, please contact your Account Representative or the Alternate Billing Products Help Desk at 888 800 6325.

## 2 EDI Processing Overview

### 2.1 System Overview

The following illustrates the exchange of data using our EDI Billing System.

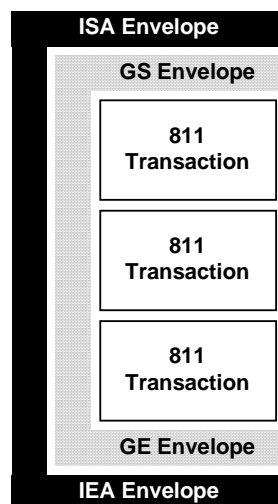


### 2.2 The VAN

Value Added Network (VAN) interconnections may be arranged when a customer uses their VAN to receive 811 transactions. The customer may incur significant charges from a VAN, considering a typical telecommunications bill's data volume.

### 2.3 EDI Billing Transmission

An EDI Billing Transmission has one or more 811 transactions and the required EDI Enveloping.



We produce bills in 10 separate cycles throughout the month. Large customers may have bills produced in many or all of these cycles. Customers receive their EDI telecommunications bills on the same bill cycles as the paper bills.

We place billing data into a customer's mailbox for each bill cycle and expects an electronic, functional acknowledgment (997 Transaction Set) within 48 hours of receipt of the 811. Additionally, we expect bill payment, electronically or through traditional methods, by the bill's due date. We retransmit 811 transaction sets upon request, for up to 30 days after the original transmission.

## **2.4 EDI Enveloping**

EDI Enveloping has two components:

- Interchange Envelope (ISA/IEA)
- Functional Group Envelope (GS/GE)

The Interchange Envelope routes the transaction through telecommunications links from the sender to the receiver. It also has security, authorization codes, and transaction version information. We do not use the ISA envelope's security and authorization features for EDI Billing Transactions. The Functional Group envelope groups a series of like transactions into a single envelope. The 811 Transaction Set uses the CI (Consolidated Invoice) Functional Group Identifier. It is the only functional group that we send.

## **2.5 EDI Transactions**

EDI Transactions are a series of data segments and elements that represent common business documents in a standardized computer readable format. We use the 811-transaction set as developed by the ASC X12 standards committee. We also follow industry guidelines established by the Telecommunications Industry Forum (OBF) EDI Committee and are an active member of this industry group.

Section 4 details the EDI Summary Bill and EDI Detail Bill.

## **2.6 EDI Acknowledgment Processing**

EDI Acknowledgments are a control mechanism to ensure the successful delivery of EDI documents through telecommunications links. The 997-transaction set is the most common acknowledgment document and the one required by Ameritech. The 997 Functional Acknowledgment communicates to the document sender that the EDI transaction was successfully received and that the document complies with X12 standards, but does not authorize the content of the transaction. One acknowledgment per functional group is expected within 48 hours of receipt of our transmission. Most commercial translator software provides optional automatic acknowledgment processing.

## **2.7 EDI Payment Processing**

We offer the ability to pay telecommunications bills electronically using the ASC X12 820 Payment Order/Remittance Advice transaction. An EDI Bill Payment transaction allows a customer to consolidate several phone bills into a single payment. This process and transaction is detailed in the EDI Bill Payment Implementation Guide, which may be obtained from your AT&T Account Representative.

## **2.8 Paper Bill Options**

We offer three options for receiving a paper bill. The first option is the one that is most likely received today, the full detail paper bill. The second option is for customers who receive our bill in an electronic format (like EDI), but wish to pay using traditional methods (paper check). For these customers, only the first page(s) of the bill containing the payment remittance stub and the summary information is mailed. The third option is to eliminate all paper bills and is only available to customers who pay electronically.

## 3 EDI Implementation Steps

### 3.1 Implementation Phases

Implementing our EDI Billing Program has nine phases, described in the following paragraphs.

- 3.2 EDI Preparation and Assessment
- 3.3 EDI Billing Requirements and Design
- 3.4 EDI Platform Selection
- 3.5 Translator Mapping and Coding
- 3.6 Connectivity Testing
- 3.7 Development of the EDI Billing Application
- 3.8 Standards Testing
- 3.9 Parallel Transmissions
- 3.10 Paper Bill Elimination

### 3.2 EDI Preparation and Assessment

The EDI Preparation and Assessment phase allows an understanding of EDI implementation, identifies the benefits, secures stakeholder commitment, and develops an implementation plan.

This phase may vary from a few weeks to several months, depending on the company's EDI experience and its management's commitment to implementing EDI systems. While EDI offers great benefits, implementations are complex and require the cooperation of many company departments. First time EDI system implementations often require an 'EDI champion' who recognizes the benefits and is committed to its implementation.

During this phase, we request that you complete and submit the Trading Partner Survey form that is located at the end of this section. This form provides us with EDI contact information and helps us to determine your company's EDI experience and the level of assistance that you may require from our EDI technical team.

### 3.3 EDI Billing Requirements and Design

The EDI Billing Requirements and Design phase identifies the requirements and designs the system that will achieve EDI's benefits and provide the controls needed for a paperless environment. There are two major EDI system components:

- EDI transmission
- EDI-based applications



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The EDI transmission component transmits data from one company to another. The EDI-based application component uses the electronically formatted data.

We are focused on the first component, EDI transmission. We work with the OBF (Ordering and Billing Forum) EDI Telecommunications Billing (ETB) to develop an industry guideline for a telecommunications invoice that is compliant with X12 standards. We also furnish at no cost for EDI transmission of bills and payments, and provide an EDI technical team to help companies implement and test 811 transaction sets.

The customer develops the second component, EDI-based applications. The application requirements may be as simple as authorizing telecommunications bill payments to developing a multi-functional system that provides automatic reconciliation, electronic payment generation, fraud detection, and threshold bill processing. This is the most critical component because it is where the true benefits of EDI are achieved. The EDI transmission component provides data faster and in electronic format, but the billing application saves the real bill processing time and money.

During this phase the customer determines whether they need a full EDI Detail Bill or the less complex EDI Summary Bill, and if their bills should be paid electronically. This phase's duration varies based upon the billing application's functionality. The application component may be as simple as linking EDI formatted billing data to an existing application or as complex as a business process redesign for the bill processing application. The EDI transmission component is more involved if the translator and communication links are used by more than one application (e.g., if a Procurements department also uses the same EDI translator).

During this phase, we request that you complete and submit the Implementation Timeline form that is located at the end of this section. This form allows our technical team to schedule support activities such as testing.

### **3.4 EDI Platform Selection**

The EDI Platform Selection phase is only applicable to first time EDI implementations or companies that will use a separate EDI system for their phone bill processing. This phase evaluates and selects the EDI transmission components. The major components are an EDI translator and the Communication Link.

The EDI translator, described in Section 1, converts application data to EDI formatted data or vice versa. Developing this component may not be cost justifiable. There are several commercially available translator packages. Based on the previous phase's requirements, the customer evaluates and selects the translator that best meets their needs.

The Communication Link is the communication software package, the modem hardware, the telephone line, and the Value Added Network (VAN). There are many commercially available communication software packages that the customer may evaluate and select to meet their requirements. The customer also needs to select either a dial-up or direct telephone line. For

most companies, a dial-up line is sufficient. When data volumes are very high, a direct line may be more economical.

Customers incur the cost of transmitting data through a VAN network, and for high volume telecommunications bills, this cost could be significant.

During this phase, we request that you complete and submit the Trading Partner Profile that is located at the end of this section. This form provides technical electronic data transmission information.

### **3.5 Translator Mapping and Coding**

The Translator Mapping and Coding phase matches the billing application's requirements and the 811 transaction set requirements from us (called mapping), and updates and links your translator tables with this information. The X12 segment layouts are in Section 4. We provide a test 811 transaction upon request to assist in testing your translator.

### **3.6 Connectivity Testing**

The Connectivity Testing phase tests the communication link between us. It does not test the 811 standard. The test is successful when:

- A. We send a transaction to your mailbox
- B. You retrieve the transaction
- C. You pass it to your translator
- D. You produce a 997 acknowledgment
- E. You send the acknowledgment to us

The 997 functional acknowledgment is a basic transaction that most translators produce automatically and is a function to consider when evaluating translator packages.

### **3.7 Development of the EDI Billing Application**

The Development of the EDI Billing Application phase produces and tests a billing application that effectively process your billing data as determined in phase two. Depending on your bill processing system's functionality, this could be the most time-consuming phase. Complex applications may require several months. Some companies process the EDI Summary Bill before attempting the more complex EDI Detail Bill.

### 3.8 Standards Testing

The Standards Testing phase ensures that your translator and billing application process the 811 transaction set as required. We transmit a small subset of your accounts to test for a limited period. The test period is determined by the customer, but 8 to 12 weeks is generally sufficient. We require at least 2 to 6 weeks advance notification from the customer before test transmissions begin. This time is required to capture the selected accounts' data in our billing system.

During this phase, we request that you complete and submit the EDI Test Service Order form located at the end of this section. This form identifies the information for capturing the accounts and transmitting 811 transaction sets.

### 3.9 Parallel Transmissions

The Parallel Transmissions phase builds user confidence with the new EDI system. During this phase, both EDI and the paper (or other format) bills are sent to the customer. The customer should identify all accounts that are to be transmitted and submit them to us for processing. We require 2 to 6 weeks advance notification before transmission begins. To verify that both formats are producing similar results, we provide parallel billing data transmission for six months at no charge.

During this phase, we request that you complete and submit the EDI Billing Service Order form located at the end of this section. This form provides the information for capturing accounts and transmitting 811 transaction sets in the Detail or Summary format.

### 3.10 Paper Bill Elimination

The Elimination of the Paper Bill phase discontinues the paper bill to avoid the charges for receiving both EDI and paper formats. There are two paper bill elimination options:

- Total elimination
- Receive the remittance page and bill summary

The total elimination option is available to customers who pay their bills electronically. The second option is to continue to receive the Remittance Only Bill and Summary page(s). This option provides the first one or two bill pages that detail account information, payment remittance, and bill summary totals; allowing the customer to pay the bills using a check or other method. Please contact your AT&T EDI contact when you are ready to eliminate the paper bill and receive EDI only.

### 3.11 Maintenance

Telecommunications bills are dynamic documents. Expanding services and their consequent impact on billing significantly affects EDI software updates and supporting documentation. We minimizes software changes by fitting new telecommunications services into existing EDI billing structures whenever possible.

We provides 30 to 60-day notification to a designated customer representative of EDI Billing Products revisions, which may or may not involve software changes. Please inform your AT&T EDI contact when there is a change in the designated representative or address. When using EDI software packages that are customized for us, the software updates are at the discretion of the software provider.

We transmit ASC X12 Version 4, Release 1, of the 811-transaction set (OBF EDI Guidelines, Issue 9). We may not implement a new 811 version/release every time the ASC X12 committee issues a new version or release of the transaction set. When we changes to a new ASC X12 version/release of the 811 transaction set, the previous version/release is discontinued after an interval in which customers are asked to migrate to the new version/release.

### 3.12 Implementation Forms

The following implementation forms immediately follow this page.

Trading Partner Survey	3.12.1
Implementation Timeline	3.12.2
Trading Partner Profile	3.12.3
EDI Billing Service Order	3.12.4
EDI Test Service Order	3.12.5
EDI Trading Partner Agreement	3.12.6

### 3.12.1 Trading Partner Survey

#### A. Trading Partner Contacts

Company Name \_\_\_\_\_

##### Primary EDI Contact

Name \_\_\_\_\_

Title \_\_\_\_\_ Room No. \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

##### Secondary EDI Contact

Name \_\_\_\_\_

Title \_\_\_\_\_ Room No. \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Who maintains the Implementation Guide for future updates? \_\_\_\_\_

---

### 3.12.1 Trading Partner Survey, Continued

#### B. General Information

**If you have experience with EDI, please answer the following questions:**

1. How many months/years of EDI experience do you have? \_\_\_\_\_
2. Which applications and transaction sets have you implemented for EDI?  
\_\_\_\_\_
3. Are you currently doing or planning to do EDI with another telecommunications company?  
\_\_\_\_\_
4. What translator package are you using and what platform (mainframe, mini, PC) does it reside on?  
\_\_\_\_\_
5. What Value Added Network are you using, if any?  
\_\_\_\_\_
6. Do you belong to any EDI industry or users groups? \_\_\_\_\_  
If yes, which ones? \_\_\_\_\_

**If you do not have experience with EDI, please answer the following questions:**

1. Are you familiar with ANSI and ASC X12 standards? \_\_\_\_\_
2. Are you familiar with translator packages and their functionality? \_\_\_\_\_
3. Are you familiar with Value Added Networks and their role in EDI? \_\_\_\_\_

3.12.1 Trading Partner Survey, Continued

B. General Information, Continued

All Trading Partners should answer the following questions:

1. Will your EDI Bill Processing application be purchased or developed? \_\_\_\_\_
2. Do you intend to pay your telecommunications bill electronically using EDI? \_\_\_\_\_
3. What functionality do you require from your Bill Processing application? Please check all that apply:

<input type="checkbox"/> Bill Verification	<input type="checkbox"/> User Authorization of charges
<input type="checkbox"/> ChargeBack	<input type="checkbox"/> Payment Authorization
<input type="checkbox"/> Management Reporting	<input type="checkbox"/> Threshold Processing
<input type="checkbox"/> Exception Reporting	<input type="checkbox"/> Fraud Detection
<input type="checkbox"/> Cost Trend Analysis	<input type="checkbox"/> Usage Trend Analysis
<input type="checkbox"/> Telecommunications Service Mgmt	<input type="checkbox"/> Service Order Reconciliation
<input type="checkbox"/> Storage and Retrieval Capability	<input type="checkbox"/> Other: _____
4. What benefits are you seeking from this EDI implementation? Please check all that apply:

<input type="checkbox"/> Reduce labor costs associated with processing paper telecommunication bills
<input type="checkbox"/> Customize of telecommunication billing data for reporting, etc
<input type="checkbox"/> Reduce of data entry errors
<input type="checkbox"/> Support the payment process
<input type="checkbox"/> Eliminate late payment charges
<input type="checkbox"/> Automate reconciliation
<input type="checkbox"/> Access telecommunications billing data electronically
<input type="checkbox"/> Other _____
5. What department(s) within your company is leading this EDI implementation?

<input type="checkbox"/> Management Information Systems (MIS or IS)
<input type="checkbox"/> Telecommunications Department
<input type="checkbox"/> Centralized EDI Group
<input type="checkbox"/> Accounts Payable
<input type="checkbox"/> Other _____

Please Email [ABMS.Helpdesk@AT&T.com](mailto:ABMS.Helpdesk@AT&T.com)

### 3.12.2 Implementation Timeline

Please estimate the following dates for your EDI Billing Implementation.

- |   |                  |                |
|---|------------------|----------------|
| 1. EDI Preparation and Assessment             | Start Date _____ | End Date _____ |
| 2. EDI Billing Requirements and Design        | Start Date _____ | End Date _____ |
| 3. EDI Platform Selection                     | Start Date _____ | End Date _____ |
| 4. Translator Mapping and Coding              | Start Date _____ | End Date _____ |
| 5. Connectivity Testing                       | Start Date _____ | End Date _____ |
| 6. Development of the EDI Billing Application | Start Date _____ | End Date _____ |
| 7. Standards Testing                          | Start Date _____ | End Date _____ |
| 8. Parallel Transmissions                     | Start Date _____ | End Date _____ |
| 9. Paper Bill Elimination                     | Start Date _____ |                |



**3.12.3 Trading Partner Profile**

**A. Trading Partner Technical Contact Information**

Company Name\_\_\_\_\_

Technical Contact\_\_\_\_\_

Title\_\_\_\_\_ Room No\_\_\_\_\_

Address\_\_\_\_\_

City/State/Zip\_\_\_\_\_

Phone\_\_\_\_\_ Fax\_\_\_\_\_

Secondary Contact\_\_\_\_\_ Phone\_\_\_\_\_

**B. EDI Enveloping Information**

We need a company ID to route transactions through to a designated mailbox. The most commonly used identifier is a company's DUNs number, but other options are available including telephone numbers or any other mutually agreed upon information.

Company ID (ISA08) \_\_\_\_\_

Company ID Type (ISA07)     \_\_\_ Duns Number (01)  
   \_\_\_ Telephone Number (12)  
   \_\_\_ Other \_\_\_\_\_ (ZZ)

**C. EDI Platform Profile**

Translator Package \_\_\_\_\_

Translator Hardware Platform    PC        MINI        MAINFRAME

Value Added Network \_\_\_\_\_

Communication Package \_\_\_\_\_

Please Email to [ABMS.Helpdesk@AT&T.com](mailto:ABMS.Helpdesk@AT&T.com)

### 3.12.3 Trading Partner Profile, Continued

#### D. Transaction Sets and Versions

We offer the ASC X12 811 and 864 Transaction Sets in version 004010 only.

997 Functional Acknowledgments are required by us.

Do you plan to implement the 820 Payment Order/Remittance Advice?      Yes    No

Please Email to [ABMS.Helpdesk@AT&T.com](mailto:ABMS.Helpdesk@AT&T.com)

**3.12.4 EDI Billing Service Order**

**A. Trading Partner Information**

Company Name \_\_\_\_\_

EDI Manager/Coordinator \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

When would you like the first transmission to occur? \_\_\_\_\_  
 (Allow 2-6 weeks)

When would you like to eliminate the paper bill? \_\_\_\_\_  
 (Note: The Paper Bill Remittance Page continues to be sent unless electronic payments are sent.)

Please submit these forms or a computer printout of this information to your EDI representative.

**B. Trading Partner Test Accounts (13 digit account numbers and Bill Date are required)**

<b>ABMS Account List Template</b>					
<b>Area Code</b>	<b>Telephone number</b>	<b>Customer Code</b>	<b>Store ID</b>	<b>Add Account</b>	<b>Delete Account</b>
630	7771234	123	1234567890	X	
<b>3 digits</b>	<b>7 digits</b>	<b>3 digits</b>	<b>10 Chars (optional)</b>	<b>One operation only</b>	

Please Email to [ABMS.Helpdesk@AT&T.com](mailto:ABMS.Helpdesk@AT&T.com)

### 3.12.5 Trading Partner Agreement

Contract No. \_\_\_\_\_

#### ELECTRONIC DATA INTERCHANGE TRADING PARTNER AGREEMENT

This Electronic Data Interchange Trading Partner Agreement ("Agreement") is made as of the date of the last executed signature herein, by and between \_\_\_\_\_, a \_\_\_\_\_ corporation ("Customer"), and "AT&T Midwest Services." ("Seller") a Delaware corporation.

WHEREAS, Customer is a purchaser of various telecommunications products and services from Seller; and WHEREAS, Customer and Seller desire to electronically exchange various documents; NOW THEREFORE, the parties, intending to be legally bound, agree as follows:

#### 1. DEFINITIONS

For the purpose of this Agreement, the following definitions shall apply. A term defined in the singular shall include the plural and vice versa when the context so indicates.

- 1.1 "Acceptance" means a properly received Document as prescribed by the EDI Guidelines.
- 1.2 "Data" means an electronic Document.
- 1.3 "Document" means the record of a Transaction.
- 1.4 "Electronic Data Interchange ("EDI")" means the transmission of information as a stream of electronic data.
- 1.5 "EDI Guidelines" means Telecommunications Industry Forum EDI Guidelines for use of American National Standards Institute (ANSI) Accredited Standards Committee X12 transaction sets, or mutually agreed upon proprietary format or alternate standard such as Extensible Markup Language (XML).
- 1.6 "Provider" means a third party service provider.
- 1.7 "Receipt Computer" means the computer designated to receive EDI transactions as prescribed by ANSI Accredited Standards Committee X12 transaction standards.
- 1.8 "Signature" means an electronic identification, adopted by each party, consisting of a symbol(s) or code(s).
- 1.9 "Signed Document" means a Document that has a Signature.
- 1.10 "Transactions" means orders, payments, acknowledgements, invoices, remittance advices, and other records.

#### 2. GENERAL TERMS

**2.1 Terms and Conditions:** The terms contained herein shall apply to any activity where both parties agree to the transmission of Data via EDI. If there is any conflict between this Agreement and any other agreement or Order, this Agreement shall prevail.

#### 2.2 Validity/Enforceability:

**2.2.1** Any Documents properly transmitted as Data shall be considered to be a "writing" or "in writing" and any such Document, when containing a Signature, shall be deemed for all purposes to: (a) have been "signed" and (b) constitute an "original" when printed from electronic files or records established and maintained in the normal course of business. The parties agree: (i) the provisions of the Uniform Commercial Code 2-201 (Statute of Frauds) shall not apply to these electronic transactions, (ii) these electronic transactions shall be deemed to satisfy any legal formalities requiring that agreements be in writing, and (iii) computer maintained records when produced in hard copy form shall constitute business records and shall be admissible as evidence to the same extent as other generally recognized business records.

**2.2.2** The conduct of the parties pursuant to this Agreement, including the use of properly transmitted Signed Documents, shall, for all legal purposes, evidence a course of dealing and a course of performance accepted by the parties in furtherance of this Agreement.

### 3.12.6 Trading Partner Agreement, Continued

**2.2.3** The parties agree not to contest the validity or enforceability of Signed Documents under the provisions of any applicable law requiring certain agreements are to be in writing or signed by the party to be bound thereby. Neither party shall contest the admissibility of copies of Signed Documents under either the business records exception to the hearsay rule or the best evidence rule on the basis that the Signed Documents were not originated or maintained in documentary form.

**2.3 Termination:** This Agreement shall remain in effect until terminated by either party upon thirty (30) days' prior written notice, which notice shall specify the effective date of termination; provided, however, that no termination shall affect or reduce any obligations or rights of the parties which arose or were incurred prior to termination of the Agreement

**2.4 Severability:** Any provision of the Agreement which is determined to be invalid or unenforceable will be stricken, and the entire remaining Agreement will be enforceable without regard to the stricken provision.

**2.5 Tariffs:** This Agreement is subject to the jurisdiction of the Public Utilities Commission of the state in which the Seller is located, and/or the Federal Communications Commission, and shall at all times be subject to such changes and modifications as either Commission or the Telecommunications Division of either Commission may, from time to time, direct in the exercise of its jurisdiction.

**2.6 Governing Law:** This Agreement shall solely be governed by and interpreted in accordance with the laws of the State of Illinois.

**2.7 Force Majeure:** Neither party shall be liable for any failure to perform its obligations in connection with any Transaction or any document, where such failure results from any act of God or other cause beyond such party's reasonable control (including, without limitation, any mechanical, electronic or communications failure) which prevents such party from transmitting or receiving any Data.

**2.8 Limitation of Damages:** Neither party shall be liable to the other for any special, incidental, exemplary or consequential damages arising from or as a result of any delay, omission or error in the electronic transmission or receipt of any Data pursuant to this Agreement, even if either party has been advised of the possibility of such damages.

**2.9 Cure:** Neither party will be deemed to be in default under any of the terms of this Agreement, and the parties may not seek or attempt to enforce any remedy for any claimed default, unless the other party fails to cure or correct same within ten (10) days following receipt of written notice thereof from the other party.

**2.10 Entire Agreement:** This Agreement and all agreements referenced as supplementing this Agreement constitute the complete agreement of the parties relating to the matters specified herein and supersede all prior representations or agreements, whether oral or written, with respect to such matters. No oral modification or waiver of any of the provisions of this Agreement shall be binding on either party. No modification or amendment to this Agreement shall be effective unless reflected in a writing signed by all of the parties hereto. No obligation to enter into any Transaction is to be implied from the execution or delivery of this Agreement. This Agreement is for the benefit of, and shall be binding upon, the parties and their respective successors and assigns.

### 3. PREREQUISITES

**3.1 Document Standards:** In accordance with the EDI Guidelines, and in a format mutually acceptable to the parties, each party may electronically transmit Data to or receive Data from the other party. Any transmission of Data that does not meet the definition of a Document as set forth above shall have no force or effect between the parties unless justifiably relied upon by the receiving party.

#### 3.2 Third Party Service Providers:

**3.2.1** Data will be transmitted electronically to each party either directly or through any Provider with which either party may contract. The Providers must interconnect with each other. Either party may modify its election to use, not use, or change a Provider upon thirty (30) days' prior written notice.

**3.2.2** Each party shall be responsible only for the costs incurred by its own Provider.

### 3.12.6 Trading Partner Agreement, Continued

**3.2.3** Each party shall be solely liable for the acts or omissions of its own Provider while transmitting, receiving, storing or handling Data, or performing related activities for such party; provided, that if both the parties use the same Provider to effect the transmission and receipt of a Document, the originating party shall bear all liability for the acts or omissions of such Provider as to such Document.

**3.3 Systems Operation:** Each party, at its own expense, shall provide and maintain the equipment, software, services and testing necessary to effectively and reliably transmit and receive Data.

**3.4 Security Procedures:** Each party shall properly use security that is reasonably sufficient to ensure that all transmission of Data is authorized and to protect its business records and data from improper access.

**3.5 Signatures:** To the extent required by law, each party's Signature shall be affixed to or contained in each Document transmitted by such party. Each party agrees that any Signatures of such party affixed to or contained in any transmitted Document shall be sufficient to verify such party originated such Document.

**3.6 Confidentiality:** Information contained in any Document or otherwise electronically exchanged between the parties shall be considered confidential and shall not be disclosed to any third party without the prior written consent of the originator.

## 4. TRANSMISSION

**4.1 Proper Receipt:** Data shall not be deemed to have been properly received, and no Document shall give rise to any obligation, until accessible to the receiving party at such party's Receipt Computer.

**4.2 Verification:** Upon proper receipt of any Document, the receiving party shall promptly and properly transmit a functional acknowledgment in return. A functional acknowledgment shall constitute conclusive evidence that a Document has been properly received.

**4.3 Acceptance:** Any Document, which has been properly received, shall not give rise to any obligation unless and until an Acceptance has been received by the party initially transmitting such Document.

**4.4 Garbled Transmission:** If any transmitted Document is received in an unintelligible or garbled form, the receiving party shall promptly notify the originating party (if identifiable from the received Document) in a reasonable amount of time and in a reasonable manner. In the absence of such notice, the originating party's records of the contents of such Document shall control.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives:

**AT&T Midwest Services**

**Customer Company Name**

By: \_\_\_\_\_  
(Signature)

By: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Typed Named)

\_\_\_\_\_  
(Typed Named)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Title)

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Date)

## 4 811 Technical Specifications

### 4.1 Terminology

Many EDI 811 terms have distinct meanings depending on context. Common terms that are used in this Guide are:

EDI Detail	One of AT&T's two 811 billing products (see 4.4).
EDI Summary	One of AT&T's two 811 billing products (see 4.3).
Heading Area	This 811 portion, also called Table 1, occurs at the beginning of the transaction set (before the Detail Area) and contains account information. Both EDI Detail and EDI Summary include a Heading Area.
Detail Area	This 811 portion, also called Table 2, contains the hierarchical levels. Both EDI Detail and EDI Summary include a Detail Area, though they use different hierarchical levels (see the chart in section 4.2).
Summary Area	This 811 portion, also called Table 3, occurs at the end of the transaction set (following the Detail Area) and contains bill balance, payment, and adjustment amounts. Both EDI Detail and EDI Summary include a Summary Area.
Bill Section	<ol style="list-style-type: none"><li>1. A paper bill section describing specific charges (e.g., monthly service or itemized calls).</li><li>2. Any portion of the 811 Detail Area beginning with an HL 4 and including all child levels of that HL 4. Like a paper bill section, such a portion describes charges of a specific type.</li></ol>
Implementation Guide Section	An AT&T 811 Implementation Guide chapter. The sections are identified as Section 1, Section 4.1, or Section 4.14.1. This last identification describes a single EDI Bill Section.

## 4.2 811 Hierarchy

The 811 Transaction Set has three main areas:

Heading	Occurs once per billed account number and contains basic customer account and invoice information.
Summary	Occurs once per billed account number and contains invoice totals, payments, and adjustment amounts.
Detail	A complex nine level hierarchy that may repeat multiple times for a single account.  There is one occurrence of this hierarchy for each service provider contained within a telecommunications bill. For example, if your AT&T bill included charges from AT&T, and MCI, you will receive three hierarchy occurrences.

