

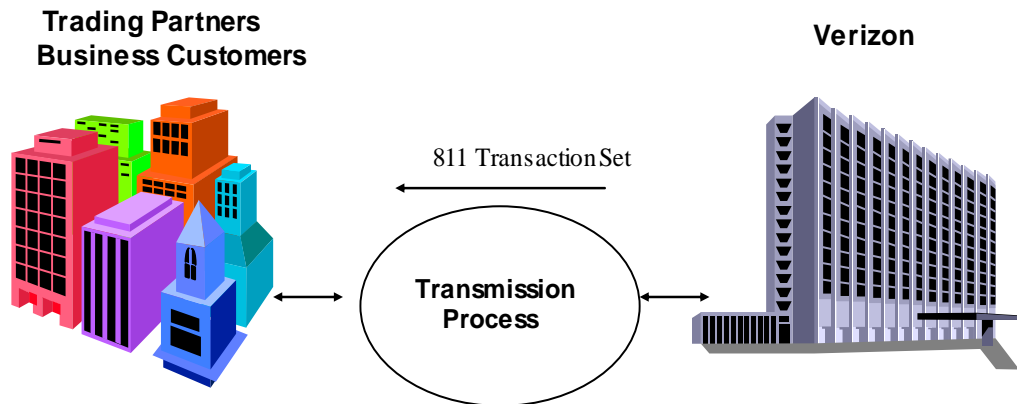


## EDI Billing Implementation Guide

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### VB811 Transaction Set – Appendix A

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## A. Segment and Data Element Use

TCIF Guideline Appendix B in Section 10.4 can be ordered from Alliance for Telecommunications Industry Solutions (ATIS)-sponsored Ordering and Billing Forum (OBF) which was formerly called TCIF (<http://www.atis.org/>).

# 811

## Consolidated Service Invoice/Statement

### Functional Group=CI

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

Notes:

**2/010** 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.

**2/210** The group level is defined by at least one occurrence of the IT1 loop which may only appear at the group level.

**2/390** The SLN loop may only appear at the charge detail level.

**2/590** The TCD loop may only appear at the line detail level.

**2/620** The USD loop may only appear at the line detail level.

**3/115** The number of line items (CTT01) is the accumulation of the number of IT1 segments.

User: This Customer Guideline explains Verizon's ' implementation of the Consolidated Services Invoice/Statement Transaction Set 811 for billing telephone invoices. Where ever possible, Verizon adheres to EDI standards set forth by the American National Standards Institute (ANSI) and the Accredited Standards Committee (ASC) X12 in Release 00410. This guideline should be used with the Telecommunications Industry Forum (TCIF) EDI Guidelines, Issue 9.4, available on the Internet at [http://www.atis.org/obf/etb\\_home.asp](http://www.atis.org/obf/etb_home.asp) Codes from an industry code list are available in TCIF Guideline Appendix B in Section 10.4.

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

**Heading:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M				Must use
020	BIG	Beginning Segment for Invoice	M				Must use
030	NTE	Note/Special Instruction	O				Used
040	CUR	Currency	O	1			Used
050	REF	Reference Identification	O				Used
070	ITD	Terms of Sale/Deferred Terms of Sale	O	5			Used
080	DTM	Date/Time Reference	O				Used
090	TXI	Tax Information	O				Used

LOOP ID - N1					>1		
100	N1	Name	O	1			Used
110	N2	Additional Name Information	O	2			Used
120	N3	Address Information	O	2			Used
130	N4	Geographic Location	O	1			Used
140	REF	Reference Identification	O	12			Used
150	PER	Administrative Communications Contact	O	3			Used

**Detail:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
-----	----	--------------	-----	---------	--------	-------	-------

LOOP ID - HL					>1		
010	HL	Hierarchical Level	M	1		N2/010	Must use

LOOP ID - LX					>1		
020	LX	Assigned Number	O	1			Used
030	SI	Service Characteristic Identification	O	8			Used
040	PID	Product/Item Description	O	200			Used
050	REF	Reference Identification	O	>1			Used
060	AMT	Monetary Amount	O	5			Used
070	DTM	Date/Time Reference	O	8			Used
080	TXI	Tax Information	O	>1			Used

LOOP ID - QTY					10		
090	QTY	Quantity	O	1			Used
100	SI	Service Characteristic Identification	O	1			Used

LOOP ID - NM1					1		
110	NM1	Individual or Organizational Name	O	1			Used
120	N2	Additional Name Information	O	1			Used
130	N3	Address Information	O	2			Used
140	N4	Geographic Location	O	1			Used
150	REF	Reference Identification	O	>1			Used
160	PER	Administrative Communications Contact	O	>1			Used
170	TXI	Tax Information	O	>1			Used

LOOP ID - ITA					>1		
180	ITA	Allowance, Charge or Service	O	1			Used
190	DTM	Date/Time Reference	O	1			Used
200	TXI	Tax Information	O	>1			Used

LOOP ID - IT1				999999		
210	IT1	Baseline Item Data (Invoice)	O	1	N2/210	Used
230	PID	Product/Item Description	O	200		Used
250	TXI	Tax Information	O	>1		Used
LOOP ID - ITA				10		
310	ITA	Allowance, Charge or Service	O	1		Used
LOOP ID - SLN				>1		
390	SLN	Subline Item Detail	O	1	N2/390	Used
400	SI	Service Characteristic Identification	O	2		Used
410	PID	Product/Item Description	O	200		Used
420	CUR	Currency	O	1		Used
430	INC	Installment InformationNM101	O	1		Used
440	ITA	Allowance, Charge or Service	O	10		Used
450	TXI	Tax Information	O	>1		Used
460	REF	Reference Identification	O	>1		Used
480	DTM	Date/Time Reference	O	10		Used
490	AMT	Monetary Amount	O	15		Used
LOOP ID - QTY				>1		
510	QTY	Quantity	O	1		Used
520	SI	Service Characteristic Identification	O	1		Used
LOOP ID - NM1				>1		
530	NM1	Individual or Organizational Name	O	1		Used
LOOP ID - TCD				>1		
590	TCD	Itemized Call Detail	O	1	N2/590	Used
600	SI	Service Characteristic Identification	O	2		Used
610	TXI	Tax Information	O	>1		Used
615	ITA	Allowance, Charge or Service	O	>1		Used
LOOP ID - QTY				>1		
617	QTY	Quantity	O	1		Used
LOOP ID - USD				>1		
620	USD	Usage-Sensitive Detail	O	1	N2/620	Used
625	SI	Service Characteristic Identification	O	2		Used
630	ITA	Allowance, Charge or Service	O	2		Used
640	TRF	Rating Factors	O	18		Used
LOOP ID - QTY				>1		
650	QTY	Quantity	O	1		Used

**Summary:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	TDS	Total Monetary Value Summary	M	1			Must use
<b>LOOP ID - ITA</b>					>1		
020	ITA	Allowance, Charge or Service	O	1			Used
030	DTM	Date/Time Reference	O	1			Used
<b>LOOP ID - BAL</b>					>1		
040	BAL	Balance Detail	O	1			Used
<b>LOOP ID - N1</b>					>1		
060	N1	Name	O	1			Used
<b>LOOP ID - BAL</b>					>1		
070	BAL	Balance Detail	O	1			Used
080	DTM	Date/Time Reference	O	1			Used
<b>LOOP ID - ITA</b>					>1		
090	ITA	Allowance, Charge or Service	O	1			Used
100	DTM	Date/Time Reference	O	2			Used
<b>LOOP ID - LX</b>					>1		
107	LX	Assigned Number	O	1			Used
108	REF	Reference Identification	O	1			Used
<b>LOOP ID - AMT</b>					>1		
109	AMT	Monetary Amount	O	1			Used
110	DTM	Date/Time Reference	O	1			Used
115	CTT	Transaction Totals	O	1		N3/115	Used
120	SE	Transaction Set Trailer	M	1			Must use
Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

# ISA

## Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments: The Interexchange Control Header is the first segment of the transmission. It indicates the start and identifies one or more functional groups.

### Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ISA01	I01	Authorization Information Qualifier Description: <b>Code to identify the type of information in the Authorization Information.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00      No Authorization Information Present				
ISA02	I02	Authorization Information Description: <b>Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01).</b>	M	AN	10/10	Must use
		User: <i>(10 Spaces) unless mutually agreed to by Verizon</i>				
ISA03	I03	Security Information Qualifier Description: <b>Code to identify the type of information in the Security Information.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 00      No Security Information Present				
ISA04	I04	Security Information Description: <b>This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03).</b>	M	AN	10/10	Must use
		User: <i>(10 Spaces)</i>				
ISA05	I05	Interchange ID Qualifier Description: <b>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 01      Duns (Dun & Bradstreet)				
ISA06	I06	Interchange Sender ID Description: <b>Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element.</b>	M	AN	15/15	Must use
		User: <i>107212169CAB (Verizon DUNS number for CABS billing Systems)</i> <i>107212169CBS (Verizon DUNS number for CBSS billing system)</i> <i>107212169CRS (Verizon DUNS number for CRIS billing systems)</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																		
		<p><b>107212169ESG (Verizon DUNS number for expresTRAK and NBBE systems)</b></p> <p><b>107212169SSB (Verizon DUNS number for SSB billing system)</b></p> <p><b>107212169V5 (Verizon DUNS number for Vision V5 billing System)</b></p> <p><b>VERIZONBUSINESS (Verizon DUNS number for GCS, Dispatch 1, ICI Credit Notes, ICI Debit Notes, IX Plus, NCBS (IBRS/Vision), Prime Biller International, Prime Biller US OPCP, SingleView, Terremark, Terremark Aria Billingand WIN systems).</b></p>																						
ISA07	I05	<p>Interchange ID Qualifier Description: <b>Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Duns (Dun &amp; Bradstreet)</td> </tr> <tr> <td>08</td> <td>UCC EDI Communications ID (Comm ID)</td> </tr> <tr> <td>09</td> <td>X.121 (CCITT)</td> </tr> <tr> <td>12</td> <td>Phone (Telephone Companies)</td> </tr> <tr> <td>14</td> <td>Duns Plus Suffix</td> </tr> <tr> <td>16</td> <td>Duns Number With 4-Character Suffix</td> </tr> <tr> <td>17</td> <td>AMERICAN Bankers Association (ABA) Transit Routing Number</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	Code	Name	01	Duns (Dun & Bradstreet)	08	UCC EDI Communications ID (Comm ID)	09	X.121 (CCITT)	12	Phone (Telephone Companies)	14	Duns Plus Suffix	16	Duns Number With 4-Character Suffix	17	AMERICAN Bankers Association (ABA) Transit Routing Number	ZZ	Mutually Defined	M	ID	2/2	Must use
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ISA08	I07	<p>Interchange Receiver ID Description: <b>Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.</b></p> <p>User: <b>Customer supplied Receiver ID</b></p>	M	AN	15/15	Must use																		
ISA09	I08	<p>Interchange Date Description: <b>Date of the interchange.</b></p> <p>User: <b>Interchange Submit Date</b></p>	M	DT	6/6	Must use																		
ISA10	I09	<p>Interchange Time Description: <b>Time of the interchange.</b></p> <p>User: <b>Interchange Submit Time</b></p>	M	TM	4/4	Must use																		
ISA11	I10	<p>Interchange Control Standards Identifier Description: <b>Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>U</td> <td>U.S. EDI Community of ASC X12 and UCS</td> </tr> </tbody> </table>	Code	Name	U	U.S. EDI Community of ASC X12 and UCS	M	ID	1/1	Must use														
Code	Name																							
U	U.S. EDI Community of ASC X12 and UCS																							



ISA12	I11	Interchange Control Version Number Description: <b>This version number covers the interchange control segments.</b>	M	ID	5/5	Must use						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>00401</td> <td>Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table>	Code	Name	00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997						
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ISA13	I12	Interchange Control Number Description: <b>A control number assigned by the interchange sender.</b>	M	N0	9/9	Must use						
ISA14	I13	Acknowledgment Requested Description: <b>Code sent by the sender to request an interchange acknowledgment (TA1).</b>	M	ID	1/1	Must use						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Acknowledgment Requested</td> </tr> </tbody> </table>	Code	Name	0	No Acknowledgment Requested						
Code	Name											
0	No Acknowledgment Requested											
ISA15	I14	Usage Indicator Description: <b>Code to indicate whether data enclosed by this interchange envelope is test, production or information.</b>	M	ID	1/1	Must use						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Production Data</td> </tr> <tr> <td>T</td> <td>Test Data</td> </tr> </tbody> </table>	Code	Name	P	Production Data	T	Test Data				
Code	Name											
P	Production Data											
T	Test Data											
ISA16	I15	Component Element Separator Description: <b>Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator.</b>	M		1/1	Must use						
		User: <b>Verizon does not allow @ to be used as a separator.</b>										

# GS

## Functional Group Header

Pos: Max: 1  
- Mandatory  
Loop: N/A Elements: 8

To indicate the beginning of a functional group and to provide control information:

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
GS01	479	Functional Identifier Code Description: <b>Code identifying a group of application related transaction sets.</b>	M	ID	2/2	Must use

Code	Name
CI	Consolidated Service Invoice/Statement (811)

GS02	142	Application Sender's Code Description: <b>Code identifying party sending transmission; codes agreed to by trading partners.</b>	M	AN	2/15	Must use
------	-----	--	---	----	------	----------

User:	
Product/Billing Services	GS02 Value3
CABS	CABS-V1
CBSS	CBSS-V1
CRIS – North (NE/NY)	CRIS-V1
CRIS – South (NPD)	NPD-V1
Dispatch 1	D1-V1
E-Trak/NBBE (MDVW)	ETRAK-V1
GCS	GCS-V1
IBRS (Formerly VNET®)	VNET-V1
ICI Credit Notes	ICI Credit-V1
ICI Debit Notes	ICI Debit-V1
IXPlus	IXPLUS-V1
NBBE	NBBE-V1
Prime Biller International	PB-V1
Prime Biller Next Gen	PBNG-V1
PBEE (Formerly SingleView)	SVIEW-V1
SSB	SSB-V1
Terremark	TRMK-V1
Terremark Aria Billing	TRMA-V1

