



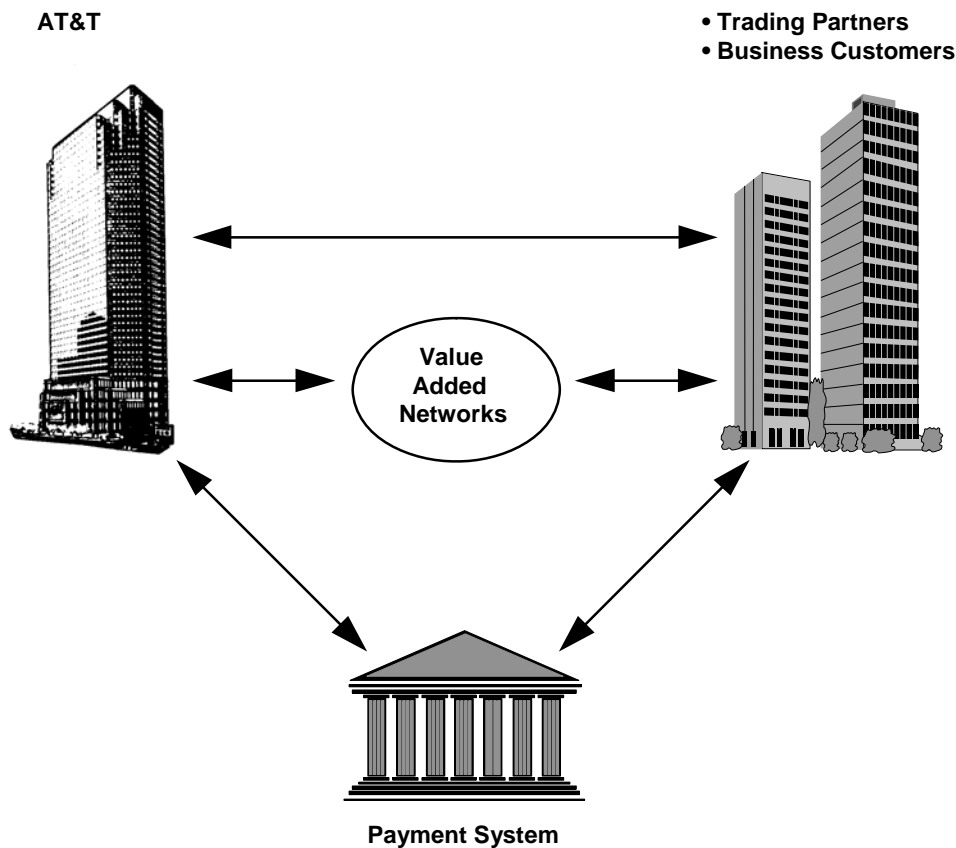
# Electronic Commerce Customer Guide

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## 811 Transaction Set (Version/Release 004010)

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Electronic Data Interchange - Electronic Funds Transfer



**Building Electronic Partnerships For The Future...Today**

**Release: December 2006**

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## Table of Contents

<b>1</b>	<b>EDI BILLING PROGRAM</b>	<b>2</b>
1.1	INTRODUCTION	2
1.2	EDI OVERVIEW	3
1.3	EDI DETAIL BILL	6
1.4	THE TELECOMMUNICATIONS INDUSTRY FORUM	6
1.5	CLEC CONTACTS FOR EDI	6
<b>2</b>	<b>EDI PROCESSING OVERVIEW</b>	<b>7</b>
2.1	SYSTEM OVERVIEW	7
2.2	CONNECT:DIRECT OR VALUE ADDED NETWORK	7
2.3	EDI BILLING TRANSMISSION	8
2.4	EDI ENVELOPING	8
2.5	EDI TRANSACTIONS	9
2.6	EDI ACKNOWLEDGMENT PROCESSING	9
<b>3</b>	<b>EDI IMPLEMENTATION STEPS</b>	<b>10</b>
3.1	REQUIRED FORMS	10
3.2	ESTABLISH TRADING PARTNER	11
3.3	LETTER OF AGENCY (LOA)	11
3.4	CONNECTIVITY	11
3.5	PARALLEL TRANSMISSIONS FOR TESTING CLEC APPLICATIONS	12
3.6	MAINTENANCE	12
<b>4</b>	<b>TECHNICAL SPECIFICATIONS</b>	<b>13</b>

## **1 EDI Billing Program**

### **1.1 Introduction**

This Implementation Guide describes the EDI Billing Products of AT&T 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 based on this document is 3 to 4 months, depending on a CLEC'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 the EDI Billing Products offered.

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

Section 2 describes how the EDI Billing Products are produced and transmitted, providing both a technical and non-technical understanding of the EDI Billing system.

#### **Section 3 EDI Implementation Steps**

Section 3 provides the steps to implement the 811 transaction set.

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

Section 4 furnishes detailed information on the structure of the EDI Detail Bill.

## 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 guideline development. The telecommunications industry group is the Ordering and Billing Forum (OBF). AT&T supports and participates 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.

Version/Release 004010 of the 811 Transaction Set is currently supported. See Section 4 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)
- Gateways (similar to VANs)

VANs and gateways are the most popular transmission route because they remove two communication barriers: time and protocol dependence. VANs and gateways 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.

Combination translator/application interface packages are available for PC-based systems from third party vendors. The CLEC application interface development 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.

### 1.3 EDI Detail Bill

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

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	Service subtotals for each service provider, plus supporting detail information (such as Call detail, Recurring Charges, Other Charges, Credit line items, and other billing data).
Summary	Bill balance, payment, and adjustment information.

### 1.4 The Telecommunications Industry Forum

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

### 1.5 CLEC Contacts for EDI

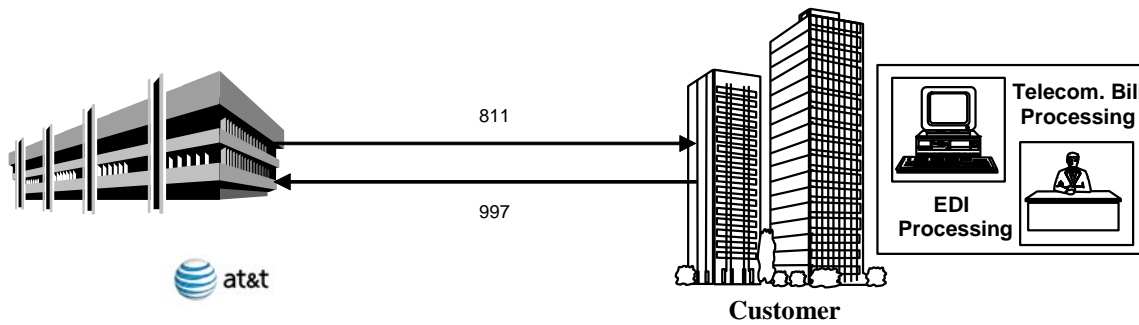
If you have questions about the EDI Billing Program, please contact your AT&T Account Representative or the Billing Products Help Desk at 1-(888) 800-6325.



## 2 EDI Processing Overview

### 2.1 System Overview

The following illustrates the exchange of data using the AT&T EDI Billing System.