Each hierarchy level is defined by ASC X12 and a limited number of specified segments may appear at each level. The complete 811 Transaction Set is in Section 5, Appendix A. The following chart lists the hierarchy levels as defined by ASC X12, and describes which levels are used by the EDI billing products and CSR option.

### Parts of the 811 Used by Each EDI Billing Product/CSR Option

811 Area - Hierarchical Level	Description	Products		CSR Option
		Basic EDI Summary	Basic EDI Detail	
Heading	--	Yes	Yes	
Detail HL 1	Service Provider	Yes	Yes	
Detail HL 2	Billing Arrangement	Yes**	Yes**	
Detail HL 3	Billing Arrangement			
Detail HL 4	Group	Yes	Yes	Yes
Detail HL 5	Category		Yes	Yes
Detail HL 6	Sub-category		Yes	Yes
Detail HL 7	Type		Yes	Yes
Detail HL 8	Charge Detail		Yes	Yes
Detail HL 9	Line Detail		Yes	
Summary	--	Yes	Yes	

\*\* Optional. The Billing Arrangement currently offered by AT&T is 'Bill Under'. Contact your AT&T Account Representative for more information.



### **4.3 EDI Summary Bill**

The EDI Summary Bill is designed for customers to perform high-level cost analysis and/or pay for telecommunications services electronically. The summary bill contains no toll or usage detail, though it may include detailed service and equipment information when the Customer Service Record Billing Option is selected.

#### **Heading Area**

EDI Summary Bill's Heading area contains 'face page' information, including the account number, statement date, billing terms, customer name, and billing provider name. There are no dollar amounts in this section. Account balance amounts are contained in the 811 summary area. The Heading Area is the same for both EDI Summary Bill and EDI Detail Bill.

#### **Detail Area – Basic Billing Information**

EDI Summary Bill's Detail Area contains two or three of the nine 811 hierarchical levels (unless the CSR option is selected).

- |         |  |
|---------|--|
| Level 1 | Service Provider information and the taxes and surcharges (if Level 2 is not present) related to a service provider.         |
| Level 2 | Taxes and surcharges related to a specific account within the Billing Arrangement.   |
| Level 3 | Not used by AT&T.  |
| Level 4 | Bill Section service rendered codes, service type, and subtotals. Only the IT1 loop is used in the EDI Summary Bill Level 4. |

Not all taxes, surcharges, and bill sections appear on all bills. If the charge amount is zero, the segment is suppressed.

#### **Detail Area – Billing Arrangement (Optional)**

The Billing Arrangement offered by AT&T is 'Bill Under'. Bill Under allows customers to consolidate billing information for multiple accounts and bill periods under one billing telephone number and one bill period. Contact your AT&T Account Representative for more information.

### **4.3 EDI Summary Bill, Continued**

#### **Detail Area – Customer Service Record Option**

The CSR option is for performing service order reconciliation, service optimization, or similar analysis. The CSR detail appears under Level 4 Monthly Service, service rendered code 0200. All service detail is informational only. Levels 5, 6, and 7 are sort levels, and Level 8 details the account's USOCs. The presentation is the same for both EDI Summary Bill and EDI Detail Bill. For more information, see section 4.11.

#### **Summary Area**

The EDI Summary Bill and Detail Bill's summary areas are identical. The following totals and subtotals are available in this section:

- Current Month Charge
- Late Payment Charge
- Amount Previously Billed
- Net Adjustment
- Total Payment Amount
- Amount Due (Total transaction) – Not Available in the EDI 811 Memorandum
- Itemized Adjustments

## 4.4 EDI Detail Bill

The EDI Detail Bill is designed for customers who perform detailed telecommunications usage and billing analysis.

### Heading Area

The EDI Detail Bill's Heading Area contains 'face page' information, including the account number, statement date, billing terms, customer name, and billing provider name. There are no dollar amounts in this section. Account balance amounts are contained in the 811 summary area. The Heading Area is the same for both EDI Summary Bill and EDI Detail Bill.

### Detail Area – Basic Billing Information

The EDI Summary Bill's Detail Area contains eight of the nine 811 hierarchical levels (all but Level 3).

- |         |  |
|---------|--|
| Level 1 | Service Provider information and the taxes and surcharges (if Level 2 is not present) related to a service provider.         |
| Level 2 | Taxes and surcharges related to a specific account within the Billing Arrangement.   |
| Level 3 | Not used by AT&T.  |
| Level 4 | Bill Section service rendered codes, service type, and subtotals. Only the IT1 loop is used in the EDI Summary Bill Level 4. |

The remaining levels (5, 6, 7, 8, and 9) vary in terms of information provided and are detailed in Section 4, Bill Section Layouts.

### Detail Area – Billing Arrangement (Optional)

The Billing Arrangement offered by AT&T is 'Bill Under'. This offering allows customers to consolidate billing information for multiple accounts and bill periods under one billing telephone number and one bill period. Contact your AT&T Account Representative for more information.

#### 4.4 EDI Detail Bill, Continued

##### Detail Area – Customer Service Record Option

The CSR option is for performing service order reconciliation, service optimization, or similar analysis. CSR detail appears under Level 4 Monthly Service, service rendered code 0200. All service detail is informational only. Levels 5, 6, and 7 are sort levels, and Level 8 details the account’s USOCs. It is the same for both EDI Summary Bill and EDI Detail Bill. For more information, see section 4.11.

##### Summary Area

The EDI Detail Bill and Summary Bill’s summary areas are identical. The following totals and subtotals are available in this section:

- Current Month Charge
- Late Payment Charge
- Amount Previously Billed
- Net Adjustment
- Total Payment Amount
- Amount Due (Total transaction) – Not available in the EDI 811 Memorandum
- Itemized Adjustments

#### 4.5 EDI Summing Rules

There are levels of summing rules:

Level	Summing Rules
Individual bill section (HL4 IT104 billed amount)	In Section 4 under each bill section
Summary Area	In the Section 4 Summary section
Detail Area to current month charge	Summing the detail area to the current month charge (TDS) is: IT1 segments + TXI segments from HL 1-7 when TXI07 = A + ITA segments from HL 1-7 when ITA16 = A + SLN segments when SLN08 = A

**4.5 EDI Summing Rules, Continued**

A complete overview of summing rules is in the OBF EDI Guidelines. The guidelines are available on the internet at: [www.atis.org/atis/obf/edi/edb/5tc54hom.htm](http://www.atis.org/atis/obf/edi/edb/5tc54hom.htm)

Dollar Amounts are in the following segments:

Heading	There are no dollar amounts in the 811 Heading Area.		
Level 1	AMT	Service Provider Totals	Information Only
	TXI	Taxes	TDS summing value
	ITA	Surcharges	TDS summing value
Level 2	AMT	Service Provider Totals	Information Only
	TXI	Taxes	TDS summing value
	ITA	Surcharges	TDS summing value
Level 4	IT1	Bill Section Subtotals	TDS summing value
	ITA	Charge/Discount	IT1 summing value or TDS summing value
Level 5-7	AMT	Line Number Subtotal	Information Only
Level 8	SLN	Sub section Subtotal	IT1 summing value or TDS summing value or Information Only
	INC	Installment Billing	Information Only
	ITA	Charge/Discount	IT1 summing value or SLN summing value or Information Only
Level 9	USD	Usage Detail	IT1 summing value or SLN summing value or Information Only
	ITA	Charge/Discount	IT1 summing value or SLN summing value or Information Only
	TCD	Toll Call Detail	IT1 summing value or SLN summing value or Information Only
	TXI	Local Taxes on Toll	IT1 summing value or SLN summing value or Information Only
	ITA	Charge/Discount	IT1 summing value or SLN summing value or Information Only
Summary	TDS	Current Month Charge	Summary area summing value
	ITA	Late Payment Charge	Summary area summing value
	BAL	Previous Billed Amount	Summary area summing value
	BAL	Net Adjustment	Summary area summing value
	BAL	Total Payment Amount	Summary area summing value
	BAL	Total Transaction Amount	Summary area summing result
	ITA	Adjustment Detail	Information Only

'Information Only' denotes that the value is not included as a component of any summing rules. All AMT segments are Informational Only. Segments that may be used in summing rules or that are information only are identified with code values within the segment.

## **4.6 EDI Bill Section Layouts**

The following Bill Section layouts immediately follow this page.

- 4.7 Heading
- 4.8 Service Provider Section without Billing Arrangement
- 4.9 Service Provider Section with Billing Arrangement
- 4.10 Billing Arrangement
- 4.11 Monthly Service/Customer Service Record
- 4.12 Directory Advertising
- 4.13 Trouble Isolation Plan/Maintenance
- 4.14 Directory Assistance
- 4.15 Local Usage - Message
- 4.16 Local Usage - Measured
- 4.17 Itemized Calls
- 4.18 Other Charges and Credits
- 4.19 WATS
- 4.20 Cellular
- 4.21 Paging
- 4.22 Interexchange Carrier Invoice
- 4.23 Packet Switching
- 4.24 Miscellaneous Charges & Credits
- 4.25 Summary
- 4.26 Department Number Hierarchy

Each section provides the:

- 811 Hierarchy Structure
- Bill Section Technical Specifications
- X12 Segment Layout

## **4.27 Enveloping Layouts**

The two Enveloping layouts are:

- 4.27.1 Interchange Envelope
- 4.27.2 Functional Group Envelope

These layouts follow the Section 4 Bill Section layouts

## **4.28 Acknowledgment Layout**

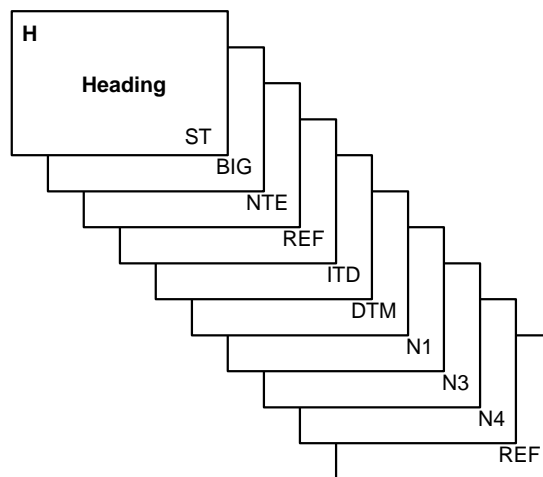
The Functional Acknowledgment layout (4.28.1) follows the 4.27 Enveloping layouts.

## **4.29 Text Message**

The Text Message (864) transaction set provides USOC information.

## 4.7 Heading

### 4.7.1 811 Hierarchy Structure / Heading



## 4.7.2 Bill Section Technical Specifications / Heading

### Segment Sequence and Usage

HDG	ST	Occurs once per transaction set. Contains transaction set control data.
	BIG	Occurs once in the heading area. Contains date, invoice number and transaction type code.
	NTE	Occurs once in the heading area. Contains customer's subscription number, qualifier <i>ZZZ</i> .
	REF	Occurs up to four times in the heading area.. Contains the accounts receivable number. Contains the billing account number. Contains Invoice number, if applicable Contains Customer Reference Number, if applicable
	ITD	Occurs once in the heading area. Contains payment terms if applicable.
	DTM	Occurs twice in the heading area. Contains the invoice period start date. Contains the invoice period end date.
	N1	Occurs twice in the heading area. Contains the payee name (AT&T). Contains the payer name (AT&T customer).
	N3	Occurs up to two times within the payee N1 loop. Contains remit to address information.
	N4	Occurs once within the payee N1 loop. Contains remit to City, State and Zip Code.
	REF	Occurs up to three times within the payer N1 loop, if applicable. Contains the Government Contract Number. Contains the Federal Tax ID Number. Contains the Customer Reference Number.

### EDI Summary Bill

The transaction set's Heading area is identical for the EDI Summary Bill and the EDI Detail Bill.

### Comments and Exceptions

- Every transaction set contains a Heading area.
- REF segment associated with accounts receivable and ITD segment are not applicable in EDI 811 Memorandum



4.7.3 X12 Segment Layout / Heading

Segment	Seg ID	D/E	Description	Type	Min/Max
ST	ST01	143	TRANSACTION SET IDENTIFIER CODE	ID	3/3
			811 Consolidated Service Invoice/Statement.		
	ST02	329	TRANSACTION SET CONTROL NUMBER Control Number to uniquely identify the Transaction Set.	AN	4/9
BIG	BIG01	373	DATE Bill Date.	DT	8/8
	BIG02	76	INVOICE NUMBER Billed Account Number and Bill Date.	AN	1/22
	BIG03	373	DATE Not Applicable.	DT	8/8
	BIG04	324	PURCHASE ORDER NUMBER Not Applicable.	AN	1/22
	BIG05	328	RELEASE NUMBER Not Applicable.	AN	1/30
	BIG06	327	CHANGE ORDER SEQUENCE NUMBER Not Applicable.	AN	1/8
	BIG07	640	TRANSACTION TYPE CODE CN Credit Invoice. DI Debit Invoice. FB Final Bill. CR Credit Memo DR Debit Memo FE Memorandum, Final Bill ME Memorandum	ID	2/2
	BIG08	353	TRANSACTION SET PURPOSE CODE Not Applicable.	ID	2/2
	BIG09	306	ACTION CODE Not Applicable.	ID	1/2
	BIG10	76	INVOICE NUMBER Not Applicable.	AN	1/22
NTE	NTE01	363	NOTE REFERENCE CODE ZZZ Mutually Defined.	ID	3/3
	NTE02	352	DESCRIPTION AT&T Subscription Number.	AN	1/80

4.7.3 X12 Segment Layout / Heading, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max	
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER	ID	2/3	
		12	Billing Account.			
		AP	Accounts Receivable Number.			
		IV	Seller's Invoice Number			
		CR	Customer Reference Number			
	REF02	127	REFERENCE IDENTIFICATION Billing Account Number. Accounts Receivable Number. Invoice Number Reference Number	AN	1/30	
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80	
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A	
ITD	ITD01	336	TERMS TYPE CODE	ID	2/2	
		03	Fixed date.			
		10	Instant.			
			18	Fixed date, late payment penalty applies.		
		ITD02	333	TERMS BASIS DATE CODE 5 Invoice Receipt Date.	ID	1/2
		ITD03	338	TERMS DISCOUNT PERCENT Not Applicable.	R	1/6
		ITD04	370	TERMS DISCOUNT DUE DATE Not Applicable.	DT	8/8
		ITD05	351	TERMS DISCOUNT DAYS DUE Not Applicable.	N0	1/3
		ITD06	446	TERMS NET DUE DATE Due Date.	DT	8/8
		ITD07	386	TERMS NET DAYS Not Applicable.	N0	1/3
		ITD08	362	TERMS DISCOUNT AMOUNT Not Applicable.	N2	1/10
		ITD09	388	TERMS DEFERRED DUE DATE Not Applicable.	DT	8/8
	ITD10	389	DEFERRED AMOUNT DUE Not Applicable.	N2	1/10	
	ITD11	342	PERCENT OF INVOICE PAYABLE Not Applicable.	R	1/5	
	ITD12	352	DESCRIPTION Not Applicable.	AN	1/80	

4.7.3 X12 Segment Layout / Heading, Continued

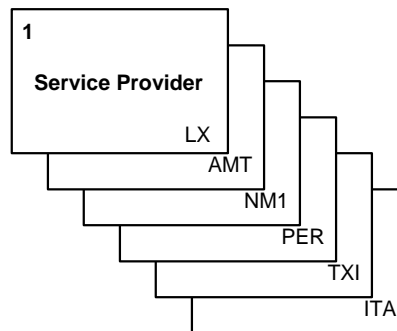
Segment	Seg ID	D/E	Description	Type	Min/Max
	ITD13	765	DAY OF MONTH Not Applicable.	N0	1/2
	ITD14	107	PAYMENT METHOD CODE Not Applicable.	ID	1/2
	ITD15	954	PERCENT Not Applicable.	R	1/10
DTM	DTM01	374	DATE/TIME QUALIFIER 186 Invoice Period Start. 187 Invoice Period End.	ID	3/3
	DTM02	373	DATE Start Date. End Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
N1	N101	98	ENTITY IDENTIFIER CODE PE Payee (AT&T). PR Payer (Customer).	ID	2/3
	N102	93	NAME AT&T. Customer Name.	AN	1/60
	N103	66	IDENTIFICATION CODE QUALIFIER Not Applicable.	ID	1/2
	N104	67	IDENTIFICATION CODE Not Applicable.	AN	2/80
	N105	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
	N106	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3

4.7.3 X12 Segment Layout / Heading, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
N3	N301	166	ADDRESS INFORMATION Remit to Address.	AN	1/55
	N302	166	ADDRESS INFORMATION Additional Street Address Information.	AN	1/55
N4	N401	19	CITY NAME Remit to City.	AN	2/30
	N402	156	STATE OR PROVINCE CODE Remit to State.	ID	2/2
	N403	116	POSTAL CODE Remit to Zip Code.	ID	3/15
	N404	26	COUNTRY CODE Not Applicable.	ID	2/3
	N405	309	LOCATION QUALIFIER Not Applicable.	ID	1/2
	N406	310	LOCATION IDENTIFIER Not Applicable.	AN	1/30
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER GC Government Contract Number. TJ Federal Taxpayer's Identification Number. CR Customer Reference Number.	ID	2/3
		127	REFERENCE IDENTIFICATION Government Contract Number. Federal Tax ID Number. Customer Reference Number.	AN	1/30
		352	DESCRIPTION Not Applicable.	AN	1/80
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A

## 4.8 Service Provider Section Without Billing Arrangement

### 4.8.1 811 Hierarchy Structure / Service Provider Section Without Billing Arrangement



## 4.8.2 Bill Section Technical Specifications / Service Provider Section Without Billing Arrangement

### Segment Sequence and Usage

L1	LX	Occurs once as a reference to a line number in a transaction set. Contains a sequence number for the loop structure.
	AMT	Occurs once per service provider. Contains the total service charge for the service provider.
	NM1	Occurs once per service provider. Contains service provider name and carrier code.
	PER	Occurs multiple times per service provider. Contains telephone number or URL for service provider contacts.
	TXI	Occurs once for each applicable tax. Contains tax amount, tax type, and percent.
	ITA	Occurs once for each applicable surcharge, allowance, or special fee. Contains surcharge/allowance/special fee amount and code identifier.

### EDI Summary Bill

The Service Provider structure is identical in the EDI Summary and Detail Bills.

### Comments and Exceptions

- All AT&T EDI bills have the Service Provider structure.
- Carrier codes found in the NM1 segment are maintained by Lockheed Martin.
- The TXI and ITA amounts are used in summing the Detail Area to the TDS segment amount.

4.8.3 X12 Segment Layout / Service Provider Section Without Billing Arrangement

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 1	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Not Applicable.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 1 Service/Billing Provider.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop.	N0	1/6
	AMT	AMT01	522	AMOUNT QUALIFIER CODE SC Total Service Charge.	ID	1/3
		AMT02	782	MONETARY AMOUNT Total Service Charge for Service Provider.	R	1/18
		AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1
	NM1	NM101	98	ENTITY IDENTIFIER CODE 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 Service Provider Name.	AN	1/35
		NM104	1036	NAME FIRST Not Applicable.	AN	1/25
		NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
		NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
		NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10

4.8.3 X12 Segment Layout / Service Provider Section Without Billing Arrangement, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	NM108	66	IDENTIFICATION CODE QUALIFIER 41 Telecommunications Carrier Identification Code. 42 Telecommunications Pseudo Carrier Identification Code. 91 Assigned by Seller or Seller's Agent.	ID	1/2
	NM109	67	IDENTIFICATION CODE Carrier Code. AT&T codes: 00IL AT&T Illinois 00IN AT&T Indiana 00MI AT&T Michigan 00OH AT&T Ohio 00WI AT&T Wisconsin	AN	2/80
	NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
	NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3
PER	PER01	366	CONTACT FUNCTION CODE BI Bill Inquiry Contact. OD Order Department. MA Maintenance Contact. IC Information Contact.	ID	2/2
	PER02	93	NAME In-State Call. Out-of-State Call. 900 Billing.	AN	1/60
	PER03	365	COMMUNICATION NUMBER QUALIFIER TE Telephone. UR Uniform Resource Locator (URL).	ID	2/2
	PER04	364	COMMUNICATION NUMBER Bill Inquiry Telephone Number (In-State, Out-of-State, 900 Service). Service Order Telephone Number. Maintenance Contact Telephone Number. Internet address.	AN	1/80
	PER05	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER06	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER07	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER08	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER09	443	CONTACT INQUIRY REFERENCE Not Applicable.	AN	1/20



4.8.3 X12 Segment Layout / Service Provider Section Without Billing Arrangement, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
TXI	TXI01	963	TAX TYPE CODE AA Stadium Tax. FT Federal Excise Tax. ST State Sales Tax. LO Local Tax (Not Sales Tax). CA City Tax. CT County Tax. TT Telecommunications Tax. LS State and Local Sale Tax MP Municipal Tax GR Gross Receipts	ID	2/2
	TXI02	782	MONETARY AMOUNT Tax Amount.	R	1/18
	TXI03	954	PERCENT Percent.	R	1/10
	TXI04	955	TAX JURISDICTION CODE QUALIFIER VD Vender Defined.	ID	2/2
	TXI05	956	TAX JURISDICTION CODE ST State MP Municipal	AN	1/10
	TXI06	441	TAX EXEMPT CODE Not Applicable.	ID	1/1
	TXI07	662	RELATIONSHIP CODE A Add.	ID	1/1
	TXI08	828	DOLLAR BASIS FOR PERCENT Not Applicable.	R	1/9
	TXI09	325	TAX IDENTIFICATION NUMBER Not Applicable.	AN	1/20
	TXI10	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20

4.8.3 X12 Segment Layout / Service Provider Section Without Billing Arrangement, Continued

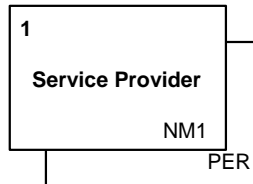
Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR A Allowance. C Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE FD Federal. ST State. CY County. LO Local. CA City. MP Municipal. SL State and Local. FS Federal and State CMPLX Complex Line Port	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE 04 Credit Customer Account. 06 Charge to be paid by Customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Monetary Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80

4.8.3 X12 Segment Layout / Service Provider Section Without Billing Arrangement, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE	ID	3/3
			ACF Access Charge - Federal.		
			ACS Access Charge - State.		
			CCR Concession Credit.		
			DDF Digital Divide Fund		
			DDS Deaf & Disabled Surcharge.		
			EAC Exchange Access Credit.		
			EQA Equal Access Surcharge.		
			ESC Emergency Service.		
			FFA Franchise Fee.		
			FUS Federal Universal Service Surcharge.		
			GRS Gross Receipts Surcharge.		
			IMC Infrastructure Maintenance Credit.		
			LNP Long-term Number Portability Surcharge.		
			MMF Municipal Maintenance Charge.		
			MUS Municipal Surcharge.		
			NPF No PIC Federal Charge.		
			NPI No PIC Intra.		
			NPS No PIC State Charge.		
			REE Regulatory Fee		
			SAF Special Credit.		
			SMF State Maintenance Charge.		
			STC State Surcharge.		
			SUR Surcharge.		
			SUS State Universal Service Surcharge.		
			TXS Tax Surcharge.		
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

#### 4.9 Service Provider Section With Billing Arrangement

##### 4.9.1 811 Hierarchy Structure / Service Provider Section With Billing Arrangement



## 4.9.2 Bill Section Technical Specifications / Service Provider Section With Billing Arrangement

### Segment Sequence and Usage

L1	NM1	Occurs once per service provider. Contains service provider name and carrier code.
	PER	Occurs multiple times per service provider. Contains telephone number or URL for service provider contacts.

### EDI Summary Bill

The Service Provider with Billing Arrangement structure is identical in the EDI Summary and Detail Bills.

### Comments and Exceptions

- All AT&T EDI bills have the Service Provider structure.
- Carrier codes found in the NM1 segment are maintained by Lockheed Martin.

4.9.3 X12 Segment Layout / Service Provider Section With Billing Arrangement

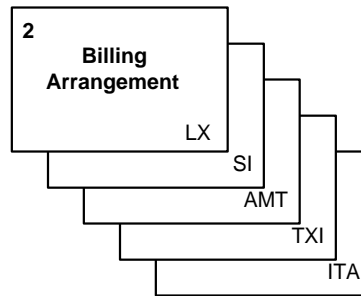
	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 1	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Not Applicable.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 1 Service/Billing Provider.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	NM1	NM101	98	ENTITY IDENTIFIER CODE 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 Service Provider Name.	AN	1/35
		NM104	1036	NAME FIRST Not Applicable.	AN	1/25
		NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
		NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
		NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
NM108	66	IDENTIFICATION CODE QUALIFIER 41 Telecommunications Carrier Identification Code. 42 Telecommunications Pseudo Carrier Identification Code. 91 Assigned by Seller or Seller's Agent.	ID	1/2		
NM109	67	IDENTIFICATION CODE Carrier Code. AT&T codes: 00IL AT&T Illinois 00IN AT&T Indiana 00MI AT&T Michigan 00OH AT&T Ohio 00WI AT&T Wisconsin	AN	2/80		
NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2		
NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3		

4.9.3 X12 Segment Layout / Service Provider Section With Billing Arrangement, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
PER	PER01	366	CONTACT FUNCTION CODE BI Bill Inquiry Contact. OD Order Department. MA Maintenance Contact. IC Information Contact.	ID	2/2
	PER02	93	NAME In-State Call. Out-of-State Call. 900 Billing.	AN	1/60
	PER03	365	COMMUNICATION NUMBER QUALIFIER TE Telephone. UR Uniform Resource Locator (URL).	ID	2/2
	PER04	364	COMMUNICATION NUMBER Bill Inquiry Telephone Number (In-State, Out-of-State, 900 Service). Service Order Telephone Number. Maintenance Contact Telephone Number. Internet address.	AN	1/80
	PER05	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER06	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER07	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER08	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER09	443	CONTACT INQUIRY REFERENCE Not Applicable.	AN	1/20

## 4.10 Billing Arrangement

### 4.10.1 811 Hierarchy Structure / Billing Arrangement





## 4.10.2 Bill Section Technical Specifications / Billing Arrangement

### Segment Sequence and Usage

L2	LX	Occurs once as a reference to a line number in a transaction set. Contains a sequence number for the loop structure.
	SI	Occurs once per billing arrangement level. Contains the account number.
	AMT	Occurs once per billing arrangement level. Contains the total service charge for the account number.
	TXI	Occurs once for each applicable tax. Contains tax amount, tax type, and percent.
	ITA	Occurs once for each surcharge, allowance or special fee. Contains surcharge/allowance/special fee amount and code identifier.

### EDI Summary Bill

The Billing Arrangement structure is identical in the EDI Summary and Detail Bills.

### Comments and Exceptions

- The TXI and ITA amounts are used in summing the Detail Area to the TDS segment amount.