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_				
		Verizon Billing Engine (VBE) VBE-V1 VISION VISION-V1 VISION V5 V5-V1 Wholesale Invoicing Network WIN-V1								
GS03	124	Application Receiver's Code Description: <b>Code identifying party receiving transmission. Codes agreed to by trading partners.</b> User: <b>Receiver's ID, the same value as used in ISA08, or another code mutually agreed to by Verizon and the Trading Partner</b>	M	AN	2/15	Must use				
GS04	373	Date Description: <b>Date expressed as CCYYMMDD.</b> User: <b>Functional Group Date (CCYYMMDD)</b>	M	DT	8/8	Must use				
GS05	337	Time Description: <b>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).</b> User: <b>Functional Group Time (HHMM)</b>	M	TM	4/8	Must use				
GS06	28	Group Control Number Description: <b>Assigned number originated and maintained by the sender.</b> User: <b>Functional Group Control Number</b>	M	N0	1/9	Must use				
GS07	455	Responsible Agency Code Description: <b>Code used in conjunction with Data Element 480 to identify the issuer of the standard.</b>  <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table>	Code	Name	X	Accredited Standards Committee X12	M	ID	1/2	Must use
Code	Name									
X	Accredited Standards Committee X12									
GS08	480	Version / Release / Industry Identifier Code Description: <b>Code indicating the version, release, sub release, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and sub release, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed.</b> User: <b>004010 (Version 4 Release 1)</b>  <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>004010</td> <td>Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table>	Code	Name	004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use
Code	Name									
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997									

# ST

## Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number:

Semantics:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ST01	143	Transaction Set Identifier Code Description: <b>Code uniquely identifying a Transaction Set.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u> 811      Consolidated Service Invoice/Statement				
ST02	329	Transaction Set Control Number Description: <b>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set.</b>	M	AN	4/9	Must use
		User: <b><i>This value must match the value in SE02 of the Transaction Set Trailer (SE).</i></b>				

# BIG Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 3

To indicate the beginning of an invoice transaction set and transmit trading partner identifying numbers and dates:

Semantics:

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

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
BIG01	373	Date Description: <b>Date expressed as CCYYMMDD.</b> User: <b>Account Bill Date</b>	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: <b>Identifying number assigned by issuer.</b> User: <b>If the billing system doesn't provide an Invoice Number, Verizon will create a unique identifying invoice number by adding the account billing date as a suffix to the account number.</b>	M	AN	1/22	Must use
BIG07	640	Transaction Type Code Description: <b>Code specifying the type of transaction.</b>	O	ID	2/2	Used

### Master-Account:

Code	Name
CD	Consolidated Debit Invoice <b>Description:</b> A consolidated account that has billed amount greater than or equal to zero.
CE	Consolidated Credit Invoice <b>Description:</b> A consolidated account with a billed amount less than zero.
CF	Consolidated Debit Memo <b>Description:</b> The term 'Memo' (as part of the DE640 code set) is used in BIG07 when the 811 invoice is informational only. No payment is to be rendered from a memo transaction.
CG	Consolidated Credit Memo <b>Description:</b> The term 'Memo' (as part of the DE640 code set) is used in BIG07 when the 811 invoice is informational only. No payment is to be rendered from a memo transaction.
FD	Consolidated Invoice, Final Bill <b>Description:</b> A final (last) bill for a discontinued consolidated account.

### Sub-Account:

Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
		<u>Code</u> <u>Name</u>					
		CR    Credit Memo for a consolidated account.					
		DR    Debit Memo					
		<b>Description:</b> A component of a consolidated account depicting charges greater than or equal to zero.					
		FE    Memorandum, Final Bill					
		<b>Description:</b> The final (last) bill for a non-payable invoice. (memo)					
		PB    Partial Bill					
		<b>Description:</b> IX Plus sub-account and group pays, but the sub-account has a balance that the sub-account is responsible for.					

**Stand-Alone-Account:**

	<u>Code</u> <u>Name</u>
	CI    Consolidated Invoice for a non-consolidated account.
	CN    Credit Invoice for a non-consolidated account.
	DI    Debit Invoice
	<b>Description:</b> A non-consolidated account with a billed amount greater than or equal to zero.
	FB    Final Bill.
	<b>Description:</b> A final (last) bill for a discontinued non-consolidated account.
	ME    Memorandum
	<b>Description:</b> Code to indicate that this bill is for Information only for a non-consolidated account.
	RG    Revised Final Bill
	<b>Description:</b> Code to indicate that the last bill has been recalculated due to the receipt of delayed usage, or credits; to identify unpaid overdue final accounts, which are reissued each month (non-consolidated account).

# NTE

## Note/Special Instruction

Pos: 030	Max: 100
Heading - Optional	
Loop: N/A	Elements: 2

To indicate the beginning of an invoice transaction set and transmit trading partner identifying numbers and dates:

Semantics:

1. NTE01 is the Note Reference Code.

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine process able.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
NTE01	363	Note Reference Code Description: <b>Code identifying the functional area or purpose for which the note applies.</b>		ID	3/3	
		<u>Code</u> <u>Name</u>				
		ADD    Additional information				
		CCG    Customer Description				
		GEN    Entire transaction set				
		PAY    Payables				
NTE02	352	Description Description: <b>A free-form description to clarify the related data elements and their content.</b>	M	AN	1/80	

Note: The invoice messages can exceed the number of NTE Segments allowed. Please review the messages on the paper invoice or PDF invoice available online.

# CUR

## Currency

Pos: 040	Max: 1
Heading - Optional	
Loop: N/A	Elements: 4

To specify the currency (dollars, pounds, francs, etc...) used in a transaction

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
CUR01	98	Entity Identifier Code Description: <b>Code identifying the organizational entity, a physical location, property or an individual. Refer to 004010 Data Element Dictionary for acceptable code values.</b>	M	ID	2/3	

Code   Name

	VN	Vendor				
CUR02	100	Currency Code Description: <b>Code (Standard ISO) for country in whose currency the charges are specified.</b>	M	ID	3/3	

USER: This is the currency EDI 811 is presented in.

Code   Name

AED	United Arab Emirates Dirham
ALL	Albanian Lek
ANG	Netherlands Antilles Guilder
ARS	Argentine Peso
AUD	Australian Dollar
AWG	Aruban Guilder
BBD	Barbados Dollar
BGN	Bulgarian Lev
BHD	Bahraini Dinar
BIF	Burundi Franc
BRL	Brazilian Real
BWP	Botswana Pula
CAD	Canadian Dollar
CHF	Swiss Franc
CLF	Chile, Unidad de Fomento
CLP	Chilean Peso
CNY	China Renminbi
COP	Colombian Peso
CZK	Czech Koruna
DKK	Danish Krone
ECS	Ecuadorean Sucre
EGP	Egyptian Pound
EUR	Euro
FJD	Fiji Dollar
GBP	British Pound Sterling
HKD	Hong Kong Dollar



Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
		HRK Croatian KunaHUF Hungarian Forint					
		IDR Indonesian Rupiah					
		ILS Israeli Shekel					
		INR Indian Rupee					
		JMD Jamaican Dollar					
		JOD Jordanian Dinar					
		JPY Japanese Yen					
		KES Kenyan Shilling					
		KRW South Korea WON					
		KZT Kazakhstan Tenge					
		LTL Lithuanian Litas					
		LVL Latvian Lats					
		MAD Moroccan Dirham					
		MDL Moldova Leu					
		MUR Mauritis Rupee					
		MXN Mexico Peso					
		MYR Malaysian Ringgit					
		NAD Namibia Dollar					
		NGN Nigerian Naira					
		NOK Norwegian Krone					
		NZD New Zealand Dollar					
		OMR Omani Rial					
		PAB Panamanian Balboa					
		PEN Peruvian Sol					
		PHP Philippines Peso					
		PKR Pakistan Rupee					
		PLN Polish Zloty					
		PYG Paraguay Guarani					
		QAR Qatar Rial					
		ROL Romanian Leu					
		RON New Romanian Leu					
		RSD Serbian Dinar					
		RUB Russian Ruble					
		SAR Saudi Riyal					
		SCR Seychelles Rupee					
		SDR (Special Drawing Rights)					
		SEK Swedish Krona					
		SGD Singapore dollar					
		SVC El Salvador Colon					
		THB Thai Baht					
		TND Tunisia DinarTRY New Turkish Lira					
		TTD Trinidad/Tobago Dollar					
		TWD Taiwan Dollar					
		UAH Ukrainian Grivna					
		USD US Dollar					
		UYU Uruguay Peso Uruguayo					
		VEB Venezuelan Bolivar					
		VEF Venezuelan Bolivar Fuerte					
		VES Venezuelan bolivar soberano					
		XAF CFA Franc BEAC					
		ZAR South African Rand					
		ZMK Zambian Kwacha					
CUR03	280	Exchange Rate Description: <b>Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.</b>		O	R	4/10	

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		USER: This is the exchange rate that the EDI 811 currency amounts can be multiplied by to convert them into the currency in CUR05.				
CUR05	100	Currency Code Description: <b>Code (Standard ISO) for country in whose currency the charges are specified.</b>	O	ID	3/3	
		<u>Code</u> <u>Name</u>				
		AED    United Arab Emirates Dirham				
		ANG    Netherlands Antilles Guilder				
		ARS    Argentine Peso				
		AUD    Australian Dollar				
		AWG    Arubian Guilder				
		BBD    Barbados Dollar				
		BHD    Bahraini Dinar				
		BIF    Burundi Franc				
		BRL    Brazilian Real				
		BWP    Botswana Pula				
		CAD    Canadian Dollar				
		CHF    Swiss Franc				
		CLF    Chile, Unidad de Fomento				
		CLP    Chilean Peso				
		CNY    China Renminbi				
		COP    Colombian Peso				
		CZK    Czech Koruna				
		DKK    Danish Krone				
		ECS    Ecuadorean Sucre				
		EUR    Euro				
		FJD    Fiji Dollar				
		GBP    British Pound Sterling				
		HKD    Hong Kong Dollar				
		HRK    Croatian KunaHUF    Hungarian Forint				
		IDR    Indonesian Rupiah				
		ILS    Israeli Shekel				
		INR    Indian Rupee				
		JMD    Jamaican Dollar				
		JOD    Jordanian Dinar				
		JPY    Japanese Yen				
		KES    Kenyan Shilling				
		KRW    South Korea WON				
		KZT    Kazakhstan Tenge				
		LVL    Latvian Lats				
		MAD    Moroccan Dirham				
		MDL    Moldova Leu				
		MUR    Mauritis Rupee				
		MXN    Mexico Peso				
		MYR    Malaysian Ringgit				
		NAD    Namibia Dollar				
		NOK    Norwegian Krone				
		NZD    New Zealand Dollar				
		OMR    Omani Rial				
		PAB    Panamanian Balboa				
		PEN    Peruvian Sol				
		PHP    Philippines Peso				
		PKR    Pakistan Rupee				
		PLN    Polish Zloty				
		PYG    Paraguay Guarani				

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Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
	QAR	Qatar Rial					
	ROL	Romanian Leu					
	RON	New Romanian Leu					
	RUB	Russian Ruble					
	SAR	Saudi Riyal					
	SCR	Seychelles Rupee					
	SDR	(Special Drawing Rights)					
	SEK	Swedish Krona					
	SGD	Singapore dollar					
	SVC	El Salvador Colon					
	THB	Thai Baht					
	TND	Tunisia Dinar					
	TRY	New Turkish Lira					
	TTD	Trinidad/Tobago Dollar					
	TWD	Taiwan Dollar					
	UAH	Ukranian Grivna					
	USD	US Dollar					
	UYU	Uruguay Peso Uruguayo					
	VEB	Venezuelan Bolivar					
	VEF	Venezuelan Bolivar Fuerte					
	VES	Venezuelan bolívar soberano					
	XAF	CFA Franc BEAC					
	ZAR	South African Rand					
	ZMK	Zambian Kwacha					

# REF

## Reference Identification

Pos: 050	Max:
Heading - Optional	
Loop: N/A	Elements: 3

To specify account, billing, and accounts receivable numbers:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

User: This REF segment is used to provide information about the account, including account number, account receivable number, billing number, Revenue Accounting Code (RAO) and state code.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: **Code qualifying the Reference Identification.**

User: ***The value '11' is only used with expressTRAK accounts***

Code	Name
06	System number <b>Description:</b> The actual Verizon billing system that produced this bill. This is needed for National Summary Bills. On National Summary Bills the ISA06 will contain 107212169ESG. This will allow the customer to identify what billing system produced the sub-account's EDI 811.
11	Account Number <b>Description:</b> For expressTrak and NBBE customers only: a cross reference to the old account number, usually the billing telephone number, used in the legacy billing system.
12	Billing Account <b>Description:</b> Account number under which billing is rendered.
14	Master Account Number <b>Description:</b> Account number used to represent individual billing accounts which have been consolidated and/or summarized.
I5	Invoice Identification
1J	Facility ID Number
5B	Supplemental Account Number <b>Description: Additional Location Identifier</b>
61	Tax Authority Identification Number
79	Cost Center/Account
AAW	Agency Assigned Number
ACB	Region
AH	Agreement Number <b>Contains the Master Service Agreement</b>
AP	Accounts Receivable Number <b>Description:</b> Information required to remit payment.
BAD	State Tax Identification Number
BN	Booking Number

CT	Contract Number
DD	Document Identification Code (Document Number)
IK	Invoice Number
	<b>Contains the Local and Tax Regulatory Invoice Number/ID (for example in Portugal, this is the SAF-T Invoice Number)</b>
IT	Internal Customer Number
	<b>Contains the Global Customer Hierarchy (GCH) ID</b>
LU	Location Number
	<b>Description:</b> Rev Location
PO	Purchase Order PX                      Prior Invoice Number
	<b>Description:</b> The original invoice number this credit/debit is related to.
Q8	Registration Number
RE	<b>Description:</b> Verizon Internal 811 Release Number.
SU	<b>Description:</b> Verizon Internal use.
TX	Tax Exempt Number
U1	Regional Account Number
	<b>Description:</b> Customer Number (Corp ID)
VX	Value-Added Tax Registration Number (European)
ZX	Country Code
ZZ	<b>Description:</b> Verizon Electronic Billing Internal Identification = EBID

REF02	127	Reference Identification	X	AN	1/30	Used
Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>						

User:

**Account number as described from the value in REF01.**

**When REF01 is 'AP', the content is the identifier needed to apply payment.**

**When REF01 is 'RE', REF02 contains the following values concatenated together:**

<b>VZ450 version</b>	<b>(2 bytes)</b>
<b>VZ450 release</b>	<b>(2 bytes)</b>
<b>VZ450 date</b>	<b>(6 bytes)</b>
<b>State code</b>	<b>(2 bytes)</b>

**Note: for Prime Biller conferencing invoices, the following state codes have special meaning:**

**AU = Australia Bill Center**  
**EU = Euro Billing Center**  
**HK = Hong Kong Bill Center**  
**JP = Japan Bill Center**