Legend

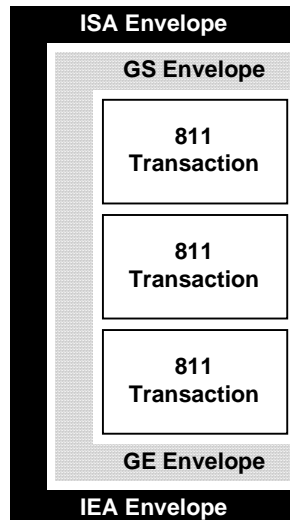
811 Consolidated Service Invoice/Statement  
 997 Functional Acknowledgement

### 2.2 Connect:Direct or Value Added Network

EDI billing data, both test and production, will be transmitted via Connect:Direct or VAN (Value Added Network). Other means of delivery are impractical for transmitting 811 transactions due to file size. Value Added Network (VAN) interconnections may be arranged when a CLEC uses a VAN to receive 811 transactions. The CLEC 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.



The bills are produced in 10 separate cycles throughout the month. CLECs receive their EDI telecommunications bills on the same bill cycles as the paper bills.

AT&T sends EDI 811 billing data with each bill cycle and expect an electronic acknowledgment (997 Transaction Set) within 48 hours. Bill payment is expected through traditional methods, by the bill's due date. AT&T will 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. The ISA envelope's security and authorization features are not used for EDI Billing Transactions. The Functional Group envelope groups a series of like transactions into a single envelope. The 811 Transaction Set only uses the CI (Consolidated Invoice) Functional Group Identifier.

## 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. AT&T uses the 811 transaction set as developed by the ASC X12 standards committee. AT&T follows the industry guidelines established by the Ordering and Billing Forum (OBF) ETB Committee and are active members of this industry group.

## 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 AT&T. 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 the 811 transmission. There are two methods for formatting the 997 transaction. One method is variable length unwrapped records and the other, which is the format used, is 80-byte wrapped records.

## 3 EDI Implementation Steps

### 3.1 Required Forms

During this step, AT&T requests that resale and unbundling CLECs complete and submit the CLEC and EDI Trading Partner Profiles. These profiles are designed to provide AT&T with the necessary information to accurately update systems and tables. Due to the critical nature of the required information, the CLEC's service cannot be established until they have successfully completed these profiles.

The current version of these profiles may be found on the CLEC online web site. Here is the link to the Web-Based CLEC Profile area and instructions for completing the profile:

<https://clec.att.com/clec/shell.cfm?section=174>

Here is the link directly to the EDI Trading Partner Profile:

[https://clec.att.com/clec\\_documents/unrestr/custguide/miscforms/tpp/att\\_tpp.pdf](https://clec.att.com/clec_documents/unrestr/custguide/miscforms/tpp/att_tpp.pdf)

The CLEC will arrange through their AT&T Account Representative to receive EDI billing files as "test" or "production". In most cases, the CLEC chooses to receive test data files (ISA15 = T) in order to verify their internal bill processing application. Information related to parallel testing is found in Section 3.5.

### 3.2 Establish Trading Partner

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

### 3.3 Letter of Agency (LOA)

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

If a CLEC changes vendors, EDI bills will be sent to the new vendor once AT&T establishes the trading partner relationship with that vendor. As mentioned in Section 3.2 above, this is a 30 to 90 day process. If an EDI cancellation request is not submitted by the previous vendor, EDI bills will continue to be sent to the previous vendor up until the time the trading partner relationship is established with the new vendor. The new vendor will not be able to receive any CLEC EDI bills processed prior to AT&T establishing the trading partner relationship with the new vendor.

### 3.4 Connectivity

The Connectivity step tests the communication link between the CLEC and AT&T. It does not test the 811 transaction. Connectivity is required and must be established before files can be transmitted between the CLEC and AT&T. The AT&T CLEC Operation Support System Interconnection Procedures may be used as a reference for additional information related to connectivity. The connectivity test is successful when:

- A. AT&T sends the 811 transaction to the CLEC
- B. CLEC receives the 811 transaction
- C. CLEC sends the 997 acknowledgment to the EDI Billing system of AT&T
- D. AT&T receives and processes the 997 acknowledgment

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

The CLEC may choose to implement the parallel transmission process once connectivity is established to receive the 811 transaction set. Implementing the parallel transmission process is not dependent on successful receipt of the 997 acknowledgment. CLEC billing data must be available in order to start the parallel transmission process.

### 3.5 Parallel Transmissions for Testing CLEC Applications

The Parallel Transmissions step builds CLEC confidence with their EDI bill processing application. During this step, production billing data in the form of EDI and the paper (or other format) bills are sent to the CLEC. To verify that both formats are producing similar results, parallel billing data transmissions are sent until the CLEC requests the paper (or other format) be discontinued.

Production billing data for the CLEC must be available before testing of the CLEC bill processing applications can begin. The parallel transmissions will consist of production billing data formatted to EDI and sent to the CLEC with ISA15 set to indicate 'test'. These transmissions can then be used by the CLEC to develop and test their applications for processing the 811 and creating the 997 transactions. The CLEC bill processing applications can also be developed prior to receiving the parallel transmissions using the technical specifications in Section 4 of this guide.

Once the CLEC has verified the integrity of their EDI bill processing application, they should contact their AT&T Account Representative to begin receiving the EDI 811 transaction into their production environment. At that time, ISA15 will be changed to indicate 'production' and if necessary, their ISA and GS Sender and Receiver Qualifiers and Ids can also be changed.

### 3.6 Maintenance

Telecommunications bills are dynamic documents. A 30 day notification is sent to the CLEC regarding EDI Billing revisions. The revisions may or may not require CLEC software changes.

ASC X12 Version 4, Release 1, of the 811 transaction set (ETB EDI Guidelines, Issue 9) is transmitted. A new 811 version/release may not be implemented every time the ASC X12 committee issues a new version or release of the transaction set. When a change is made to a new ASC X12 version/release of the 811 transaction set, the previous version/release is discontinued after an interval in which CLECs are asked to migrate to the new version/release.

## 4 Technical Specifications

The 811 presentation that follows is derived from the telecommunications industry presentation of the 811 transaction set. The Ordering and Billing Forum (OBF) guidelines can be viewed at the following website

[http://www.atis.org/obf/etb\\_home.asp](http://www.atis.org/obf/etb_home.asp)

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

### Detail Area hierarchy structure starting with HL4

Monthly Service	Other Charges & Credits	Miscellaneous Charges & Credits
HL4	HL4	HL4
IT1 (SV 0200)	IT1 (SV 0400)	IT1 (SV 0520)
DTM	HL5	HL5
HL5	LX	LX
LX	SI	SI
SI	HL8	HL8
HL8	SLN	SLN
SLN	SI	SI
SI	PID	PID
PID	INC	QTY
REF	REF	
QTY	DTM	
	QTY	

Usage	Contracts/Discounts	Itemized Calls
HL4	HL4	HL4
IT1 (SV 0700)	IT1 (SV 2110)	IT1 (SV 0500)
HL5	HL5	HL5
LX	LX	LX
SI	SI	SI
HL8	HL8	HL9
SLN	SLN	TCD
SI	SI	SI
ITA	PID	ITA
QTY	ITA	
	QTY	