4.10.3 X12 Segment Layout / Billing Arrangement

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 2	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 2 Billing Arrangement.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential number assigned to the LX loop.	NO	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER EN Earning Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Account number that incurs charges.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	AMT	AMT01	522	AMOUNT QUALIFIER CODE SC Total Service Charge.	ID	1/3
		AMT02	782	MONETARY AMOUNT Total Service Charge for the Billing Arrangement.	R	1/18
		AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1
	TXI	TXI01	963	TAX TYPE CODE AA Stadium Tax. FT Federal Excise Tax. ST State Sales Tax. LO Local Tax (Not Sales Tax). CA City Tax. CT County Tax. TT Telecommunications Tax. LS State and Local Sales Tax MP Municipal Tax GR Gross Receipts	ID	2/2
		TXI02	782	MONETARY AMOUNT Tax Amount.	R	1/18

4.10.3 X12 Segment Layout / Billing Arrangement, Continued

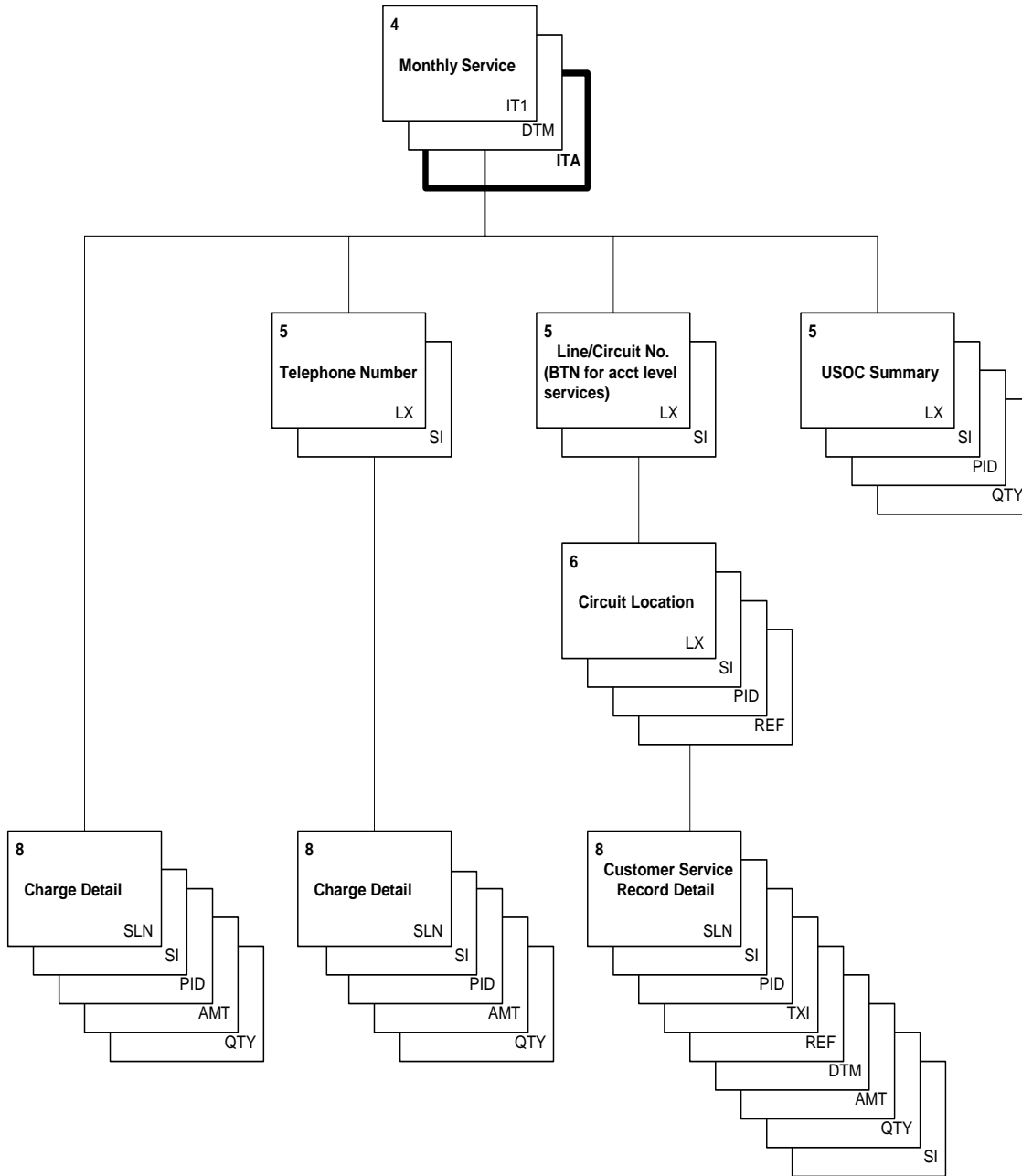
Segment	Seg ID	D/E	Description	Type	Min/Max
	TXI03	954	PERCENT Percent.	R	1/10
	TXI04	955	TAX JURISDICTION CODE QUALIFIER Not Applicable.	ID	2/2
	TXI05	956	TAX JURISDICTION CODE Not Applicable.	AN	1/10
	TXI06	441	TAX EXEMPT CODE Not Applicable.	ID	1/1
	TXI07	662	RELATIONSHIP CODE A Add.	ID	1/1
	TXI08	828	DOLLAR BASIS FOR PERCENT Not Applicable.	R	1/9
	TXI09	325	TAX IDENTIFICATION NUMBER Not Applicable.	AN	1/20
	TXI10	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
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
	ITA03	560	SPECIAL SERVICES CODE FD Federal. ST State. CY County. LO Local. CA City. MP Municipal. SL State and Local. FS Federal and State CMPLX Complex Line Port	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE 04 Credit Customer Account. 06 Charge to be paid by Customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Monetary Amount.	N2	1/15

4.10.3 X12 Segment Layout / Billing Arrangement, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE ACF Access Charge - Federal. ACS Access Charge - State. CCR Concession Credit. DDF Digital Divide Fund DDS Deaf & Disabled Surcharge. EAC Exchange Access Credit. EQA Equal Access Surcharge. ESC Emergency Service. FFA Franchise Fee. FUS Federal Universal Service Surcharge. GRS Gross Receipts Surcharge. IMC Infrastructure Maintenance Credit. LNP Long-term Number Portability Surcharge. MMF Municipal Maintenance Charge. MUS Municipal Surcharge. NPF No PIC Federal Charge. NPI No PIC Intra. NPS No PIC State Charge. REE Regulatory Fee SAF Special Credit. SMF State Maintenance Charge. STC State Surcharge. SUR Surcharge. SUS State Universal Service Surcharge. TXS Tax Surcharge.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.11 Monthly Service / Customer Service Record

4.11.1 811 Hierarchy Structure / Monthly Service – Customer Service Record



#### 4.11.2 Bill Section Technical Specifications / Monthly Service – Customer Service Record

##### Segment Sequence and Usage

L4	ITI	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0200), billed amount, and service type.
	DTM	Occurs twice per ITI. Contains the service period start date in the first occurrence. Contains the service period end date in the second occurrence.
	ITA	Occurs up to 2 times per ITI Contains Miscellaneous Charge

The following segments occur with Monthly Service itemization:

L5	LX/SI	Occurs once for each telephone number, if applicable. Contains telephone number.
L8	SLN	Occurs once per line item. Contains line item total.
	SI	Occurs once per SLN. Contains USOC or Service Category and Feature information, if applicable.
	PID	Occurs one or more times per SLN. Contains a descriptive phrase.
	AMT	Occurs once per SLN. Contains line-item unit price, if available.
	QTY	Occurs once per SLN. Contains quantity of service or feature, if available.

The following segments occur with Customer Service Record detail:

L5	LX/SI	Occurs once per Service Category Code. Contains USOC.
	PID	Occurs once per SI. Contains Service Category Code and description.
	QTY	Occurs once per SI. Contains USOC quantity.
L5	LX/SI	Occurs once for account-level information and once for each line or circuit. Contains billing telephone number, telephone number, or circuit number and the location billing group and/or department number.
L6	LX/SI	Occurs once per circuit location. Contains circuit location ID, location billing group and/or Department Number.
	PID	Occurs once per circuit location. Contains location description.
L6	LX/SI	Occurs one or more times per billing telephone number. Contains location billing group and/or department number.
	REF	Occurs once per SI segment. Contains contract number.

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**4.11.2 Bill Section Technical Specifications / Monthly Service – Customer Service Record, Continued**

L8	SLN	Occurs once per USOC, Pseudo USOC (left-handed FID), or Special Pricing Summary. Contains line item total.
	SI	Occurs once per SLN. Contains USOC, Pseudo-USOC, Special Pricing code, billing structure code, service sub-category code, USOC billing group and/or contract category code.
	PID	Occurs multiple times per SLN, once per floating FID and USOC billing group. Contains FID code or USOC billing group code and associated information.
	TXI	Occurs up to six times per SLN, once per exempt tax type. Contains tax type code and tax-exemption status of service or feature.
	REF	Occurs once per SLN. Contains payment plan reference number.
	DTM	Occurs once per SLN. Contains effective date of change.
	AMT	Occurs once per SLN. Contains line-item unit price, if available.

One or more of the following QTY loops may be presented:

QTY	Occurs once per SLN (not used for Pseudo-USOC). Contains quantity of service or feature, if available.
QTY	Occurs two times per SLN. Contains minimum and maximum USOC billing group codes associated with one common description.
SI	Occurs once per QTY. Identifies the association of USOC billing group to the QTY values.
QTY	Occurs two times per SLN. Contains minimum and maximum quantity associated with special pricing.
SI	Occurs once per QTY. Contains the special pricing code.
QTY	Occurs one or more times per SLN. Contains quantity type and quantity.
SI	Occurs once per QTY. Contains the billing structure code.

**4.11.2 Bill Section Technical Specifications / Monthly Service – Customer Service Record, Continued**

**EDI Summary Bill**

The EDI Summary Bill presents the IT1/DTM/ITA segments only.  
The EDI Summary Bill with CSR presents the Customer Service Record detail.

**Comments and Exceptions**

- In most cases, the Monthly Service charges are billed in advance.
- DTM segments are not presented when the service period dates are the same as the Heading invoice dates.
- Within the Monthly Service itemization, Level 8 may be a child of Level 4 or Level 5.

**Customer Service Record Detail**

- The Level 8 TXI is only generated for those taxes from which the service is exempt.
- The floating FID text contains only 80 characters.

**Summing Rules**

- The Monthly Service itemization and Customer Service Record detail are informational only.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.



4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0200 Monthly Service.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 1 Recurring Charge.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER	ID	3/3
			150 Service Period Start.		
			151 Service Period End.		
	DTM02	373	DATE	DT	8/8
			Start date. End date.		
	DTM03	337	TIME Not Applicable.	TM	4/8
DTM04	623	TIME CODE Not Applicable.	ID	2/2	
DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3	
DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35	
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR C Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE 06 Charge to be paid by customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION MO EQUIP RENTAL FEE. EQUIP INSTALLATION FEE	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE MSG    Miscellaneous Charge.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A        Add	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4 or HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Service/Feature Charge Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		SLN09	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		SLN10	234	PRODUCT/SERVICE ID 2110 Contracts and Discounts.	AN	1/48
		SLN11-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Service Identifier or USOC.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER FD Feature Data.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID PKG Package. CMP Component.	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-form.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE Not Applicable.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE Not Applicable.	AN	1/12
	PID05	352	DESCRIPTION Descriptive Phrase.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
AMT	AMT01	522	AMOUNT QUALIFIER CODE LI Line Item Unit Price.	ID	1/3
	AMT02	782	MONETARY VALUE Service/Feature Unit Price.	R	1/18
	AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID USOC.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



Segment	Seg ID	D/E	Description	Type	Min/Max
PID	PID01	349	ITEM DESCRIPTION TYPE X Semi-structured.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE AS Assigned by Seller.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE USOC.	AN	1/12
	PID05	352	DESCRIPTION USOC Description.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3
QTY	QTY01	673	QUANTITY QUALIFIER 02 Cumulative Quantity.	ID	2/2
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001	COMPOSITE UNIT OF MEASURE Not Applicable.	N/A	N/A
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential Number assigned to the LX loop.	NO	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number. CN Circuit Number. BN Billing Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number. Circuit Number. Billing Telephone Number.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER BG Location Billing Group.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Billing Group.	AN	1/48
		SI06	1000	SERVICE CHARACTERISTICS QUALIFIER DI Department ID/Customer ID code.	AN	2/2
		SI07	234	PRODUCT/SERVICE ID Department Number.	AN	1/48
		SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 6	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 6 Sub-Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER CI Circuit Drop Location Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Circuit Location ID.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER BG Location Billing Group.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Billing Group.	AN	1/48
		SI06	1000	SERVICE CHARACTERISTICS QUALIFIER DI Department ID/Customer ID code.	AN	2/2
		SI07	234	PRODUCT/SERVICE ID Department Number.	AN	1/48
		SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max	
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-Form. X Semi-structured.	ID	1/1	
		PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
		PID03	559	AGENCY QUALIFIER CODE AS Assigned by Seller.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE CI Circuit drop location.	AN	1/12	
	PID05	352	DESCRIPTION FID information. Location Information.	AN	1/80	
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2	
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15	
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1	
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3	
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER CT Contract Number.	ID	2/3	
	REF02	127	REFERENCE IDENTIFICATION Contract Number.	AN	1/30	
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80	
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A	

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 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 segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION CE Common Equipment. LH Left-handed FID.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Quantity of Service/Feature. For Monetary Value, Always 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE EA Each. M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Service/Feature Unit Price (may include applicable discounts). Service/Feature Charge Amt (may include applicable discounts).	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID USOC or Pseudo-USOC (Left-handed FID).	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SS Service Sub-category Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Class of Service USOC.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER VR Variable Rate Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID CND Contract. SLI Sliding Scale. SLM Sliding Scale Master Agency. PSR Per Station Rate. SPB Special Payment Plan. TCE Trunk Channel Equivalency. TCM Trunk Channel Equivalency Master Agency.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER BS Billing Structure Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID ALL Not summarized at Location Billing Group level. 1 Flat rate pricing (USOC level). 2 Sliding scale. 6 Trunk Equivalency. 7 Channel Equivalency. 8 Per station rate. B Contract rating. N Special payment plan. V Volume rating.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER UG USOC Billing Group.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Billing Group code.	AN	1/48

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER CG Contract Category Code.	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Contract category code.	AN	1/48
	SI14	1000	SERVICE CHARACTERISTICS QUALIFIER and PA Primary/Originating Message Carrier ID. Not Applicable.	AN	2/2
	SI15	234	PRODUCT/SERVICE ID Entity code	AN	1/48
	SI16-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT /SERVICE ID Not Applicable.		
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-form. X Semi-structured.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE AS Assigned by Seller.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE USOC Billing Group Code.	AN	1/12
	PID05	352	DESCRIPTION FID Information. Code Description.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
TXI	TXI01	963	TAX TYPE CODE	ID	2/2
			FT Federal Excise Tax.		
			ST State Sales Tax.		
			CT County Tax.		
			MP Municipal Tax.		
			TT Telecommunications Tax (means Local type 1).		
	CA City Tax (means Local type 2).				
	TXI02	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TXI03	954	PERCENT Not Applicable.	R	1/10
	TXI04	955	TAX JURISDICTION CODE QUALIFIER Not Applicable.	ID	2/2
TXI05	956	TAX JURISDICTION CODE Not Applicable.	AN	1/10	
TXI06	441	TAX EXEMPT CODE 1 Yes (Tax Exempt).	ID	1/1	
TXI07	662	RELATIONSHIP CODE Not Applicable.	ID	1/1	
TXI08	828	DOLLAR BASIS FOR PERCENT Not Applicable.	R	1/9	
TXI09	325	TAX IDENTIFICATION NUMBER Not Applicable.	AN	1/20	
TXI10	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20	
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER 4N Special Payment Reference Number.	ID	2/3
	REF02	127	REFERENCE IDENTIFICATION Payment Plan Code.	AN	1/30
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A



4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

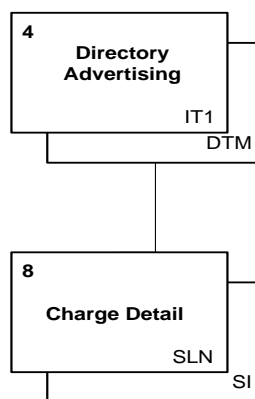
Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER 152 Effective date of change.	ID	3/3
	DTM02	373	DATE Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
AMT	AMT01	522	AMOUNT QUALIFIER CODE LI Line Item Unit Price.	ID	1/3
	AMT02	782	MONETARY VALUE Service/Feature Unit Price.	R	1/18
	AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1

4.11.3 X12 Segment Layout / Monthly Service – Customer Service Record, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
			8H Minimum.		
			M2 Maximum.		
			02 Cumulative Quantity.		
			27 Committed Quantity.		
			94 Billable Quantity.		
			96 Non-billable Quantity.		
99 Quantity Used.					
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER UG USOC Billing Group.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Range.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER VR Variable Rate Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID CND Contract. SLI Sliding Scale. SLM Sliding Scale Master Agency. PSR Per Station Rate. SPB Special Payment Plan. TCE Trunk Channel Equivalency. TCM Trunk Channel Equivalency Master Agency.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER BS Billing Structure Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID 1 Flat rate pricing (USOC level). 2 Sliding scale. 6 Trunk Equivalency. 7 Channel Equivalency. 8 Per station rate. B Contract rating. N Special payment plan. V Volume rating.	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

## 4.12 Directory Advertising

### 4.12.1 811 Hierarchy Structure / Directory Advertising



#### 4.12.2 Bill Section Technical Specifications / Directory Advertising

##### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0600) , billed amount, and service type.
	DTM	Occurs twice per IT1. Contains the service period start date in the first occurrence. Contains the service period end date in the second occurrence.
L8	SLN	Occurs once per directory name line item. Contains the line item billed amount.
	SI	Occurs once per SLN. Contains the directory book name and type.

##### EDI Summary Bill

The EDI Summary Bill uses the IT1/DTM segments only.

##### Comments and Exceptions

- In most cases, Directory Advertising charges are billed in advance.
- DTM segments are not presented when the service period dates are the same as the Heading invoice dates.

##### Summing Rules

- IT104 equals the sum of all Directory Advertising charges from Level 8 SLN segments.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

4.12.3 X12 Segment Layout / Directory Advertising

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		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. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 1 Recurring Charge.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.12.3 X12 Segment Layout / Directory Advertising, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER	ID	3/3
			150 Service Period Start.		
			151 Service Period End.		
	DTM02	373	DATE Start date. End date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

4.12.3 X12 Segment Layout / Directory Advertising, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

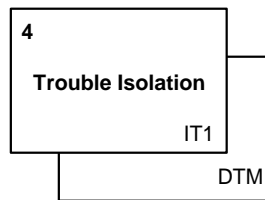
4.12.3 X12 Segment Layout / Directory Advertising, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER DN Directory Book Name.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Directory Book Name.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER DX Directory Book Type.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 01 Yellow Pages. 02 White Pages.	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



### 4.13 Trouble Isolation Plan / Maintenance

#### 4.13.1 811 Hierarchy Structure / Trouble Isolation Plan – Maintenance



### 4.13.2 Bill Section Technical Specifications / Trouble Isolation Plan - Maintenance

#### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0115), billed amount, and service type.
	DTM	Occurs twice per IT1. Contains the service period start date in the first occurrence. Contains the service period end date in the second occurrence.

#### EDI Summary Bill

The Trouble Isolation Plan/Maintenance structure is identical in the EDI Summary and Detail Bills.

#### Comments and Exceptions

- In most cases, service charges are billed in advance.
- DTM segments is not presented when the service period dates are the same as the Heading invoice dates.

#### Summing Rules

- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

4.13.3 X12 Segment Layout / Trouble Isolation Plan - Maintenance

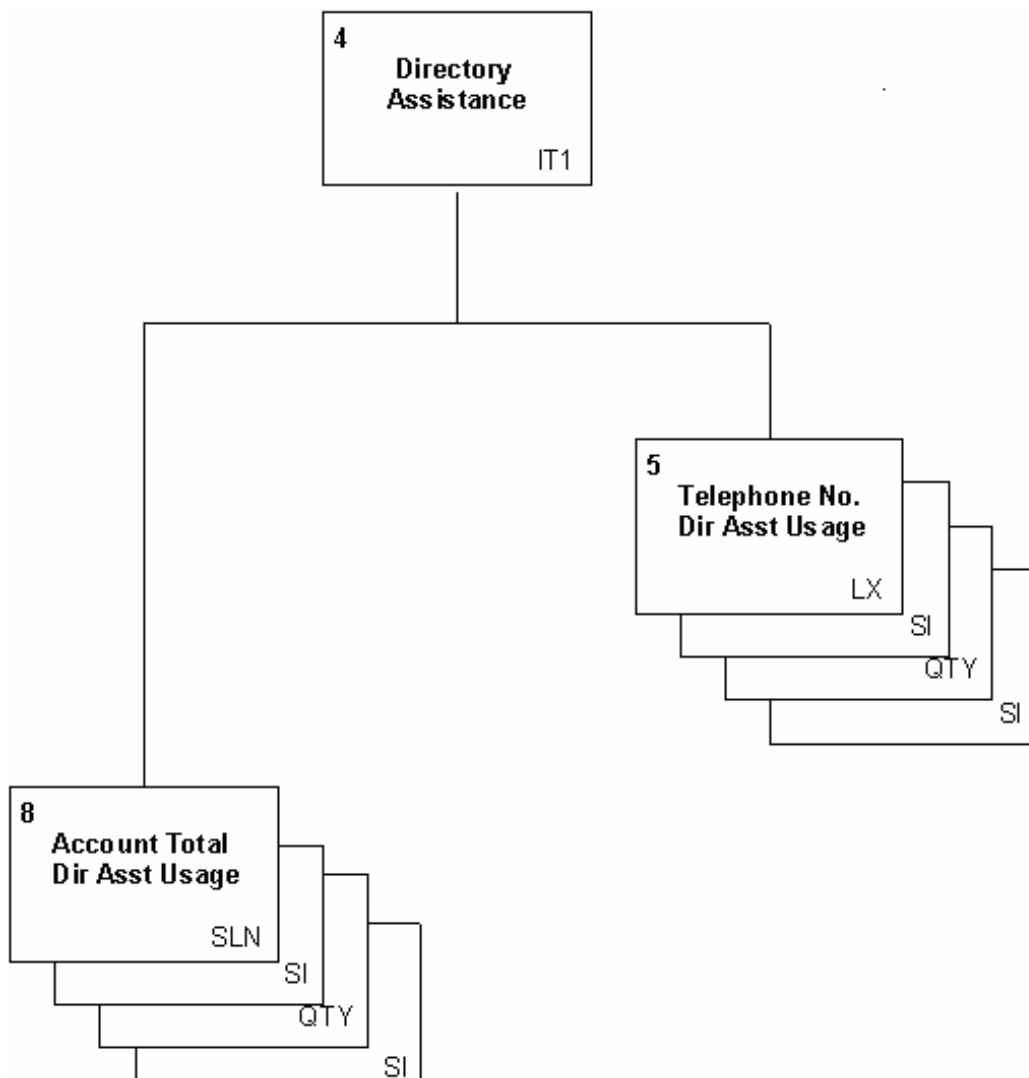
	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0115 Trouble Isolation Plan/Maintenance.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 1 Recurring Charge.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.13.3 X12 Segment Layout / Trouble Isolation Plan – Maintenance, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER 150 Service Period Start. 151 Service Period End.	ID	3/3
	DTM02	373	DATE Start Date. End Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

#### 4.14 Directory Assistance

##### 4.14.1 811 Hierarchy Structure / Directory Assistance



#### 4.14.2 Bill Section Technical Specifications / Directory Assistance

##### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0900), billed amount, and service type.
L5	LX/SI	Occurs once per line number. Contains the line number.
	QTY	Occurs once per Directory Assistance Category Code. Contains the number of billable calls or quantity used.
	SI	Occurs once per QTY. Contains the Directory Assistance Category Code.
L8	SLN	Occurs once per Directory Assistance Category Code and rate. Contains the billable number of calls and the rate per call.
	SI	Occurs once per SLN. Contains the Directory Assistance Category Code.
	QTY	Occurs one or more times per Directory Assistance Category Code. Contains the number of allotted calls, if applicable, and/or the quantity used.
	SI	Occurs once per QTY. Contains Per Line Call Allowance, if applicable.

##### EDI Summary Bill

The EDI Summary Bill presents the IT1 segment only.

##### Comments and Exceptions

- SI02 at Level 5 are populated with DI when the Department Number Account Arrangement is used. See Section 4.26.
- The total number of Directory Assistance calls may be calculated by adding the billable quantity and allotted quantity.

##### Summing Rules

- IT104 equals the sum of all DA charges from Level 8 SLN segments.
- The Level 8 Directory Assistance charges are calculated by multiplying SLN04 (Billed Quantity) times SLN06 (Directory Assistance Rate).
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

4.14.3 X12 Segment Layout / Directory Assistance

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		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. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.14.3 X12 Segment Layout / Directory Assistance, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number.	AN	1/48
		SI04-21	1000	SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable	AN	2/2
	QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used. 94 Billable Quantity.	ID	2/2
		QTY02	380	QUANTITY Number of DA Calls made. Number of Billable DA Calls/Listings .	R	1/15
		QTY03	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls	ID	2/2
		QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30



4.14.3 X12 Segment Layout / Directory Assistance, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER and CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		

4.14.3 X12 Segment Layout / Directory Assistance, Continued

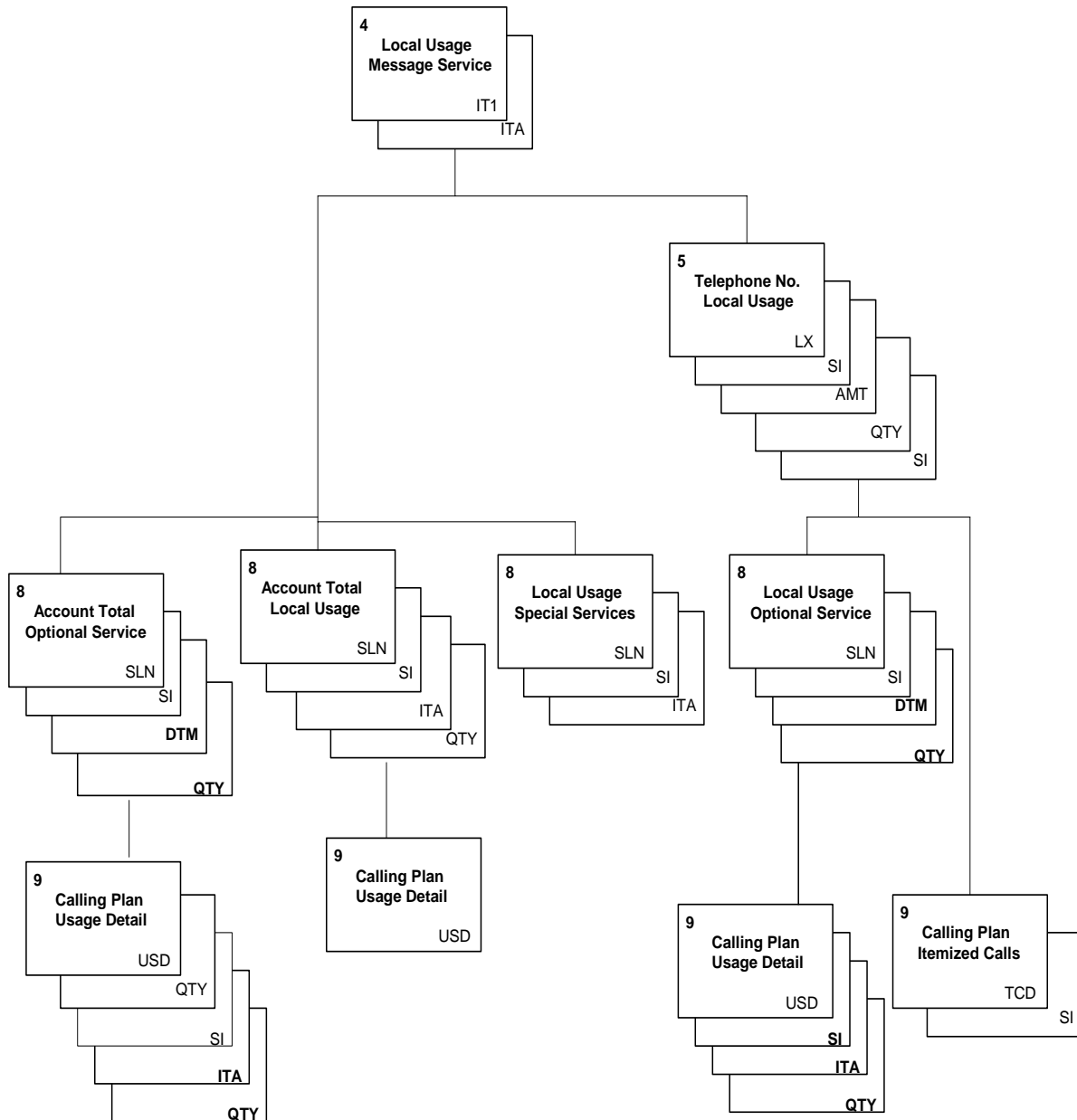
	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Number of Billable DA Calls.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls EA Each	ID	2/2
		SLN06	212	UNIT PRICE Directory Assistance Rate.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.14.3 X12 Segment Layout / Directory Assistance, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 92 Allotted Usage Quantity. 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Number of DA Calls allotted. Number of DA Calls placed.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.15 Local Usage – Message Service

4.15.1 811 Hierarchy Structure / Local Usage – Message Service



4.15.2 Bill Section Technical Specifications / Local Usage – Message Service

Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0700), billed amount, and service type.
	ITA	Occurs once per discount amount. Contains discount amount, percent, and code.
L5	LX/SI	Occurs once per telephone number. Contains telephone number.
	AMT	Occurs once per LX/SI, if available. Contains telephone number subtotal before discounts are applied.
	QTY	Occurs one or more times for each telephone number, if applicable. Contains the number of messages, calls, and/or minutes by telephone number.
	SI	Occurs once per QTY segment. Contains usage plan code and directory assistance code or type of special service, if applicable.
	LX	Occurs Once as a reference to a line number in a transaction set. Contains a sequence number for a loop structure
	QTY	Occurs one or more times for each telephone line in summary plan Contains the number of calls
	SI	Occurs once per QTY segment Contains usage plan code, service type and To number if applicable
L8	SLN	Occurs once per line item charge, segment is dependent of station number. Contains the billed amount or number of billable messages/minutes/calls and the rate per message/minute/call.
	SI	Occurs once per SLN.
	DTM	Occurs up to once per SLN Contains Rate Case date, if applicable Contains call type or Service Category Code.
	QTY	Occurs one or more times per SLN, if applicable. Contains the number of messages or calls.
L9	USD	Occurs once per usage plan. Contains Additional usage quantity and rate.
	SI	Occurs up to once per USD Contains usage status code, if applicable
	ITA	Occurs up to once per USD Contains discount percent, if applicable
	QTY	Occurs up to once per USD Contains allowance, if applicable
L9	TCD	Occurs once per itemized call. Contains several data elements, see TCD layout.
	SI	Occurs once per TCD. Contains several data elements, see SI layout.