**SG = Singapore Billing Center**  
**UK = United Kingdom Bill Center**  
**US = Chicago Bill Center**

**System ID** (2 bytes)  
**Database segment ID** (1 byte)

**When REF01 is '06", the value identifies the billing system that produced the bill:**

'01' = CRIS NE/NY  
'03' = CBSS  
'04' = expressTRAK  
'05' = CABS – former BA  
'07' = SSB  
'10' = Dispatch 1  
'13' = CRIS NPD  
'16' = CABS – former GTE  
'22' = NBBE/EA  
'IC' = ICI Credit Notes  
'ID' = ICI Debit Notes 'M1' = IBRS  
'M2' = Vision  
'M3' = IX PLUS  
'M7' = Mega Audio Conference  
'MA' = GCS

**NOTE:** The "MA" billing systems contains the following

*sub-billing systems:*

- GCS (Cycle 1 - 5)
- GCS F&E (Cycle 8):
- GCS GIS (Cycle 9):
- GIS EMEA (Cycle 10)
- GIS ASIA PAC (Cycle 11)
- ASIA PAC VOIP (Cycle 15 & 16)
- GCS (Cycle 30)
- GVV (Cycle 32)
- Card Services (Cycle 32)
- GCS Mega (Cycle 36)
- Global Managed Mobility (Cycle 40)

'MB' = LBS  
'MI' = Millennium  
'MH' = SingleView  
'ML' = WIN

*'PO' = Primebiller Next Gen*  
*'T1' = Terremark*  
*'T4' = Terremark Aria Billing*  
*'V5' = Vision V5*  
*'VB' = Verizon Billing Engine (VBE)*  
*When the Billing System (REF\*06) is VB and REF01 is '6P',*  
*REF02 contains the VBE Configuration ID*

REF03      352      Description      X      AN      1/80      Used  
Description: **A free-form description to clarify the related data elements and their content.**

*When REF01 is '06' AND REF02 = 'M3' (IX Plus): Then REF03 will contain the following values to distinguish the type of balancing used by the by the IX Plus Group Account:*

*"1 : FULL FINANCIAL RESP"*  
*"2 : PART FINANCIAL RESP"*

*When REF01 is '06' AND*

*REF02 = '01' (CRIS NE/NY) OR*  
*REF02 = '03' (CBSS) OR*  
*REF02 = '04' (eTRAK) OR*  
*REF02 = '13' (CRIS NPD):*

*Then REF03 will contain 'APB' if the VB811 was produced via the APB process.*

*When REF01 is '06' AND*

*REF02 = 'IC' (ICI Credit Notes) OR*  
*REF02 = 'ID' (ICI Debit Notes):*

*Then REF03 will contain the billing system that originally created the charge that the Credit/Debit is related to.*

*When REF01 is '06' AND*

*REF02 = 'PO' (Primebiller Next Gen)*

*Then REF03 will contain 'RAPID DELIVERY' for Verizon Rapid Delivery accounts.*

*When REF01 is '06' AND*

*REF02 = '01' (CRIS North (NE/NY)):*

*If this is a LEC North (NE/NY) account, billed via Vision V5, then The REF03 will contain 'V5'. The VB811 will be populated the same as a Vision V5 VB811*

**When REF01 is '06' AND**

**REF02 = '04' (expressTRAK):**

*If this is a LEC MVD (MD, VA or DC) account, billed via Vision V5, then the REF03 will contain 'V5'. The VB811 will be populated the same as a Vision V5 VB811*

**When REF01 is '06' AND**

**REF02 = '13' (CRIS NPD):**

*If this is a LEC NPD account, billed via Vision V5, then REF03 will contain 'V5'. The VB811 will be populated the same as a Vision V5 VB811*

**When REF01 is '06' AND**

**REF02 = '22' (NBBE/EA):**

*If this is a former NBBE/EA account, billed via Vision V5, then the REF03 will contain 'V5'. The VB811 will be populated the same as a Vision V5 VB811*

**When REF01 is '12' AND**

*this is a LEC NPD account, billed via Vision V5 (REF\*13\*V5) then the REF02 will contain the NPD account number and the REF03 will contain Vision V5 account number*

**When REF01 is '12' AND**

*this is a LEC North (NE/NY) account, billed via Vision V5(REF\*01\*V5) the REF02 will contain the North (NE/NY) account number and the REF03 will contain Vision V5 account number*

**When REF01 is '12' AND**

*this is a LEC MVD account, billed via Vision V5(REF\*01\*V5) then the REF02 will contain the LEC MVD (expressTRAK) account number and the REF03 will contain Vision V5 account number*

**When REF01 is '12' AND**

*this is a former NBBE/EA account, billed via Vision V5(REF\*01\*V5) the REF02 will contain the former NBBE/EA account number and the REF03 will contain Vision V5 account number*

**When REF01 is '14' AND**



*this is a LEC NPD Master-Account, billed via Vision V5  
(REF\*13\*V5)*

*then the REF02 will contain the NPD Master-Account number and  
the REF03 will contain Vision V5 Master-Account number*

**When REF01 is '14' AND**

*this is a LEC North (NE/NY) Master-Account, billed via Vision  
V5(REF\*01\*V5) then the REF02 will contain the North (NE/NY)  
Master-Account number and the REF03 will contain Vision V5  
Master-Account number*

**When REF01 is '14' AND**

*this is a LEC MVD Master-Account, billed via Vision  
V5(REF\*01\*V5) then the REF02 will contain the LEC MVD  
(expressTRAK) Master-Account number and the REF03 will  
contain Vision V5 Master-Account number*

**When REF01 is '14' AND**

*this is a former NBBE/EA Master-Account, billed via Vision  
V5(REF\*01\*V5) then the REF02 will contain the former NBBE/EA  
Master-Account number and the REF03 will contain Vision V5  
Master-Account number*

**When REF01 is 'AAW', the value identifies the agency  
'Argentine Federal Tax Authorities (AFIP) electronic authorization code  
(C.A.E.) Number'**

**When REF01 is 'I5', the value identifies the Government assigned  
Invoice Sequence Number**

**Note: Most LATAM governments provide the Invoice Sequence  
Number and this is displayed on the PDF invoice (the Verizon Invoice  
Number may not appear on the PDF invoice)**

**When REF01 is 'ZZ', REF03 will contain the level of billing for the  
VB811**

# ITD Terms of Sale/Deferred Terms of Sale

Pos: 070	Max: 5
Heading - Optional	
Loop: N/A	Elements: 5

To specify if Late Payment charges could apply:

**Syntax:**

- L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantics:**

- ITD15 is the percentage applied to a base amount used to determine a late payment charge.

**Comments:**

- 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.

**User:**

To specify due date and late payment terms.

**Element Summary:**

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITD01	336	Terms Type Code	O	ID	2/2	Used

**Description: Code identifying type of payment terms.**

User: When no Late Payment charge applies or for accounts that are exempt from Late Payment charges, the value in ITD01 is '3'; when Late Payment charges can be applied, the value in ITD01 is '18'.

IF two ITDs are provided the ITD with ITD01 = '3' indicates the payment due date. The ITD with ITD01 = '18' indicates when Late Payment charges become applicable.

Code	Name
03	Fixed Date
05	Discount not applicable
10	Instant
18	Fixed Date, Late Payment Penalty Applies

**Description:** Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date

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ITD02	333	Terms Basis Date Code Description: <b>Code identifying the beginning of the terms period.</b> User: <i>This data element will be passed on non-memo invoices, or on invoices with a debit amount.</i>	O	ID	1/2	Used
		<u>Code</u> <u>Name</u> 3        Invoice Date				
ITD06	446	Terms Net Due Date Description: <b>Date when total invoice amount becomes due expressed in format CCYMMDD.</b> User: <i>Pay by Date, after which Late payment Charge applies.</i>	O	DT	8/8	Used
ITD07	386	Terms Net Days Description: <b>Number of days until total invoice amount is due (discount not applicable).</b>	O	N0	1/3	Used
ITD12	352	Description <b>A free-form description to clarify the related data elements and their content.</b>	O	AN	1/80	Used

# DTM Date/Time Reference

Pos: 080	Max: 10
Heading - Optional	
Loop: N/A	Elements: 52

To specify the Bill From and Bill Through dates:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

User: To specify billing period.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b> User: <i>Indicating the bill from and bill through dates of the account.</i>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u> 003      Invoice <i>Description: The original invoice date this credit/debit is related to.</i>				
	186	Invoice Period Start <b>Description:</b> When the billing period covered by an invoice begins; the Bill From date.				
	187	Invoice Period End <b>Description:</b> When the billing period covered by an invoice ends; the Bill Through date.				
	652	Assignment Recorded <i>Contains the Date related to the REF*AAW</i>				
	964	Bill <i>Contains the last Bill Date</i>				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used
DTM03	373	Time Description: <b>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).</b>	X	TM	4/8	Used
DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.	X	ID	2/3	Used
		<u>Code</u> <u>Name</u> <b>CM</b> <b>Date in Format CCYYMM</b>				
DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used

# TXI

## Tax Information

Pos: 090	Max:
Heading - Optional	
Loop: N/A	Elements: 2

To specify tax exemption information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

User: This segment will be used to convey tax exempt status only.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use
<b>User: <i>Indicates the tax jurisdiction.</i></b>						
		<u>Code</u> <u>Name</u>				
		CA    City Tax <b>Description:</b> Service Tax imposed by City				
		CG    Federal Value-Added Tax (GST) on Goods <b>User Note: "CG" is used for GST Goods and Services</b>				
		CT    County Tax				
		FD    Federal Tax <b>Description:</b> Usage tax imposed by federal (US and Canadian) government				
		LO    Local Tax (Not Sales Tax) <b>Description:</b> Service tax imposed on a local level				
		MP    Municipal Tax <b>Description:</b> Service tax imposed by a municipality				
		OH    Other Taxes				
		SP    State or Provincial Tax				
		ST    State Sales Tax				
		VA    Value Added Tax				
TXI06	441	Tax Exempt Code Description: <b>Code identifying exemption status from sales and use tax.</b>	X	ID	1/1	Used
		<u>Code</u> <u>Name</u>				
		1    Yes (Tax Exempt)				

# N1

## Name

Pos: 100	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

To identify the Billing and Billed trading partners by name:

Syntax:

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
N101	98	Entity Identifier Code Description: <b>Code identifying an organizational entity, a physical location, property or an individual.</b>	M	ID	2/3	Must use
		<u>Code</u> <u>Name</u>				
		8W    Payment Address				
		AAA    Sub-account				
		LW    Customer				
		O2    Originating Company				
		<b>User Note: "O2" is used for the Operating Company address</b>				
		O5    Merchant Bank				
		PE    Payee				
		<b>Description:</b> Indicating the Billing Trading Partner				
		PR    Payer				
		<b>Description:</b> Indicating the Billed Trading partner				
		RI    Remit To				
		<b>User Note: Remit address for payments in non-local currency</b>				
N102	93	Name Description: <b>Free-form name</b>	X	AN	1/60	Used

# N2

## Additional Name Information

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

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
N201	93	<b>Name</b> Description: <b>Free-form name</b>	M	AN	1/60	Must use
N202	93	Name Description: <b>Free-form name</b>	O	AN	1/60	Used

# N3

## Address Information

Pos: 120	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party:

Element Summary:

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



# N4

## Geographic Location

Pos: 130	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

To specify the geographic place of the named party:

Syntax:

C0605 -- If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.
3. N405/N406 is to be used when the input data is not available as individual data elements.

User: Interpreted from N101 value.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage										
N401	19	City Name Description: <b>Free-form text for city name.</b>	O	AN	2/30	Used										
N402	156	State or Province Code Description: <b>Code (Standard State/Province) as defined by appropriate government agency.</b>	O	ID	2/2	Used										
N403	116	Postal Code Description: <b>Code defining international postal zone code excluding punctuation and blanks (zip code for United States).</b>	O	ID	3/15	Used										
N404	26	Country Code Description: <b>N404 Country Code only populated if State is blank indicating an international address.</b>	O	ID	2/3	Used										
N405	309	Location Qualifier Description: <b>Code identifying type of location</b>	X	ID	1/2	Used										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>CC</td> <td>Country</td> </tr> <tr> <td>CY</td> <td>County/Parish</td> </tr> <tr> <td>DR</td> <td>District of Residence</td> </tr> <tr> <td>SP</td> <td>State/Province</td> </tr> </table> <p>Refer to 004010 Data Element Dictionary for all acceptable code values.</p>	<u>Code</u>	<u>Name</u>	CC	Country	CY	County/Parish	DR	District of Residence	SP	State/Province				
<u>Code</u>	<u>Name</u>															
CC	Country															
CY	County/Parish															
DR	District of Residence															
SP	State/Province															
N406	310	Location Identifier Description: <b>Code which identifies a specific location</b>	O	AN	1/30	Used										

# REF

## Reference Identification

Pos: 140    Max: 12  
 Heading - Optional  
 Loop: N1    Elements: 3

To specify identifying information:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
REF01	128	Reference Identification Qualifier Description: <b>Code qualifying the Reference Identification.</b>	M	ID	2/3	Must use
		<u>Code</u> <u>Name8J</u> Society for Worldwide Interbank Financial Telecommunications (SWIFT)				
		8N    Receiving company Identifier (ACNA)				
		CR    Customer Reference Number				
		IS    Invoice Number Suffix				
		<b>User: Used to identify Regional Accounting Office (RAO)</b>				
		Q8    Registration Number				
		VX    Value-Added Tax Registration Number (Europe)				
		XY    Other unlisted type of reference number				
REF02	127	Reference Identification Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>	X	AN	1/30	Used
		<b>User: Customer supplied authorization or identification number.</b>				
REF03	352	Description Description: <b>A free-form description to clarify the related data elements and their content</b>	X	AN	1/80	Used

# PER

## Administrative Communications Contact

Pos: 150	Max: >1
Heading - Optional	
Loop: N1	Elements: 3

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

Syntax:

P0304 -- If either PER03 or PER04 are present, then the others are required.

P0506 -- If either PER05 or PER06 are present, then the others are required.