**NOTE:** In all of the structures, HL5 is an optional loop.

# 811 Consolidated Service Invoice/Statement

Functional Group ID=**CI**

## Introduction:

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

## Heading:

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



**Detail:**

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

			<b>LOOP ID – QTY</b>		<b>&gt;1</b>
Not Used	290	QTY	Quantity	O	1
Not Used	300	SI	Service Characteristic Identification	O	1
			<b>LOOP ID – ITA</b>		<b>10</b>
Not Used	310	ITA	Allowance, Charge or Service	O	1
Not Used	320	DTM	Date/Time Reference	O	1
Not Used	330	TXI	Tax Information	O	>1
			<b>LOOP ID - NM1</b>		<b>&gt;1</b>
Not Used	340	NM1	Individual or Organizational Name	O	1
Not Used	350	N2	Additional Name Information	O	2
Not Used	360	N3	Address Information	O	2
Not Used	370	N4	Geographic Location	O	1
Not Used	380	PER	Administrative Communications Contact	O	3
Not Used	385	NX2	Location ID Component	O	>1
Not Used	387	DMG	Demographic Information	O	1
			<b>LOOP ID – SLN</b>		<b>&gt;1</b>
	<a href="#">390</a>	<a href="#">SLN</a>	<a href="#">Subline Item Detail</a>	O	1
	400	SI	Service Characteristic Identification	O	2
	410	PID	Product/Item Description	O	200
Not Used	415	MEA	Measurements	O	20
Not Used	420	CUR	Currency	O	1
	430	INC	Installment Information	O	1
	440	ITA	Allowance, Charge or Service	O	10
Not Used	450	TXI	Tax Information	O	>1
	460	REF	Reference Identification	O	>1
Not Used	470	PER	Administrative Communications Contact	O	3
	480	DTM	Date/Time Reference	O	10
Not Used	490	AMT	Monetary Amount	O	15
Not Used	500	MSG	Message Text	O	>1
			<b>LOOP ID - QTY</b>		<b>&gt;1</b>
	<a href="#">510</a>	<a href="#">QTY</a>	<a href="#">Quantity</a>	O	1
Not Used	520	SI	Service Characteristic Identification	O	1
			<b>LOOP ID - NM1</b>		<b>&gt;1</b>
Not Used	530	NM1	Individual or Organizational Name	O	1
Not Used	540	N2	Additional Name Information	O	2
Not Used	550	N3	Address Information	O	2
Not Used	560	N4	Geographic Location	O	1
Not Used	570	REF	Reference Identification	O	8
Not Used	580	PER	Administrative Communications Contact	O	3
Not Used	585	DMG	Demographic Information	O	1

		<b>LOOP ID - TCD</b>			<b>&gt;1</b>	
	590	TCD	Itemized Call Detail	O	1	n6
	600	SI	Service Characteristic Identification	O	2	
Not Used	610	TXI	Tax Information	O	>1	
	615	ITA	Allowance, Charge or Service	O	>1	
		<b>LOOP ID - QTY</b>			<b>&gt;1</b>	
Not Used	617	QTY	Quantity	O	1	
Not Used	618	SI	Service Characteristic Identification	O	1	
		<b>LOOP ID - USD</b>			<b>&gt;1</b>	
Not Used	620	USD	Usage-Sensitive Detail	O	1	n7
Not Used	625	SI	Service Characteristic Identification	O	2	
Not Used	630	ITA	Allowance, Charge or Service	O	2	
Not Used	640	TRF	Rating Factors	O	18	
		<b>LOOP ID - QTY</b>			<b>&gt;1</b>	
Not Used	650	QTY	Quantity	O	1	
Not Used	660	SI	Service Characteristic Identification	O	1	
		<b>LOOP ID - III</b>			<b>&gt;1</b>	
Not Used	670	III	Information	O	1	
Not Used	680	DTP	Date or Time or Period	O	5	
Not Used	690	AMT	Monetary Amount	O	5	
Not Used	700	PCT	Percent Amounts	O	5	
		<b>LOOP ID - LQ</b>			<b>&gt;1</b>	
Not Used	710	LQ	Industry Code	O	1	
Not Used	720	AMT	Monetary Amount	O	5	
Not Used	730	PCT	Percent Amounts	O	5	
		<b>LOOP ID - FA1</b>			<b>&gt;1</b>	
Not Used	740	FA1	Type of Financial Accounting Data	O	1	
Not Used	750	FA2	Accounting Data	M	>1	

**Summary:**

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

**Transaction Set Notes**

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

2. When used for telecommunications billing, the service/billing provider level is defined by the NM1 loop.
3. The group level is defined by at least one occurrence of the IT1 loop which may only appear at the group level.
4. The NX2 segment is used to convey parsed address information.
5. The SLN loop may only appear at the charge detail level.
6. The TCD loop may only appear at the line detail level.
7. The USD loop may only appear at the line detail level.
8. The number of line items (CTT01) is the accumulation of the number of IT1 segments.

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

**Data Element Summary**

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

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

**Syntax Notes:**

**Semantic Notes:**

- 1 BIG01 is the invoice issue date.
- 2 BIG03 is the date assigned by the purchaser to purchase order.
- 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

**Comments:**

1 BIG07 is used only to further define the type of invoice when needed.

**Notes:** The invoice number will contain the Account Number followed by Bill Date.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BIG01	373	<b>Date</b> Date expressed as CCYYMMDD	M DT 8/8
M	BIG02	76	<b>Invoice Number</b> Identifying number assigned by issuer The invoice number will contain the Account Number followed by Bill Date.	M AN 1/22
X	BIG03	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
X	BIG04	324	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser	O AN 1/22
X	BIG05	328	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
X	BIG06	327	<b>Change Order Sequence Number</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O AN 1/8
	BIG07	640	<b>Transaction Type Code</b> Code specifying the type of transaction CN Credit Invoice DI Debit Invoice	O ID 2/2
X	BIG08	353	<b>Transaction Set Purpose Code</b> Code identifying purpose of transaction set Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	BIG09	306	<b>Action Code</b> Code indicating type of action Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
X	BIG10	76	<b>Invoice Number</b> Identifying number assigned by issuer	O AN 1/22

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

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

**Semantic Notes:**

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

**Comments:**

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification 12 Billing Account Account number under which billing is rendered AP Accounts Receivable Number	M ID 2/3
	REF02	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	REF03	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30



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

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
		<b>336</b>	<b>Terms Type Code</b> Code identifying type of payment terms 03 Fixed Date	<b>O ID 2/2</b>
X	<b>ITD02</b>	<b>333</b>	<b>Terms Basis Date Code</b> Code identifying the beginning of the terms period Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/2</b>
X	<b>ITD03</b>	<b>338</b>	<b>Terms Discount Percent</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	<b>O R 1/6</b>
X	<b>ITD04</b>	<b>370</b>	<b>Terms Discount Due Date</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD	<b>X DT 8/8</b>
X	<b>ITD05</b>	<b>351</b>	<b>Terms Discount Days Due</b> Number of days in the terms discount period by which payment is due if terms discount is earned	<b>X N0 1/3</b>
		<b>ITD06</b>	<b>446</b> <b>Terms Net Due Date</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	<b>O DT 8/8</b>
X	<b>ITD07</b>	<b>386</b>	<b>Terms Net Days</b> Number of days until total invoice amount is due (discount not applicable)	<b>O N0 1/3</b>
X	<b>ITD08</b>	<b>362</b>	<b>Terms Discount Amount</b> Total amount of terms discount	<b>O N2 1/10</b>
X	<b>ITD09</b>	<b>388</b>	<b>Terms Deferred Due Date</b> Date deferred payment or percent of invoice payable is due expressed in format CCYYMMDD	<b>O DT 8/8</b>
X	<b>ITD10</b>	<b>389</b>	<b>Deferred Amount Due</b> Deferred amount due for payment	<b>X N2 1/10</b>