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4.15.2 Bill Section Technical Specifications / Local Usage – Message Service

L8	SLN	Occurs one or more times per special service line item, segment is independent of station numbers. Contains the number of charges and rate.
	SI	Occurs once per SLN. Contains the type of special service.
	ITA	Occurs once per credit amount. Contains credit amount.
L8	SLN	Occurs once per usage plan in a billing arrangement. Contains the number of calls/minutes and rate, informational only.
	SI	Occurs once per SLN. Contains the usage plan code, if available.
L8	SLN	Occurs one or more times per usage plan, segment is independent of station numbers. Contains the number of calls/minutes/fax pages and the rate per call/minute/fax page
	SI	Occurs once per SLN. Contains rate period, usage plan code, and Directory Assistance Category, if available.
	ITA	Occurs once per SLN. Contains discount information, if applicable.
	QTY	Occurs one or more times per SLN if there is an allotment for usage or usage quantity. Contains the number of minutes/calls allotted/used.
L9	USD	Occurs multiple times per usage plan. Contains the discount amount/information per dollar range.
L9	USD	Occurs once per usage plan. Contains total call quantity and maximum number of billable calls.
L8	SLN	Occurs once per usage plan, segment is independent of station numbers. Contains the plan billed amount.
	SI	Occurs one or more times per SLN.
	DTM	Occurs up to once per SLN Contains Rate Case date, if applicable Contains the Service Category Code, Service Type and Dialed Telephone Number if applicable.
	QTY	Occurs one or more times per SLN. Contains committed quantity or usage quantity.
L9	USD	Occurs one or more times per usage plan. Contains the rate, usage type and quantity.
	.SI	Occurs once per QTY Contains Routed to Telephone Number
	ITA	Occurs once per USD Contains discount information, if applicable
	QTY	Occurs once per USD. Contains committed usage quantity

### **EDI Summary Bill**

The EDI Summary Bill presents the IT1 segment only.

### **Comments and Exceptions**

- SI02 at Level 5 is populated with DI when Department Number Account Arrangement is used. See Section 4.26.
- Level 6 may be included to accommodate Department Number logic. See Section 4.26.
- Message and Measured Service appears under one Level 4 if both are available.
- Call trace appears in this section at Level 8 (SLN), if available.
- QTY02 at Level 8 is not a subset of the parent Level 5 QTY02.
- TCD segments is not a subset of the parent Level 5 QTY02.
- In a billing arrangement, the account telephone number may have an HL4 IT1 value of zero.
- The SI segment DE1000/234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted in the X12 Segment Layout.

### **Summing Rules**

- The IT104 amount equals the sum of the calculated SLN amounts plus the USD amounts, the TCD amounts, and the ITA discount amount.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.15.3 X12 Segment Layout / Local Usage – Message Service

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0700 Local Usage.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR A Allowance. N No Allowance or Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Level 5	Segment	Seg ID	D/E	Description	Type	Min/Max
	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number. DI Department Code / Customer ID Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number. Department Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	AMT	AMT01	522	AMOUNT QUALIFIER CODE 1 Line Item Total.	ID	1/3
		AMT02	782	MONETARY VALUE Subtotal Amount for Telephone Number.	R	1/18
		AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1
	QTY	QTY01	673	QUANTITY QUALIFIER 92 Allotted Usage. 99 Quantity Used.	ID	2/2
		QTY02	380	QUANTITY Number of Messages/Calls/Minutes.	R	1/15
		QTY03	C001 355	COMPOSITE UNIT OF MEASURE AN Messages or Minutes. C0 Calls. MJ Minutes.	ID	2/2
		QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code. SD Settlement Code. ST Message Service Type	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Usage Plan Code. ACB Automatic Call Back LO Local NND Name & Number Delivery Service RPD Repeat Dialing 3WC 3-Way Calling TA Trace Activation	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code. ST Message Service Type	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values. AH Attendant Handled/Operator Handled. CA On Demand Call Feature Activation. 211 Information Referral 511 Transportation Information	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER CL Class of Service Code TM To Number	AN	2/2
	SI07	234	PRODUCT/SERVICE ID E ESSX/CENTREX Telephone Number	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER and CH Charge/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI10-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MSG Message.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Quantity of 1. Number of Billable Messages/Minutes/Calls.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value. MJ Minutes. C0 Calls. AN Messages or Minutes.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount. Price per Minute/Call.	R	1/17
SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2		
SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1		
SLN09-28			PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.			

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER DC Direction Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID O Originating. T Terminating.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Usage Plan Code. 311 Service.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER and CH Charge/Usage Status Code	AN	2/2
	SI07	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/3
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable	TM	4/8
	DTM04	623	TIME CODE Not Applicable	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable	AN	1/35

4.15.4 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
		92	Allotted Usage.		
		94	Billable Quantity.		
		99	Quantity Used.		
	QTY02	380	QUANTITY Number of Messages/Calls.	R	1/15
QTY03	C001	355	COMPOSITE UNIT OF MEASURE	ID	2/2
		AN	Messages or Minutes.		
		C0	Calls.		
QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30	

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Rate per usage type.	R	1/9
		USD04	954	PERCENT Not Applicable	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
		USD06	380	QUANTITY Number of calls/minutes	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable	R	1/20

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X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFER CH Charge/Usage Status Code	AN	2/2
	SI03	234	PRODUCT/SERVICE ID 09 Variable rate	AN	1/48
	SI104-SI121		SERVICE CHARACTERISTICS QUALIFER and PRODUCT/SERVICE Not Applicable		



4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	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 Not Applicable	ID	2/10
		ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
		ITA05	341	ALLOWANCE OR CHARGE Not Applicable	AN	1/16
		ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable	N2	1/15
		ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFER Not Applicable	ID	1/1
		ITA09	332	PERCENT Discount Percent	R	1/6
		ITA10	380	QUANTITY Not Applicable	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
		ITA12	380	QUANTIY Not Applicable	R	1/15
		ITA13	352	DESCRIPTION Not Applicable	AN	1/80
		ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
		ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
		ITA16	662	RELATIONSHIP CODE O Information Only	ID	1/1
		ITA17	355	UNIT BASIS FOR MEASUREMENT CODE	ID	2/2

**4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued**

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
			92	Allotted Usage Quantity		
		QTY02	380	QUANTITY	R	1/15
				Number of Calls/minutes		
		QTY03	C001	COMPOSITE UNIT OF MEASURE	ID	2/2
			355	C0 Calls		
				MJ Minutes		
		QTY04	61	FREE-FORM MESSAGE	AN	1/30
				Not Applicable		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	TCD	TCD01	350	ASSIGNED IDENTIFICATION Line Item Reference Number.	AN	1/20
		TCD02	373	DATE Date of Call.	DT	8/8
		TCD03	337	TIME Time of Call.	TM	4/8
		TCD04	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD05	310	LOCATION IDENTIFIER To City.	AN	1/30
		TCD06	156	STATE OF PROVINCE CODE To State.	ID	2/2
		TCD07	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD08	310	LOCATION IDENTIFIER From City.	AN	1/30
		TCD09	156	STATE OR PROVINCE CODE From State.	ID	2/2
		TCD10	739	MEASUREMENT VALUE Minutes.	R	1/20
		TCD11	739	MEASUREMENT VALUE Seconds.	R	1/20
TCD12	782	MONETARY VALUE Amount.	R	1/18		
TCD13	782	MONETARY AMOUNT Not Applicable.	R	1/18		
TCD14	782	MONETARY AMOUNT Not Applicable.	R	1/18		
TCD15	782	MONETARY AMOUNT Not Applicable.	R	1/18		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	TCD16	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER FN From/Originating Station Telephone Number.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID From Number.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER TM To/Terminating Station Telephone Number.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID To Number.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Rate Period. See Appendix B for values.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID Message Type. See Appendix B for values.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Usage Plan Code.	AN	1/48
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER ST Message Service Type.	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Message Service Type. See Appendix B for values.	AN	1/48
	SI14	1000	SERVICE CHARACTERISTICS QUALIFIER MI Special Message Information Code	AN	2/2
	SI15		PRODUCT/SERVICE ID 02 Indicates a Tool Message Spanned Multiple Rate Periods	AN	1/48
	SI16-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MSG Message.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Number of Special Service charges.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE EA Each.	ID	2/2
		SLN06	212	UNIT PRICE Assistance Charge/Activation Fee.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1		
SLN09	235	PRODUCT/SERVICE ID QUALIFER SV Service Rendered	ID	2/2		
SLN10	234	PRODUCT/SERVICE ID 1790 Call Trace	ID	1/48		
	SLN11-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.			

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SD Settlement Code. SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID LO Local. 3WC 3-Way Calling. ACB Automatic Call Back. RPD Repeat Dialing. NND Name & Number Delivery Service.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER ST Message Service Type.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID AH Attendant Handled/Operator Handled. CA On Demand Call Feature Activation.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER and CH Charge/Usage Status Code	AN	2/2
	SI07	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR A Allowance. N No Allowance or Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Credit Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE 230 Credit.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add. O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MSG Message.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Number of Billable Messages/Calls/Minutes/Pages.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE AN Messages or Minutes. C0 Calls. MJ Minutes. QA Pages - Facsimile.	ID	2/2
		SLN06	212	UNIT PRICE Price per Message/Call/Minute/Page.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Rate Period. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Usage Plan Code.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVIE ID 08 Previous	AN	1/48
	SI110-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
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 Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
QTY	QTY01	673	QUANTITY QUALIFIER 92 Allotted Usage Quantity. 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Number of Messages/Calls/Minutes allotted/used.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE AN Messages or Minutes. C0 Calls. MJ Minutes.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE A Add. O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Discount Percentage.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD06	380	QUANTITY Not Applicable.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Amount of Discount.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		USD11	740	RANGE MINIMUM Lower Limit of Discount Range.	R	1/20
		USD12	741	RANGE MAXIMUM Upper Limit of Discount Range.	R	1/20

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls.	ID	2/2
		USD06	380	QUANTITY Total call quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Maximum number of billable calls.	R	1/20

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MSG Message.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Usage Plan Code. SNMC Single Number Market/Prime Number. PND Prime Number Database. ISDN ISDN Service.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER DT Service Type	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Abbreviated Toll Service Number.	AN	1/48
	SI106	1000	SERVICE CHARACTERISTICS QUALIFIER ST Service Type		2/2
	SI07	234	Product/Service ID 211 Information Referral 511 Transportation Information 311 311 Service	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charges/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI10-21		SERVICE CHARACTERISTICS QUALIFIER/SERVICE ID Not Applicable		
DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/3
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable	TM	4/8
	DTM04	623	TIME CODE Not Applicable	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable	AN	1/35

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
			27 Committed Quantity.		
			99 Quantity Used.		
			92 Allotted Usage Quantity		
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001	COMPOSITE UNIT OF MEASURE MJ Minutes. C0 Calls	N/A	N/A
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included. O Information Only	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Rate per usage type.	R	1/9
		USD04	954	PERCENT Not applicable.	R	1/10
		USD05	C001	COMPOSITE UNIT OF MEASURE		
		C00101	355	UNIT OR BASIS FOR MEASUREMENT CODE C0 Calls. DQ Data Records. MJ Minutes. S7 Storage Units.	ID	2/2
		C00102	1018	EXPONENT Not Applicable.	R	1/15
		C00103	649	MULTIPLIER Value to be used as a multiplier.	R	1/10
		C00104-115		Unit or Basis for Measurement Code and Exponent and Multiplier Not Applicable.		
		USD06	380	QUANTITY Usage Quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18



4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	USD09	610	AMOUNT Not Applicable.	N2	1/15
	USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
	USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
	USD12	741	RANGE MAXIMUM Not Applicable	R	1/20
QTY	QTY01	673	QUANTITY QUALIFIER 27 Committed Quantity 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
	QTY02	308	QUANTITY Quantity	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30
SI	SI01	559	AGENCY QUALIFER CODE TI Telecommunications Industry	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFER TM To Number	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Routed to Telephone Number	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFER CH Charge/Usage Status Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 08 Previous CH Charge /Usage Status Code	AN	1/48
	Si06	1000	SERVICE CHARTERISTICS QUALIFER CH Charge/Usage Status Code	AN	2/2
	SI07	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFER and PRODUCT/SERVICE ID Not Applicable		

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

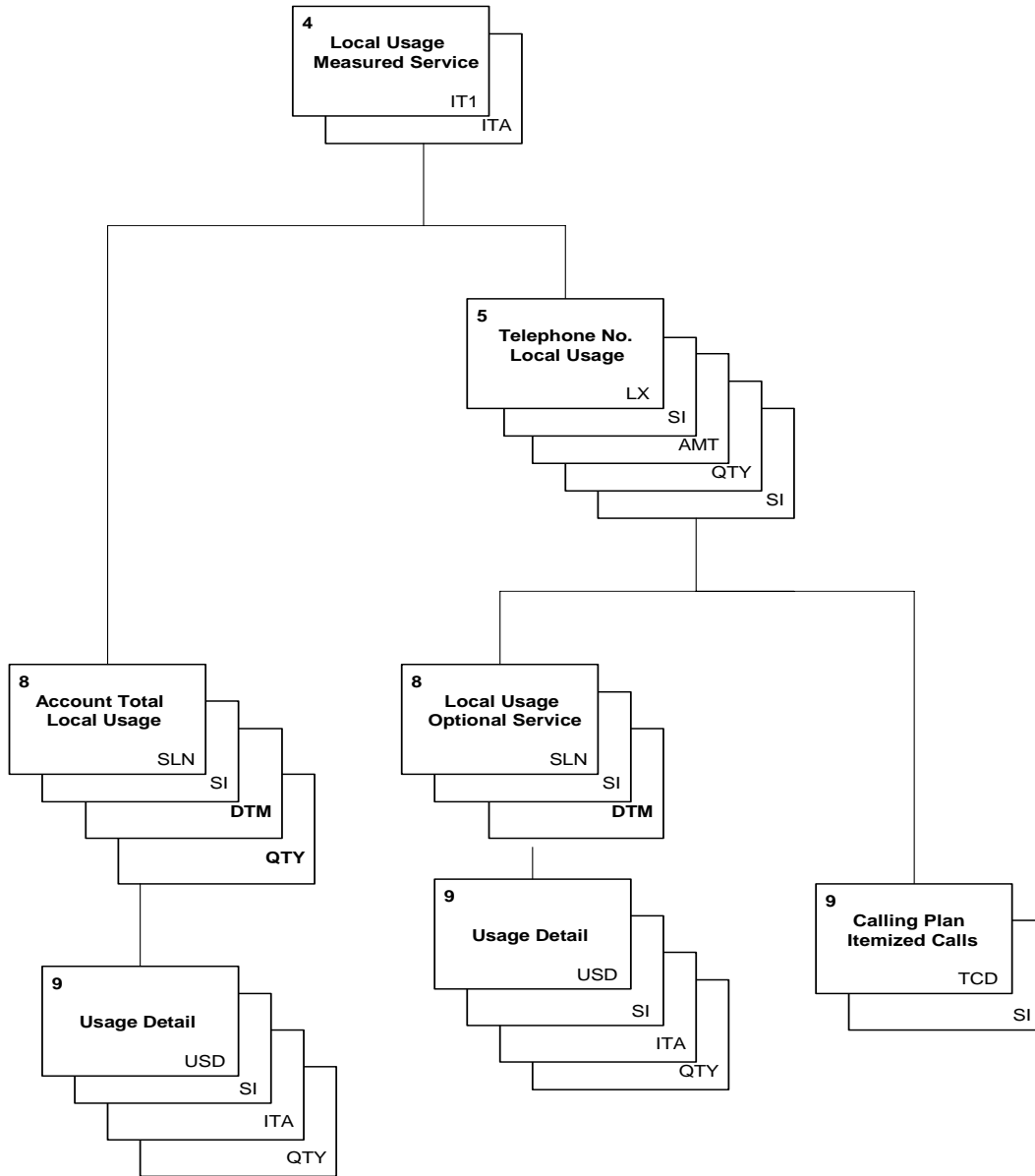
Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHANGE INDICATOR N No Allowance or Charge	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecom munitions Industry	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
	ITA09	332	PERCENT Discount Percent	R	1/6
	ITA10	380	QUANTITY Not Applicable	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE Not Applicable	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE Not Applicable	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE	ID	2/2

4.15.3 X12 Segment Layout / Local Usage – Message Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
		27	Committed Quantity		
		99	Quantity Used.		
		92	Allotted Usage Quantity		
	QTY02	380	QUANTITY Usage Quantity.	R	1/15
QTY03	C001		COMPOSITE UNIT OF MEASURE	ID	2/2
		355	MJ Minutes.		
		C0	Calls.		
QTY04	61		FREE-FORM MESSAGE Not Applicable.	AN	1/30

#### **4.16 Local Usage – Measured Service**

4.16.1 811 Hierarchy Structure / Local Usage – Measured Service



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4.16.2 Bill Section Technical Specifications / Local Usage – Measured Service

Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0700), billed amount, and service type.
	ITA	Occurs once per discount amount. Contains discount amount, percent, and code.
L5	LX/SI	Occurs once per telephone number. Contains telephone number.
	AMT	Occurs once per LX/SI loop, if available. Contains telephone number subtotal before discounts are applied.
	QTY	Occurs one or more times per LX/SI loop. Contains the number of calls/minutes by telephone number, if available.
	SI	Occurs once per QTY segment. Contains Band information, usage plan code, and directory assistance code, if applicable.
L8	SLN	Occurs once per line item charge, segment is dependent on telephone number. Contains the total amount for a Band.
	SI	Occurs once per SLN. Contains Band information, direction code and local usage plan code, if applicable.
	DTM	Occurs up to once per SLN Contains Rate Case date, if applicable
L9	USD	Occurs once per rate period. Contains the rate per minute and usage quantity.
	SI	Occurs once per USD. Contains the rate period code.
	ITA	Occurs once per discount related to this USD. Contains discount percentage and discount code.
	QTY	Occurs once per USD segment, if applicable. Contains the number of calls/minutes by telephone number.
L9	TCD	Occurs once per itemized call. Contains several data elements, see TCD layout.
	SI	Occurs once per TCD. Contains several data elements, see SI layout.
L8	SLN	Occurs once or more times per usage plan; segment is independent of station numbers. Contains the total amount for a Band, Plan, or billed line item.
	SI	Occurs once per SLN. Contains Band information, message service type, and local usage plan code, if applicable.
	DTM	Occurs up to once per SLN Contains Rate Case, if applicable
	QTY	Occurs up to two times per SLN Contains number of calls/minutes used
L9	USD	Occurs one or more times for call usage and one or more times for minute usage. Contains the rate and usage quantity.
	SI	Occurs once per USD. Contains the rate period code.
	ITA	Occurs once per discount related to this USD. Contains discount percentage and discount code.
	QTY	Occurs once per USD segment, if applicable. Contains the number of calls/minutes.

#### **4.16.2 Bill Section Technical Specifications / Local Usage – Measured Service, Continued**

##### **EDI Summary Bill**

The EDI Summary Bill presents the IT1 segment only.

##### **Comments and Exceptions**

- SI02 at Level 5 is populated with DI when the Department Number Account Arrangement is used. See Section 4.26.
- Level 6 may be included to accommodate Department Number logic. See Section 4.26.
- Message and Measured Service appear under one Level 4 if both are available.
- QTY02 at Level 9 is not a subset of the Level 5 QTY02.
- In a billing arrangement, the account telephone number may have an HL4 IT1 value of zero.
- The SI segment DE1000/234 paired information is presented when the associated data is available. The paired information may not be the same positional placement as noted in the X12 Segment Layout.

##### **Summing Rules**

- The IT104 amount equals the sum of the calculated SLN amounts plus the TCD amounts and the ITA discount amount.
- The SLN contains the total amount for a Band, usage plan, or billed line item.
- The USD contains the number of calls/minutes within a Band by billed rate or rate period (if applicable).
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.16.3 X12 Segment Layout / Local Usage – Measured Service

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0700 Local Usage.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR A Allowance. N No Allowance or Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number. DI Department Code/Customer ID Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number. Department Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	AMT	AMT01	522	AMOUNT QUALIFIER CODE 1 Line Item Total.	ID	1/3
		AMT02	782	MONETARY VALUE Subtotal Amount for Telephone Number.	R	1/18
		AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER	ID	2/2
		92	Allotted Usage.		
		99	Quantity Used.		
	QTY02	380	QUANTITY Number of Calls/Minutes.	R	1/15
QTY03	C001 355	COMPOSITE UNIT OF MEASURE		ID	2/2
		C0	Calls.		
		MJ	Minutes.		
QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30	
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Usage Plan Code. SPNP	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER BA Band.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Band.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI10-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5 or HL Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MEA Measured.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER BA Band.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Band.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Usage Plan Code.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER DC Direction Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID O Originating.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI10-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/36
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Rate.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes. C0 Calls	ID	2/2
		USD06	380	QUANTITY Usage Quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Rate Period Code. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER DH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
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 Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used. 92 Allotted Usage Quantity	ID	2/2
	QTY02	380	QUANTITY Number of Calls. Number of Calls/Minutes	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30



4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5 or Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	TCD	TCD01	350	ASSIGNED IDENTIFICATION Line Item Reference Number.	AN	1/20
		TCD02	373	DATE Date of Call.	DT	8/8
		TCD03	337	TIME Time of Call.	TM	4/8
		TCD04	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD05	310	LOCATION IDENTIFIER To City.	AN	1/30
		TCD06	156	STATE OF PROVINCE CODE To State.	ID	2/2
		TCD07	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD08	310	LOCATION IDENTIFIER From City.	AN	1/30
		TCD09	156	STATE OR PROVINCE CODE From State.	ID	2/2
TCD10	739	MEASUREMENT VALUE Minutes.	R	1/20		
TCD11	739	MEASUREMENT VALUE Seconds.	R	1/20		
TCD12	782	MONETARY VALUE Amount.	R	1/18		
TCD13	782	MONETARY AMOUNT Not Applicable.	R	1/18		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	TCD14	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD15	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD16	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER FN From/Originating Station Telephone Number.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID From Number.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER TM To/Terminating Station Telephone Number.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID To Number.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Rate Period. See Appendix B for values.	AN	1/48

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID Message Type. See Appendix B for values.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Usage Plan code.	AN	1/48
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER ST Message Service Type.	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Message Service Type. See Appendix B for values.	AN	1/48
	SI14	1000	SERVICE CHARACTERISTICS QUALIFIER MI Special Message Information Code	AN	2/2
	SI15	234	PRODUCT/SERVICE ID 03 Indicates a Toll Message Spanned Multiple Rate Periods	AN	1/48
	SI16-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION MEA Measured.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER BA Band.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Band.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER ST Message Service Type.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID AH Attendant Handled/Operator Handled.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Usage Plan Code.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI09	234	PRODUCT/SERVICE ID 08 Previous	AN	1/48
	SI10-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFER 197 End	ID	3/3
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
QTY	QTY01	673	QUABTITY QUALIFIER 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
	QTY02	380	QUANTITY Usage Quantity	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	22
	QTY04	61	Free-form message Not Applicable.	AN	1/30

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Rate.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes. UN Unit.	ID	2/2
		USD06	380	QUANTITY Usage Quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
USD09	610	AMOUNT Not Applicable.	N2	1/15		
USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2		
USD11	740	RANGE MINIMUM Not Applicable.	R	1/20		
USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20		

4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Rate Period Code. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
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 Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15