P0708 -- If either PER07 or PER08 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
PER01	366	Contact Function Code Description: <b>Code identifying the major duty or responsibility of the person or group named.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> TR      Technical Marketing Rep.				
PER03	365	Communication Number Qualifier Description: <b>Code identifying the type of communication number.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u> TE      Telephone				
PER04	364	Communication Number Description: <b>Complete communications number including country or area code when applicable.</b>	X	AN	1/80	Used

# HL

## Hierarchical Level

Pos: 010	Max:
Detail - Mandatory	
Loop: HL	Elements: 4

To identify dependencies among and the content of hierarchically related groups of data segments:

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.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of a 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

User: When the HL segment for a Level 4 indicates that there are no children, multiple IT1 loops may appear at this level; otherwise, there will only be one IT1 loop per HL loop. As in the HL segment at level 4, when the HL segment for level 8 indicates there are no children, multiple SLN loops may appear within one HL 8 loop; otherwise, there will only be one SLN loop per HL 8 loop.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
HL01	628	Hierarchical ID Number Description: <b>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.</b> User: <b>Sequential number assigned to this HL segment.</b>	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: <b>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.</b>	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: <b>Code defining the characteristic of a level in a hierarchical structure.</b>	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u>				
		1    Service/Billing Provider <b>Description:</b> Code identifying the telecommunications company providing service/billing.				
		2    Billing Arrangement <b>Description:</b> Code identifying a specified billing arrangement.				
		3    Sub-Billing Arrangement <b>Description:</b> Code identifying a more detailed billing arrangement.				
		4    Group <b>Description:</b> Code identifying a group of charges on the bill.				
		5    Category				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>Description:</b> Code identifying the sub-division of the group.				
	6	Sub-Category				
		<b>Description:</b> Code identifying a further breakdown of the category.				
	7	Type				
		<b>Description:</b> Code identifying a further breakdown of the sub-category.				
	8	Charge Detail				
		<b>Description:</b> Code identifying the lowest level of charges within a billing arrangement.				
	9	Line Detail				
		<b>Description:</b> Code identifying the supporting detail associated with the charge or group.				
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		Description: <b>Code indicating if there are hierarchical child data segments subordinate to the level being described.</b>				
		User: <b>Required by TCIF.</b>				
		<b>Code</b>				
		<b>Name</b>				
	0	No Subordinate HL Segment in This Hierarchical Structure.				
	1	Additional Subordinate HL Data Segment in This Hierarchical Structure.				

**LX**

**Assigned Number**

Pos: 020	Max: 1
Detail - Optional	
Loop: LX	Elements: 1

To reference a line number in a transaction set:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
LX01	554	Assigned Number <b>Description: The number assigned for differentiation within a transaction set.</b>	M	NO	1/6	Must use

# SI Service Characteristic Identification

Pos: 030	Max: 8
Detail - Optional	
Loop: LX	Elements: 21

To specify service characteristic data:

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list (TCIF Additional Code Lists) qualifying the type of service characteristics.</b>	M	AN	2/2	Must use

User: *See TCIF section 10.4 for complete list of valid values.*

**For Circuits and Circuit Components:**

- *CN in SI02 means that all other SI Pairs on the SI Segment pertain to the Originating/Primary portion.*
- *ES in SI02 means that all other SI Pairs on the SI Segment pertain to the Termination portion.*

Verizon uses the following Service Characteristic Qualifier values

**'99' Continuation Code**  
*Used only when preceding DE234 exceeds maximum length of Field. For example Continuation of location or continuation of CLI*

**'BG' Location Billing Group.** *Identifies a group of stations by customer location for the application of billing rates.*

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'BN' Billing Number</b>				
		<b>'BS' Billing Structure Code</b>				
		<b>'BT' Basic Service Type</b>				
		<b>'CC' Calling Card Number</b>				
		<b>'CN' Circuit ID or Circuit Component ID (HL6)</b>				
		<b>'CO' NXX Code</b>				
		<b>'CX' Centrex Location</b>				
		<b>'DE' Primary/Originating Exchange Carrier Circuit (ECCKT)</b> <i>Data Link Connection Identifier (DLCI)</i>				
		<b>'EN' Earning Number</b> <i>The "Earning Number" might contain a Call Line Identifier (CLI). If the CLI exceeds 48 bytes, it will be continued in the next SI pair (99) 'ES' Term exchange ID</i>				
		<b>'GN' Global Circuit Number</b>				
		<b>'LF' Line Class Code</b>				
		<b>'NP' NPA Code</b>				
		<b>'OL' Originating Location</b>				
		<b>'PA' Primary/Originating Message Carrier Identification</b> <i>Identifies a third party service provider.</i>				
		<b>'PQ' Major Product Code</b>				
		<b>'PX' PX/Serial Number</b>				
		<b>'RF' Related Circuit Number</b>				
		<b>'SD' Settlement Code</b>				
		<b>'SE' Secondary/Terminating Exchange Carrier Circuit (ECCKT)</b> <i>Data Link Connection Identifier (DLCI)</i>				
		<b>'SG' Service Group</b>				
		<b>'SN' ISDN Service Profile Identifier (ISPID)</b>				
		<b>'SQ' Sub-Product Code</b>				
		<b>'SW' Switchboard Code</b>				
		<b>'TL' Terminating Location</b>				
		<b>'TN' Telephone Number</b>				
		<b>'TT' Transmission Type</b>				
		<b>'UC' Class of Service</b> <i>(UC may appear more than once in the SI segment)</i>				
		<b>'VC' Virtual Circuit ID</b>				
		<b>'VK' Virtual Connection Identifier</b> <i>(Contains Outer VLAN of PIP Ethernet Circuit)</i>				
		<b>'WS' WATS Number</b>				
		<b>'ZK' Conference ID</b>				
		<b>'ZL' Description</b> <i>(can contain the "identifying code" for the conference held and is</i>				



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><i>usually a seq#/id code followed by the leaders last name)</i></p> <p><b>'ZM' Suite</b></p> <p><i>(Can contain the Conference Suit Description (i.e. UNATTENDED))</i></p> <p><b>'ZO' Verizon Rapid Delivery Service ID</b></p>				
SI03	234	<p>Product/Service ID</p> <p>Description: <b>Identifying number for a product or service</b></p> <p><b>If DE1000 'CN'</b></p> <p><i>If HL5: Circuit Number/ID</i></p> <p><i>If HL6: Component id or Flow ID</i></p> <p><b>If DE1000 'ES'</b></p> <p><i>If HL5: Term exchange Circuit ID or "term Circuit" if not avail.</i></p> <p><i>If HL6: Component Term exchange Circuit ID</i></p> <p><i>-- Destination Circuit ID or Domain ID</i></p> <p><b>If DE1000 'LF'</b></p> <p><i>B = BACKUP</i></p> <p><i>C = CONTROL</i></p> <p><i>D = DROP</i></p> <p><i>N = NNI</i></p> <p><i>S = STANDARD</i></p> <p><i>1 = ON-NET</i></p> <p><i>2 = SECONDARY = a secondary PVC</i></p> <p><i>3 = OFF-NET</i></p> <p><i>4 = CRITICAL</i></p> <p><i>5 = ROUTINE</i></p> <p><b>If DE1000 'SD'</b></p> <p><i>EE = Interstate – InterLATA</i></p> <p><i>ER = Interstate – IntraLATA</i></p> <p><i>IA = Intrastate</i></p> <p><i>IR = Interstate</i></p> <p><i>IT – International</i></p> <p><i>LO = Local</i></p> <p><i>NS = Non-Standard</i></p> <p><i>RE = Intrastate – InterLATA</i></p> <p><i>RR = Intrastate – IntraLATA</i></p> <p><b>If DE1000 'SG'</b></p> <p><i>M = video</i></p>	M	AN	1/48	Must use

Ref \_ Id\_ Element Name \_ Req Type Min/Max Usage\_

*N = net conference*  
*S = ssl net conference*

**If DE1000 'TT'**

**Values for non-CABS billing systems:**

*S1 - Metro*  
*S2 - Frame Internetworking/ATM Internetworking*  
*S3 - Standard*  
*S4 - Intl Intra-County*  
*S5 - Dynamic*  
*S6 - Internet Service Provider*  
*S7 - Internet*  
*S8 - Digital Gateway*  
*SA - ATM Internet*  
*SF - Frame Internet*  
*SP - PIP PVC riding on circuit associated to another product*

**If DE1000 'UC'**

*1 = Variable Bit Rate Non Real Time*  
*2 = Variable Bit Rate real Time*  
*3 = Constant Bit Rate*  
*4 = Unspecified Bit Rate*  
*5 = Available Bit Rate*  
*6 = Variable Frame Rate Non Real-Time*  
*7 = Variable Frame Rate Real-Time*  
*8 = Unspecified Frame Rate*  
*B = Private IP (PIP) PVC: Best Effort*  
*D = Private IP (PIP) PVC: Disaster Recovery*  
*E = Enhanced Traffic Management*  
*L = Flow Speed*  
*M = Premium Quality of Service*  
*P = Private IP (PIP) PVC: Standard*  
*Q = Private IP (PIP) PVC: Enhanced Traffic Management*  
*R = Disaster Recovery PVC*  
*S = Standard*  
*V = Standard*  
*W = Enhanced Traffic Management*  
*X = Standard*  
*Y = COS5 Real Time Traffic*  
*INS = Instant*

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>PRE = Premiere</b> <b>STA = Standard</b> <b>UNA = Unattended</b> <b>IMR = Instant Meeting Replay</b>				
SI04	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI05	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI06	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI07	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI08	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics User: <b>See SI02 above..</b>	X	AN	2/2	Used
SI09	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI10	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI11	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI12	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI13	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI14	1000	Service Characteristics Qualifier	X	AN	2/2	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		Description: Code from an industry code list qualifying the type of service characteristics. <b>User: See SI02 above.</b>				
SI15	234	Product/Service ID Description: Identifying number for a product or service. <b>User: See SI03 above.</b>	X	AN	1/48	Used
SI16	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. <b>User: See SI02 above.</b>	X	AN	2/2	Used
SI17	234	Product/Service ID Description: Identifying number for a product or service. <b>User: See SI03 above.</b>	X	AN	1/48	Used
SI18	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. <b>User: See SI02 above.</b>	X	AN	2/2	Used
SI19	234	Product/Service ID Description: Identifying number for a product or service. <b>User: See SI03 above.</b>	X	AN	1/48	Used
SI20	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. <b>User: See SI02 above.</b>	X	AN	2/2	Used
SI21	234	Product/Service ID Description: Identifying number for a product or service. <b>User: See SI03 above.</b>	X	AN	1/48	Used

# PID

## Product/Item Description

Pos: 040	Max: 200
Detail - Optional	
Loop: LX	Elements: 6

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

Syntax:

- C0403 -- If PID04 is present, then PID03 is required.
- R0405 -- At least one of PID04 or PID05 is required.
- C0703 -- If PID07 is present, then PID03 is required.
- C0804 -- If PID08 is present, then PID04 is required.
- C0905 -- If PID09 is present, then PID05 is required.

Semantics:

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

Comments:

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

Note: The invoice messages can exceed the number of PID Segments allowed. Please review the messages on the paper invoice or PDF invoice available online.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type Description: <b>Code indicating the format of a description.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		F        Free-form				
		X        Semi-Structured (Code & Text)				
PID02	750	Product/Process Characteristic Code Description: <b>Code identifying the general class of a product or process characteristic. This element is used when PID01 = X.</b>	O	ID	2/3	Used
		<u>Code</u> <u>Name</u>				
		ZZ       Mutually Defined				

PID03	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

**USER: PID03 is only populated when PID01 = X. However, PID03 is not required when PID01 = X**

<u>Code</u>	<u>Name</u>
AS	Assigned by Seller: Code in PID04 is defined in the VB811 Implementation Guide Appendix A.

PID04	751	Product Description Code Description: <b>A code from an industry code list which provides specific data about a product characteristic.</b>	X	AN	1/12	Used
-------	-----	--	---	----	------	------

<u>Code</u>	<u>Name</u>
001	Product description
002	Sub Product description
003	Circuit attribute
004	Customer reference text
005	Circuit name/description
006	Platform Type
007	Service Type
008	Product Type
009	Entity Type
010	Discount Name
011	Discount Line Item
012	Bill Payer Literal
013	ID Code Description
014	Account Code Description
015	Calling Card Code Description
016	Conference Description
017	Class of Service
018	Entity Size
019	Service Type
020	CIR
021	Peak Cell Rate
022	Sustained Cell Rate
023	PIP Connection
024	vBNS Connection
025	Standard QoS
026	EF Real Time CAR
027	Premium QoS
028	COS5 Real Time Connection
029	Multicasting CAR
030	Charge Description
031	Additional Charge Description
032	Directed Billing Account Number
033	Application ID
034	Minimum Cell Rate (speed literal)
035	EVS Description
036	DSLACI Description
037	Access Charges Description
038	URI Description
	<b>NOTE:</b> For Inbound Toll Free: When the URI is presented at HL7, the Toll Free number will be provided in the SI Pair (TM) within TCD loop at HL9
039	PVC Attribute
040	Flow Speed

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041	Current PIR
042	Bundles
043	PVC Speed
044	Billing Type
046	Ownership Type
062	CUR The conversion rate from billing currency to alternate currency used on the original invoice that is being credited.
067004	Terminal ID
074AC	CLIN Action Code
077021	Unique Billing Identifier
077039	ANI Name
077057	Application Identifier
077061	Revenue Category
077067	Partner Information
077070	Circuit Line Type
077110	Contract/SOF
077130	Charge Code
077154	GSEC/Custom Grouping
077161	Dynamic URI
077183	Site ID
077184	Business Unit
(077186	Branch Criticality
077195	Charge Level PIP Port Speed
077196	DCAR Speed
077200	Z-End Site ID
(077201	Z-End Site Criticality
077202	Z-End Business Unit
077206	Xtraconnect Reference
077214	Service Pack
077225	Verizon Rapid Delivery Service ID
077255	Secondary Instance ID
077258	Termination Name
079019	Secondary Number Identifier
079026	Circuit Attribute (includes circuit attribute and value)
079030	Customer Reference Number/Text (40)
079045	Service ID
079064	Directory Name Service (DNS)
079162	Domain
079185	Site Type Detail
079266	Colombia CUFE ID
117A	Audio Conferencing
117C	Conferencing
117N	Net Conferencing
117V	Video Conferencing
118D	Description Of Video Conferencing Service
118F	Video Conferencing Facility
125A	Circuit Service Type <b>Description:</b> Identifies circuit type/pipe size i.e. DS1, DS3, etc
125B	Access Circuit ID <b>Description:</b> Identifies the access circuit for a DS1
125C	NxDS1 Indicator <b>Description:</b> Identifies whether a circuit is comprised of a bundle of DS1s
3VEN	Third party vendor

---

- 71COL Circuit Origination Location ID
- 71CTL Circuit Termination Location ID
- BS Billing Structure Code:  
**Description:** Provides the description of SI pair = "BS".  
 PID05 contains the Billing Structure description.
- BT Basic Service Type  
**Description:** Provides the description of SI pair = "BT".  
 PID05 contains the Basic Service Type
- PA-ADDR Other Service Provider Address  
**Description:** PID05 contains the other service  
 provider's CIC code followed by their address.  
 The two fields are separated by ":"
- PA-REG Other Service Provider Tax Registration Number  
**Description:** PID05 contains the other service  
 provider's CIC code followed by their tax registration  
 number. The two fields are separated by ":"
- PG4 4th product grouping level
- PQ Major Product Code:  
**Description:** Provides the description of SI pair = "PQ".  
 PID05 contains the Major Product description.