X	ITD11	342	<b>Percent of Invoice Payable</b> Amount of invoice payable expressed in percent	X R 1/5
X	ITD12	352	<b>Description</b> A free-form description to clarify the related data elements and their content	O AN 1/80
X	ITD13	765	<b>Day of Month</b> The numeric value of the day of the month between 1 and the maximum day of the month being referenced	X N0 1/2
X	ITD14	107	<b>Payment Method Code</b> Code identifying type of payment procedures Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
X	ITD15	954	<b>Percent</b> Percentage expressed as a decimal	O R 1/10

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

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	DTM01	<b>374</b> <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time	<b>M</b> <b>ID 3/3</b>
		186 Invoice Period Start When the billing period covered by an invoice begins	
		187 Invoice Period End When the billing period covered by an invoice ends	
	DTM02	<b>373</b> <b>Date</b> Date expressed as CCYYMMDD	<b>X</b> <b>DT 8/8</b>
X	DTM03	<b>337</b> <b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b> <b>TM 4/8</b>
X	DTM04	<b>623</b> <b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b> <b>ID 2/2</b>
X	DTM05	<b>1250</b> <b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b> <b>ID 2/3</b>
X	DTM06	<b>1251</b> <b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	<b>X</b> <b>AN 1/35</b>

**Segment:** **N1** Name  
**Position:** 100  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

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

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual PE Payee PR Payer	M ID 2/3
	N102	93	<b>Name</b> Free-form name	X AN 1/60
X	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N104	67	<b>Identification Code</b> Code identifying a party or other code	X AN 2/80
X	N105	706	<b>Entity Relationship Code</b> Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3

**Segment:** **N2** Additional Name Information  
**Position:** 110  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
M	N201	93	Name Free-form name	M AN 1/60
X	N202	93	Name Free-form name	O AN 1/60

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

**Data Element Summary**

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

**Segment:** **N4 Geographic Location**  
**Position:** 130  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.  
 2 N402 is required only if city name (N401) is in the U.S. or Canada.

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	<b>City Name</b> Free-form text for city name	O AN 2/30
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
X	N404	26 <b>Country Code</b> Code identifying the country	O ID 2/3
X	N405	309 <b>Location Qualifier</b> Code identifying type of location Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N406	310 <b>Location Identifier</b> Code which identifies a specific location	O AN 1/30

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

**Syntax Notes:**

**Semantic Notes:**

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

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	HL01	628	<b>Hierarchical ID Number</b>	M AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	734	<b>Hierarchical Parent ID Number</b>	O AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735	<b>Hierarchical Level Code</b>	M ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	
		1	Service/Billing Provider	
		4	Group	
		5	Category	
		8	Charge Detail	
		9	Line Detail	
	HL04	736	<b>Hierarchical Child Code</b>	O ID 1/1
			Code indicating if there are hierarchical child data segments subordinate to the level being described	
		0	No Subordinate HL Segment in This Hierarchical Structure.	
		1	Additional Subordinate HL Data Segment in This Hierarchical Structure.	



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

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	LX01	554	Assigned Number	M N0 1/6
			Number assigned for differentiation within a transaction set	
			Sequential number assigned to the LX segment	

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

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

**Semantic Notes:**

**Comments:**

**Notes:**

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

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

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SI01	559 Agency Qualifier Code Code identifying the agency assigning the code values TI Telecommunications Industry	M ID 2/2
M	SI02	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics BN Billing Telephone Number TN Telephone Number	M AN 2/2
M	SI03	234 Product/Service ID Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a telephone number, Class of Service USOC, calling card number, circuit number, etc	M AN 1/48
X	SI04	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
X	SI05	234 Product/Service ID Identifying number for a product or service	X AN 1/48
X	SI06	1000 Service Characteristics Qualifier Code from an industry code list qualifying the type of service characteristics	X AN 2/2
X	SI07	234 Product/Service ID Identifying number for a product or service	X AN 1/48

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

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

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
M	AMT01	522	<b>Amount Qualifier Code</b> Code to qualify amount SC Total Service Charge	M ID 1/3
M	AMT02	782	<b>Monetary Amount</b> Monetary amount	M R 1/18
X	AMT03	478	<b>Credit/Debit Flag Code</b> Code indicating whether amount is a credit or debit Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

**Segment:** **NM1 Individual or Organizational Name**  
**Position:** 110  
**Loop:** NM1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To supply the full name of an individual or organizational entity  
**Syntax Notes:** 1 If either NM108 or NM109 is present, then the other is required.  
 2 If NM111 is present, then NM110 is required.  
**Semantic Notes:** 1 NM102 qualifies NM103.  
**Comments:** 1 NM110 and NM111 further define the type of entity in NM101.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	NM101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	M ID 2/3
M	NM102	1065	<b>Entity Type Qualifier</b> Code qualifying the type of entity 2 Non-Person Entity	M ID 1/1
	NM103	1035	<b>Name Last or Organization Name</b> Individual last name or organizational name	O AN 1/35
X	NM104	1036	<b>Name First</b> Individual first name	O AN 1/25
X	NM105	1037	<b>Name Middle</b> Individual middle name or initial	O AN 1/25
X	NM106	1038	<b>Name Prefix</b> Prefix to individual name	O AN 1/10
X	NM107	1039	<b>Name Suffix</b> Suffix to individual name	O AN 1/10
	NM108	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent	X ID 1/2
	NM109	67	<b>Identification Code</b> Code identifying a party or other code	X AN 2/80
X	NM110	706	<b>Entity Relationship Code</b> Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	NM111	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3

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

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PER01	366	<b>Contact Function Code</b> Code identifying the major duty or responsibility of the person or group named BI Bill Inquiry Contact Service Provider contact for making inquires about information on the invoice	M ID 2/2
X	PER02	93	<b>Name</b> Free-form name	O AN 1/60
	PER03	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number TE Telephone	X ID 2/2
	PER04	364	<b>Communication Number</b> Complete communications number including country or area code when applicable	X AN 1/80
X	PER05	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	PER06	364	<b>Communication Number</b> Complete communications number including country or area code when applicable	X AN 1/80
X	PER07	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	PER08	364	<b>Communication Number</b> Complete communications number including country or area code when applicable	X AN 1/80
X	PER09	443	<b>Contact Inquiry Reference</b> Additional reference number or description to clarify a contact number	O AN 1/20

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

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

- Semantic Notes:** 1 IT101 is the purchase order line item identification.  
**Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
  - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential number assigned to the IT1 segment	O	AN 1/20
IT102	358	<b>Quantity Invoiced</b> Number of units invoiced (supplier units)	X	R 1/10
IT103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken M4 Monetary Value	X	ID 2/2
IT104	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	X	R 1/17
X	IT105	639 <b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item Refer to 004010 Data Element Dictionary for acceptable code values.	O	ID 2/2