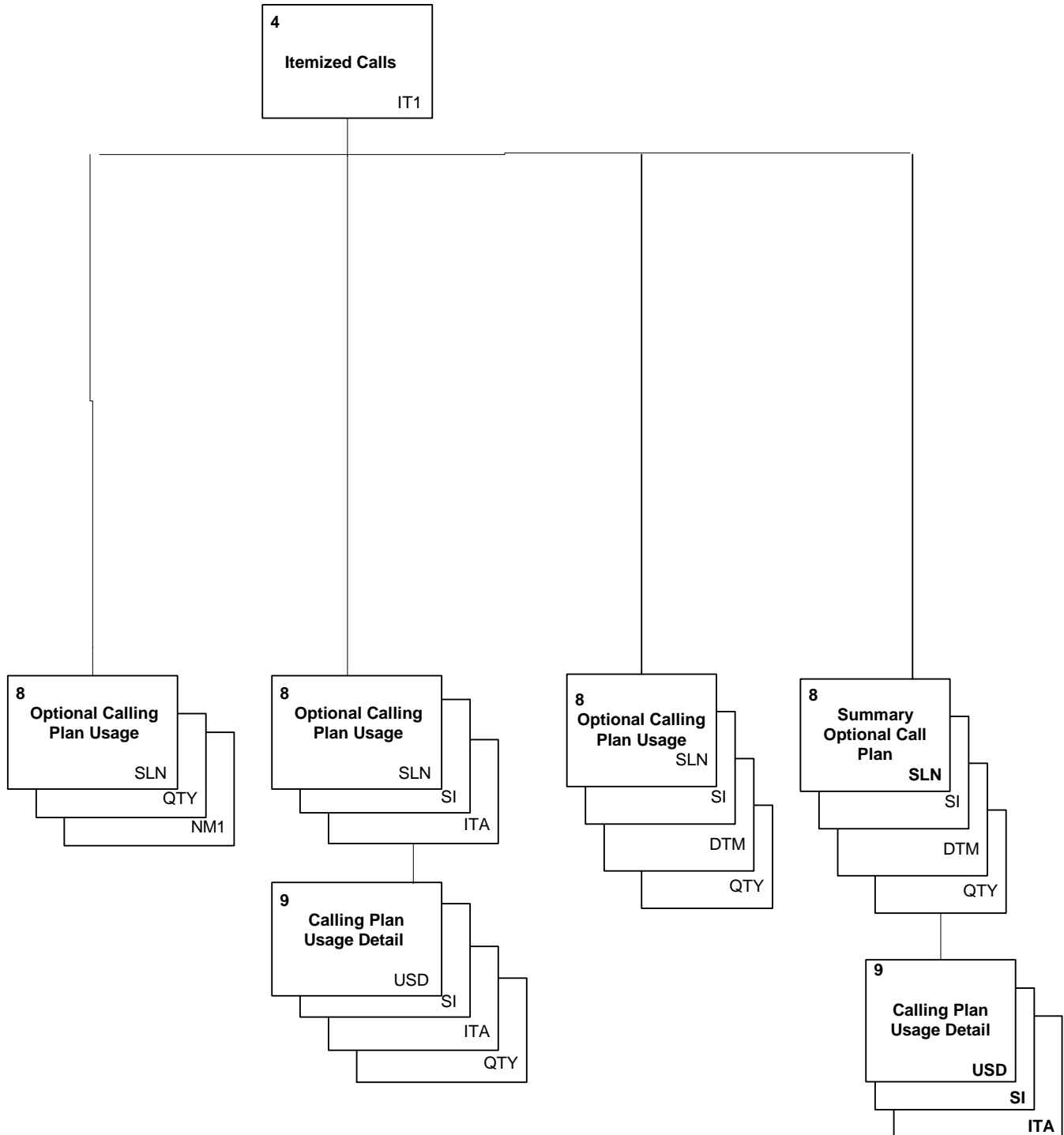


4.16.3 X12 Segment Layout / Local Usage – Measured Service, Continued

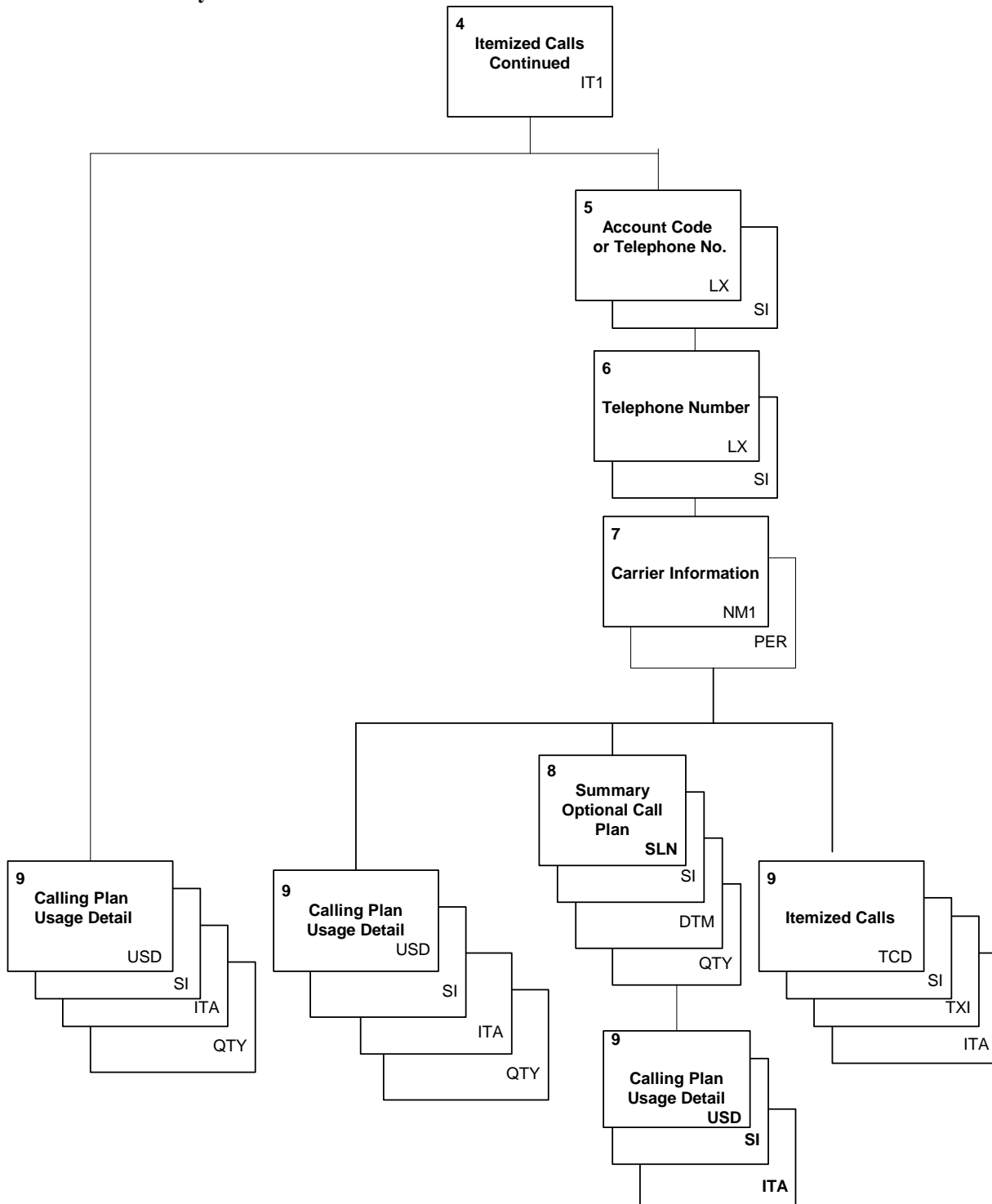
Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used. 92 Allotted Usage Quantity	ID	2/2
	QTY02	380	QUANTITY Number of Calls/minutes	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

## 4.17 Itemized Calls

### 4.17.1 811 Hierarchy Structure / Itemized Calls



4.17.2 811 Hierarchy Structure / Itemized Calls Continued



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#### 4.17.2 Bill Section Technical Specifications / Itemized Calls, Continued

##### Bill Section Technical Specifications / Itemized Calls Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0500), billed amount, and service type.
L5	LX/SI	Occurs once per account code or telephone number. Contains account code and translated account code or telephone number.
L6	LX/SI	Occurs once per telephone number, if HL5 contains account code. Contains telephone number.
L7	NM1	Occurs once per carrier. Contains carrier name and carrier code, if available.
	PER	Occurs once per carrier Contains carrier inquiry number, if available
L9	TCD	Occurs once per itemized call. Contains call information, see TCD layout.
	SI	Occurs once per TCD. Contains call information, see SI layout.
	TXI	Occurs once per TCD, if applicable. Contains tax information.
	ITA	Occurs up to once per TCD. Contains charge amount for Special Charge
L9	USD	Occurs once per line telephone number, per calling plan. Contains unit type and usage quality, if available
	SI	Occurs once per USD Contains calling plan USOC.
	ITA	Occurs up to once per USD Contains discount information, if available
	QTY	Occurs one or more times per USD Contains number of calls/minutes used
L8	SLN	Occurs once per line telephone number, per summary call plan Contains the call plan usage quantity and type of usage
	SI	Occurs once per SLN Contains calling plan USOC, if available
	DTM	Occurs up to once per SLN Contains Rate Change Date, if applicable.
	QTY	Occurs up to two times per SLN. Contains number of calls/minutes used.
L9	USD	Occurs once per line telephone number, per summary calling plan. Contains unit type and usage quantity, if available
	SI	Occurs once per USD Contains charge/usage Status Code and message type if applicable
	ITA	Occurs up to once per USD Contains discount information, if available.

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L8	SLN	Occurs once per fax service carrier. Contains billed amount.
	QTY	Occurs once per SLN. Contains outbound minutes of use.
	NM1	Occurs once per SLN. Contains carrier information.
L8	SLN	Occurs once per call plan Contains the call plan usage quantity and type of usage.
	SI	Occurs once per SLN Contains calling plan USOC, if available.
	DTM	Occurs up to once per SLN Contains Rate Change Date, if applicable
	QTY	Occurs up to two times per SLN Contains number of calls/minutes used
L8	SLN	Occurs once per summary call plan. Contains billed amount
	SI	Occurs once per SLN Contains calling plan USOC, if available.
	DTM	Occurs up to once per SLN Contains Rate Change Date, if applicable
	QTY	Occurs up to two times per SLN Contains number of calls/minutes used
L9	USD	Occurs once summary calling plan if variable rate or discount information is provided Contains rate, unit type and usage quantity, if available.
	SI	Occurs once per USD Contains charge/usage Status Code and Message type if applicable
	ITA	Occurs up to once per USD Contains discount information, if available
L8	SLN	Occurs once per call plan. Contains the call plan subtotals.
	SI	Occurs once per SLN. Contains calling plan USOC.
	ITA	Occurs up to once per SLN. Contains discount amount and percent or offset for call plan minimum charge.
L9	USD	Occurs one or more times per call plan if discount/savings information is provided. Contains discount percentage and discount amount.
	SI	Occurs once per USD. Contains calling plan USOC.
	QTY	Occurs one or more times per USD. Contains usage quantity.

**4.17.2 Bill Section Technical Specifications / Itemized Calls, Continued**

*One or more of the following level 9 loops may occur*

L9 (D)	USD	Occurs once per rate period within the plan (Discount OCP). Contains discount percent, billed amount, and discount amount.
	SI	Occurs once per USD. Contains rate period code and calling plan USOC.
	QTY	Occurs up to two times per USD. Contains number of messages and/or minutes to be billed
L9 (R)	USD	Occurs up to two times per rate period within the plan (Rate Based OCP). Contains rate, unit type, usage quantity, and billed amount.
	SI	Occurs once per USD. Contains rate period code, settlement code, USOC, and message type, if applicable.
	QTY	Occurs twice per call plan. Contains quantity used and quantity allotted with usage type.
L9 (U)	USD	Occurs once per call type within the plan (Usage Based OCP). Contains call usage and billed amount.
	SI	Occurs once per USD. Contains calling plan USOC and call type.
	QTY	Occurs up to once per USD. Contains number of minutes used.
	USD	Occurs once per minimum charges billing. Contains minimum charge amount.
	SI	Occurs once per USD. Contains calling plan USOC.
	USD	Occurs once per call plan. Contains rate, unit type and usage quantity.
	SI	Occurs once per USD. Contains calling plan USOC
	USD	Occurs one or more times per calling plan. Contains minimum or maximum usage amounts.
	SI	Occurs once per USD. Contains calling plan USOC.
	ITA	Occurs once per USD. Contains discount information.
	USD	Occurs once per call plan. Contains unit type, usage quantity and charge amount
	SI	Occurs once per USD Contains calling plan USOC, charge/usage status and message type if applicable
	ITA	Occurs up to once per USD Contains discount information, if available.
	QTY	Occurs one or more times per USD Contains number of call/minutes used.

**4.17.2 Bill Section Technical Specifications / Itemized Calls, Continued**

*One or more of the following level 9 loops may occur*

L9 (U), Continued

- |     |  |
|-----|--|
| USD | Occurs once per summary call plan<br>Contains unit type and usage quantity.                            |
| SI  | Occurs once per USD<br>Contains calling plan USOC, charge/usage status and message type if applicable. |
| ITA | Occurs up to once per USD<br>Contains discount information if available.                               |

#### **4.17.2 Bill Section Technical Specifications / Itemized Calls, Continued**

##### **EDI Summary Bill**

The EDI Summary Bill presents the IT1 segment only.

##### **Comments and Exceptions**

- SI02 at Level 5 is populated with DI when Department Number Account Arrangement is used. See Section 4.26.
- Level 6 and Level 7 may be included to accommodate Department Number logic. See Section 4.26.
- Level 7 may be presented as LX/SI/NM1 to accommodate Department Number logic. See Section 4.26.
- The SI segment DE1000/234 paired information is presented when the associated data is available. The paired information may not be the same positional placement as noted in the X12 Segment Layout.

##### **Summing Rules**

- IT104 is equal to the sum of all TCD amounts (TCD12) plus calculated SLN amounts (SLN04 times SLN06) plus discount and/or minimum charge offset amounts (ITA07).
- For Discount OCPs, the SLN06 is equal to the sum of all USD08 amounts.
- For Rate Based OCPs, the SLN06 amount is equal to the sum of all USD03 times USD06 amounts or the sum of all USD08 amounts, as USD08 takes precedence over USD03.
- For Usage Based OCPs, the SLN06 is equal to the sum of all USD03 times USD06 amounts or the sum of all USD08 amounts, as USD08 takes precedence over USD03.
- For combination OCPs, the SLN06 amount is equal to the sum of all USDs, as described above.
- The IT1 segment billed amount is used to sum the Detail Area to the TDS segment amount



4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0500 Itemized Calls.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type (WJ).	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER DI Department Code/Customer ID Code. AE Account Code. TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Department Number. Account Code. Telephone Number.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER AP Translated Account Code/PIN.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Translated Account Code/PIN.	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 6	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 6 Sub-Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER AE Account Code. TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Account Code. Telephone Number.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER AP Translated Account Code/PIN.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Translated Account Code/PIN.	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 7	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 7 Type.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
NMI	NM101	98	ENTITY IDENTIFIER CODE CA Carrier.	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
	NM104	1036	NAME FIRST Not Applicable.	AN	1/25
	NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
	NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
	NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
	NM108	66	IDENTIFICATION CODE QUALIFIER 41 Telecommunications Carrier Identification Code. 91 Assigned by the Seller or the Seller's Agent.	ID	1/2
	NM109	67	IDENTIFICATION CODE Carrier Code.	AN	2/80
	NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
	NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
PER	PER01	366	CONTACT FUNCTION CODE BI Bill Inquiry Contact.	ID	2/2
	PER02	93	NAME Not Applicable	AN	1/60
	PER03	365	COMMUNICATION NUMBER QUALIFIER TE Telephone.	ID	2/2
	PER04	364	COMMUNICATION NUMBER Bill Inquiry Telephone Number.	AN	1/80
	PER05	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER06	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER07	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER08	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER09	443	CONTACT INQUIRY REFERENCE Not Applicable.	AN	1/20

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 7	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5 or Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 7 Type.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	NM1	NM101	98	ENTITY IDENTIFIER CODE CA Carrier.	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
		NM104	1036	NAME FIRST Not Applicable.	AN	1/25
		NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
		NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
		NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
		NM108	66	IDENTIFICATION CODE QUALIFIER 41 Telecommunications Carrier Identification Code. 91 Assigned by Seller or Seller's Agent.	ID	1/2
		NM109	67	IDENTIFICATION CODE Carrier Code.	AN	2/80
		NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
		NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
PER	PER01	366	CONTACT FUNCTION CODE BI Bill Inquiry Contact.	ID	2/2
	PER02	93	NAME Not Applicable	AN	1/60
	PER03	365	COMMUNICATION NUMBER QUALIFIER TE Telephone.	ID	2/2
	PER04	364	COMMUNICATION NUMBER Bill Inquiry Telephone Number.	AN	1/80
	PER05	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER06	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER07	365	COMMUNICATION NUMBER QUALIFIER Not Applicable.	ID	2/2
	PER08	364	COMMUNICATION NUMBER Not Applicable.	AN	1/80
	PER09	443	CONTACT INQUIRY REFERENCE Not Applicable.	AN	1/20



4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5, 6, or 7.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	TCD	TCD01	350	ASSIGNED IDENTIFICATION Line Item Reference Number.	AN	1/20
		TCD02	373	DATE Date of Call.	DT	8/8
		TCD03	337	TIME Time of Call.	TM	4/8
		TCD04	309	LOCATION QUALIFIER CI City. ZZ Mutually Defined.	ID	1/2
		TCD05	310	LOCATION IDENTIFIER To City. Service Identifier.	AN	1/30
		TCD06	156	STATE OF PROVINCE CODE To State.	ID	2/2
		TCD07	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD08	310	LOCATION IDENTIFIER From City.	AN	1/30
		TCD09	156	STATE OR PROVINCE CODE From State.	ID	2/2
		TCD10	739	MEASUREMENT VALUE Minutes.	R	1/20
		TCD11	739	MEASUREMENT VALUE Seconds.	R	1/20
		TCD12	782	MONETARY VALUE Amount.	R	1/18
		TCD13	782	MONETARY AMOUNT Not Applicable.	R	1/18

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	TCD14	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD15	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD16	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER FN From/Originating Station Telephone Number.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID From Telephone Number.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER TM To/Terminating Station Telephone Number.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID To Telephone Number.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Rate Period Code. See Appendix B for values.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID Message Type. See Appendix B for values.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48
	SI14	1000	SERVICE CHARACTERISTICS QUALIFIER SD Settlement Code.	AN	2/2

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	SI15	234	PRODUCT/SERVICE ID LO Local. RR Intrastate-IntraLATA.	AN	1/48
	SI16	1000	SERVICE CHARACTERISTICS QUALIFIER CD Customer Dialed Acct. Recording/Sub-authorization No. AU Authorization Code.	AN	2/2
	SI17	234	PRODUCT/SERVICE ID CDAR Number. Authorization Code.	AN	1/48
	SI18	1000	SERVICE CHARACTERISTICS QUALIFIER MI Special Message Information Code Qualifier. ST Message Service Type.	AN	2/2
	SI19	234	PRODUCT/SERVICE ID 02 Indicates a Toll Message Spanned Multiple Rate Periods. Message Service Type. See Appendix B for values.	AN	1/48
	SI20-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
TXI	TXI01	963	TAX TYPE CODE LO Local Tax (Not Sales Tax). ST State Sales Tax.	ID	2/2
	TXI02	782	MONETARY VALUE Tax Amount for Call.	R	1/18
	TXI03	954	PERCENT Not Applicable.	R	1/10
	TXI04	955	TAX JURISDICTION CODE QUALIFIER Not Applicable.	ID	2/2
	TXI05	956	TAX JURISDICTION CODE Not Applicable.	AN	1/10
	TXI06	441	TAX EXEMPT CODE Not Applicable.	ID	1/1
	TXI07	662	RELATIONSHIP CODE A Add. O Information Only.	ID	1/1
	TXI08	828	DOLLAR BASIS FOR PERCENT Not Applicable.	R	1/9
	TXI09	325	TAX IDENTIFICATION NUMBER Not Applicable.	AN	1/20
	TXI10	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR C Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE 06 Charge to be Paid by Customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not applicable	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE PSP Payphone Service Provider Surcharge	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
USD	USD01	662	RELATIONSHIP CODE O Informational only.	ID	1/1
	USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop	AN	1/20
	USD03	118	RATE Rate	R	1/9
	USD04	954	PERCENT Not applicable	R	1/10
	USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
	USD06	380	QUANTITY Number of calls/minutes	R	1/15
	USD07	380	QUANTITY Not Applicable	R	1/15
	USD08	782	MONETARY AMOUNT Not Applicable	R	1/18
	USD09	610	AMOUNT Not Applicable	N2	1/15
	USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
	USD11	740	RANGE MINIMUM Not Applicable	R	1/20
	USD12	741	RANGE MAXIMUM Not Applicable	R	1/20

**7.14.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued**

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE T1 Telecommunications Industry	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER MY Message Type	AN	2/2
	SI07	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE ORCHARGE 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 Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
	ITA09	332	PERCENT Discount Percent	R	1/6
	ITA10	380	QUANTITY Not Applicable	R	1/15
	ITA11	355	UNIT BASIS FOR MEASURMENT CODE Not Applicable		
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only	ID	1/1
	ITA17	355	UNITED BASIS FOR MEASUREMENT CODE Not Applicable	ID	1/1

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
	QTY02	380	QUANTITY Usage Quantity	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30



7.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5,6, or7.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.  1 Additional Subordinate HL segment in this hierarchical structure	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Amount.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
	SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2	
	SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1	
	SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.			
	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICA QUALIFIER SC Service Category Code	AN	2/2
	SI03	234	PRODUCT SERVICE ID Calling Plan USOC	AN	1/48	
	SI104-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable			

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/3
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable	TM	4/8
	DTM04	623	TIME CODE Not Applicable	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFER Not Applicable	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable	AN	1/35
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used. 92 Allotted Usage Quantity	ID	2/2
			QTY02		
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes. C0 Calls	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628 HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734 HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735 HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736 HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662 RELATIONSHIP CODE I Included	ID	1/1
		USD02	350 ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop	AN	1/20
		USD03	118 RATE Not Applicable	R	1/9
		USD04	954 PERCENT Not Applicable	R	1/10
		USD05	C001 COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
		USD06	380 QUANTITY Usage Quantity	R	1/15
		USD07	380 QUANTITY Not Applicable	R	1/15
		USD08	782 MONETARY AMOUNT Billed Amount	R	1/18
		USD09	610 AMOUNT Not Applicable	N2	1/15
		USD10	C001 COMPOSITE UNIT OF MEASURE 355 Not Applicable	ID	2/2
		UDS11	740 RANGE MINIMUM Not Applicable	R	1/20
		USD12	741 RANGE MAXIMUM Not Applicable	R	1/20

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
LEVEL 9	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
		SI03	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type	AN	2/2
		SI05	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
	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 Not Applicable	ID	2/10
		ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
		ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
		ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
		ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Not Applicable	N2	1/15
		ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
		ITA09	332	PERCENT Discount Percent	R	1/6
		ITA10	380	QUANTITY Not Applicable	R	1/15
		ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
		ITA12	380	QUANTITY Not Applicable	R	1/15

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Amount.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used.	ID	2/2
		QTY02	380	QUANTITY Usage quantity.	R	1/15
		QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes.	ID	2/2
		QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
NMI	NM101	98	ENTITY IDENTIFIER CODE CA Carrier.	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
	NM104	1036	NAME FIRST Not Applicable.	AN	1/25
	NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
	NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
	NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
	NM108	66	IDENTIFICATION CODE QUALIFIER Not Applicable.	ID	1/2
	NM109	67	IDENTIFICATION CODE Not Applicable.	AN	2/80
	NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
	NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
	HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
	HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
	HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in hierarchical structure	ID	1/1
SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop	AN	1/20
	SLN02	350	ASSIGNED IDENTIFICATION Not Applicable	AN	1/20
	SLN03	662	RELATIONSHIP CODE I Included	ID	1/1
	SLN04	380	QUANTITY Number of calls/minutes	R	1/15
	SLN05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
	SLN06	212	UNIT PRICE Billed Amount	R	1/17
	SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable	ID	2/2
	SLN08	662	RELATIONSHIP CODE O Information Only	ID	1/1
	SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable		



4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Calling Plan USOC	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type	AN	2/2
		SI05	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID		
	DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/3
		DTM02	373	DATE Thru Date	DT	8/8
		DTM03	337	TIME Not Applicable	TM	4/8
		DTM04	623	TIME CODE Not Applicable	ID	2/2
		DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable	ID	2/3
		DTM06	1251	DATE TIME PERIOD Not Applicable	AN	1/35
	QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
		QTY02	380	QUANTITY Usage Quantity	R	1/15
		QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	2/2
		QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 FROM HL Level 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail	ID	1/2
		HL04	736	HIERARCHICAL 1 Additional subordinate HL data segment I this Hierarchical structure 0 No subordinate HL segment in this Hierarchical structure	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications industry	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
DTM	DTM01	374	DATE/TIME QUALIFIER 197 End	ID	3/3
	DTM02	373	DATE Thru Date	DT	8/8
	DTM03	337	TIME Not Applicable	TM	4/8
	DTM04	623	TIME CODE Not Applicable	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable	AN	1/35
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
	QTY02	380	QUANTITY Usage Quantity	R	1/15
	QTY03	C001 355 C0	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop	AN	1/20
		USD03	118	RATE Usage Rate	R	1/9
		USD04	954	PERCENT Not Applicable	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
		USD06	380	QUANTITY Usage quantity	R	1/15
		USD07	380	QUANTITY Not Applicable	R	1/15
		USD08	782	MONETARY AMOUNT Billed Amount	R	1/18
		USD09	610	AMOUNT Not Applicable	N1	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable	R	1/20

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunication Industry	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI03	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type	AN	2/2
	SI05	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOER N No Allowance or Charge	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
	ITA03	560	SPECIAL SERVICE CODE Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL Not Applicable	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIERQIDQ1/1 Not Applicable		
	ITA09	332	PERCENT Discount Percent	R	1/6
	ITA10	380	QUANTITY Not Applicable	R	1/15

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
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
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined. 06 Charge to be paid by customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount Amount. Billed Amount. Payphone Use Fee.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15



4.17.3 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount. ANB Adjustment for Minimum Charges Billing. PSP Payphone Service Provider.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add. I Included.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.17.4 X12 Segment Layout / Itemized Calls – Discount Based OCPs

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Discount Percent.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD06	380	QUANTITY Not Applicable.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Billed Amount.	R	1/18
		USD09	610	AMOUNT Discount Amount.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.17.4 X12 Segment Layout / Itemized Calls – Discount Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Rate Period Code. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Usage Quantity.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes. NF Messages.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.5 X12 Segment Layout / Itemized Calls – Rate Based OCPs

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Usage Rate.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes. HR Hours. UE Tenth Hours. QH Quarter Hours. HT Half Hour.	ID	2/2
		USD06	380	QUANTITY Usage Quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Billed Amount.	R	1/18
USD09	610	AMOUNT Not Applicable.	N2	1/15		
USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2		
USD11	740	RANGE MINIMUM Not Applicable.	R	1/20		
USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20		

4.17.5 X12 Segment Layout / Itemized Calls – Rate Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Rate Period Code. See Appendix B for values.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code. SD Settlement Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Calling Plan USOC. RR Intrastate-IntraLATA.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID CC Calling Card.	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 92 Allotted Usage. 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Usage Quantity.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes. HR Hours. UE Tenth Hours QH Quarter Hours. HT Half Hours. NF Messages.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls.	ID	2/2
		USD06	380	QUANTITY Usage Quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Billed Amount.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER DC Direction Code. MT Message Type. ST Message Service Type.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID O Originating. T Terminating (800 Service). Message Type. See Appendix B for values. Message Service Type. See Appendix B for values.	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used.	ID	2/2
	QTY02	380	QUANTITY Usage Quantity.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
	USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
	USD03	118	RATE Not Applicable.	R	1/9
	USD04	954	PERCENT Not Applicable.	R	1/10
	USD05	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
	USD06	380	QUANTITY Not Applicable.	R	1/15
	USD07	380	QUANTITY Not Applicable.	R	1/15
	USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
	USD09	610	AMOUNT Not Applicable.	N2	1/15
	USD10	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
	USD11	740	RANGE MINIMUM Minimum charge for plan.	R	1/20
	USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE I Included.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Rate.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes.	ID	2/2
		USD06	380	QUANTITY Usage quantity.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD06	380	QUANTITY Not Applicable.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		USD11	740	RANGE MINIMUM Minimum Amount.	R	1/20
		USD12	741	RANGE MAXIMUM Maximum Amount.	R	1/20

4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR A Allowance.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Discount Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Discount Percent.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80

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4.17.6 X12 Segment Layout / Itemized Calls – Usage Based OCPs, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC                      Discount.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE O                      Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Not Applicable.	R	1/9
		USD04	954	PERCENT Discount Percent.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD06	380	QUANTITY Not Applicable.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Discount Amount.	R	1/18
		USD09	610	AMOUNT Discount Amount.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity used.	ID	2/2
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001	COMPOSITE UNIT OF MEASURE MJ Minutes. C0 Calls.	N/A	N/A
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans,(w charge amount)Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop	AN	1/20
		UDS03	118	RATE Not Applicable	R	1/9
		USD04	954	PERCENT Not Applicable	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
		USD06	380	QUANTITY Not Applicable	R	1/15
		USD07	380	QUANTITY Not Applicable	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable	R	1/18
		USD09	610	AMOUNT	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable	R	1/20



4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans, (w charge amount) Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code	AN	2/2
	SI03	234	PRODUCTION/SERVICE ID Calling Plan USOC	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type	AN	2/2
	SI07	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
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 Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRGMETHOD OF HANDLING CODE ZZ Mutually Defined	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
	ITA09	332	PERCENT Discount Percent	R	1/6

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans, (w charge amount)Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA10	380	QUANTITY Not Applicable	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only	ID	2/2
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity Used	ID	2/2
	QTY02	380	QUANTITY Usage Quantity	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Calls	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans,(w/o charge amount)Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop	AN	1/20
		USD03	118	RATE Not Applicable	R	1/9
		USD04	954	PERCENT Not Applicable	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls MJ Minutes	ID	2/2
		USD06	380	QUANTITY Usage quantity	R	1/15
		USD07	380	QUANTITY Not Applicable	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable	R	1/18
		USD09	610	AMOUNT Not Applicable	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable	R	1/20

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans,(w/o charge amount)Continued