SOL-ID Solution ID

*The entire Solution is provided in multiple segments within a LX loop. The Solution ID is the key to the LX loop and the link to the charges in the SLN loop*

SOL-NAM-A Solution Name Part 1

*The Solution Name is up to 110 bytes long and is provided in two PIDs. This is the first 80 bytes of the Solution Name.*

*Note the Solution ID is provided in the same LX loop in a PID with PID04 = "SOL-ID"*

SOL-NAM-B Solution Name Part 2

*The Solution Name is up to 110 bytes long and is provided in two PIDs. This is the last 30 bytes of the Solution Name.*

*Note the Solution ID is provided in the same LX loop in a PID with PID04 = "SOL-ID"*

SOL-PROD Solution Product

*Note the Solution ID is provided in the same LX loop in a PID with PID04 = "SOL-ID"*

- SQ Sub-Product Code:  
**Description:** Provides the description of SI pair = "SQ".  
 PID05 contains the Sub-Product description.

PID05	352	Description Description: <b>A free-form description to clarify the related data elements and their content.</b>	X	AN	1/80	Used
PID09	819	Language Code Description: <b>Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)</b>	O	ID	2/3	Used



*User: Language code values are:*

*ALB = Albanian ??*  
*BEF = Belgian French*  
*BRP = Brazilian Portuguese*  
*BUL = Bulgarian*  
*CAF = Canadian French*  
*CHI = Simplified Chinese*  
*CZE = Czech*  
*DAN = Danish*  
*DEU = German*  
*DUT = Dutch*  
*ENG = English (UK)*  
*EST = Estonian*  
*FIN = Finnish*  
*FRA = French*  
*FSW = Swiss French*  
*GRE = Greek*  
*GSW = Swiss German*  
*HRV = Croatian*  
*HUN = Hungarian*  
*ITA = Italian*  
*JPN = Japanese*  
*LAV = Latvian*  
*LIT = Lithuanian*  
*NLD = Dutch, Flemish*  
*NOB = Norwegian (Bokmål)*  
*NOR = Norwegian*  
*OST = Austrian German*  
*POL = Polish*  
*POR = Portuguese*  
*ROU = Romanian*  
*RUS = Russian*  
*SLE = Slovene*  
*SLO = Slovak SPA = Spanish*  
*SRP = Serbian*  
*SWE = Swedish*  
*TUR = Turkish*  
*UKR = Ukrainian*  
*ZHO = Chinese*  
*EN1 - Australian English*  
*EN2 = Japanese English*

*EN3 = South Asia English*

*EN4= North Asia English*

*EN5 = American English*

*EN6 = English (Canadian)*

*EN7 = English (India)*

# REF

## Reference Identification

Pos: 050	Max: >1
Detail - Optional	
Loop: LX	Elements: 3

To specify identifying information:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
REF01	128	Reference Identification Qualifier Description: <b>Code qualifying the Reference Identification.</b>	M	ID	2/3	Must use

Code	Name
11	Account Number <i>User: If the Account Number exceeds 30 bytes, it will be in REF03.</i>
12	Billing Account <b>Description:</b> Account number under which billing is rendered.
1J	Facility ID Number
3H	Case Number
79	Cost Center/Account <i>User: If the Cost Center/Account exceeds 30 bytes, it will be in REF03.</i>
8M	Originating Company Identifier <i>User: If the Company Code exceeds 30 bytes, it will be in REF03.</i>
AH	Agreement Number <b>Contains the Master Service Agreement</b>
AAC	Agency Hierarchical Level
BN	Booking Number
BLT	Billing Type
C7	Contract Line Item Number
CR	Customer Reference Number
CT	Contract Number
IV	Seller's Invoice Number
K9	Inquiry Request Number
LI	Line Item Service ID
OI	Original Invoice Number <i>For Credit Notes: Contains the Local and Tax Regulatory Invoice Number/ID (REF*IK value) from the original invoice.</i>
OW	Service Number
P4	Project Code <i>USER: Project Code will be populated in REF03</i>
PM	Part Number <i>USER: Contains the Verizon Part Number</i>

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
	PO	Purchase Order				
		<i>User: If the Purchase Order Number exceeds 30 bytes, it will be in REF03.</i>				
	PX	Prior Invoice Number				
		<i>Description: The original invoice number this credit/debit is related to.</i>				
	Q1	Quote Number				
	TA	Telecommunications Circuit Supplemental ID Attributes				
	U2	Term				
	VN	Vendor Order Number				

REF02	127	Reference Identification	X	AN	1/30	Used
		<b>Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>				

**If DE128 '79'**

**USER: if the Cost Center/Account is less than 31 bytes, then REF02 will contain the Cost Center/Account. if the Cost Center/Account is larger than 30 bytes then REF03 will contain the Cost Center/Account.**

**If DE128 '8M'**

**USER: If the Company Code is less than 31 bytes, then REF02 will contain the Company Code. If the Company Code is larger than 30 bytes then REF03 will contain the Company Code.**

**If DE128 'LI'**

**Service ID**

**If DE128 'OW'**

**Component Type Code**

**If DE128 'PO'**

**Purchase Order Number (PON)**  
**USER: if the PON is less than 31 bytes then REF02 will contain the PON. if the PON is larger than 30 bytes then REF03 will contain the PON.**

**If DE128 'TA'**

**Attribute ID for Component**

---

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

Description: **A free-form description to clarify the related data elements and their content.**

**If DE128 '11'**

**USER: if the Account Number is less than 31 bytes then REF02 will contain the Account Number. If the Account Number is larger than 30 bytes then REF03 will contain the Account Number.**

**REF3 may also contain the Secondary ID for Account Number**

**If DE128 '79'**

**USER: if the Cost Center/Account is less than 31 bytes, then REF02 will contain the Cost Center/Account. if the Cost Center/Account is larger than 30 bytes then REF03 will contain the Cost Center/Account.**

**If DE128 '8M'**

**USER: If the Company Code is less than 31 bytes, then REF02 will contain the Company Code. If the Company Code is larger than 30 bytes then REF03 will contain the Company Code.**

**If DE128 'BLT'**

**FIXED  
USAGE**

**If DE128 'LI'**

**USER: Chargeable Service ID will be populated in the REF03**

**If DE128 'OW'**

**Service Type Description**

**If DE128 'P4'**

**USER: Project Code will be populated in the REF03**

**If DE128 'PO'**

**Purchase Order Number (PON)  
USER: if the PON is less than 31 bytes then REF02 will contain the PON. if the PON is larger than 30 bytes then REF03 will contain the PON.**

Comments: 1. REF01=TA is used when component contains attributes such as "AUTO REDIRECT" which will be in REF03, and the redirected/attribute ID will be contained in REF02.

# AMT

## Monetary Amount

Pos: 060    Max: 5  
 Detail - Optional  
 Loop: LX    Elements: 2

To indicate the total monetary amount:

User: This AMT segment is informational only for total current charges.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
AMT01	522	Amount Qualifier Code Description: <b>Code to qualify amount.</b>	M	ID	1/3	Must use
		<u>Code</u> <u>Name</u>				
		8        Discount				
		OS      Previously Billed				
		AP      Amount Prior to Fractionalization				
		LH      Baseline				
		NA      Net Adjustment				
		RJ      Rate				
		SC      Total Service Charge				
AMT02	782	Monetary Amount Description: <b>Monetary amount.</b>	M	R	1/18	Must use

**NOTE: AMT segments are not used in balancing the EDI 811**

Comments: 1. Baseline and Rate amounts are only present for Inter-Office Components of a circuit.

# DTM

## Date/Time Reference

Pos: 070	Max: 8
Detail - Optional	
Loop: LX	Elements: 2

To specify pertinent dates and times:

Syntax:

- 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.

Semantics:

Comments:

User: Used to convey surcharges and miscellaneous charges at the Service provider level.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
	<u>Code</u>	<u>Name</u>				
	003	Invoice <b>Description: The original invoice date this credit/debit is related to.</b>				
	007	Effective Date				
	093	Contract Expiration				
	150	Service Period Start				
	151	Service Period End				
	196	Start				
	197	End				
	276	Contract Start Date				
	603	Renewal				
	911	Last Activity				
DTM02	373	Date Description: <b>CCYYMMDD format</b>	X	DT	8/8	Used
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	TM	4/8	Used
DTM04	623	Time Code Description : Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Used
	<u>Code</u>	<u>Name</u>				
	LT	Local Time				



DTM05	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
		Description: _Code indicating the date format, time format, or date and time format Refer to 004010 Data Element Dictionary for acceptable code values.				
		<u>Code</u>		<u>Name</u>		
		RTS		Date and Time Expressed in Format CCYYMMDDHHMMSS		

# TXI

## Tax Information

Pos: 080	Max: >1
Detail - Optional	
Loop: LX	Elements: 8

To specify tax information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		AB    Surtax				
		CA    City Tax				
		CG    Federal Value-Added Tax (GST) on Goods				
		<b>User Note: "CG" is used for GST Goods and Services</b>				
		CT    County Tax				
		FD    Federal Tax <b>Description:</b> Usage tax imposed by federal (US and Canadian) government.				
		FR    Franchise Tax				
		LO    Local Tax (Not Sales Tax) <b>Description:</b> Service tax imposed on a local level.				
		LT    Local Sales Tax				
		OH    Other Taxes				
		OT    Occupational Tax				
		SC    School Tax				
		SL    State and Local				
		SP    State/Provincial Tax				
		ST    State Sales Tax				
		SU    Sales and Use Tax				
		TX    All Taxes (combined)				
		VA    Value Added Tax				
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used
TXI03	954	Percent Description: <b>Percentage expressed as a decimal.</b>	X	R	1/10	Used

TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VD</td> <td>Vendor defined</td> </tr> </tbody> </table>	Code	Name	VD	Vendor defined								
Code	Name													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: <b>Code identifying the taxing jurisdiction.</b>	X	AN	1/10	Used								
		User: <b>For IBRS, the TXI05 will contain the Customer's Cost Center, if it is available.</b>												
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used								
		User: <b>Indicates whether the amount in this segment is to be used in summing.</b>												
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	A	Add	I	Included	O	Information Only				
Code	Name													
A	Add													
I	Included													
O	Information Only													
TXI08	828	Dollar Basis For Percent Description: <b>Dollar basis to be used in the percent calculation of the allowance, charge or tax.</b>	O	R	1/9	Used								
TXI10	350	Assigned Identification	O	AN	1/20	Used								

# QTY

## Quantity

Pos: 090 Max: 1  
 Detail - Optional  
 Loop: LX/QTY Elements: 3

To specify quantity information:

Syntax:

R0204 -- At least one of QTY02 or QTY04 is required.

E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																				
QTY01	673	Quantity Qualifier Description: <b>Code specifying the type of quantity.</b>	M	ID	2/2	Must use																				
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Discrete Quantity</td> </tr> <tr> <td>X3</td> <td>Speed Capacity</td> </tr> <tr> <td>WE</td> <td>Limited Quantity</td> </tr> </tbody> </table>	Code	Name	01	Discrete Quantity	X3	Speed Capacity	WE	Limited Quantity																
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X3	Speed Capacity																									
WE	Limited Quantity																									
QTY02	380	Quantity Description: <b>At HL3: The total number for the entire location/account.</b>	X	R	1/15	Used																				
C0301	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use																				
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>4L</td> <td>MegaBytes</td> </tr> <tr> <td>10</td> <td>Group</td> </tr> <tr> <td colspan="2">User Note: "10" is used for Trunks or Trunk Groups C0 Calls</td> </tr> <tr> <td>DH</td> <td>Miles</td> </tr> <tr> <td>MJ</td> <td>Minutes</td> </tr> <tr> <td>QC</td> <td>Channels</td> </tr> <tr> <td>KB</td> <td>Kilocharacters</td> </tr> <tr> <td>TO</td> <td>Telecommunications Lines in Service (circuits)</td> </tr> <tr> <td colspan="2">User Note: "T0" is also used for count of telephone numbers</td> </tr> </tbody> </table>	Code	Name	4L	MegaBytes	10	Group	User Note: "10" is used for Trunks or Trunk Groups C0 Calls		DH	Miles	MJ	Minutes	QC	Channels	KB	Kilocharacters	TO	Telecommunications Lines in Service (circuits)	User Note: "T0" is also used for count of telephone numbers					
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User Note: "T0" is also used for count of telephone numbers																										

Comments: 1. At HL5, QTY is used to provide total circuit miles, circuit speed in Kbps, and/or total megabytes transmitted.

# SI Service Characteristic Identification

Pos: 100	Max: 1
Detail - Optional	
Loop: LX/QTY	Elements: 21

To specify service characteristic data

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use				
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TI</td> <td>Telecommunications Industry</td> </tr> </tbody> </table>	Code	Name	TI	Telecommunications Industry				
Code	Name									
TI	Telecommunications Industry									
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list (TCIF Additional Code Lists) qualifying the type of service characteristics.</b>	M	AN	2/2	Must use				
		<div style="background-color: #f0f0f0; padding: 5px;"> <p>User: <i>See TCIF section 10.4 for complete list of valid values.</i></p> <p>Verizon uses the following Service Characteristic Qualifier values:  '<b>ST</b>' <i>Message Service Type</i>  '<b>TE</b>' <i>Transmission Speed</i></p> </div>								
SI03	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	M	AN	1/48	Must use				
		<div style="background-color: #f0f0f0; padding: 5px;"> <p><b>If DE1000 'ST'</b>  <b>CE - Cellular</b></p> <p><b>If DE1000 'TE'</b>  <b>CIR NON DISCARD ELIGIBLE DELIVERED</b>  <b>DISCARD ELIGIBLE DELIVERED</b>  <b>CONNECTION</b>  <b>EF REAL TIME CAR</b></p> </div>								

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>PEAK CELL</b> <b>SUSTAINED CELL</b> <b>IP MULTICASTING</b>				
SI04	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI05	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	X	AN	1/48	Used
SI06	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI07	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
SI08	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above..</b>	X	AN	2/2	Used
SI09	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
SI10	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI11	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
SI12	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI13	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
SI14	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: See SI02 above.	X	AN	2/2	Used
SI15	234	Product/Service ID Description: Identifying number for a product or service. User: See SI03 above.	X	AN	1/48	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SI16	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: See SI02 above.	X	AN	2/2	Used
SI17	234	Product/Service ID Description: Identifying number for a product or service. User: See SI03 above.	X	AN	1/48	Used
SI18	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: See SI02 above.	X	AN	2/2	Used
SI19	234	Product/Service ID Description: Identifying number for a product or service. User: See SI03 above.	X	AN	1/48	Used
SI20	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: See SI02 above.	X	AN	2/2	Used
SI21	234	Product/Service ID Description: Identifying number for a product or service. User: See SI03 above.	X	AN	1/48	Used

Comments: 1. This SI segment is only used to provide a description of transmission speed or transport volume quantities provided in the QTY segment loop start. This is due to a restriction in the QTY not being allowed to use the description text element if quantity element is used.