	<b>IT106</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV Service Rendered	<b>X</b>	<b>ID 2/2</b>
	<b>IT107</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service 0200 Monthly Service Charge 0400 Other Charges & Credits 0500 Itemized Calls 0520 Miscellaneous Itemized Charges & Credits 0700 Usage 2110 Contracts/Discounts	<b>X</b>	<b>AN 1/48</b>
	<b>IT108</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) ZZ Mutually Defined	<b>X</b>	<b>ID 2/2</b>
	<b>IT109</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service 1 Recurring Charge 2 Other Charges 3 Usage 4 Summary/Combined Charges	<b>X</b>	<b>AN 1/48</b>
<b>X</b>	<b>IT110</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b>	<b>ID 2/2</b>
<b>X</b>	<b>IT111</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>X</b>	<b>IT112</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b>	<b>ID 2/2</b>
<b>X</b>	<b>IT113</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>X</b>	<b>IT114</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b>	<b>ID 2/2</b>
<b>X</b>	<b>IT115</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>X</b>	<b>IT116</b>	<b>235</b>	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b>	<b>ID 2/2</b>
<b>X</b>	<b>IT117</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>



X	IT118	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	IT119	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	IT120	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	IT121	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	IT122	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	IT123	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	IT124	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	IT125	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48

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

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	DTM01	<b>374</b> <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 150 Service Period Start 151 Service Period End	<b>M</b> <b>ID 3/3</b>
	DTM02	<b>373</b> <b>Date</b> Date expressed as CCYYMMDD	<b>X</b> <b>DT 8/8</b>
X	DTM03	<b>337</b> <b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b> <b>TM 4/8</b>
X	DTM04	<b>623</b> <b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b> <b>ID 2/2</b>
X	DTM05	<b>1250</b> <b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b> <b>ID 2/3</b>
X	DTM06	<b>1251</b> <b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	<b>X</b> <b>AN 1/35</b>

- Segment:** **SLN** Subline Item Detail
- Position:** 390
- Loop:** SLN Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- Purpose:** To specify product subline detail item data
- Syntax Notes:**
- 1 If either SLN04 or SLN05 is present, then the other is required.
  - 2 If SLN07 is present, then SLN06 is required.
  - 3 If SLN08 is present, then SLN06 is required.
  - 4 If either SLN09 or SLN10 is present, then the other is required.
  - 5 If either SLN11 or SLN12 is present, then the other is required.
  - 6 If either SLN13 or SLN14 is present, then the other is required.
  - 7 If either SLN15 or SLN16 is present, then the other is required.
  - 8 If either SLN17 or SLN18 is present, then the other is required.
  - 9 If either SLN19 or SLN20 is present, then the other is required.
  - 10 If either SLN21 or SLN22 is present, then the other is required.
  - 11 If either SLN23 or SLN24 is present, then the other is required.
  - 12 If either SLN25 or SLN26 is present, then the other is required.
  - 13 If either SLN27 or SLN28 is present, then the other is required.
- Semantic Notes:**
- 1 SLN01 is the identifying number for the subline item.
  - 2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
  - 3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
  - 4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.
- Comments:**
- 1 See the Data Element Dictionary for a complete list of IDs.
  - 2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
  - 3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SLN01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential number assigned to the SLN segment	M AN 1/20
X	SLN02	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
M	SLN03	662	<b>Relationship Code</b> Code indicating the relationship between entities I Included	M ID 1/1
	SLN04	380	<b>Quantity</b> Numeric value of quantity	X R 1/15

	SLN05	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure	X
M	C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken M4 Monetary Value	M ID 2/2
	C00102	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00103	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00104	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00105	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00106	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00107	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00108	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00109	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00110	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00111	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00112	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00113	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00114	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00115	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	SLN06	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	X R 1/17

X	SLN07	639	<b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	SLN08	662	<b>Relationship Code</b> Code indicating the relationship between entities I           Included O           Information Only Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)	O ID 1/1
	SLN09	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) SV           Service Rendered	X ID 2/2
	SLN10	234	<b>Product/Service ID</b> Identifying number for a product or service 0115        Trouble Isolation Plan/Maintenance 0900        Directory Assistance 1420        ISDN Services 1605        Packet Switch 1790        Call Trace 1850        976	X AN 1/48
X	SLN11	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	SLN12	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	SLN13	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	SLN14	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	SLN15	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	SLN16	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	SLN17	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	SLN18	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	SLN19	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	SLN20	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48
X	SLN21	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

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X	SLN22	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	SLN23	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	SLN24	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	SLN25	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	SLN26	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48
X	SLN27	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID 2/2
X	SLN28	234	<b>Product/Service ID</b> Identifying number for a product or service	X	AN 1/48

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

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

**Semantic Notes:**

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

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

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Agency Qualifier Code</u>	<u>M ID 2/2</u>
M	SI01	559	
		Code identifying the agency assigning the code values	
		TI Telecommunications Industry	

M	SI02	1000	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment.	M AN 2/2
			AB Contract Indicator CL Class of Service Code DA Directory Assistance Code DC Direction Code MC Message/Rate Class MT Message Type OC Other Charges and Credits Category Code RY Local/Toll Indicator SA Service Activity Code SD Settlement Code ST Message Service Type	
M	SI03	234	<b>Product/Service ID</b> Identifying number for a product or service For a list of valid DE234 values associated with the preceding DE1000 values, see 10.4 Additional Code Lists Used by ETB within the ETB Telephone Billing Guideline at the following website: <a href="http://www.atis.org/obf/etb_home.asp">http://www.atis.org/obf/etb_home.asp</a>	M AN 1/48
	SI04	1000	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment.	X AN 2/2
			BA Band BT Basic Service Type CN Circuit Number Identification Code OD Other Charges and Credits Description Code SC Service Category Code SS Service Sub-category Code TN Telephone Number	
	SI05	234	<b>Product/Service ID</b> Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a circuit number, telephone number, band, etc.	X AN 1/48
	SI06	1000	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	X AN 2/2
	SI07	234	<b>Product/Service ID</b> Identifying number for a product or service	X AN 1/48



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

<b>Segment:</b>	<b>PID</b>	<b>Product/Item Description</b>
<b>Position:</b>	410	
<b>Loop:</b>	SLN	Optional
<b>Level:</b>	Detail	
<b>Usage:</b>	Optional	
<b>Max Use:</b>	200	
<b>Purpose:</b>	To describe a product or process in coded or free-form format	
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>	
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>	

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
M	PID01	349 <b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1
X	PID02	750 <b>Product/Process Characteristic Code</b> Code identifying the general class of a product or process characteristic Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3
X	PID03	559 <b>Agency Qualifier Code</b> Code identifying the agency assigning the code values Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	PID04	751 <b>Product Description Code</b> A code from an industry code list which provides specific data about a product characteristic	X AN 1/12
	PID05	352 <b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	PID06	752 <b>Surface/Layer/Position Code</b> Code indicating the product surface, layer or position that is being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	PID07	822 <b>Source Subqualifier</b> A reference that indicates the table or text maintained by the Source Qualifier	O AN 1/15
X	PID08	1073 <b>Yes/No Condition or Response Code</b> Code indicating a Yes or No condition or response Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	PID09	819 <b>Language Code</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O ID 2/3

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

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

**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	INC01	336	<b>Terms Type Code</b> Code identifying type of payment terms 04 Deferred or Installment	M ID 2/2
M	INC02	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure	M
M	C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken MO Months	M ID 2/2
	C00102	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00103	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00104	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00105	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00106	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00107	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00108	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15