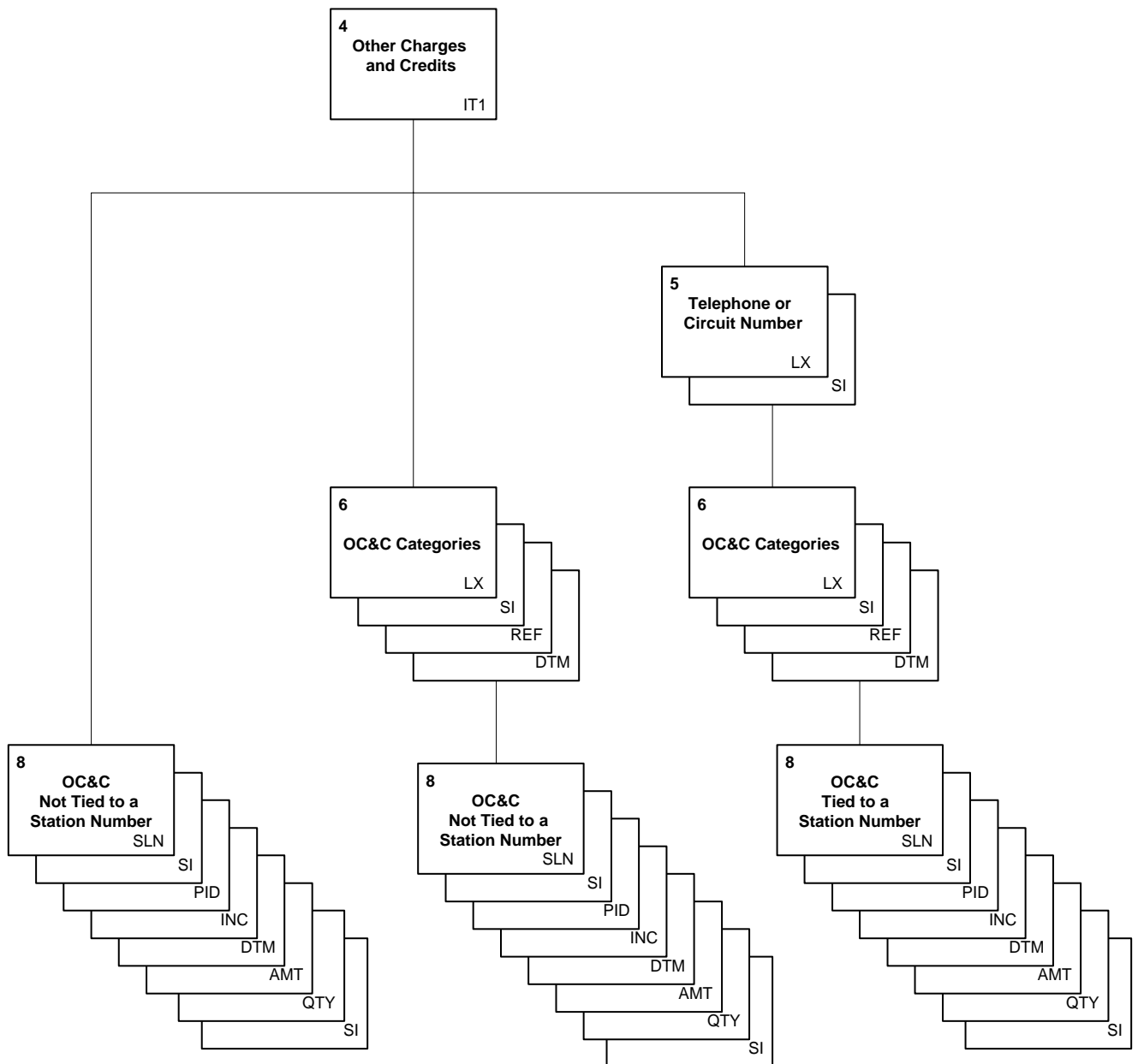
Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY CODE	ID	2/2
			TI Telecommunications Industry		
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER	AN	2/2
			SC Service Category Code		
	SI03	234	PRODUCT/SERVICE ID Calling Plan USOC	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CH Charge/Usage Status Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 09 Variable Rate	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type	AN	2/2
	SI07	234	PRODUCT/SERVICE ID CC Calling Card	AN	1/48
	SI08-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable		
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR	ID	1/1
			N No Allowance or Charge		
	ITA02	559	AGENCY QUALIFIER CODE	ID	2/2
			TI Telecommunications Industry		
	ITA03	560	SPECIAL SERVICES CODE Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOS OF HANDLING CODE ZZ Mutually Defined	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE RATE TOTAL AMOUNT Not Applicable	N2	1/15

4.17.7 X12 Segment Layout / Itemized Calls – Optional Calling Plans,(w/o charge amount)Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
	ITA09	332	PERCENT Discount Percent	R	1/6
	ITA10	380	QUANTITY Not Applicable	R	1/15
	ITA11	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
QTY	QTY01	673	QUANTITY Not Applicable	ID	2/2
	QTY02	380	QUANTITY QUALIFIER 99 Quantity Used 92 Allotted Usage Quantity	ID	2/2
	QTY03	C001 355 C0	COMPOSITE UNIT OF MEASURE MJ Minutes C0 Call	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30

## 4.18 Other Charges and Credits

### 4.18.1 811 Hierarchy Structure / Other Charges and Credits



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#### 4.18.2 Bill Section Technical Specifications / Other Charges and Credits

##### 4.18.3 Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0400), billed amount, and service type.
L5	LX/SI	Occurs once per station number. Contains telephone number or circuit number.
L6	LX/SI	Occurs once per Level 6. Contains the Service Activity Code, if available.
	REF	Occurs one or more times per LX loop. Contains the Service Order Number and/or Purchase Order Number. and/or Customer Reference Number and/or Contract Number, if available.
	DTM	Occurs once per LX loop. Contains the Activity Date or Effective Date, if available.
L8	SLN	Occurs once per line item charge. Contains the charge amount and service rendered code, if applicable.
	SI	Occurs once per SLN. Contains the OC&C Category Code, OC&C Phrase Code or USOC, CENTREX location, and Discount Code, if applicable.
	PID	Occurs once per SLN. Contains the line item description, if available.
	INC	Occurs once per SLN. Contains Installment Billing information, if applicable.
	DTM	Occurs up to two times per SLN. Contains the service period, effective date, or purchased date pertaining to the charge.
	AMT	Occurs once per SLN. Contains the amount before fractionalization, if available.
	QTY	Occurs once per SLN. Contains the billable quantity, if applicable.
	SI	Occurs once per QTY. Contains USOC.

##### EDI Summary Bill

The EDI Summary Bill presents the IT1 segment only.

##### Comments and Exceptions:

- A new Level 6 is generated when Service Order Number, Purchase Order Number, Customer Reference Number, Contract Number, or Service Activity Code or Service Activity Date changes.
- None of the values at Level 6 are mandatory.
- SI02 at Level 5 are populated with DI when the Department Number Account Arrangement is used. See Section 4.26.
- Level 7 may be included to accommodate Department Number logic. See Section 4.26.
- The INC segment is only presented when installment information is available.
- The PID, DTM, AMT, QTY, and SI segments appear only when the data is available.
- The SI segment DE1000/234 paired information is presented when the associated data is available.  
The paired information may not be in the same positional placement as noted in the X12 Segment Layout.

##### Summing Rules

- IT104 equals the sum of all SLN06 amounts.

- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount



4.18.4 X12 Segment Layout / Other Charges and Credits

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0400 Other Charges and Credits.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 2 Other Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number. CN Circuit Number. DI Department Code/Customer ID Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number. Circuit Number. Department Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 6	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4 or HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 6 Sub-Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SA Service Activity Code.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID A Add. D Delete. C Change.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER VN Vendor Order Number (Service Order). PO Purchase Order Number. CR Customer Reference Number. CT Contract Number.	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Service Order Number. Purchase Order Number. Customer Reference Number. Contract Number.	AN	1/30
		REF03	352	DESCRIPTION Not Applicable.	AN	1/80
		REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
DTM	DTM01	374	DATE/TIME QUALIFIER 007 Effective.	ID	3/3
	DTM02	373	DATE Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4, Level 5 or Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop or Bill Page and Item Number.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Amount.	ID	2/2
		SLN06	212	UNIT PRICE Charge/Credit Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included. O Information Only.	ID	1/1
		SLN09	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		SLN10	234	PRODUCT/SERVICE ID 1200 Equipment.	AN	1/48
		SLN011-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER OC OC&C Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Category Code.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER OD OC&C Description Code.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID OC&C Phrase Code.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID USOC.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER CX CENTREX Location Address Code.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID Centrex Location Code.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER DS Discount Planned Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Discount Code.	AN	1/48
	SI12-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-form.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE Not Applicable.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE Not Applicable.	AN	1/12
	PID05	352	DESCRIPTION OC&C Phrase Code description or Line item description.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2

4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3
INC	INC01	336	TERMS TYPE CODE 04 Deferred or Installment.	ID	2/2
	INC02	C001 355	COMPOSITE UNIT OF MEASURE MO Months.	ID	2/2
	INC03	380	QUANTITY Total Number of Installments.	R	1/15
	INC04	380	QUANTITY Number of this Installment.	R	1/15
	INC05	782	MONETARY VALUE Installment Billing Remaining Balance.	R	1/18
DTM	DTM01	374	DATE/TIME QUALIFIER 150 Service Period Start. 151 Service Period End. 007 Effective. 321 Purchased.	ID	3/3
	DTM02	373	DATE Start date. End date. Effective date. Purchased date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

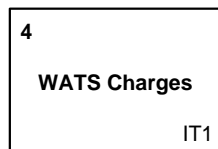
4.18.3 X12 Segment Layout / Other Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
AMT	AMT01	522	AMOUNT QUALIFIER CODE AP Amount Prior to Fractionalization.	ID	1/3
	AMT02	782	MONETARY VALUE Amount Prior to Fractionalization.	R	1/18
	AMT03	478	CREDIT/DEBIT FLAG CODE Not Applicable.	ID	1/1
QTY	QTY01	673	QUANTITY QUALIFIER 94 Billable quantity.	ID	2/2
	QTY02	380	QUANTITY Number of billed items.	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE EA Each.	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID USOC.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



## 4.19 WATS

### 4.19.1 811 Hierarchy Structure / WATS



## 4.19.2 Bill Section Technical Specifications / WATS

### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (1000), billed amount, and service type.
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### EDI Summary Bill

The WATS structure is identical in the EDI Detail and Summary Bill.

### Comments and Exceptions

- The WATS structure is the same for all Service Providers.

### Summing Rules

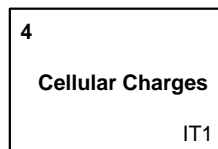
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.19.3 X12 Segment Layout / WATS

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 1000 WATS.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

## 4.20 Cellular

### 4.20.1 811 Hierarchy Structure / Cellular



## 4.20.2 Bill Section Technical Specifications / Cellular

### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (1100), billed amount, and service type.
----	-----	---

### EDI Summary Bill

The Cellular structure is identical in the EDI Detail and Summary Bill.

### Comments and Exceptions

- The Cellular structure is the same for all Service Providers.

### Summing Rules

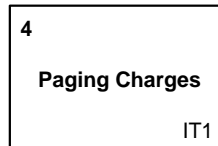
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.20.3 X12 Segment Layout / Cellular

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 1100 Mobile/Cellular/Personal Communications Service Usage.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 4 Summary/Combined Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

## 4.21 **Paging**

### 4.21.1 811 Hierarchy Structure / Paging



## 4.21.2 Bill Section Technical Specifications / Paging

### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0230), billed amount, and service type.
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### EDI Summary Bill

The Paging structure is identical in the EDI Detail and Summary Bill.

### Comments and Exceptions

- The Paging structure is the same for all Service Providers.

### Summing Rules

- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

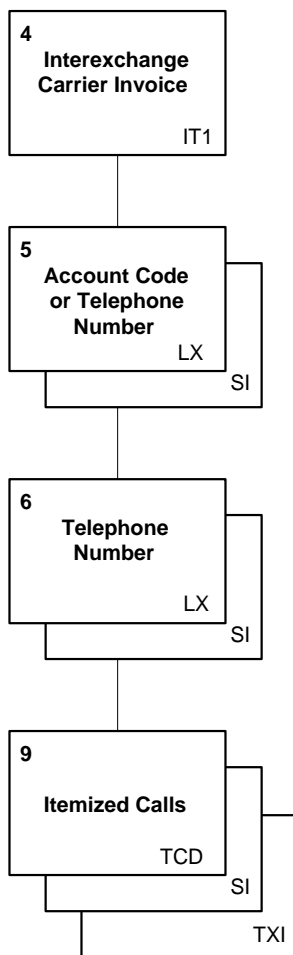


### 4.21.3 X12 Segment Layout / Paging

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0230 Paging.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 4 Summary/Combined Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

## 4.22 Interexchange Carrier Invoice

### 4.22.1 811 Hierarchy Structure / Interexchange Carrier Invoice



## 4.22.2 Bill Section Technical Specifications / Interexchange Carrier Invoice

### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0510), billed amount, and service type.
L5	LX/SI	Occurs once per account code or telephone number. Contains account code, translated account code, or telephone number.
L6	LX/SI	Occurs once per telephone number, when HL5 contains an account code. Contains telephone number.
L9	TCD	Occurs once per itemized call. Contains call information, see TCD layout.
	SI	Occurs once per TCD. Contains call information, see SI layout.
	TXI	Occurs once per TCD, if applicable. Contains tax information.

### EDI Summary Bill

The EDI Summary Bill presents the IT1 segment only.

### Comments and Exceptions

- All TCD and TXI segments are informational.
- The SI segment DE1000/234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted in the X12 Segment Layout.
- Levels 5, 6, and 9 are presented only when the detail is available.
- When the Department Number information is available, it is presented at Level 5. See Section 4.26.

### Summing Rules

- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.22.3 X12 Segment Layout / Interexchange Carrier Invoice

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0510 Interexchange Carrier Invoice.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 4 Summary/Combined Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER AE Account Code. TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Account Code. Telephone Number.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER AP Translated Account Code/PIN.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Translated Account Code/PIN.	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 6	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 6 Sub-Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 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 segment in this hierarchical structure.	ID	1/1
	TCD	TCD01	350	ASSIGNED IDENTIFICATION Line Item Reference Number.	AN	1/20
		TCD02	373	DATE Date of Call.	DT	8/8
		TCD03	337	TIME Time of Call.	TM	4/8
		TCD04	309	LOCATION QUALIFIER CI City. ZZ Mutually defined.	ID	1/2
		TCD05	310	LOCATION IDENTIFIER To City. Service Identifier.	AN	1/30
		TCD06	156	STATE OF PROVINCE CODE To State.	ID	2/2
		TCD07	309	LOCATION QUALIFIER CI City.	ID	1/2
		TCD08	310	LOCATION IDENTIFIER From City.	AN	1/30
		TCD09	156	STATE OR PROVINCE CODE From State.	ID	2/2
		TCD10	739	MEASUREMENT VALUE Minutes.	R	1/20
		TCD11	739	MEASUREMENT VALUE Seconds.	R	1/20
		TCD12	782	MONETARY AMOUNT Amount.	R	1/18
		TCD13	782	MONETARY AMOUNT Not Applicable.	R	1/18

4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	TCD14	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD15	782	MONETARY AMOUNT Not Applicable.	R	1/18
	TCD16	662	RELATIONSHIP CODE O Information Only.	ID	1/1
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER FN From/Originating Station Telephone Number.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID From Number.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER TM To/Terminating Station Telephone Number.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID To Number.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Rate Period. See Appendix B for values.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER MT Message Type.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID Message Type. See Appendix B for values.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID USOC.	AN	1/48
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER DA Directory Assistance Category Code.	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Directory Assistance Category. See Appendix B for values.	AN	1/48



4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

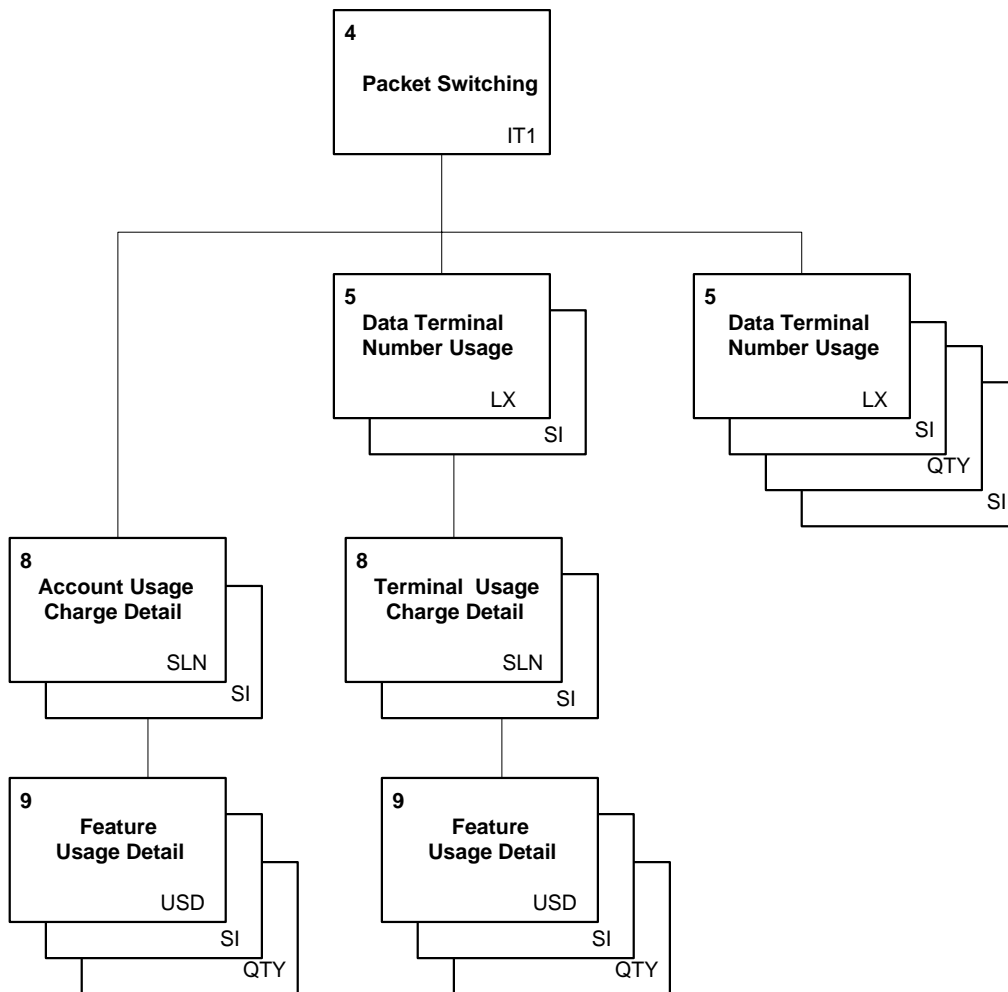
Segment	Seg ID	D/E	Description	Type	Min/Max
	SI14	1000	SERVICE CHARACTERISTICS QUALIFIER CD Customer Dialed Acct. Recording/Sub-authorization Number. AU Authorization Code.	AN	2/2
	SI15	234	PRODUCT/SERVICE ID CDAR Number. Authorization Code.	AN	1/48
	SI16	1000	SERVICE CHARACTERISTICS QUALIFIER MI Special Message Information Code	AN	2/2
	SI17	234	PRODUCT/SERVICE ID 02 Toll Message spanned Multiple Rate Periods	AN	1/48
	SI18	1000	SERVICE CHARACTERISTICS QUALIFIER SD Settlement Code	AN	2/2
	SI19	234	PRODUCT/SERVICE ID IT International	AN	1/48
	SI20	1000	SERVICE CHARACTERISTICS QUALIFIER ST Message Service Type	AN	2/2
	SI21	234	PRODUCT/SERVICE ID PP Payphone CE Cellular	AN	1/48

4.22.3 X12 Segment Layout / Interexchange Carrier Invoice, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
TXI	TXI01	963	TAX TYPE CODE LO Local Tax. ST State Sales Tax.	ID	2/2
	TXI02	782	MONETARY AMOUNT Tax Amount.	R	1/18
	TXI03	954	PERCENT Not Applicable.	R	1/10
	TXI04	955	TAX JURISDICTION CODE QUALIFIER Not Applicable.	ID	2/2
	TXI05	956	TAX JURISDICTION CODE Not Applicable.	AN	1/10
	TXI06	441	TAX EXEMPT CODE Not Applicable.	ID	1/1
	TXI07	662	RELATIONSHIP CODE O Information Only.	ID	1/1
	TXI08	828	DOLLAR BASIS FOR PERCENT Not Applicable.	R	1/9
	TXI09	325	TAX IDENTIFICATION NUMBER Not Applicable.	AN	1/20
	TXI10	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20

## 4.23 Packet Switching

### 4.23.1 811 Hierarchy Structure / Packet Switching



### 4.23.2 Bill Section Technical Specifications / Packet Switching

#### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (1605), billed amount, and service type.
L5	LX/SI	Occurs once per data terminal number. Contains data terminal number.
	QTY	Occurs one or more times per data terminal number. Contains usage quantity and usage type.
	SI	Occurs once per QTY. Contains the Packet Switching Service Type, if applicable, and Rate Period code.
L8	SLN	Occurs once per billed line item. Contains the billed amount.
	SI	Occurs up to once per SLN. Contains Rate Period code.
L9	USD	Occurs once per SLN. Contains rate per unit, unit type, and number of units.
	SI	Occurs once per USD. Contains the Packet Switching Service Type, if applicable.
	QTY	Occurs up to once per USD. Contains call quantity for Transaction Service.

#### EDI Summary Bill

The EDI Summary Bill presents the IT1 segment only.

#### Comments and Exceptions

- Packet Switching may be billed at the account or data terminal number.

#### Summing Rules

- The IT104 amount equals the sum of all the SLN amounts.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.23.3 X12 Segment Layout / Packet Switching

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		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. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 3 Usage.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.23.3 X12 Segment Layout / Packet Switching, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	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
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER BU Billed Network Address/User ID.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Data Terminal Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
	QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity used.	ID	2/2
		QTY02	380	QUANTITY Quantity.	R	1/15
		QTY03	C001	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes. KJ Kilosegments.	N/A	N/A
		QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.23.3 X12 Segment Layout / Packet Switching, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER PF Packet Switching Service Type.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID FS Fast Select. DT Data Transport. PC Protocol Conversion. HS Holding Time Standard. HP Holding Time Premium.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period.	AN	2/2
	SI05	234	PRODUCT/SERVICE ID 10 Discount. 13 Standard.	AN	1/48
	SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.23.3 X12 Segment Layout / Packet Switching, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4 or Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always Quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Billed Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		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 1910 Transaction Processing Code.	AN	1/48
		SLN11-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.23.3 X12 Segment Layout / Packet Switching, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER RP Rate Period.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID 10 Discount. 13 Standard.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.23.3 X12 Segment Layout / Packet Switching, Continued

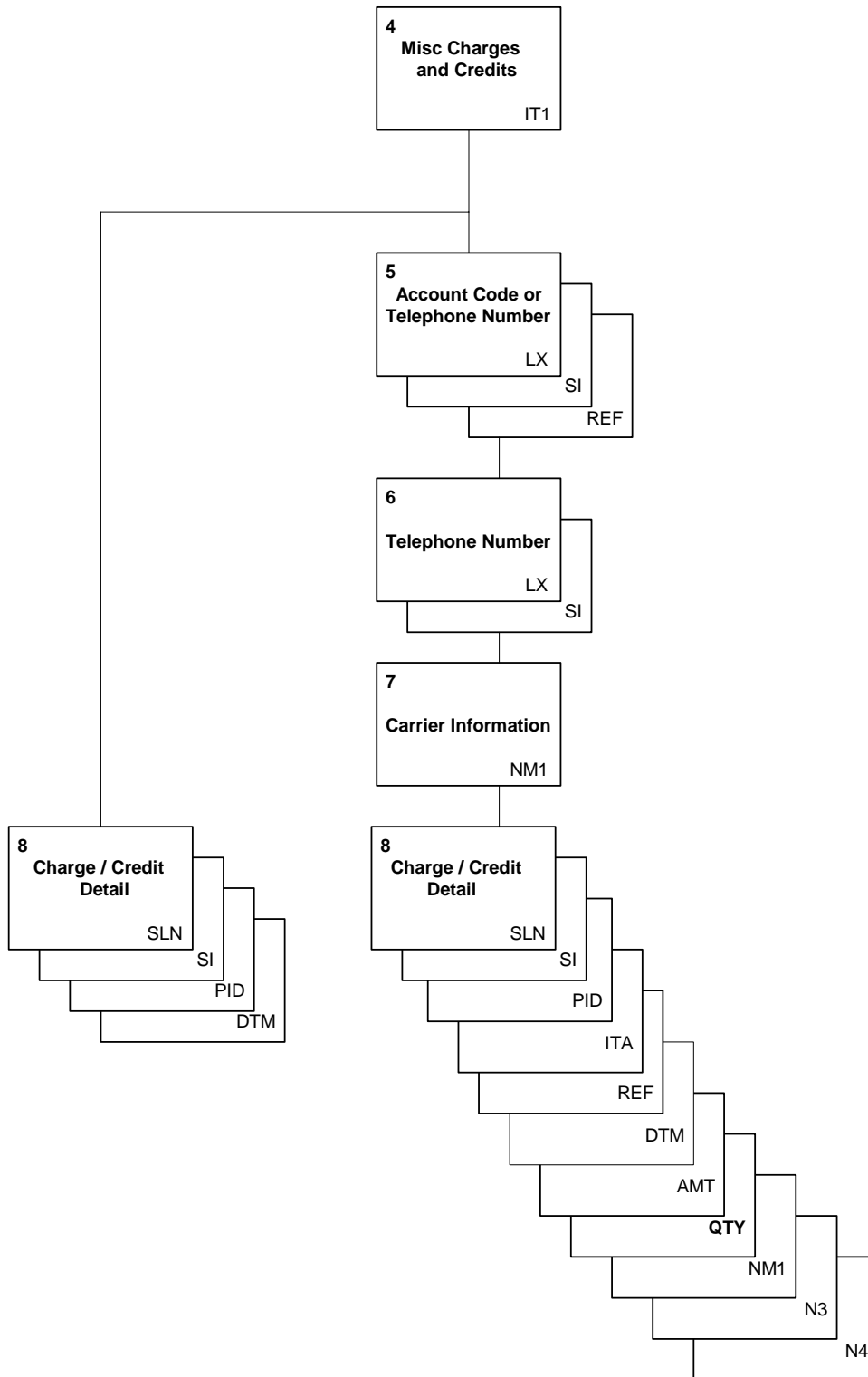
	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 9	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 9 Line Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	USD	USD01	662	RELATIONSHIP CODE O Information Only.	ID	1/1
		USD02	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the USD loop.	AN	1/20
		USD03	118	RATE Usage Rate.	R	1/9
		USD04	954	PERCENT Not Applicable.	R	1/10
		USD05	C001 355	COMPOSITE UNIT OF MEASURE C0 Calls. MJ Minutes. KJ Kilosegments.	ID	2/2
		USD06	380	QUANTITY Quantity Used.	R	1/15
		USD07	380	QUANTITY Not Applicable.	R	1/15
		USD08	782	MONETARY AMOUNT Not Applicable.	R	1/18
		USD09	610	AMOUNT Not Applicable.	N2	1/15
		USD10	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable.	ID	2/2
		USD11	740	RANGE MINIMUM Not Applicable.	R	1/20
		USD12	741	RANGE MAXIMUM Not Applicable.	R	1/20

4.23.3 X12 Segment Layout / Packet Switching, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER PF Packet Switching Service Type.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID FS Fast Select. DT Data Transport. PC Protocol Conversion. HS Holding Time Standard. HP Holding Time Premium.	AN	1/48
	SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
QTY	QTY01	673	QUANTITY QUALIFIER 99 Quantity used.	ID	2/2
	QTY02	380	QUANTITY Quantity.	R	1/15
	QTY03	C001	COMPOSITE UNIT OF MEASURE C0 Calls.	N/A	N/A
	QTY04	61	FREE-FORM MESSAGE Not Applicable.	AN	1/30

4.24 Miscellaneous Charges and Credits

4.24.1 811 Hierarchy Structure / Miscellaneous Charges and Credits



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4.24.2 Bill Section Technical Specifications / Miscellaneous Charges and Credits

Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (0520), billed amount, and service type.
L5	LX/SI	Occurs once per account code or telephone number. Contains account code and translated account code or telephone number.
L5	LX/REF	Occurs once per vendor account code or number. Contains vendor account code or number.
L6	LX/SI	Occurs once per telephone number when HL Level 5 contains an account code. Contains telephone number.
L7	NM1	Occurs once per carrier. Contains carrier name and carrier code, if available.
L8	SLN	Occurs once per itemized charge/credit. Contains the charge/credit amount.
	SI	Occurs Multiple times per SLN. Contains the Service Category Code or Advanced Data Services Information, if applicable
	PID	Occurs up to two times per SLN. Contains a descriptive phrase.
	INC	Occurs once per SLN Contains Installment Billing Information, if applicable
	ITA	Occurs once per SLN Contains discount or surcharge, if applicable
	REF	Occurs up to multiple times within the SLN. Contains contract information, PON or DLCI Circuit ID or Service Number Order, or Equipment Serial Number, if applicable.
	DTM	Occurs up to two times per SLN. Contains the charge/credit date or Service Order from and through dates.
	AMT	Occurs once per SLN Contains amount prior to fractionalization, if applicable.
	QTY	Occurs once per SLN Contains billable quantity, if applicable
	NM1	Occurs once per SLN. Contains Service Name, if applicable.
	N3	Occurs once within the NM1 loop Contains Service address, if applicable
	N4	Occurs once within NM1 loop. Contains Service city, and state, if applicable

**4.24.2 Bill Section Technical Specifications / Miscellaneous Charges and Credits (continued)**

**EDI Summary Bill**

The EDI Summary Bill presents the IT1 segment only.