# NM1 Individual or Organizational Name

Pos: 110	Max: 1
Detail - Optional	
Loop: NM1	Elements: 8

To supply the full name of an individual or organizational entity:

Syntax:

P0809 -- If either NM108 or NM109 are present, then the others are required.

C1110 -- If NM111 is present, then NM110 is required.

Semantics:

- NM102 qualifies NM103.

Comments:

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

User: This segment is used at HL1 to provide Service Provider Name and at HL7 to provide the service location.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
NM101	98	Entity Identifier Code Description: <b>Code identifying an organizational entity, a physical location, property or an individual.</b>	M	ID	2/3	Must use
User: <b>'SJ' is the only valid code at HL1 (Service Provider Level).</b>						
		<u>Code</u> <u>Name</u>				
	75	Participant				
	77	Service Location <b>Description:</b> Identifies name and address information pertaining to a service location; such as a telephone's or circuit's service address.				
	AO	Account of <b>Description:</b> Identifies name and address information as pertaining to a Location/Account for which billing is being rendered.				
	C3	Circuit Location ID				
	EN	End User <b>Description:</b> The name of the mobile telephone number user				
	KM	Coordinator				
	L5	Contact				
	SJ	Service Provider <b>Description:</b> Identifies name and address information as pertaining to a service provider for which billing is being rendered.				
	VN	Vendor				



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_								
NM102	1065	Entity Type Qualifier Description: <b>Code qualifying the type of entity.</b>	M	ID	1/1	Must use								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Person</td> </tr> <tr> <td>2</td> <td>Non-Person Entity</td> </tr> </tbody> </table>	Code	Name	1	Person	2	Non-Person Entity						
Code	Name													
1	Person													
2	Non-Person Entity													
NM103	1035	Name Last or Organization Name Description: <b>Individual last name or organizational name.</b>	O	AN	1/35	Used								
		User: <b>Service Provider Name</b>												
NM104	1036	Name First Description: Individual First Name	O	AN	1/25	Used								
NM105	1037	Name Middle Description: Individual Middle Name or Initial	O	AN	1/25	Used								
NM106	1038	Name Prefix Description: Prefix to Individual Name	O	AN	1/10	Used								
NM108	66	Identification Code Qualifier Description: <b>Code designating the system/method of code structure used for Identification Code (67).</b>	X	ID	1/2	Used								
		User: <b>Code values '41' and '42', are the only valid values at HL1 (Service Provider).</b>												
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>41</td> <td>Telecommunications Carrier Identification Code <b>Description:</b> Identifies the Interexchange carrier for the charges being billed.</td> </tr> <tr> <td>42</td> <td>Telecommunications Pseudo Carrier Identification Code <b>Description:</b> A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers.</td> </tr> <tr> <td>91</td> <td>Assigned by Seller</td> </tr> </tbody> </table>	Code	Name	41	Telecommunications Carrier Identification Code <b>Description:</b> Identifies the Interexchange carrier for the charges being billed.	42	Telecommunications Pseudo Carrier Identification Code <b>Description:</b> A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers.	91	Assigned by Seller				
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91	Assigned by Seller													
NM109	67	Identification Code Description: <b>Code identifying a party or other code.</b>	X	AN	2/80	Used								
		User: <b>For values, see the NANPA maintained CIC list (<a href="http://www.nanpa.com/number_resource_info/index.html">http://www.nanpa.com/number_resource_info/index.html</a>) and the TCIF Guideline Appendix B in Section 10.4 (<a href="http://www.atis.org/obf/etb_home.asp">http://www.atis.org/obf/etb_home.asp</a>)</b> <b>Verizon Pseudo CIC going forwards is:</b> <b>0222 Verizon</b> <b>0555 Verizon</b> <b>0698 Verizon Communications</b>  <b>For Historical records, Verizon Pseudo CIC values were:</b> <b>00BP Bell of Pennsylvania</b> <b>00DS Diamond State</b> <b>0CPD Chesapeake &amp; Potomac of District of Columbia</b> <b>0CPM Chesapeake &amp; Potomac of Maryland</b>												

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>0CPW Chesapeake &amp; Potomac of West Virginia</i>				
		<i>0CPV Chesapeake &amp; Potomac of Virginia</i>				
		<i>0698 New York Telephone</i>				
		<i>09X0 New England Telephone</i>				
		<i>GTET Former GTE Telephone</i>				
		<i>CONT Former Contel Telephone</i>				
		<i>EC99 BOBO EnTelegent</i>				
		 <i>“As of October 01, 2010, Verizon uses the following CIC (NOTE: This list can change. Please use the industry lists for the entire list of CIC codes):</i>				
		<i>I288 AT&amp;T INVOICE BILLING</i>				
		<i>I556 USBI INVOICE READY</i>				
		<i>0DIR Verizon Directories Corp.</i>				
		<i>000H SPECIAL U.S.</i>				
		<i>0015 Verizon Long Distance</i>				
		<i>0078 Enhanced Services Billing Inc.</i>				
		<i>0086 FRONTIER</i>				
		<i>0092 Verizon</i>				
		<i>01HB Hawaiian Telcom Online</i>				
		<i>01HC Hawaiian Telcom Online</i>				
		<i>0110 OTHER CARRIER</i>				
		<i>0112 Business Discount Plan</i>				
		<i>0123 Americatel Corp</i>				
		<i>0131 USP&amp;C</i>				
		<i>0209 Intl Satellite Comm</i>				
		<i>0284 AmeriVision-LifeLine</i>				
		<i>0285 Federal Transtel</i>				
		<i>0288 AT&amp;T</i>				
		<i>0307 American TelNet</i>				
		<i>0326 I4MATION, INC.</i>				
		<i>0333 Sprint Invoice</i>				
		<i>0359 Empire One Telecommunications</i>				
		<i>0402 Integretel, Inc.</i>				
		<i>0432 Qwest Communications</i>				
		<i>0457 Telco</i>				
		<i>0459 Telecom*USA</i>				
		<i>0488 LDDS WORLDCOM</i>				
		<i>0491 AmeriVision/LifeLine</i>				
		<i>0502 Worldxchange Communications</i>				
		<i>0534 Touch 1</i>				
		<i>0554 The Chaparral Network Group</i>				
		<i>0556 USBI</i>				
		<i>0571 FairPoint Long Distance</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
	0577	Discounted Telecommunication S				
	0582	West Interactive Corp				
	0585	VERIZON NEDERLAND B.V.				
	0616	TeleSaver				
	0625	Operator Assistance Network				
	0636	Clear Choice				
	0650	OAN Services, Inc.				
	0656	Verizon TeleProducts Corp.				
	0658	United Telemanagement				
	0664	DIRECTV				
	0752	EXCEL Long Distance				
	0756	ZERO PLUS DIALING				
	0777	Sprint				
	0782	ILD Teleservices				
	0805	Telemation				
	0811	VarTec Telecom, Inc.				
	0815	Sprint Calling Services				
	0830	Verizon Wireless				
	0831	United Telemanagement Corp.				
	0845	Verizon Network Integration				
	0849	Evercom Systems, Inc				
	0860	Verizon Online				
	0863	Verizon Online				
	0864	FairPoint Broadband				
	0865	FairPoint Broadband				
	0874	PaymentOne				
	0877	BASIC ACCESS COMMUNICATIONS, I				
	0882	Hold Billing Services				
	0884	FairPoint Long Distance				
	0894	Value Link Plus				
	0896	Integrated Voice Svc				
	0903	eBillit				
	0917	Pay Tel Communications				
	0925	KCI Long Distance				
	1180	XO				
	2345	NBBE/VADI Services				
	5483	Verizon Long Distance				
	6224	Hawaiian Telcom Long Distance				
	6397	TMS				
	6953	Verizon Select Services Inc				
	6963	Verizon Long Distance				
	7703	DIRECTV				
	7820	Transaction Clearing				
	9003	Verizon Online				
	9007	Verizon Directory Services Inc				

---

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		9071 Verizon Long Distance				
		9074 Verizon Enterprise Solutions				
		9129 Verizon Advanced Data Inc.				
		9143 Verizon Online Enhanced Svcs				
		9147 Advanced Data Services				
		9158 Verizon Internet Svcs, WADSL				
		9300 FiOS TV				
		9301 Verizon Online				
		9302 FiOS Digital Voice				
		9304 Verizon Online				

# N2

## Additional Name Information

Pos: 120    Max: 1  
 Detail - Optional  
 Loop: NM1    Elements: 2

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
N201	93	Name Description: <b>Free-form name</b>	M	AN	1/60	Must use
N202	93	Name Description: <b>Free-form name</b>	O	AN	1/60	Used

# N3

## Address Information

Pos: 130    Max: 2  
 Detail - Optional  
 Loop: NM1    Elements: 2

To specify the location of the named party:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
N301	166	Address Information Description: <b>Address information.</b>	M	AN	1/55	Must use
N302	166	Address Information Description: <b>Address information.</b>	O	AN	1/55	Used

# N4

## Geographic Location

Pos: 140	Max: 1
Detail - Optional	
Loop: NM1	Elements: 6

To specify the geographic place of the named party:

Syntax:

C0605 -- If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.
3. N405/N406 is to be used when the input data is not available as individual data elements.

User: Interpreted from N101 value.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
N401	19	City Name Description: <b>Free-form text for city name.</b>	O	AN	2/30	Used
N402	156	State or Province Code Description: <b>Code (Standard State/Province) as defined by appropriate government agency.</b>	O	ID	2/2	Used
N403	116	Postal Code Description: <b>Code defining international postal zone code excluding punctuation and blanks (zip code for United States).</b>	O	ID	3/15	Used
N404	26	Country Code Description: <b>N404 Country Code only populated if State is blank indicating an international address.</b>	O	ID	2/3	Used
N405	309	Location Qualifier Description: <b>Code identifying type of location</b>	O	ID	1/2	Used
N406	310	Location Identifier Description: <b>Code which identifies a specific location</b>	O	AN	1/30	Used

# REF

## Reference Identification

Pos: 150	Max:
Detail - Optional	
Loop: NM1	Elements: 3

To specify identifying information:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																				
REF01	128	Reference Identification Qualifier Description: <b>Code qualifying the Reference Identification.</b>	M	ID	2/3	Must use																				
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>11</td> <td>Account Number</td> </tr> <tr> <td><b>User:</b></td> <td>Carrier's account number</td> </tr> <tr> <td>4U</td> <td>Market Area/Type</td> </tr> <tr> <td>BF</td> <td>Billing/Cost Center M#</td> </tr> <tr> <td>CT</td> <td>Contract Number</td> </tr> <tr> <td>EV</td> <td>Receiver Identification Number</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> <tr> <td>Q8</td> <td>Registration Number</td> </tr> <tr> <td>TJ</td> <td>Federal Taxpayer's Identification Number</td> </tr> </table>	<u>Code</u>	<u>Name</u>	11	Account Number	<b>User:</b>	Carrier's account number	4U	Market Area/Type	BF	Billing/Cost Center M#	CT	Contract Number	EV	Receiver Identification Number	PO	Purchase Order Number	Q8	Registration Number	TJ	Federal Taxpayer's Identification Number				
<u>Code</u>	<u>Name</u>																									
11	Account Number																									
<b>User:</b>	Carrier's account number																									
4U	Market Area/Type																									
BF	Billing/Cost Center M#																									
CT	Contract Number																									
EV	Receiver Identification Number																									
PO	Purchase Order Number																									
Q8	Registration Number																									
TJ	Federal Taxpayer's Identification Number																									
REF02	127	Reference Identification Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>	X	AN	1/30	Used																				
REF03	352	Description Description: <b>A free-form description to clarify the related data elements and their content</b>	X	AN	1/80	Used																				



# PER Administrative Communications Contact

Pos: 160	Max: >1
Detail - Optional	
Loop: NM1	Elements: 4

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

Syntax:

P0304 -- If either PER03 or PER04 are present, then the others are required.

P0506 -- If either PER05 or PER06 are present, then the others are required.