	<b>C00109</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
	<b>C00110</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>
	<b>C00111</b>	<b>1018</b>	<b>Exponent</b> Power to which a unit is raised	<b>O R 1/15</b>
	<b>C00112</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
	<b>C00113</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>
	<b>C00114</b>	<b>1018</b>	<b>Exponent</b> Power to which a unit is raised	<b>O R 1/15</b>
	<b>C00115</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
<b>M</b>	<b>INC03</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>M R 1/15</b>
<b>M</b>	<b>INC04</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>M R 1/15</b>
	<b>INC05</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount	<b>O R 1/18</b>

<b>Segment:</b>	<b>ITA</b> Allowance, Charge or Service
<b>Position:</b>	440
<b>Loop:</b>	SLN     Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	10
<b>Purpose:</b>	To specify allowances, charges, or services
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.</li> <li>2 If ITA08 is present, then ITA09 is required.</li> <li>3 If either ITA10 or ITA11 is present, then the other is required.</li> <li>4 If ITA15 is present, then ITA02 is required.</li> <li>5 If ITA17 is present, then ITA12 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 ITA09 is the allowance or charge percent.</li> <li>2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.</li> <li>3 ITA12 is the quantity of free goods.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.</li> <li>2 ITA02 identifies the source of the code value in ITA03 or ITA15.</li> <li>3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.</li> <li>4 ITA13 is used to clarify the allowance, charge, or service.</li> <li>5 ITA15 specifies the individual code list of the agency specified in ITA02.</li> <li>6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.</li> </ol>

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
M	ITA01	248 <b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified A                      Allowance C                      Charge	M ID 1/1
	ITA02	559 <b>Agency Qualifier Code</b> Code identifying the agency assigning the code values TI                      Telecommunications Industry	X ID 2/2
	ITA03	560 <b>Special Services Code</b> Code identifying the special service	X ID 2/10
M	ITA04	331 <b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge ZZ                      Mutually Defined	M ID 2/2
X	ITA05	341 <b>Allowance or Charge Number</b> The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
X	ITA06	359 <b>Allowance or Charge Rate</b> Allowance or Charge Rate per Unit	O R 1/15

	<b>ITA07</b>	<b>360</b>	<b>Allowance or Charge Total Amount</b> Total dollar amount for the allowance or charge	<b>O N2 1/15</b>
<b>X</b>	<b>ITA08</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b> Code indicating on what basis allowance or charge percent is calculated Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/1</b>
	<b>ITA09</b>	<b>332</b>	<b>Percent</b> Percent expressed as a percent	<b>X R 1/6</b>
<b>X</b>	<b>ITA10</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA11</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
<b>X</b>	<b>ITA12</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA13</b>	<b>352</b>	<b>Description</b> A free-form description to clarify the related data elements and their content	<b>X AN 1/80</b>
	<b>ITA14</b>	<b>150</b>	<b>Special Charge or Allowance Code</b> Code identifying type of special charge or allowance DSC                      Discount PSP                      Payphone Service Provider Surcharge SUR                      Surcharge	<b>X ID 3/3</b>
<b>X</b>	<b>ITA15</b>	<b>822</b>	<b>Source Subqualifier</b> A reference that indicates the table or text maintained by the Source Qualifier	<b>O AN 1/15</b>
	<b>ITA16</b>	<b>662</b>	<b>Relationship Code</b> Code indicating the relationship between entities A                      Add	<b>O ID 1/1</b>
<b>X</b>	<b>ITA17</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>

**Segment:** **REF** Reference Identification  
**Position:** 460  
**Loop:** SLN Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
 2 If either C04003 or C04004 is present, then the other is required.  
 3 If either C04005 or C04006 is present, then the other is required.  
**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	REF01	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification OW Service Order Number Number assigned when a customer orders service and equipment and which appears on bill PO Purchase Order Number	M ID 2/3
	REF02	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	REF03	352 <b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
X	REF04	C040 <b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
X	C04001	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128 <b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127 <b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

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

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	DTM01	<b>374</b> <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 007 Effective 150 Service Period Start 151 Service Period End	<b>M</b> <b>ID 3/3</b>
	DTM02	<b>373</b> <b>Date</b> Date expressed as CCYYMMDD	<b>X</b> <b>DT 8/8</b>
X	DTM03	<b>337</b> <b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b> <b>TM 4/8</b>
X	DTM04	<b>623</b> <b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b> <b>ID 2/2</b>
X	DTM05	<b>1250</b> <b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b> <b>ID 2/3</b>
X	DTM06	<b>1251</b> <b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	<b>X</b> <b>AN 1/35</b>



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

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	QTY01	673	<b>Quantity Qualifier</b> Code specifying the type of quantity 02 Cumulative Quantity 94 Billable Quantity 99 Quantity Used Quantity of units used	M ID 2/2
	QTY02	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
	QTY03	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure	O
M	C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken C0 Calls Number of calls handled MJ Minutes	M ID 2/2
	C00102	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00103	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00104	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00105	1018	<b>Exponent</b> Power to which a unit is raised	O R 1/15
	C00106	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O R 1/10
	C00107	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

<b>C00108</b>	<b>1018</b>	<b>Exponent</b> Power to which a unit is raised	<b>O R 1/15</b>
<b>C00109</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
<b>C00110</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>
<b>C00111</b>	<b>1018</b>	<b>Exponent</b> Power to which a unit is raised	<b>O R 1/15</b>
<b>C00112</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
<b>C00113</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>
<b>C00114</b>	<b>1018</b>	<b>Exponent</b> Power to which a unit is raised	<b>O R 1/15</b>
<b>C00115</b>	<b>649</b>	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	<b>O R 1/10</b>
<b>QTY04</b>	<b>61</b>	<b>Free-Form Message</b> Free-form information	<b>X AN 1/30</b>

<b>Segment:</b>	<b>TCD</b> Itemized Call Detail
<b>Position:</b>	590
<b>Loop:</b>	TCD Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify detail information for itemized calls
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either TCD04 or TCD05 is present, then the other is required.</li> <li>2 If either TCD07 or TCD08 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TCD12 is an undiscounted amount.</li> <li>2 TCD13 is a net amount after the discount has been applied to the amount in TCD12.</li> <li>3 TCD14 is an undiscounted amount.</li> <li>4 TCD15 is a net amount after the discount has been applied to the amount in TCD14.</li> <li>5 TCD16 is a code indicating the relationship of the price or amount to the associated segment.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 TCD01 is the detail information.</li> <li>2 TCD02 is the date of the call.</li> <li>3 TCD03 is the connect time of the call.</li> <li>4 TCD04, TCD05, and TCD06 are the 'to' location of the call.</li> <li>5 TCD07, TCD08, and TCD09 are the 'from' location of the call.</li> <li>6 TCD10 and TCD11 are the total duration of the call. TCD10 is the time measured in minutes or minutes and tenths of minutes. TCD11 is time measured in seconds or seconds and tenths of seconds.</li> </ol>

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TCD01	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Sequential number assigned to the TCD segment	O AN 1/20
TCD02	373	<b>Date</b> Date expressed as CCYYMMDD	O DT 8/8
TCD03	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O TM 4/8
TCD04	309	<b>Location Qualifier</b> Code identifying type of location CI City ZZ Mutually Defined	X ID 1/2
TCD05	310	<b>Location Identifier</b> Code which identifies a specific location	X AN 1/30
TCD06	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2