**Comments and Exceptions**

- Some Service Providers may present this information in Itemized Calls, TCD/SI.
- SI02 at Level 5 is populated with DI when the Department Number Account Arrangement is used. See Section 4.26.
- Level 6 and Level 7 may be included to accommodate Department Number logic. See Section 4.26.
- Level 7 may be presented as LX/SI/NM1 to accommodate Department Number logic. See Section 4.26.
- Level 8 could be a child of Level 4, Level 5, Level 6, or Level 7.

**Summing Rules**

- IT104 equals the sum of all charges from Level 8 SLN segments.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

### 4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 0520 Miscellaneous Charges & Credits.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER ZZ Mutually Defined. Temporary Use for Telecom Service Type.	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 2 Other Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 5	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential Number assigned to the LX loop.	NO	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER AE Account Code. TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Account Code. Telephone Number.	AN	1/48
		SI04	1000	SERVICE CHARACTERISTICS QUALIFIER AP Translated Account Code/PIN.	AN	2/2
		SI05	234	PRODUCT/SERVICE ID Translated Account Code/PIN.	AN	1/48
		SI06-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		



4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

Level 5	Segment	Seg ID	D/E	Description	Type	Min/Max
	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 5 Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential Number assigned to the LX loop.	N0	1/6
	REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER 11 Account Number	ID	2/3
		REF02	127	REFERENCE IDENTIFICATION Vendor Account Number	AN	1/30
		REF03	352	DESCRIPTION Not Applicable	AN	1/80
		REF04	C040	REFERENCE IDENTIFIER Not Applicable	N/A	N/A

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 6	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 6 Sub-Category.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	LX	LX01	554	ASSIGNED NUMBER Sequential Number assigned to the LX loop.	NO	1/6
	SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
		SI02	1000	SERVICE CHARACTERISTICS QUALIFIER TN Telephone Number.	AN	2/2
		SI03	234	PRODUCT/SERVICE ID Telephone Number.	AN	1/48
		SI04-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 7	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 5 or Level 6.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 7 Type.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	NM1	NM101	98	ENTITY IDENTIFIER CODE CA Carrier.	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
		NM104	1036	NAME FIRST Not Applicable.	AN	1/25
		NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
		NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
		NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
NM108	66	IDENTIFICATION CODE QUALIFIER 41 Telecommunications Carrier Identification Code. 91 Assigned by Seller or Seller's Agent.	ID	1/2		
NM109	67	IDENTIFICATION CODE Carrier Code.	AN	2/80		
NM110	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2		
NM111	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3		

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4, Level 5, Level 6, or Level 7.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop or Bill Page and Item Number.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Value.	ID	2/2
		SLN06	212	UNIT PRICE Itemized Charge/Credit. Not Applicable.	R	1/17
		SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN09-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID Product/Service Code.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER CN Circuit Number	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Circuit Number	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER TE Transmission Speed	AN	2/2
	SI07	234	PRODUCT/SERVICE ID Circuit Speed	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER DE Primary/Originating Exchange Carrier Circuit (ECCKT) Data Link Connection Identifier (DLCI)	AN	2/2
	SI09	234	PRODUCT/SERVICE ID DLCI	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER DH Discount/Promo application code	AN	2/2
	SI11	234	PRODUCT/SERVICE ID A Discount- Account Level P Discount- Product Level	AN	1/48
	SI12	1000	SERVICE CHARACTERISTICS QUALIFIER SI Circuit Number Special ID	AN	2/2
	SI13	234	PRODUCT/SERVICE ID Circuit Reference/Carrier Identification Number	AN	1/48
	SI114	1000	SERVICE CHARACTERISTICS QUALIFIER OC Other Charges and Credits Category	AN	2/2
	SI15	234	Products/Service ID G01 Charge/Credit related to installment billing	AN	1/48
	SI16	1000	SERVICE CHARACTERISTICS QUALIFIER VK Virtual Connection Identifier	AN	2/2

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	SI17	234	Products/Service ID Virtual Connection Identifier	AN	1/48
	SI18	1000	SERVICE CHARACTERISTICS QUALIFIER VI Virtual Path Identifier	AN	2/2
	SI19	234	Products/Service ID Virtual Path Identifier	AN	1/48
	SI20	1000	SERVICE CHARACTERISTICS QUALIFIER PQ Major Product Code	AN	2/2
	SI21	234	PRODUCT/SERVICE ID Product Brand Indicator	AN	1/48
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-form.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE Not Applicable.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE Not Applicable.	AN	1/12
	PID05	352	DESCRIPTION Descriptive phrase.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3
INC	INC01	336	TERMS TYPE CODE 04 Deferred or Installment	ID	1/1
	INC02	C001 355	COMPOSITE UNIT OF MRASURE MO Months	ID	2/2
	INC03	380	QUANTITY Total Number of Installments	R	1/15
	INC04	380	QUANTITY Number of this Installment	R	1/15
	INC05	782	MONETARY VALUE Not applicable	R	1/18

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
ITA	ITA01	248	ALLOWANCE OR CHARGE INDICATOR N No Allowance or Charge A Allowance C Charge	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE TI Telecommunications Industry	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE ZZ Mutually Defined 04 Credit Customer Account 06 Charge to be Paid by Customer	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Charge Amount	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable	ID	1/1
	ITA09	332	PERCENT Discount Percent	R	1/6
	ITA10	380	QUANTITY Not Applicable	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2
	ITA12	380	QUANTITY Not Applicable	R	1/15
	ITA13	352	DESCRIPTION Not Applicable	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE DSC Discount SUR Surcharge	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable	AN	1/15
	ITA16	662	RELATIONSHIP CODE I Included O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable	ID	2/2





4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
REF	REF01	128	REFERANCE IDENTIFICATION QUALIFIER	ID	2/3
			CR Customer Reference Number		
			CIR Circuit Number		
			PO Purchase Order Number		
	REF02	127	REFERANCE IDENTIFICATION	AN	1/30
			Contract Information		
			Circuit Number		
			Purchase Order Number		
	REF03	352	DESCRIPTION		
			Not Applicable		
	REF04	CO40	REFERANCE IDENTIFIER	N/A	N/A
DTM	DTM01	374	DATE/TIME QUALIFIER	ID	3/3
			007 Effective.		
			150 Service Period Start		
			151 Service Period End		
	DTM02	373	DATE	DT	8/8
			Date of charge/credit.		
			Start Date		
DTM03	337	TIME	TM	4/8	
		Not Applicable.			
DTM04	623	TIME CODE	ID	2/2	
		Not Applicable.			
DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER	ID	2/3	
		Not Applicable.			
DTM06	1251	DATE TIME PERIOD	AN	1/35	
		Not Applicable.			
AMT	AMT01	522	AMOUNT QUALIFIER CODE	ID	1/3
			AP Amount Prior to Fractionalization		
	AMT02	782	Monetary value	R	1/18
		Amount Prior to Fractionalization			
AMT03	478	CREDIT/DEBIT FLAG CODE	ID	1/1	
		Not applicable			

4.24.3 X12 Segment Layout / Miscellaneous Charges and Credits, Continued

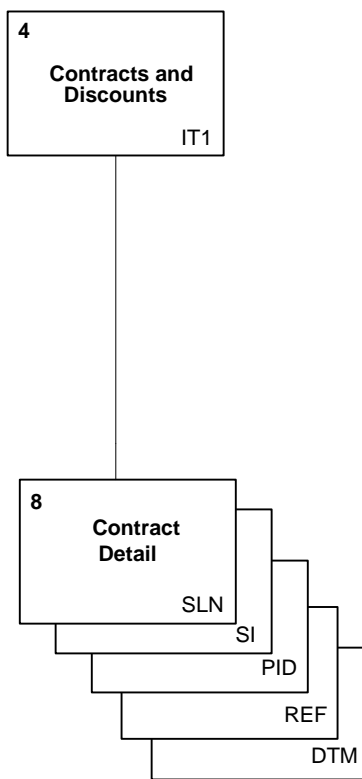
Segment	Seg ID	D/E	Description	Type	Min/Max
QTY	QTY01	673	QUANTITY QUALIFIER 94 Billable Quantity	ID	2/2
	QTY02	380	QUANTITY Quantity	R	1/15
	QTY03	C001 355	COMPOSITE UNIT OF MEASURE Not Applicable	ID	2/2
	QTY04	61	FREE-FORM MESSAGE Not Applicable	AN	1/30
NM1	NM101	98	ENTITY IDENTIFIER CODE IA Installed 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
	NM104	1036	NAME FIRST Not Applicable.	AN	1/25
	NM105	1037	NAME MIDDLE Not Applicable.	AN	1/25
	NM106	1038	NAME PREFIX Not Applicable.	AN	1/10
	NM107	1039	NAME SUFFIX Not Applicable.	AN	1/10
	NM108	66	IDENTIFICATION CODE QUALIFIER Not Applicable	ID	1/2
N3	N301	166	ADDRESS INFORMATION Remit to Address.	AN	1/55
	N302	166	ADDRESS INFORMATION Additional Street Address Information	AN	1/55
N4	N401	19	CITY NAME Remit to City	AN	2/30
	N402	156	STATE OR PROVINCE CODE Remit to State	ID	2/2
	N403	116	POSTAL CODE Not Applicable	ID	3/15
	N404	26	COUNTRY CODE Not Applicable.	ID	2/3
	N405	309	LOCATION QUALIFIER Not Applicable.	ID	1/2

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N406	310	LOCATION IDENTIFIER Not Applicable.	AN	1/30
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## 4.25 Contracts and Discounts

### 4.25.1 811 Hierarchy Structure / Contracts and Discounts



## 4.25.2 Bill Section Technical Specifications / Contracts and Discounts

### Segment Sequence and Usage

L4	IT1	Occurs once per Service Provider or Billing Arrangement. Contains the service rendered code (2110), billed amount, and service type.
L8	SLN	Occurs once per line item charge. Contains the charge amount and service rendered code, if applicable.
	SI	Occurs once per SLN. Contains the Service Activity Code, OC&C Category Code, OC&C Phrase Code or USOC, and Discount Code, if applicable.
	PID	Occurs once per SLN. Contains the line item description, if available.
	REF	Occurs once per SLN. Contains the Customer Reference Number and/or Contract Number, if available.
	DTM	Occurs once per SLN loop. Contains the Activity Date or Effective Date, if available.

### EDI Summary Bill

The EDI Summary Bill presents the IT1 segment only.

### Comments and Exceptions:

- A new Level 8 is generated when Customer Reference Number, or Contract Number, or Service Activity Code or Service Activity Date changes.
- None of the values at Level 8 are mandatory.
- The PID, DTM, REF, and SI, segments appear only when the data is available.
- The SI segment DE1000/234 paired information is presented when the associated data is available. The paired information may not be in the same positional placement as noted in the X12 Segment Layout.

### Summing Rules

- IT104 equals the sum of all SLN06 amounts.
- The IT104 billed amount is used to sum the Detail Area to the TDS segment amount.

4.25.3 X12 Segment Layout / Contracts and Discounts

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 4	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 1 or HL Level 2.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 4 Group.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure. 1 Additional subordinate HL data segment in this hierarchical structure.	ID	1/1
	IT1	IT101	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the IT1 loop.	AN	1/20
		IT102	358	QUANTITY INVOICED Always quantity of 1.	R	1/10
		IT103	355	UNIT OR BASIS FOR MEASUREMENT CODE M4 Monetary Value.	ID	2/2
		IT104	212	UNIT PRICE Bill Section Subtotal.	R	1/17
		IT105	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		IT106	235	PRODUCT/SERVICE ID QUALIFIER SV Service Rendered.	ID	2/2
		IT107	234	PRODUCT/SERVICE ID 2110 Contracts and Discounts.	AN	1/48
		IT108	235	PRODUCT/SERVICE ID QUALIFIER Not applicable	ID	2/2
		IT109	234	PRODUCT/SERVICE ID 2 Other Charges.	AN	1/48
		IT110-25		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.25.3 X12 Segment Layout / Contracts and Discounts, Continued

	Segment	Seg ID	D/E	Description	Type	Min/Max
Level 8	HL	HL01	628	HIERARCHICAL ID NUMBER Sequential Number assigned to the HL loop.	AN	1/12
		HL02	734	HIERARCHICAL PARENT ID NUMBER Data Element 628 from HL Level 4, Level 8.	AN	1/12
		HL03	735	HIERARCHICAL LEVEL CODE 8 Charge Detail.	ID	1/2
		HL04	736	HIERARCHICAL CHILD CODE 0 No subordinate HL segment in this hierarchical structure.	ID	1/1
	SLN	SLN01	350	ASSIGNED IDENTIFICATION Sequential Number assigned to the SLN loop or Bill Page and Item Number.	AN	1/20
		SLN02	350	ASSIGNED IDENTIFICATION Not Applicable.	AN	1/20
		SLN03	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN04	380	QUANTITY Always quantity of 1.	R	1/15
		SLN05	C001 355	COMPOSITE UNIT OF MEASURE M4 Monetary Amount.	ID	2/2
		SLN06	212	UNIT PRICE Charge/Credit Amount.	R	1/17
		SLN07	639	BASIS OF UNIT PRICE CODE Not Applicable.	ID	2/2
		SLN08	662	RELATIONSHIP CODE I Included.	ID	1/1
		SLN009-28		PRODUCT/SERVICE ID QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		

4.25.3 X12 Segment Layout / Contracts and Discounts, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
SI	SI01	559	AGENCY QUALIFIER CODE TI Telecommunications Industry.	ID	2/2
	SI02	1000	SERVICE CHARACTERISTICS QUALIFIER SA Service Activity Code.	AN	2/2
	SI03	234	PRODUCT/SERVICE ID A Add. D Delete. C Change.	AN	1/48
	SI04	1000	SERVICE CHARACTERISTICS QUALIFIER OC OC&C Category Code	AN	2/2
	SI05	234	PRODUCT/SERVICE ID Category Code.	AN	1/48
	SI06	1000	SERVICE CHARACTERISTICS QUALIFIER OD OC&C Description Code.	AN	2/2
	SI07	234	PRODUCT/SERVICE ID OC&C Phrase Code.	AN	1/48
	SI08	1000	SERVICE CHARACTERISTICS QUALIFIER SC Service Category Code.	AN	2/2
	SI09	234	PRODUCT/SERVICE ID USOC.	AN	1/48
	SI10	1000	SERVICE CHARACTERISTICS QUALIFIER DS Discount Planned Code.	AN	2/2
	SI11	234	PRODUCT/SERVICE ID Discount Code.	AN	1/48
	SI12-21		SERVICE CHARACTERISTICS QUALIFIER and PRODUCT/SERVICE ID Not Applicable.		
PID	PID01	349	ITEM DESCRIPTION TYPE F Free-form.	ID	1/1
	PID02	750	PRODUCT/PROCESS CHARACTERISTIC CODE Not Applicable.	ID	2/3
	PID03	559	AGENCY QUALIFIER CODE Not Applicable.	ID	2/2
	PID04	751	PRODUCT DESCRIPTION CODE Not Applicable.	AN	1/12
	PID05	352	DESCRIPTION OC&C Phrase Code description or Line item description.	AN	1/80
	PID06	752	SURFACE/LAYER/POSITION CODE Not Applicable.	ID	2/2

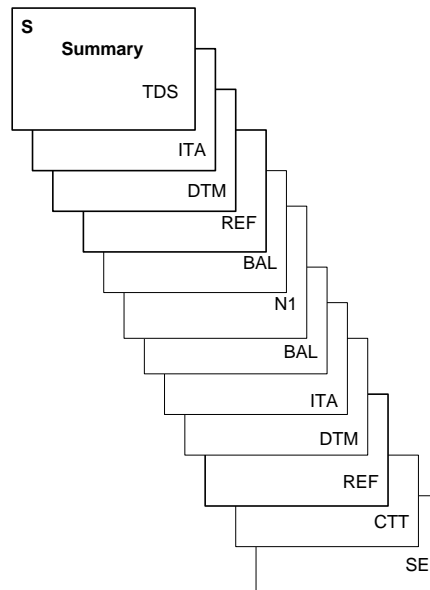


4.25.3 X12 Segment Layout / Contracts and Discounts, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	PID07	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	PID08	1073	YES/NO CONDITION OR RESPONSE CODE Not Applicable.	ID	1/1
	PID09	819	LANGUAGE CODE Not Applicable.	ID	2/3
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER CR Customer Reference Number. CT Contract Number.	ID	2/3
	REF02	127	REFERENCE IDENTIFICATION Customer Reference Number. Contract Number.	AN	1/30
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A
DTM	DTM01	374	DATE/TIME QUALIFIER 007 Effective.	ID	3/3
	DTM02	373	DATE Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35

## 4.26 Summary

### 4.26.1 811 Hierarchy Structure / Summary



#### 4.26.2 Bill Section Technical Specifications / Summary

##### Segment Sequence and Usage

SUM	TDS	Occurs once in the summary area. Contains the total current month charge amount.
	ITA	Occurs once per late payment charge. Contains late payment charge(s), if applicable.
	DTM	Occurs once per ITA (late payment charge). Contains late transaction date, if applicable.
	REF	Occurs once per ITA (late payment charge). Contains Bill Identification number, if applicable.
	BAL	Occurs up to four times in the summary area. Contains the total amount previously billed. Contains the total adjustment amount. Contains the total payment amount. Contains the total transaction amount.
	N1	Occurs once per Service Provider PayTo Provider if applicable. Contains the Provider name and code.
	BAL	Occurs once per PayTo Provider. Contains minimum amount due to avoid disconnection.
	ITA	Occurs once per Service Provider adjustment. Contains adjustment amount and code.
	DTM	Occurs once per ITA (adjustment). Contains the date of the adjustment.
	REF	Occurs once per ITA (adjustment). Contains Bill Identification number, if applicable.
	CTT	Occurs once per summary area. Contains hash totals for control purposes.
	SE	Occurs once per transaction set. Contains transaction set control information.

##### EDI Summary Bill

The transaction set's Summary area is identical for the EDI Summary Bill and the EDI Detail Bill.

##### Comments and Exceptions

- Every 811 transaction set contains a Summary area.
- Late Payment Charge is presented in the ITA segment following the TDS segment.
- A Late Payment Charge adjustment is presented in the N1 loop ITA segment.

##### Summing Rules

- The TDS is equal to the sum of the IT104 amounts at Level 4 plus TXI and ITA amounts from Level 1 or Level 2.
- The BAL segment containing total transaction amount equals the sum of the TDS amount, the ITA amount, the Previously Billed BAL amount, the Net Adjustment BAL amount, and the Total Payment BAL amount.
- The above BAL segment summing rule (Summing to Total Transaction Amount) is not applicable to EDI 811 Memorandum.
- The Net Adjustment BAL equals the sum of all ITA segment amounts within the N1 loop.
- The CTT segment hash total contains the sum of all IT1 segment amounts without regard to decimal points and

signs.

4.26.3 X12 Segment Layout

Segment	Seg ID	D/E	Description	Type	Min/Max
TDS	TDS01	610	AMOUNT Total Current Charges	N2	1/15
	TDS02	610	AMOUNT Not Applicable	N2	1/15
	TDS03	610	AMOUNT Not Applicable	N2	1/15
	TDS04	610	AMOUNT Not Applicable	N2	1/15
ITA	ITA01	248	ALLOWANCE OR CHARG INDICATOR C Charge.	ID	1/1
	ITA02	559	AGENCY QUALIFIER CODE T1 Telecommunications Industry.	ID	2/2
	ITA03	560	SPECIAL SERVICES CODE Not Applicable.	ID	2/10
	ITA04	331	ALLOWANCE OR CHRG METHOD OF HANDLING CODE 06 Charge to be Paid by Customer.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Not Applicable.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE LPC Late Payment Charge.	ID	3/3

4.26.3 X12 Segment Layout / Summary, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE A Add.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
DTM	DTM01	374	DATE/TIME QUALIFIER 007 Effective.	ID	3/3
	DTM02	373	DATE Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER 11 Account Number.	ID	2/3
	REF02	127	REFERENCE IDENTIFICATION Billing Identification Number	AN	1/30
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A
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 Amount.	R	1/18
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	R	1/18

Amount.  
 4.26.3 X12 Segment Layout / Summary, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max	
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 Amount.	R	1/18	
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 Amount.	R	1/18	
N1	N101	98	ENTITY IDENTIFIER CODE	ID	2/3	
			SJ Service Provider.			
			87 Pay-to Provider			
	N102	93	NAME Service provider or Pay to Provider.	AN	1/60	
N103	66	IDENTIFICATION CODE QUALIFIER 42 Telecommunications Pseudo Carrier Identification Code.	ID	1/2		
N104	67	IDENTIFICATION CODE	AT&T codes:	AN	2/80	
			00IL			AT&T Illinois.
			00IN			AT&T Indiana.
			00MI			AT&T Michigan.
			00OH			AT&T Ohio.
00WI	AT&T Wisconsin.					
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 Amount.	R	1/18	
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 Not Applicable.	ID	2/10	

4.26.3 X12 Segment Layout / Summary, Continued

	ITA04	331	ALLOWANCE OR CHRГ METHOD OF HANDLING CODE ZZ Mutually Defined.	ID	2/2
	ITA05	341	ALLOWANCE OR CHARGE NUMBER Not Applicable.	AN	1/16
	ITA06	359	ALLOWANCE OR CHARGE RATE Not Applicable.	R	1/15
	ITA07	360	ALLOWANCE OR CHARGE TOTAL AMOUNT Amount.	N2	1/15
	ITA08	378	ALLOWANCE/CHARGE PERCENT QUALIFIER Not Applicable.	ID	1/1
	ITA09	332	PERCENT Not Applicable.	R	1/6
	ITA10	380	QUANTITY Not Applicable.	R	1/15
	ITA11	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	ITA12	380	QUANTITY Not Applicable.	R	1/15
	ITA13	352	DESCRIPTION Text description.	AN	1/80
	ITA14	150	SPECIAL CHARGE OR ALLOWANCE CODE AAJ Adjustments. TPP Transfer Payment. TR1 Transferred Charges or Credit from another account or invoice. TR2 Transferred Charges or Credit to another account or invoice. RFD Refund. TCB Telegram Chargeback. LPC Late Payment Charge.	ID	3/3
	ITA15	822	SOURCE SUBQUALIFIER Not Applicable.	AN	1/15
	ITA16	662	RELATIONSHIP CODE O Information Only.	ID	1/1
	ITA17	355	UNIT BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
DTM	DTM01	374	DATE/TIME QUALIFIER 007 Effective.	ID	3/3
	DTM02	373	DATE Date.	DT	8/8

4.26.3 X12 Segment Layout / Summary, Continued

	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
REF	REF01	128	REFERENCE IDENTIFICATION QUALIFIER 11 Account Number.	ID	2/3
	REF02	127	REFERENCE IDENTIFICATION Billing Identification Number	AN	1/30
	REF03	352	DESCRIPTION Not Applicable.	AN	1/80
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A
CTT	CTT01	354	NUMBER OF LINE ITEMS Number of IT1 segments in this Transaction Set.	N0	1/6
	CTT02	347	HASH TOTAL Sum of quantity invoiced (IT104) field from all IT1 segments, without regard to decimal points or signs.	R	1/10
	CTT03	81	WEIGHT Not Applicable.	R	1/10
	REF04	C040	REFERENCE IDENTIFIER Not Applicable.	N/A	N/A
CTT	CTT01	354	NUMBER OF LINE ITEMS Number of IT1 segments in this Transaction Set.	N0	1/6
	CTT02	347	HASH TOTAL Sum of quantity invoiced (IT104) field from all IT1 segments, without regard to decimal points or signs.	R	1/10
	CTT03	81	WEIGHT Not Applicable.	R	1/10
	CTT04	355	UNIT OR BASIS FOR MEASUREMENT CODE Not Applicable.	ID	2/2
	CTT05	183	VOLUME Not Applicable.	R	1/8
	CTT06	355	UNIT OR BASIS FOR MEASUREMENT CODE	ID	2/2



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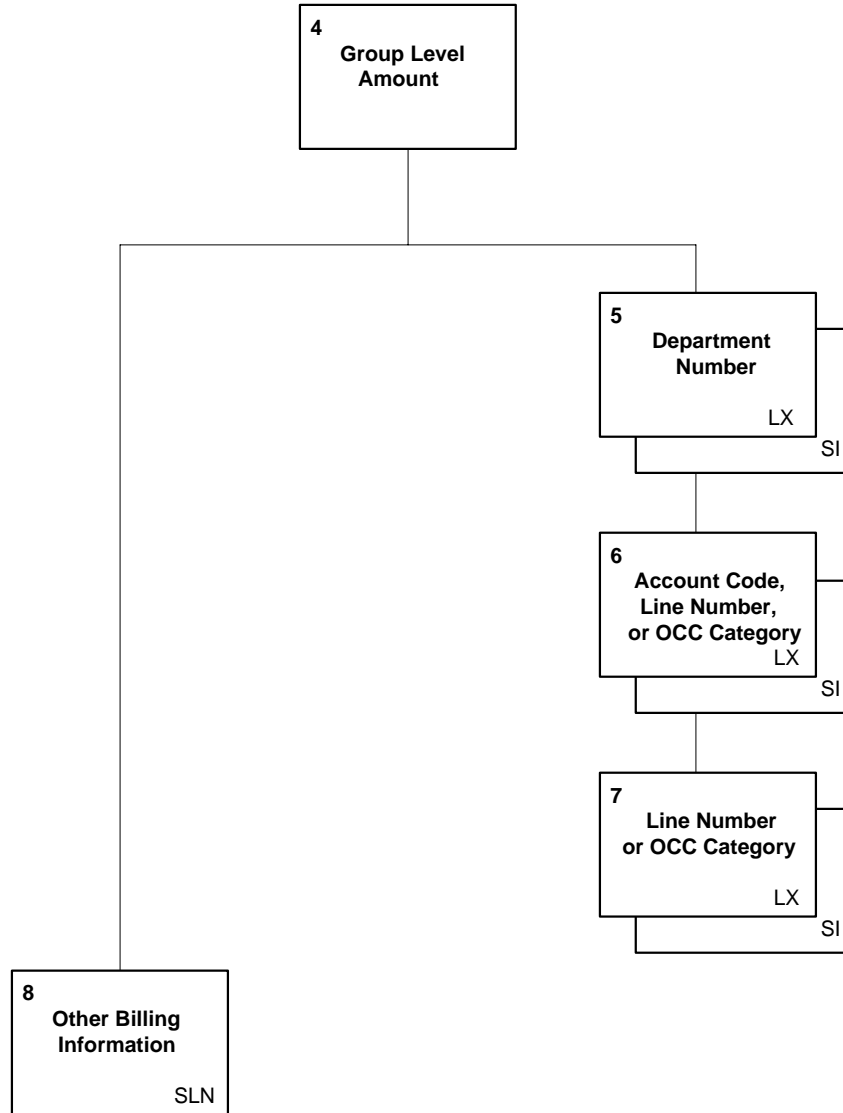
Not Applicable.