P0708 -- If either PER07 or PER08 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
PER01	366	Contact Function Code Description: <b>Code identifying the major duty or responsibility of the person or group named.</b>	M	ID	2/2	Must use
User: <b>Contact information for a Service Provider</b>						
		<u>Code</u> <u>Name</u>				
		1G    Service Team (Customer Service)				
		AR    Accounts Receivable Department				
		BI    Bill Inquiry Contact				
		<b>Description:</b> Service Provider contact for making inquiries about information on the invoice				
		IC    Information Contact				
		OC    Order Contact				
		TR    Technical Marketing Rep				
PER02	93	Name Description: Free-Form Name	O	AN	1/60	Used
PER03	365	Communication Number Qualifier Description: <b>Code identifying the type of communication number.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		EM    Electronic Mail				
		FX    Facsimile (FAX)				
		TE    Telephone				
		UR    Uniform Resource Locator (URL)				
PER04	364	Communication Number Description: <b>Complete communications number including country or area code when applicable.</b>	X	AN	1/80	Used
PER05	365	Communication Number Qualifier Description: <b>Code identifying the type of communication number.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		EM    Electronic Mail				
		FX    Facsimile (FAX)				
		TE    Telephone				
		UR    Uniform Resource Locator (URL)				
PER06	364	Communication Number	X	AN	1/80	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		Description: <b>Complete communications number including country or area code when applicable.</b>				
PER07	365	Communication Number Qualifier Description: <b>Code identifying the type of communication number.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		EM    Electronic Mail				
		FX    Facsimile (FAX)				
		TE    Telephone				
		UR    Uniform Resource Locator (URL)				
PER08	364	Communication Number Description: <b>Complete communications number including country or area code when applicable.</b>	X	AN	1/80	Used

# TXI

## Tax Information

Pos: 170	Max: >1
Detail - Optional	
Loop: NM1	Elements: 8

To specify tax information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		AB    Surtax				
		CA    City Tax				
		CG    Federal Value-Added Tax (GST) on Goods				
		<b>User Note: "CG" is used for GST Goods and Services</b>				
		CT    County Tax				
		FD    Federal Tax				
		<b>Description:</b> Usage tax imposed by federal (US and Canadian) government.				
		FR    Franchise Tax				
		LO    Local Tax (Not Sales Tax)				
		<b>Description:</b> Service tax imposed on a local level.				
		LT    Local Sales Tax				
		OH    Other Taxes				
		OT    Occupational Tax				
		SC    School Tax				
		SP    State/Provincial Tax				
		ST    State Sales Tax				
		SU    Sales and Use Tax				
		TX    All Taxes (combined)				
		VA    Value Added Tax				
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used
TXI03	954	Percent Description: <b>Percentage expressed as a decimal.</b>	X	R	1/10	Used

TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VD</td> <td>Vendor defined</td> </tr> </tbody> </table>	Code	Name	VD	Vendor defined								
Code	Name													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: <b>Code identifying the taxing jurisdiction.</b>	X	AN	1/10	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>UK-TAX-EX</td> <td>UK Regulatory Tax Exempt Statement &amp; Amount</td> </tr> </tbody> </table> <p><i>User: The VAT Amount displayed here is shown in the billing currency of this invoice. The amount of VAT due to HMRC under the reverse charge is the GBP equivalent of this amount xxxx.xx</i></p>	Code	Name	UK-TAX-EX	UK Regulatory Tax Exempt Statement & Amount								
Code	Name													
UK-TAX-EX	UK Regulatory Tax Exempt Statement & Amount													
TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VD</td> <td>Vendor defined</td> </tr> </tbody> </table>	Code	Name	VD	Vendor defined								
Code	Name													
VD	Vendor defined													
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used								
		<p><i>User: Indicates whether the amount in this segment is to be used in summing.</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	A	Add	I	Included	O	Information Only				
Code	Name													
A	Add													
I	Included													
O	Information Only													
TXI08	828	Dollar Basis For Percent Description: <b>Dollar basis to be used in the percent calculation of the allowance, charge or tax.</b>	O	R	1/9	Used								
TXI10	350	Assigned Identification	O	AN	1/20	Used								

# ITA Allowance, Charge or Service

Pos: 180	Max: 1
Detail - Optional	
Loop: ITA	Elements: 15

To specify allowances, charges, or services:

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required.

P1011 -- If either ITA10 or ITA11 are present, then the others are required.

C1502 -- If ITA15 is present, then ITA02 is required.

C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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.

User: Used to convey surcharges and miscellaneous charges at the Service provider level.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A        Allowance				
		C        Charge				
		N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TI        Telecommunications Industry				
ITA03	560	Special Services Code Description: <b>Code identifying the special service</b>	X	ID	2/10	Used
		User: <b>For IBRS, the ITA03 will contain the Customer's Cost Center, if it is available.</b>				

ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 04    Credit Customer Account 06    Charge to be Paid by Customer 15    Information Only				
ITA05	341	Allowance/Charge Service Category Description:	O	AN	1/16	Used
		<i>If ITA14 = 'ZZZ', then ITA05 will contain the contract #, if the commitment is related to a contract.</i>				
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used
ITA08	378	Allowance/Charge Percent Qualifier <u>Code</u> <u>Name</u> Z        Mutually defined – percent of commitment allocation met	O	ID	1/1	Used
ITA09	322	Percent	O	R	1/6	Used
ITA10	380	Quantity Description: <b>Number of billing units.</b>	O	R	1/15	Used
ITA11	355	Unit or Basis for Measurement Code Description: <b>EA = Each if for Bill Units</b>	O	ID	2/2	Used
ITA12	380	Quantity Description: <b>Eligible Amt for Discount.</b>	O	R	1/15	Used
ITA13	352	Description	X	AN	1/80	Used
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b>	X	ID	3/3	Used
		User: <b>See TCIF section 10.4 for valid values.</b>				
		<u>Code</u> <u>Name</u> 230    Credit ACH    Access Charges CEF    Customer Owned Party Telephone Surcharge DDS    Deaf and Disabled Surcharge DSC    Discount EAD    E911 Administration Charge FFA    Franchise Fee FUS    Federal Universal Service GRS    Gross Receipts Surcharge LSS    Lifeline Surcharge MEM    Membership Fee(s) MSG    Miscellaneous Charge MUS    Municipal Surcharge PCC    Poison Control Center Surcharge REE    Regulatory Fee SMS    State/Metropolitan Transit Authority Surcharge STC    State Surcharge SUR    Surcharge SUS    State Universal Service TRS    Transferred Charges TRU    Thruway Charge TXS    Tax Surcharge UTL    Buried Facilities Surcharge ZZZ    Mutually defined – Commitment information				

*ITA loops with ITA14="ZZZ" are used to convey total commitment, contributions to total commitment, contributions by service, contributions by account, and enrolled promotions information. If the commitment is related to a contract, ITA05 will contain the contract number.*

ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used
-------	-----	---	---	----	-----	------

<u>Code</u>	<u>Name</u>
A	Add
I	Included
O	Information Only
	<b>Description:</b> Charges that 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).

ITA17	355	Unit or Basis for Measurement Code for ITA12	O	ID	2/2	Used
-------	-----	--	---	----	-----	------

<u>Code</u>	<u>Name</u>
1R	Transactions
2P	Kilobytes
4L	Megabytes
C0	Calls
DA	Days
DH	Miles
DO	Dollars
EA	Each
EJ	Locations
HR	Hours
IE	Users
MJ	Minutes

# DTM

## Date/Time Reference

Pos: 190	Max: 1
Detail - Optional	
Loop: ITA	Elements: 4

To specify pertinent dates and times:

Syntax:

- 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.

Semantics:

Comments:

User: Used to convey surcharges and miscellaneous charges at the Service provider level.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u>				
		150    Service Period Start				
		151    Service Period End				
		276    Contract Start Date				
		603    Renewal				
DTM02	373	Date Description: <b>CCYYMMDD format</b>	X	DT	8/8	Used
DTM05	1250	Date Time Period Format Qualifier Description: <b>DTM05/06 for period range is only present if both start and end date is provided for the charge in the ITA.</b>	O	ID	2/3	Used
		<u>Code</u> <u>Name</u>				
		RD8    Range = CCYYMMDD-CCYYMMDD format				
DTM06	1251	Date Time Period Description: <b>DTM05/06 for period range is only present if both start and end date is provided for the charge in the ITA.</b>	O	AN	1/35	Used



# TXI

## Tax Information

Pos: 200    Max: >1  
 Detail - Optional  
 Loop: ITA    Elements: 8

To specify tax information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		AB    Surtax				
		CA    City Tax				
		CG    Federal Value-Added Tax (GST) on Goods				
		<b>User Note: "CG" is used for GST Goods and Services</b>				
		CT    County Tax				
		FD    Federal Tax				
		<b>Description:</b> Usage tax imposed by federal (US and Canadian) government				
		FR    Franchise Tax				
		LO    Local Tax (Not Sales Tax)				
		<b>Description:</b> Service tax imposed on a local level				
		LT    Local Sales Tax				
		OH    Other Taxes				
		OT    Occupational Tax				
		SC    School Tax				
		SL    State and Local				
		SP    State/Provincial Tax				
		ST    State Sales Tax				
		SU    Sales and Use Tax				
		TX    All Taxes (combined)				
		VA    Value Added Tax				
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used
TXI03	954	Percent Description: <b>Percentage expressed as a decimal.</b>	X	R	1/10	Used

TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VD</td> <td>Vendor defined</td> </tr> </tbody> </table>	Code	Name	VD	Vendor defined								
Code	Name													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: <b>Code identifying the taxing jurisdiction.</b>	X	AN	1/10	Used								
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b> User: <i>Indicates whether the amount in this segment is to be used in summing.</i>	O	ID	1/1	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	A	Add	I	Included	O	Information Only				
Code	Name													
A	Add													
I	Included													
O	Information Only													
TXI08	828	Dollar Basis For Percent Description: <b>Dollar basis to be used in the percent calculation of the allowance, charge or tax.</b>	O	R	1/9	Used								
TXI10	350	Assigned Identification	O	AN	1/20	Used								

# IT1

## Baseline Item Data (Invoice)

Pos: 210	Max: 1
Detail - Optional	
Loop: IT1	Elements: 8

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

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- P0607 -- If either IT106 or IT107 are present, then the others are required.
- P0809 -- If either IT108 or IT109 are present, then the others are required.
- P1011 -- If either IT110 or IT111 are present, then the others are required.
- P1213 -- If either IT112 or IT113 are present, then the others are required.
- P1415 -- If either IT114 or IT115 are present, then the others are required.
- P1617 -- If either IT116 or IT117 are present, then the others are required.
- P1819 -- If either IT118 or IT119 are present, then the others are required.
- P2021 -- If either IT120 or IT121 are present, then the others are required.
- P2223 -- If either IT122 or IT123 are present, then the others are required.
- P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

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

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
IT101	350	Assigned Identification <b>Description: Alphanumeric characters assigned for differentiation within a transaction set.</b>	O	AN	1/20	Used
IT102	358	Quantity Invoiced <b>Description: Number of units invoiced (supplier units)</b>	X	R	1/10	Used
IT103	355	Unit or Basis for Measurement Code <b>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b> <b>User: When IT103 = "M4" - Rules of extended pricing do not apply.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u> M4        Monetary Value				
IT104	212	Unit Price <b>Description: Price per unit of product, service, commodity, etc.</b>	X	R	1/17	Used

IT106	235	Product/Service ID Qualifier Description: <b>Code identifying the type/source of the descriptive number used in Product/Service ID (234).</b>	X	ID	2/2	Used
-------	-----	--	---	----	-----	------

<u>Code</u>	<u>Name</u>
SV	Service Rendered

IT107	234	Product/Service ID Description: Identifying number for a product or service User: See TCIF section 10.4 for valid values.	X	AN	1/48	Used
-------	-----	---	---	----	------	------

Possible SI DE235/DE234 pairs

Code	Name
0110	Recurring
0200	Monthly Service Charge
0300	Access Charges
0305	Service and Equipment Information
0400	Other Charges and Credits/Additions and Changes
0500	Itemized Calls
0510	Interexchange Carrier Invoice Charges
0520	Itemized Charges/Credits
0600	Directory Advertising
0700	Usage
0705	Measured Service
0710	Message Rate Service
0715	CABS Usage
0800	Optional Call Plan/ Discount Plan
0900	Directory Assistance
0905	Direct Customer Access
1000	WATS
1100	Mobile/Cellular/Personal Communications Service Usage
1110	Roamer
1200	Equipment
1400	Other Voice Services
1410	Advance Intelligent Network
1420	ISDN Service
1600	Non-Voice Service
1605	Packet Switching
1710	Customized Billing Service
1740	Miscellaneous
1810	Foreign Exchange (FEX)
1820	Voice Mail
1830	Extended Area
1990	Other Line Charge
2050	Total Amount Billed (for Summary/Consolidated Billing Only)
2060	Set Use Free
2110	Contracts/Discounts
2500	Purchases
2600	Late Payment Charges

IT108	235	Product/Service ID Qualifier Description: <b>Code identifying the type/source of the descriptive number used in Product/Service ID (234).</b>	X	ID	2/2	Used
-------	-----	--	---	----	-----	------

User: **"ZZ" is temporarily being used for Telecom Service Type.**

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

IT109	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	X	AN	1/48	Used
-------	-----	--	---	----	------	------

User: **Valid values are:**

- 1 - Recurring Charge**
- 2 - Other Charges**
- 3 - Usage**
- 4 - Summary/Combined Charges**

# PID

## Product/Item Description

Pos: 230	Max: 200
Detail - Optional	
Loop: IT1	Elements: 2

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

Syntax:

- C0403 -- If PID04 is present, then PID03 is required.
- R0405 -- At least one of PID04 or PID05 is required.
- C0703 -- If PID07 is present, then PID03 is required
- C0804 -- If PID08 is present, then PID04 is required
- C0905 -- If PID09 is present, then PID05 is required

Semantics:

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

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
PID01	349	Item Description Type Description: <b>Code indicating the format of a description.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		F        Free-form				
PID05	352	Description <b>Description: A free-form description to clarify the related data elements and their content.</b>	X	AN	1/80	Used

User: A more detailed description of the Product/Service listed in IT107

# TXI

## Tax Information

Pos: 250	Max: >1
Detail - Optional	
Loop: IT1	Elements: 8

To specify tax information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		AB    Surtax				
		CA    City Tax				
		CG    Federal Value-Added Tax (GST) on Goods				
		<b>User Note: "CG" is used for GST Goods and Services</b>				
		CT    County Tax				
		FD    Federal Tax				
		<b>Description:</b> Usage tax imposed by federal (US and Canadian) government.				
		FR    Franchise Tax				
		LO    Local Tax (Not Sales Tax)				
		<b>Description:</b> Service tax imposed on a local level.				
		LT    Local Sales Tax				
		OH    Other Taxes				
		OT    Occupational Tax				
		SC    School Tax				
		SL    State and Local				
		SP    State/Provincial Tax				
		ST    State Sales Tax				
		SU    Sales and Use Tax				
		TX    All Taxes (combined)				
		VA    Value Added Tax				
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used
TXI03	954	Percent Description: <b>Percentage expressed as a decimal.</b>	X	R	1/10	Used

TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>VD</td> <td>Vendor defined</td> </tr> </tbody> </table>	Code	Name	VD	Vendor defined								
Code	Name													
VD	Vendor defined													
TXI05	956	Tax Jurisdiction Code Description: <b>Code identifying the taxing jurisdiction.</b>	X	AN	1/10	Used								
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used								
		<p>User: <i>Indicates whether the amount in this segment is to be used in summing.</i></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	A	Add	I	Included	O	Information Only				
Code	Name													
A	Add													
I	Included													
O	Information Only													
TXI08	828	Dollar Basis For Percent Description: <b>Dollar basis to be used in the percent calculation of the allowance, charge or tax.</b>	O	R	1/9	Used								
TXI10	350	Assigned Identification	O	AN	1/20	Used								



# ITA Allowance, Charge or Service

Pos: 310	Max: 1
Detail - Optional	
Loop: IT1	Elements: 6

To specify allowances, charges, or services:

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required.

P1011 -- If either ITA10 or ITA11 are present, then the others are required.

C1502 -- If ITA15 is present, then ITA02 is required.