	<b>TCD07</b>	<b>309</b>	<b>Location Qualifier</b> Code identifying type of location CI City	<b>X</b>	<b>ID 1/2</b>
	<b>TCD08</b>	<b>310</b>	<b>Location Identifier</b> Code which identifies a specific location	<b>X</b>	<b>AN 1/30</b>
	<b>TCD09</b>	<b>156</b>	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	<b>O</b>	<b>ID 2/2</b>
	<b>TCD10</b>	<b>739</b>	<b>Measurement Value</b> The value of the measurement	<b>O</b>	<b>R 1/20</b>
	<b>TCD11</b>	<b>739</b>	<b>Measurement Value</b> The value of the measurement	<b>O</b>	<b>R 1/20</b>
	<b>TCD12</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount	<b>O</b>	<b>R 1/18</b>
<b>X</b>	<b>TCD13</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount	<b>O</b>	<b>R 1/18</b>
<b>X</b>	<b>TCD14</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount	<b>O</b>	<b>R 1/18</b>
<b>X</b>	<b>TCD15</b>	<b>782</b>	<b>Monetary Amount</b> Monetary amount	<b>O</b>	<b>R 1/18</b>
	<b>TCD16</b>	<b>662</b>	<b>Relationship Code</b> Code indicating the relationship between entities O Information Only Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)	<b>O</b>	<b>ID 1/1</b>

**Segment:** **SI** Service Characteristic Identification

**Position:** 600

**Loop:** TCD Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 2

**Purpose:** To specify service characteristic data

**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

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

**Notes:**

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

**Data Element Summary**

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

<b>SI04</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics One or more of the following DE1000 values and it's associated DE234 value may be present within the SI segment. FN                      From/Originating Station Telephone Number RZ                      EMI Record Identification SC                      Service Category Code TM                      To/Terminating Station Telephone Number	<b>X</b>	<b>AN 2/2</b>
<b>SI05</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service This element will contain a locally defined code associated with one of the preceding DE1000 values. Examples of a locally defined value include a circuit number, telephone number, etc.	<b>X</b>	<b>AN 1/48</b>
<b>SI06</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI07</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI08</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI09</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI10</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI11</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI12</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI13</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI14</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI15</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI16</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI17</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI18</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI19</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>
<b>SI20</b>	<b>1000</b>	<b>Service Characteristics Qualifier</b> Code from an industry code list qualifying the type of service characteristics	<b>X</b>	<b>AN 2/2</b>
<b>SI21</b>	<b>234</b>	<b>Product/Service ID</b> Identifying number for a product or service	<b>X</b>	<b>AN 1/48</b>

<b>Segment:</b>	<b>ITA</b> Allowance, Charge or Service
<b>Position:</b>	615
<b>Loop:</b>	TCD Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify allowances, charges, or services
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.</li> <li>2 If ITA08 is present, then ITA09 is required.</li> <li>3 If either ITA10 or ITA11 is present, then the other is required.</li> <li>4 If ITA15 is present, then ITA02 is required.</li> <li>5 If ITA17 is present, then ITA12 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 ITA09 is the allowance or charge percent.</li> <li>2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.</li> <li>3 ITA12 is the quantity of free goods.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.</li> <li>2 ITA02 identifies the source of the code value in ITA03 or ITA15.</li> <li>3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.</li> <li>4 ITA13 is used to clarify the allowance, charge, or service.</li> <li>5 ITA15 specifies the individual code list of the agency specified in ITA02.</li> <li>6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.</li> </ol>

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u> <b><u>Name</u></b></b>	<b><u></u></b>
M	ITA01 248 <b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified C Charge	M ID 1/1
	ITA02 559 <b>Agency Qualifier Code</b> Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
	ITA03 560 <b>Special Services Code</b> Code identifying the special service Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/10
M	ITA04 331 <b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge ZZ Mutually Defined	M ID 2/2
X	ITA05 341 <b>Allowance or Charge Number</b> The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
X	ITA06 359 <b>Allowance or Charge Rate</b> Allowance or Charge Rate per Unit	O R 1/15

	<b>ITA07</b>	<b>360</b>	<b>Allowance or Charge Total Amount</b> Total dollar amount for the allowance or charge	<b>O N2 1/15</b>
<b>X</b>	<b>ITA08</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b> Code indicating on what basis allowance or charge percent is calculated Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/1</b>
<b>X</b>	<b>ITA09</b>	<b>332</b>	<b>Percent</b> Percent expressed as a percent	<b>X R 1/6</b>
<b>X</b>	<b>ITA10</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA11</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
<b>X</b>	<b>ITA12</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA13</b>	<b>352</b>	<b>Description</b> A free-form description to clarify the related data elements and their content	<b>X AN 1/80</b>
	<b>ITA14</b>	<b>150</b>	<b>Special Charge or Allowance Code</b> Code identifying type of special charge or allowance PSP Payphone Service Provider Surcharge	<b>X ID 3/3</b>
<b>X</b>	<b>ITA15</b>	<b>822</b>	<b>Source Subqualifier</b> A reference that indicates the table or text maintained by the Source Qualifier	<b>O AN 1/15</b>
	<b>ITA16</b>	<b>662</b>	<b>Relationship Code</b> Code indicating the relationship between entities O Information Only Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)	<b>O ID 1/1</b>
<b>X</b>	<b>ITA17</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>



**Segment:** **TDS** Total Monetary Value Summary  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the total invoice discounts and amounts  
**Syntax Notes:**  
**Semantic Notes:**

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

**Comments:**

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

**Data Element Summary**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TDS01	610	<b>Amount</b> Monetary amount	M N2 1/15
X	TDS02	610	<b>Amount</b> Monetary amount	O N2 1/15
X	TDS03	610	<b>Amount</b> Monetary amount	O N2 1/15
X	TDS04	610	<b>Amount</b> Monetary amount	O N2 1/15

**Segment:** **ITA** Allowance, Charge or Service

**Position:** 020

**Loop:** ITA Optional

**Level:** Summary

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify allowances, charges, or services

**Syntax Notes:**

- 1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
- 2 If ITA08 is present, then ITA09 is required.
- 3 If either ITA10 or ITA11 is present, then the other is required.
- 4 If ITA15 is present, then ITA02 is required.
- 5 If ITA17 is present, then ITA12 is required.

**Semantic Notes:**

- 1 ITA09 is the allowance or charge percent.
- 2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 3 ITA12 is the quantity of free goods.

**Comments:**

- 1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
- 2 ITA02 identifies the source of the code value in ITA03 or ITA15.
- 3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
- 4 ITA13 is used to clarify the allowance, charge, or service.
- 5 ITA15 specifies the individual code list of the agency specified in ITA02.
- 6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

#### Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	ITA01	248	<b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified C Charge	M ID 1/1
	ITA02	559	<b>Agency Qualifier Code</b> Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
X	ITA03	560	<b>Special Services Code</b> Code identifying the special service Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/10
M	ITA04	331	<b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge 06 Charge to be Paid by Customer	M ID 2/2
X	ITA05	341	<b>Allowance or Charge Number</b> The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
X	ITA06	359	<b>Allowance or Charge Rate</b> Allowance or Charge Rate per Unit	O R 1/15