4.26.3 X12 Segment Layout / Summary, Continued

	CTT07	352	DESCRIPTION Not Applicable.	AN	1/80
SE	SE01	96	NUMBER OF INCLUDED SEGMENTS Number of Segments in this Transaction Set.	N0	1/10
	SE02	329	TRANSACTION SET CONTROL NUJMBER Control Number to uniquely identify the Transaction Set.	AN	4/9

4.27 Department Number Hierarchy

4.27.1 811 Hierarchy Structure / Department Number Hierarchy



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## 4.27.2 Bill Section Technical Specifications / Department Number Hierarchy

### Segment Sequence and Usage by Bill Section

#### Directory Assistance

L5	LX/SI	Occurs once per department number. Contains the department number.
L6	LX/SI	Occurs once per line number. Contains the line number.
	QTY	Occurs once per DA type. Contains the number of DA calls made by DA type.
	SI	Occurs once per QTY. Contains the DA type.
L8		See Directory Assistance Bill Section.

#### Local Usage - Message

L5	LX/SI	Occurs once per department number. Contains the department number
L6	LX/SI	Occurs once per line number. Contains the line number.
	AMT	Occurs once per line number. Contains line number subtotal before discounts are applied.
	QTY	Occurs up to two times per line number. Contains the number of calls/minutes by line number.
	SI	Occurs once per QTY segment. Contains usage plan code and directory assistance code, if applicable.
L8		See Local Usage Bill Section.

#### Local Usage - Measured

L5	LX/SI	Occurs once per department number. Contains the department number.
L6	LX/SI	Occurs once per line number. Contains the line number.
	AMT	Occurs once per line number. Contains the line number subtotal before discounts are applied.
	QTY	Occurs once per line number Contains the number of calls/minutes by line number.
	SI	Occurs once per QTY segment. Contains band information, usage plan code, and directory assistance code, if applicable.
L8		See Local Usage Bill Section.

#### Itemized Calls

L5	LX/SI	Occurs once per department number. Contains the department number.
L6	LX/SI	Occurs once per account code or line number. Contains the account code or line number.
L7	LX/SI	Occurs once per line number. Contains the line number.
L8 & L9		See Itemized Call Bill Section.

---

**4.27.2 Bill Section Technical Specifications / Department Number Hierarchy, Continued Other Charges & Credits**

- |    |       |   |
|----|-------|---|
| L5 | LX/SI | Occurs once per department number.<br>Contains the department number.                         |
| L6 | LX/SI | Occurs once per line number or circuit number.<br>Contains the line number or circuit number. |

If line number or circuit number information is not applicable, the following Level 6 structure may be presented.

- |    |       |  |
|----|-------|--|
| L6 | LX/SI | Occurs once per Service Activity Type.<br>Contains Service Activity Type if available.   |
|    | REF   | Occurs one or more times per LX loop.<br>Contains the Service Order Number and/or Purchase Order Number.<br>and/or Customer Reference Number and/or Contract Number, if available. |
|    | DTM   | Occurs once per LX loop.<br>Contains the Activity Date or Effective Date, if available.  |

Level 7 is presented when Level 6 contains a line number or circuit number.

- |    |       |  |
|----|-------|--|
| L7 | LX/SI | Occurs once per Service Activity Type.<br>Contains Service Activity Type, if available.  |
|    | REF   | Occurs one or more times per LX loop.<br>Contains the Service Order Number and/or Purchase Order Number.<br>and/or Customer Reference Number and/or Contract Number, if available. |
|    | DTM   | Occurs once per LX loop.<br>Contains the Activity Date or Effective Date, if available.  |
| L8 |       | See Other Charges & Credits Bill Section.  |

**Interexchange Carrier Invoice**

- |    |       |   |
|----|-------|---|
| L5 | LX/SI | Occurs once per department number.<br>Contains the department number.                     |
| L6 | LX/SI | Occurs once per account code or line number.<br>Contains the account code or line number. |
| L7 | LX/SI | Occurs once per line number.<br>Contains the line number.                                 |
| L9 |       | See Interexchange Carrier Invoice Bill Section.   |

**Miscellaneous Charges & Credits**

- |    |       |   |
|----|-------|---|
| L5 | LX/SI | Occurs once per department number.<br>Contains the department number.                     |
| L6 | LX/SI | Occurs once per account code or line number.<br>Contains the account code or line number. |
| L7 | LX/SI | Occurs once per line number.<br>Contains the line number.                                 |
| L8 |       | See Miscellaneous Charges & Credits Bill Section.   |

**Comments and Exceptions**

- If a customer account has an associated department number, Level 5 contains the department number.
- The information contained in Levels 5 and 6 move to Levels 6 and 7 respectively.
- Other Charges & Credits presentation is an exception to the above comment. Please review the OC&C department number structure.

## 4.28 Enveloping Layouts

### 4.28.3 X12 Segment Layout / Interchange Envelope (Interchange Control Header)

Segment	Seg ID	D/E	Description	Type	Min/Max
ISA	ISA01	I01	AUTHORIZATION INFORMATION QUALIFIER 00 No Authorization information present (No Meaningful Information in I02).	ID	2/2
	ISA02	I02	AUTHORIZATION INFORMATION Not Used by AT&T.	AN	10/10
	ISA03	I03	SECURITY INFORMATION QUALIFIER 00 No Security information is present (No Meaningful Information in I04).	ID	2/2
	ISA04	I04	SECURITY INFORMATION Not Used by AT&T.	AN	10/10
	ISA05	I05	INTERCHANGE ID QUALIFIER 01 Duns Number.	ID	2/2
	ISA06	I06	INTERCHANGE SENDER ID AT&T Duns Number.	AN	15/15
	ISA07	I05	INTERCHANGE ID QUALIFIER Trading Partner Qualifier (TP Profile data).	ID	2/2
	ISA08	I07	INTERCHANGE RECEIVER ID Trading Partner Company ID (TP Profile data).	AN	15/15
	ISA09	I08	INTERCHANGE DATE Date of the Interchange.	DT	6/6
	ISA10	I09	INTERCHANGE TIME Time of the Interchange.	TM	4/4
	ISA11	I10	INTERCHANGE CONTROL STANDARDS IDENTIFIER U U.S. EDI Community of ASC X12, TDCC and UCS.	ID	1/1
	ISA12	I11	INTERCHANGE CONTROL VERSION NUMBER 00401 DSTU Approved for Publication by ASC X12 Procedures Review Board through October 1997.	ID	5/5
	ISA13	I12	INTERCHANGE CONTROL NUMBER Control Number assigned by the Interchange sender to uniquely identify the Interchange.	N0	9/9
	ISA14	I13	ACKNOWLEDGEMENT REQUESTED 0 No Acknowledgment Requested.	ID	1/1
	ISA15	I14	USAGE INDICATOR T Test Data. P Production Data.	ID	1/1
	ISA16	I15	COMPONENT ELEMENT SEPARATOR The delimiter used to separate component data elements within a composite data structure.	AN	1/1

4.28.1 X12 Segment Layout / Interchange Envelope, Continued  
 (Interchange Control Trailer)

Segment	Seg ID	D/E	Description	Type	Min/Max
IEA	IEA01	I16	NUMBER OF INCLUDED FUNCTIONAL GROUPS A count of the number of Functional Groups included in an Interchange.	N0	1/5
	IEA02	I12	CONTROL NUMBER Control Number to Uniquely Identify the Interchange. This number should be identical to the ISA13 value.	N0	9/9
GS	GS01	479	FUNCTIONAL IDENTIFIER CODE CI Consolidated Service Invoice/Statement (811).	ID	2/2
	GS02	142	APPLICATION SENDER'S CODE AT&T Duns Number.	AN	2/15
	GS03	124	APPLICATION RECEIVER'S CODE Trading Partner Identifier.	AN	2/15
	GS04	373	DATE Date GS was created.	DT	8/8
	GS05	337	TIME Time GS was created.	TM	4/8
	GS06	28	GROUP CONTROL NUMBER Control Number to Uniquely Identify the Functional Group.	N0	1/9
	GS07	455	RESPONSIBLE AGENCY CODE X ASC X12.	ID	1/2
	GS08	480	VERSION/RELEASE/INDUSTRY IDENTIFIER CODE 004010.	AN	1/12
<b>Functional Group Trailer</b>					
GE	GE01	97	NUMBER OF TRANSACTION SETS INCLUDED Total Number of Transaction Sets included in the Functional Group.	N0	1/6
	GE02	28	GROUP CONTROL NUMBER Control Number to Uniquely Identify the Functional Group. This number should be identical to the GS06 value.	N0	1/9

## 4.29 Functional Acknowledgment

### 4.29.1 X12 Segment Layout / Functional Acknowledgment

Segment	Seg ID	D/E	Description	Type	Min/Max
ST	ST01	143	TRANSACTION SET IDENTIFIER CODE 997 Functional Acknowledgment.	ID	3/3
	ST02	329	TRANSACTION SET CONTROL NUMBER Control Number to Uniquely Identify the Transaction Set.	AN	4/9
AK1	AK101	479	FUNCTIONAL IDENTIFIER CODE	ID	2/2
			CI Consolidated Service Invoice/Statement (811).		
			RA Payment Order/Remittance Advice (820).		
		TX Text Message (864).			
	AK102	28	GROUP CONTROL NUMBER Control Number From GS Envelope of Original Transmission.	N0	1/9
AK9	AK901	715	FUNCTIONAL GROUP ACKNOWLEDGE CODE	ID	1/1
			A Accepted.		
			R Rejected.		
	AK902	97	NUMBER OF TRANSACTION SETS INCLUDED From the Functional Group Being Acknowledged.	N0	1/6
	AK903	123	NUMBER OF RECEIVED TRANSACTION SETS From the Functional Group Being Acknowledged.	N0	1/6
	AK904	2	NUMBER OF ACCEPTED TRANSACTION SETS From the Functional Group Being Acknowledged.	N0	1/6
SE	SE01	96	NUMBER OF INCLUDED SEGMENTS Number of Segments in this Transaction Set including the ST and SE Segments.	N0	1/10
	SE02	329	TRANSACTION SET CONTROL NUMBER Control Number to Uniquely Identify the Transaction Set. This number should be identical to the ST02 value.	AN	4/9

## 4.30 Text Message

### Industry Overview

The Text Message (864) transaction set transmits codes, table descriptions, and other one-time communications from the telecommunications service provider to the customer. Such codes and tables may be required by the customer to interpret various data elements sent in the Consolidated Service Invoice/Statement (811) transaction set or to correctly encode service requests.

The Heading Area provides the text provider's (sender's) and recipient's identification, as well as the message's nature.

The Heading contains the message type for which a description is being provided, effective date and time, and an administrative contact name and number. The BMG identifies the transaction set's nature, whether for table information or text messages.

The Detail Area provides the code and its descriptive text to further support the transaction set's message type. Miscellaneous text may also be provided for one-time communications, such as promotional information or messages required by regulatory bodies.

The Summary Area contains the transmitted segments' count (including the ST and SE segments) and indicates the end of the transaction set.

### Our Application

AT&T uses the 864 transaction set to provide USOC information to the EDI 811 customer. The transaction set contains unique USOCs presented within the customer's 811 billing information and customer service record detail. The USOC information is formatted to one EDI 864 transaction set per customer interchange (ISA).

The MIT loop is created for each unique USOC. The reference identification in MIT01 is the USOC. The MSG segment contains the USOC description.

All EDI 811 customers receive the 864 transaction set (with the exception of summary billed EDI). The 811 and 864 transaction sets are enveloped within the same interchange.



4.30.1 X12 Segment Layout / Text Message

Segment	Seg ID	D/E	Description	Type	Min/Max
ST	ST01	143	TRANSACTION SET IDENTIFIER CODE	ID	3/3
			864 Text Message.		
			997 Functional Acknowledgment.		
	ST02	329	TRANSACTION SET CONTROL NUMBER Control Number to Uniquely Identify the Transaction Set.	AN	4/9
BMG	BMG01	353	TRANSACTION SET PURPOSE CODE	ID	2/2
			SU Status Update.		
	BMG02	352	DESCRIPTION SC Service Codes.	AN	1/80
	BMG03	640	TRANSACTION TYPE CODE CI Consolidated Invoice.	ID	2/2
DTM	DTM01	374	DATE/TIME QUALIFIER	ID	3/3
			007 Effective.		
	DTM02	373	DATE Date.	DT	8/8
	DTM03	337	TIME Not Applicable.	TM	4/8
	DTM04	623	TIME CODE Not Applicable.	ID	2/2
	DTM05	1250	DATE TIME PERIOD FORMAT QUALIFIER Not Applicable.	ID	2/3
	DTM06	1251	DATE TIME PERIOD Not Applicable.	AN	1/35
N1	N101	98	ENTITY IDENTIFIER CODE	ID	2/3
			FR Message From.		
	N102	93	NAME AT&T.	AN	1/60
	N103	66	IDENTIFICATION CODE QUALIFIER Not Applicable.	ID	1/2
	N104	67	IDENTIFICATION CODE Not Applicable.	AN	2/80
	N105	706	ENTITY RELATIONSHIP CODE Not Applicable.	ID	2/2
	N106	98	ENTITY IDENTIFIER CODE Not Applicable.	ID	2/3

4.30.1 X12 Segment Layout / Text Message, Continued

Segment	Seg ID	D/E	Description	Type	Min/Max
MIT	MIT01	127	REFERENCE IDENTIFICATION USOC.	AN	1/30
	MIT02	352	DESCRIPTION Not Applicable.	AN	1/80
	MIT03	931	PAGE WIDTH Not Applicable.	N0	1/3
	MIT04	932	PAGE LENGTH LINES Not Applicable.	N0	1/3
MSG	MSG01	933	FREE-FORM MESSAGE TEXT USOC Description.	AN	1/264
	MSG02	934	PRINTER CARRIAGE CONTROL CODE Not Applicable.	ID	2/2
	MSG03	1470	NUMBER Not Applicable.	N0	1/9
SE	SE01	96	NUMBER OF INCLUDED SEGMENTS Number of Segments in this Transaction Set including the ST and SE Segments.	N0	1/10
	SE02	329	TRANSACTION SET CONTROL NUMBER Control Number to Uniquely Identify the Transaction Set. This number should be identical to the ST02 value.	AN	4/9

## 5 Appendices

### 5.1 Appendix A

#### 5.1.1 Appendix A / Consolidated Service Invoice - Statement

##### Heading

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
010	ST	Transaction Set Header	M	1	
020	BIG	Beginning Segment for Invoice	M	1	
030	NTE	Note/Special Instruction	O	100	
040	CUR	Currency	O	1	
050	REF	Reference Identification	O	>1	
060	PER	Administrative Communications Contact	O	3	
070	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
080	DTM	Date/Time Reference	O	10	
090	TXI	Tax Information	O	>1	
		LOOP ID - N1			>1
100	N1	Name	O	1	
110	N2	Additional Name Information	O	2	
120	N3	Address Information	O	2	
130	N4	Geographic Location	O	1	
140	REF	Reference Identification	O	12	
150	PER	Administrative Communications Contact	O	3	
155	DMG	Demographic Information	O	1	
		LOOP ID - FA1			>1
170	FA1	Type of Financial Accounting Data	O	1	
180	FA2	Accounting Data	M	>1	

Appendix A / Consolidated Service Invoice – Statement, Continued

Detail

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
		LOOP ID - HL			>1
010	HL	Hierarchical Level	M	1	
		LOOP ID - LX			>1
020	LX	Assigned Number	O	1	
025	VEH	Vehicle Information	O	1	
030	SI	Service Characteristic Identification	O	8	
040	PID	Product/Item Description	O	200	
045	MEA	Measurements	O	20	
050	REF	Reference Identification	O	>1	
060	AMT	Monetary Amount	O	5	
070	DTM	Date/Time Reference	O	8	
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	
120	N2	Additional Name Information	O	2	
130	N3	Address Information	O	2	
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	
175	DMG	Demographic Information	O	1	
		LOOP ID - ITA			>1
180	ITA	Allowance, Charge or Service	O	1	
190	DTM	Date/Time Reference	O	1	
200	TXI	Tax Information	O	>1	

Appendix A / Consolidated Service Invoice – Statement, Continued

Detail, Continued

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
LOOP ID - IT1					999999
210	IT1	Baseline Item Data (Invoice)	O	1	
220	SI	Service Characteristic Identification	O	2	
230	PID	Product/Item Description	O	200	
235	MEA	Measurements	O	20	
240	INC	Installment Information	O	1	
250	TXI	Tax Information	O	>1	
260	REF	Reference Identification	O	8	
270	DTM	Date/Time Reference	O	10	
280	MSG	Message Text	O	>1	
285	AMT	Monetary Amount	O	1	
LOOP ID - QTY					>1
290	QTY	Quantity	O	1	
300	SI	Service Characteristic Identification	O	1	
LOOP ID - ITA					10
310	ITA	Allowance, Charge or Service	O	1	
320	DTM	Date/Time Reference	O	1	
330	TXI	Tax Information	O	>1	
LOOP ID - NM1					>1
340	NM1	Individual or Organizational Name	O	1	
350	N2	Additional Name Information	O	2	
360	N3	Address Information	O	2	
370	N4	Geographic Location	O	1	
380	PER	Administrative Communications Contact	O	3	
385	NX2	Location ID Component	O	>1	
387	DMG	Demographic Information	O	1	

Appendix A / Consolidated Service Invoice – Statement, Continued

Detail, Continued

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
LOOP ID - SLN					>1
390	SLN	Subline Item Detail	O	1	
400	SI	Service Characteristic Identification	O	2	
410	PID	Product/Item Description	O	200	
415	MEA	Measurements	O	20	
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	
470	PER	Administrative Communications Contact	O	3	
480	DTM	Date/Time Reference	O	10	
490	AMT	Monetary Amount	O	15	
500	MSG	Message Text	O	>1	
LOOP ID - QTY					>1
510	QTY	Quantity	O	1	
520	SI	Service Characteristic Identification	O	1	
LOOP ID - NM1					>1
530	NM1	Individual or Organizational Name	O	1	
540	N2	Additional Name Information	O	2	
550	N3	Address Information	O	2	
560	N4	Geographic Location	O	1	
570	REF	Reference Identification	O	8	
580	PER	Administrative Communications Contact	O	3	
585	DMG	Demographic Information	O	1	

Appendix A / Consolidated Service Invoice – Statement, Continued

Detail, Continued

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
LOOP ID - TCD					>1
590	TCD	Itemized Call Detail	O	1	
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	
618	SI	Service Characteristic Identification	O	1	
LOOP ID - USD					>1
620	USD	Usage-Sensitive Detail	O	1	
625	SI	Service Characteristic Identification	O	2	
630	ITA	Allowance, Charge or Service	O	2	
640	TRF	Rating Factors	O	18	
LOOP ID - QTY					>1
650	QTY	Quantity	O	1	
660	SI	Service Characteristic Identification	O	1	
LOOP ID - III					>1
670	III	Information	O	1	
680	DTP	Date or Time or Period	O	5	
690	AMT	Monetary Amount	O	5	
700	PCT	Percent Amounts	O	5	
LOOP ID - LQ					>1
710	LQ	Industry Code	O	1	
720	AMT	Monetary Amount	O	5	
730	PCT	Percent Amounts	O	5	
LOOP ID - FA1					>1
740	FA1	Type of Financial Accounting Data	O	1	
750	FA2	Accounting Data	M	>1	

Appendix A / Consolidated Service Invoice – Statement, Continued

Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
010	TDS	Total Monetary Value Summary	M	1	
		LOOP ID - ITA			>1
020	ITA	Allowance, Charge or Service	O	1	
030	DTM	Date/Time Reference	O	1	
035	REF	Reference Identification	O	5	
		LOOP ID - BAL			>1
040	BAL	Balance Detail	O	1	
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	
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	
102	AMT	Monetary Amount	O	1	
103	SI	Service Characteristic Identification	O	2	
105	REF	Reference Identification	O	5	
106	CUR	Currency	O	1	
		LOOP ID - LX			>1
107	LX	Assigned Number	O	1	
108	REF	Reference Identification	O	1	
		LOOP ID - AMT			>1
109	AMT	Monetary Amount	O	1	
110	DTM	Date/Time Reference	O	1	
		LOOP ID - ITA			>1
111	ITA	Allowance, Charge or Service	O	1	
112	DTM	Date/Time Reference	O	1	
115	CTT	Transaction Totals	O	1	
120	SE	Transaction Set Trailer	M	1	



## 5.1.2 Appendix A / 864 Text Message

### Heading

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
010	ST	Transaction Set Header	M	1	
020	BMG	Beginning Segment For Text Message	M	1	
030	DTM	Date/Time Reference	O	10	
		LOOP ID - N1			200
040	N1	Name	O	1	
050	N2	Additional Name Information	O	2	
060	N3	Address Information	O	2	
070	N4	Geographic Location	O	1	
080	REF	Reference Identification	O	12	
090	PER	Administrative Communications Contact	O	3	

Appendix A / 864 Text Message, Continued

Detail

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
		LOOP ID - MIT			>1
010	MIT	Message Identification	M	1	
		LOOP ID - N1			200
020	N1	Name	O	1	
030	N2	Additional Name Information	O	2	
040	N3	Address Information	O	2	
050	N4	Geographic Location	O	1	
060	REF	Reference Identification	O	12	
070	PER	Administrative Communications Contact	O	3	
080	MSG	Message Text	M	100000	

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Appendix A / 864 Text Message, Continued

Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max Use	Loop Repeat
010	SE	Transaction Set Trailer	M	1	

## 5.2 Appendix B / EDI Code Values

### DE 1000 DA Directory Assistance Category Code

#### DE 234 value

01	Local	14	Interstate beyond service area
02	Intrastate/Intraprovincial	15	Intrastate Operator Handled
03	Intrastate/IntraLATA	16	Interstate, Canada and/or 809
04	Intrastate/InterLATA	17	Multi-listing
05	Interstate/Interprovincial	18	Multi-listing by appointment
06	Interstate/IntraLATA	19	Call Credit
07	Interstate/InterLATA	20	Interstate Operator Handled
08	Corridor	21	Information Call Completion
09	411	22	Intrastate Call Completion
10	555	23	Interstate Call Completion
11	Both 411 and 555 combined	24	Name/Address
12	International	25	InterLATA
13	Intrastate beyond service area	30	555 Name/Address
		31	411 Name/Address
		32	Business Listing

### DE 1000 MT Message Type

#### DE 234 value

CC	Calling Card	SC	Special Collect
CL	Collect	SP	Sent Paid / DDD
CP	Coin Paid	TN	Third Number
RP	Receipt Paid		

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
[www.atis.org/atis/obf](http://www.atis.org/atis/obf)

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**Appendix B / EDI Code Values, Continued**

**DE 1000 OC Other Charges and Credits Category Code**

**DE 234 value**

A	A partial month charges or credits adjustment
A01	A partial month charges or credits adjustment
A02	Service billed before connection
A03	Service Outage/Interruption
A04	Suspension of Service
B	Charges or credits for a rate change
B01	Charge or credit related to rate change
B02	Carrier Access Line
B03	Rate changed to discount rate
C	Partial month charges or credits for Monthly recurring event additions, changes, or deletions
C01	Monthly recurring event additions, changes, or deletions
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	Adjustments for previously billed events
D01	Adjustment for previously billed event
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

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
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**Appendix B / EDI Code Values, Continued**

**DE 1000 OC Other Charges and Credits Category Code, Continued**

**DE 234 value, Continued**

E Credits due to refund

E01	Refund
E02	Interest
E03	Deposit
E04	Regulatory
E05	Overbilling

F Banking transaction charges or credits

F01	Banking transaction charges or credits
F02	Dishonored check/electronic funds transfer

G Charges or credits for installment billing transactions

G01	Charge or credit for installment billing
G02	Construction installation
G03	Transfer to a new number
G04	Repair
G05	Connection/equipment

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
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## Appendix B / EDI Code Values, Continued

### DE 1000 OC Other Charges and Credits Category Code, Continued

#### DE 234 value, Continued

H	Charges or credits for non-recurring events
H01	Charge or credit for non-recurring events
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
H09	One-time Primary Interexchange Carrier (PIC) activity (Invalid for Release 004010 or higher)
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	Charges or credits for Primary Interexchange Carrier (PIC) activity (Only valid Release 004010 or higher)
I01	Charge or credit for PIC activities
I02	Disputed amounts
I03	Carrier merger
I04	No selection
I05	Promotional PIC change

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
[www.atis.org/atis/obf](http://www.atis.org/atis/obf)

**Appendix B / EDI Code Values, Continued**

**DE 1000 RP Rate Period Code**

**DE 234 value**

01	Peak	08	Late Night
02	Off Peak	09	Regular (Non time of day WATS)
03	Day	10	Discount
04	Evening	11	Economy
05	Night/Weekend	12	Prime
06	Weekend (when separate from night)	13	Standard
07	Special Intrastate	14	Multi-period

**DE 1000 SA Service Activity Code**

**DE 234 value**

A	Add
C	Change
D	Delete

**DE 1000 SC Service Category Code (OCP Plan Code)**

**DE 234 value**

OL2++	Custom Discount Plan
OEZ++	Intralata Usage
WBKB+	Saver Pack
WBKL+	Local Saver Pack
WBKAT	Saver Plus
WBKUA	Local Saver Pack – Limited
WBKS3	Local Saver Pack 30 Line
WBKSU	Local Unlimited Line
SCFX1	Value Calling Plan
OGD1X, OGD2X	Value Calling Plan Super
VO8++	Value/LATA Calling Plan (Inward)
VCG++, VOP++	Value/LATA Calling Plan (Outward)
OFR++	Value Plus
OCPAT, OCPAD	AnyHour Saver
INTBO	Small Business Advantage
OCP1L	Pro WATS International Plus
OCPHM	Pro WATS Multi-Location
OZ4PW	Pro WATS Membership Plan

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at: [www.atis.org/atis/obf](http://www.atis.org/atis/obf)



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Appendix B / EDI Code Values, Continued

DE 1000 SC Service Category Code (OCP Plan Code), Continued

DE 234 value, Continued

HT1, HTA, HT9	Call Pak
OLKB1, OLKB2, OLKBX	Circle Calling Plan
OS3, TLX	Community Calling Service
DWV++	Discounted WATS Service
TOU++	Easy Pricing Optional Calling Plan
SC9	Extended Local Calling
TFX	Flex-A-Visit
RVJ	Flexible Calling Plan
OLH1X, GPD1X, GPD2X	Group Affinity Plan
GV61X	Group Affinity Plan - COINNET
ODVHH	Illinois Local Usage ICB
AJT++, GPD++, GV61X	IntraLATA Toll Option Plan
HT1, OC1, SCFX3, SCJ++	Intrastate Toll Option Plan
VDP++	ISDN Local Calling Value Plan
ODHB1, OLHXX	LATA Calling Plan
LCP	Local Calling Plus
TDX++	One-Way Toll
ONR++	OneSource/ValueLink Plus
OBK1X, OBK2X	Optional Community Calling Plan
IT8, OAPXX	Pick A Point
OCPO6	Reach Out America Evening, Day and Card Option
TS101	Reach Out State Basic
OCPA1	SelectSaver
HZ7, HZ8, HZ9, HX28	Tel-A-Visit
OC1,OC2,OC8,OS8,OS9	Tel-A-Visit
SCB	Tel-A-Visit, All hours
TBX,TDX,TFX,TGX,THX	Thrift Pak
OUM++, ONR++	ValueLink Plus
OOP++, OUT++, OVF++	ValueLink Premier
NS3, TUX	Value Visit
INTOA, RVG	Volume Discount

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
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**Appendix B / EDI Code Values, Continued**

**DE 1000 ST    Message Service Type**

**DE 234 value**

AH	Attendant Handled/Operator Handled	LI	Local Interrupt
AN	ANI (Automated Number ID)	LV	Local Verify
CA	On Demand Call Feature Activation	MC	Messenger Charge
CE	Cellular	MO	Mainland Originated
CF	Non-Dial Conference	NM	Non-Mainland Originated
CH	Non-Dial Conference Leg	ON	ONI (Operator Number ID)
CI	Dial Conference Bridge	PT	Prompter
CW	Call Forward	PV	Private Line
DI	Digital	RA	Network Remote Access
FC	Florida COCOTS	TA	Trace Activation
FE	Foreign Exchange	TG	Telegram
FX	Fax	VM	Voice Mail
IN	Inward Calls (excluding WATS/800)	WD	WATS Message Detail

**Note:** The complete listing of OBF codes (Section 10.4 of the industry guideline) is available on the internet at:  
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