	<b>ITA07</b>	<b>360</b>	<b>Allowance or Charge Total Amount</b> Total dollar amount for the allowance or charge	<b>O N2 1/15</b>
<b>X</b>	<b>ITA08</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b> Code indicating on what basis allowance or charge percent is calculated Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 1/1</b>
<b>X</b>	<b>ITA09</b>	<b>332</b>	<b>Percent</b> Percent expressed as a percent	<b>X R 1/6</b>
<b>X</b>	<b>ITA10</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA11</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X ID 2/2</b>
<b>X</b>	<b>ITA12</b>	<b>380</b>	<b>Quantity</b> Numeric value of quantity	<b>X R 1/15</b>
<b>X</b>	<b>ITA13</b>	<b>352</b>	<b>Description</b> A free-form description to clarify the related data elements and their content	<b>X AN 1/80</b>
	<b>ITA14</b>	<b>150</b>	<b>Special Charge or Allowance Code</b> Code identifying type of special charge or allowance LPC                      Late payment charge	<b>X ID 3/3</b>
<b>X</b>	<b>ITA15</b>	<b>822</b>	<b>Source Subqualifier</b> A reference that indicates the table or text maintained by the Source Qualifier	<b>O AN 1/15</b>
	<b>ITA16</b>	<b>662</b>	<b>Relationship Code</b> Code indicating the relationship between entities A                      Add	<b>O ID 1/1</b>
<b>X</b>	<b>ITA17</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>

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

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	BAL01	951	<b>Balance Type Code</b> Code indicating the type of balance A Adjustment M Current Month P Previous Month Balance of previous period charges prior to applying payments and adjustments for the previous period billing	M ID 1/2
M	BAL02	522	<b>Amount Qualifier Code</b> Code to qualify amount C4 Prior Payment - Actual Amount paid in reality at an earlier time NA Net Adjustment PB Billed Amount Total amount due on the period bill TP Total payment amount TT Total Transaction Amount	M ID 1/3
M	BAL03	782	<b>Monetary Amount</b> Monetary amount	M R 1/18

**Segment:** **DTM** Date/Time Reference  
**Position:** 050  
**Loop:** BAL Optional  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	DTM01	<b>374</b> <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 050 Received	<b>M</b> <b>ID 3/3</b>
	DTM02	<b>373</b> <b>Date</b> Date expressed as CCYYMMDD	<b>X</b> <b>DT 8/8</b>
X	DTM03	<b>337</b> <b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b> <b>TM 4/8</b>
X	DTM04	<b>623</b> <b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b> <b>ID 2/2</b>
X	DTM05	<b>1250</b> <b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b> <b>ID 2/3</b>
X	DTM06	<b>1251</b> <b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	<b>X</b> <b>AN 1/35</b>

**Segment:** **N1** Name  
**Position:** 060  
**Loop:** N1 Optional  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

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

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SJ Service Provider Identifies name and address information as pertaining to a service provider for which billing is being rendered	<b>M ID 2/3</b>
	N102	93	<b>Name</b> Free-form name	<b>X AN 1/60</b>
	N103	66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 91 Assigned by Seller or Seller's Agent	<b>X ID 1/2</b>
	N104	67	<b>Identification Code</b> Code identifying a party or other code	<b>X AN 2/80</b>
X	N105	706	<b>Entity Relationship Code</b> Code describing entity relationship Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/2</b>
X	N106	98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O ID 2/3</b>

<b>Segment:</b>	<b>ITA</b> Allowance, Charge or Service
<b>Position:</b>	090
<b>Loop:</b>	ITA Optional
<b>Level:</b>	Summary
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify allowances, charges, or services
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.</li> <li>2 If ITA08 is present, then ITA09 is required.</li> <li>3 If either ITA10 or ITA11 is present, then the other is required.</li> <li>4 If ITA15 is present, then ITA02 is required.</li> <li>5 If ITA17 is present, then ITA12 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 ITA09 is the allowance or charge percent.</li> <li>2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.</li> <li>3 ITA12 is the quantity of free goods.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.</li> <li>2 ITA02 identifies the source of the code value in ITA03 or ITA15.</li> <li>3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.</li> <li>4 ITA13 is used to clarify the allowance, charge, or service.</li> <li>5 ITA15 specifies the individual code list of the agency specified in ITA02.</li> <li>6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.</li> </ol>

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b><u>Des.</u></b>	<b><u>Element</u> <b><u>Name</u></b></b>	<b><u>Attributes</u></b>
M	ITA01 248 <b>Allowance or Charge Indicator</b> Code which indicates an allowance or charge for the service specified N No Allowance or Charge	M ID 1/1
	ITA02 559 <b>Agency Qualifier Code</b> Code identifying the agency assigning the code values TI Telecommunications Industry	X ID 2/2
X	ITA03 560 <b>Special Services Code</b> Code identifying the special service Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/10
M	ITA04 331 <b>Allowance or Charge Method of Handling Code</b> Code indicating method of handling for an allowance or charge ZZ Mutually Defined	M ID 2/2
X	ITA05 341 <b>Allowance or Charge Number</b> The number assigned by a vendor referencing an allowance, promotion, deal or charge	O AN 1/16
X	ITA06 359 <b>Allowance or Charge Rate</b> Allowance or Charge Rate per Unit	O R 1/15
	ITA07 360 <b>Allowance or Charge Total Amount</b> Total dollar amount for the allowance or charge	O N2 1/15
X	ITA08 378 <b>Allowance/Charge Percent Qualifier</b> Code indicating on what basis allowance or charge percent is calculated Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	ITA09 332 <b>Percent</b> Percent expressed as a percent	X R 1/6
X	ITA10 380 <b>Quantity</b> Numeric value of quantity	X R 1/15
X	ITA11 355 <b>Unit or Basis for Measurement Code</b>	X ID 2/2

			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
X	ITA12	380	<b>Quantity</b> Numeric value of quantity	X R 1/15
	ITA13	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80
	ITA14	150	<b>Special Charge or Allowance Code</b> Code identifying type of special charge or allowance AAJ Adjustments	X ID 3/3
X	ITA15	822	<b>Source Subqualifier</b> A reference that indicates the table or text maintained by the Source Qualifier	O AN 1/15
	ITA16	662	<b>Relationship Code</b> Code indicating the relationship between entities O Information Only Charges which relate to but may not be included in or added to the unit price of the SLN. (i.e., compute WATS calculation based upon usage amounts)	O ID 1/1
X	ITA17	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2



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

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

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	DTM01	<b>374</b> <b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 007 Effective	<b>M</b> <b>ID 3/3</b>
	DTM02	<b>373</b> <b>Date</b> Date expressed as CCYYMMDD	<b>X</b> <b>DT 8/8</b>
X	DTM03	<b>337</b> <b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b> <b>TM 4/8</b>
X	DTM04	<b>623</b> <b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values.	<b>O</b> <b>ID 2/2</b>
X	DTM05	<b>1250</b> <b>Date Time Period Format Qualifier</b> Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	<b>X</b> <b>ID 2/3</b>
X	DTM06	<b>1251</b> <b>Date Time Period</b> Expression of a date, a time, or range of dates, times or dates and times	<b>X</b> <b>AN 1/35</b>

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

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	CTT01	354 <b>Number of Line Items</b> Total number of line items in the transaction set Number of IT1 segments within this transaction set.	M N0 1/6
X	CTT02	347 <b>Hash Total</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O R 1/10
X	CTT03	81 <b>Weight</b> Numeric value of weight	X R 1/10
X	CTT04	355 <b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	CTT05	183 <b>Volume</b> Value of volumetric measure	X R 1/8
X	CTT06	355 <b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	CTT07	352 <b>Description</b> A free-form description to clarify the related data elements and their content	O AN 1/80

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

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

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	SE01	96 <b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329 <b>Transaction Set Control Number</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9