C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> A        Allowance C        Charge N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 04        Credit Customer Account 06        Charge to be Paid by Customer				

ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b> User: <b>See TCIF section 10.4 for valid values.</b>	X	ID	3/3	Used
ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used

<u>Code</u>	<u>Name</u>
I	Included
O	Information Only

**Description:** Charges that 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).

# SLN

## Subline Item Detail

Pos: 390	Max: 1
Detail - Optional	
Loop: SLN	Elements: 8

To specify product subline detail item data:

Syntax:

- P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- C0706 -- If SLN07 is present, then SLN06 is required.
- C0806 -- If SLN08 is present, then SLN06 is required.
- P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

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

Comments:

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

User: The SLN loop may only appear at HL8 (Charge Detail level).

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SLN01	350	Assigned Identification Description: <b>Alphanumeric characters assigned for differentiation within a transaction set.</b>	M	AN	1/20	Must use
SLN03	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> I        Included				
SLN04	380	Quantity Description: <b>Numeric value of quantity.</b>	X	R	1/15	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																																						
SLN05	C001	Composite Unit of Measure Description: <b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>		Comp		Used																																						
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use																																						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>03</td> <td>Seconds</td> </tr> <tr> <td>12</td> <td>Packets</td> </tr> <tr> <td>1I</td> <td>Fixed Rate</td> </tr> <tr> <td>1N</td> <td>Count</td> </tr> <tr> <td>2P</td> <td>kilobytes</td> </tr> <tr> <td>AH</td> <td>Additional Minutes</td> </tr> <tr> <td>BL</td> <td>Block</td> </tr> <tr> <td>C0</td> <td>Calls</td> </tr> <tr> <td></td> <td><b>Description:</b> Number of calls handled</td> </tr> <tr> <td>DQ</td> <td>Data Record.</td> </tr> <tr> <td>EJ</td> <td>Locations</td> </tr> <tr> <td>HR</td> <td>Hours</td> </tr> <tr> <td>KB</td> <td>Kilocharacters</td> </tr> <tr> <td>KF</td> <td>Kilopackets</td> </tr> <tr> <td></td> <td><b>Description:</b> Kilopackets of data transmitted.</td> </tr> <tr> <td>M4</td> <td>Monetary Value</td> </tr> <tr> <td>MJ</td> <td>Minutes</td> </tr> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	Code	Name	03	Seconds	12	Packets	1I	Fixed Rate	1N	Count	2P	kilobytes	AH	Additional Minutes	BL	Block	C0	Calls		<b>Description:</b> Number of calls handled	DQ	Data Record.	EJ	Locations	HR	Hours	KB	Kilocharacters	KF	Kilopackets		<b>Description:</b> Kilopackets of data transmitted.	M4	Monetary Value	MJ	Minutes	UN	Unit				
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M4	Monetary Value																																											
MJ	Minutes																																											
UN	Unit																																											
SLN06	212	Unit Price Description: <b>Price per unit of product, service, commodity, etc.</b>	X	R	1/17	Used																																						
SLN08	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Must Use																																						
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SLN09	235	Product/Service ID Qualifier Description: <b>Code identifying the type/source of the descriptive number used in Product/Service ID (234).</b>	X	ID	2/2	Used																																						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>SK</td> <td>Stock Keeping Unit (SKU)</td> </tr> <tr> <td>SV</td> <td>Service Rendered</td> </tr> </tbody> </table>	Code	Name	SK	Stock Keeping Unit (SKU)	SV	Service Rendered																																				
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SK	Stock Keeping Unit (SKU)																																											
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SLN10	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See TCIF section 10.4 for complete list of valid values.</b>	X	AN	1/48	Used																																						
		If SLN09 = 'SK'																																										

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		then SLN10 contains the SKU				
		If SLN09 = 'SV'				
		then SLN10 contains the Service Rendered				
		Possible SI DE235/DE234 pairs				
		<u>Code</u> <u>Name</u>				
		0200    Monthly Service Charge				
		0220    Summary Charge				
		0225    Mileage Charge				
		0250    CENTREX/ESSX				
		0400    Other Charges and Credits/Additions and Changes				
		0500    Itemized Calls				
		0700    Usage				
		0900    Directory Assistance				
		1000    WATS				
		1200    Equipment				
		1400    Other Voice Services				
		1410    Advanced Intelligent Network				
		1420    ISDN Service				
		1430    Remote Call Forwarding (RCF)				
		1450    Information Services				
		1600    Non-Voice Service				
		1605    Packet Switching				
		1615    Custom Local Access Switch Services (CLASS)				
		1650    Video Services				
		1740    Miscellaneous				
		1820    Voice Mail				
		1830    Extended Area				
		1850    976				
		1880    800 Common Line				
		1910    Billing/Transaction Processing Charges				
		2010    Directory Product				
		2500    Purchases				
SLN011	235	Product/Service ID Qualifier Description: <b>Code identifying the type/source of the descriptive number used in Product/Service ID (234).</b>	X	ID	2/2	Used

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

SLN12      234      Product/Service ID      X      AN      1/48      Used

**Description:** contains three bytes that identify Charge Type.

1. The first byte contains the Charge Type Code.
2. The second byte contains the Charge Sub Type Code.
3. The third byte contains the Activity Code.

Possible SI DE235/DE234 pairs

**First byte (Charge Type Code):**

<u>Code</u>	<u>Name</u>
A	Adjustments
B	Prepaid
C	Summary
D	Discount
E	Extra Service Baseline Summary
F	Extra Service ARC/RRC Summary
M	Customer Level Minimum Spend
N	Non-recurring P Promotions
R	Recurring
S	Service display only
T	Tax CLIN (Informational)
U	Usage
X	Unknown
Y	Rounding Difference

**Second byte (Charge Sub Type Code):**

<u>Code</u>	<u>Name</u>
A	Adjustment
B	Bulk upload Adjustment
C	Consumption Event
E	Early Termination Liability
F	Recurring Feature Charge
I	Incollect charges
L	Line Rental
M	Product Level Minimum Spend
N	Adjust/Discount/Promotion applied on an NRC
O	One Time Contractual Credit/Signing Bonus
P	One Time Contractual Charges/Penalties
R	Adjust/Discount/Promotion applied on an MRC
S	Service related charges
U	Adjust/Discount/Promotion applied to Usage
W	Waived Charges

**Third byte (Activity Code):**

<u>Code</u>	<u>Name</u>
F	Recurring Feature Charge
1	Change
2	Install
3	Cancel
4	Disconnect
5	Create
6	Modify
7	Dial-up
8	Dedicated
9	Dial-up Dedicated

- A Activate
- B Credit
- C One-time
- D Expedite
- E Distributed Corporate Charges

# SI Service Characteristic Identification

Pos: 400	Max: 2
Detail - Optional	
Loop: SLN	Elements: 21

To specify service characteristic data:

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

User: See section 10.4 for valid values when using data element 1000/234 pairs.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	M	AN	2/2	Must use

User: **See TCIF section 10.4 for complete list of valid values.**  
**Possible SI DE1000/DE234 pairs:**  
**'A1' Actual/Assumed Usage Indicator: A code that identifies usage as being based upon actual recorded usage or assumed usage.**  
**'BA' Band**  
**'BT' Basic Service Type**  
**'CE' Cellular Air Time Package Code**  
**'CH' Partial Period Ind: A CABS Indicator which Indicates the incidence (or lack thereof) of a change during the usage billing cycle.**  
**'CT' Common Segment Hops**  
**'CZ' Cellular Usage Indicator: A code used to identify cellular usage and separate cellular usage type.**  
**'DA' Directory Assistance Category Code**  
**'DB' Directory Book Code**  
**The Yellow Pages Publishing Association (YPPA) Directory**



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>Publication code.</b>				
		<b>SOURCE: Publisher Contact List AVAILABLE FROM:</b>				
		<b>Yellow Pages Publishing Association Operations Group</b>				
		<b>820 Kirts Blvd - Suite 100</b>				
		<b>Troy, MI 48084</b>				
		<b>(248) 244-6200</b>				
		<b>(248) 244-0700 (Fax)</b>				
		<b>INTERNET: www.yppa.org</b>				
		<b>'DC' Directionality Indicator: A CABS code that identifies directionality.</b>				
		<b>'DH' Discount/Promo Application Code</b>				
		<b>'DI' Department Code/Customer ID Code</b>				
		<b>'DJ' Sub-Departmental ID Code</b>				
		<b>'DN' Directory Book Name</b>				
		<b>'DP' Different Premise Address/Location Code</b>				
		<b>'DS' Discount Planned Code</b>				
		<b>'DZ' Directory Advertising Category Code</b>				
		<b>'EN' Earning Number</b>				
		<b>'FN' From Telephone Number</b>				
		<b>'IC' Summary Office Identification (CLLI code)</b>				
		<b>'KS' Key System Number</b>				
		<b>'K1' Digital Network Info System ID (DNIS ID)</b>				
		<b>'LF' mmLine Class Code</b>				
		<b>'LJ' Local Transport Element: A CABS Indicator which identifies the type of traffic to which local transport charges apply.</b>				
		<b>'LX' Local Exchange: Indicates the provider's NPA/NXX</b>				
		<b>'LA' LATA</b>				
		<b>'LN' Listed Telephone Number</b>				
		<b>'MC' Message or Rate Class</b>				
		<b>'MT' Message Type</b>				
		<b>'NC' Network Channel Code: Identifies the network channel code for the circuit(s) involved. It describes the channel provided by the exchange company between two customer locations.</b>				
		<b>'NG' Network Point Indicator</b>				
		<b>'NI' Network Channel Interface Code: Indicates the electrical and physical interface between the telecommunications provider office and the customer location.</b>				
		<b>'NJ' Secondary Network Channel Interface Code (SECNCI): Identifies the electrical connotation on the circuit at the secondary ACTL or primary location.</b>				
		<b>'NK' Network Path Indicator</b>				
		<b>'P0' Pricing Plan Type Indicator</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'NP' NPA (Area Code)</b>				
		<b>'OC' Other Charges and Credits Category Code</b>				
		<b>'OD' Other Charges and Credits Description Code</b>				
		<b>'OL' Originating Location</b>				
		<b>'PA' Primary/Originating Message Carrier Identification</b> Identifies a third party service provider.				
		<b>'PQ' Major Product Code</b>				
		<b>'PU' Percent of Interstate Usage (PIU):</b> Specifies the percent of interstate traffic, a physically intrastate circuit carries or is capable of carrying.				
		<b>'R2' Routing Indicator:</b> A CABS code which identifies how the usage was routed through the network.				
		<b>'RF' Related Circuit Number</b>				
		<b>'RJ' Rate Zone for Taxing (Switch / Taxing Geo code)</b>				
		<b>'RP' Rate Period Code</b>				
		<b>'RS' Rate Schedule.</b> Identifies the rating schedule used to calculate usage charges. For CABS, a code that denotes whether a premium or non-premium rate is applied or when there is no distinction between premium and non-premium in the tariff.				
		<b>'RT' State Code</b>				
		<b>'RY' Local / Toll Indicator</b>				
		<b>'SA' Service Activity Code</b>				
		<b>'SC' Service Category Code</b>				
		<b>'SD' Settlement Code</b>				
		<b>'SF' Service Feature/Option Code</b>				
		<b>'SG' Service Group:</b> A CABS Indicator denoting the Feature Group.				
		<b>'SS' Service Sub-category Code</b>				
		<b>'ST' Message Service Type</b>				
		<b>'SQ' Sub-Product Code</b>				
		<b>'TE' Transmission Speed</b>				
		<b>'TL' Terminating Location</b>				
		<b>'TM' To Number</b>				
		<b>'TN' Telephone Number</b>				
		<b>'TT' Transmission Type</b>				
		<b>'UB' Class of Service (USOC) Indicator:</b> A code used to identify the type of USOC presented in customer				
		<b>'WN' Wide Area Telephone Service (WATS) Line Number SITS Code</b>				
		<b>'WS' Wide Area Telephone Service (WATS) Line Number SIS Code</b>				
		<b>'Z1' Transport Rate Element Indicator:</b> A CABS code that denotes which transport rate element applies.				
		<b>'Z2' Local Service Element:</b> A CABS code that denotes which local service element applies.				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
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**'Z3' Local Service Traffic Type Indicator:** A CABS code that identifies the local service traffic type.

**'Z4' Directory Assistance Type Indicator:** A CABS code that identifies the type of directory assistance usage charge.

**'Z5' Operator Services Type Indicator:** A CABS code that identifies the operator service category type of charge.

**'Z6' Operator Type Indicator:** A CABS code that denotes the type of operator usage being billed or the type of operator surcharge being applied.

**'Z7' End Office/Common Carrier Line Indicator:** A CABS code that indicates if the Usage data is End Office Usage Detail or Carrier Common Line Usage Detail.

**'Z8' End Office Element:** A CABS code that identifies the major element applicable for the end office usage charges.

**'Z9' Common Line Element:** A CABS code that identifies the traffic type and directionality or other methods of assessing common line access charge.

**'ZA' End Office Traffic Type Indicator:** A CABS code that identifies the type of traffic for the end office.

**'ZB' Originating/Terminating Office Code:** A code that identifies the CLLI code of the End office in which traffic originates or terminates.

**'ZC' Service Method || Entry Code**  
 Service Method: Differentiates special traffic  
 Entry Code: Distinguishes whether the traffic being processed is EVS traffic or tells the type of EVS traffic.

**'ZD' Call Termination**

**'ZE' Access Code for Conferencing.**

**'ZF' Operator Assisted Code**

**'ZI' Activity Code**

**'ZL' Description (can contain the "identifying code" for the conference held and is usually a seq#/id code followed by the leader's last name).**

**'ZM' Suite (Can contain the Conference Suit Description (i.e. UNATTENDED)**

**'99' Continuation of Location**

SI03	234	Product/Service ID Description: Identifying number for a product or service.	M	AN	1/48	Must use
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**User:**  
 If DE1000 'A1'  
 '1' Actual Usage  
 '2' Assumed Usage (Non Recorded)

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>If DE1000 = 'CE'</b>				
		<i>A - Cellular Call (type unknown)</i>				
		<i>D - Daily Roamer Surcharge</i>				
		<i>E - Extended Home Area</i>				
		<i>F - Forwarded</i>				
		<i>G - Regional Roaming</i>				
		<i>H - Home Airtime</i>				
		<i>L - Landline Termination</i>				
		<i>N - Market Roaming</i>				
		<i>R - Out-of-Territory Roaming</i>				
		<i>T - Toll</i>				
		<b>If DE1000 'CH'</b>				
		<i>'06' Change occurred, partial period is before change</i>				
		<i>'07' = Change occurred for this partial period</i>				
		<b>If DE1000 = CT</b>				
		<i>A - Interswitch DTO for Redirect</i>				
		<i>B - Intraswitch DTO for Redirect</i>				
		<i>C - Call Leg 1 no hops</i>				
		<i>D - Call Leg 2 no hops</i>				
		<i>E - Call Leg 3 no hops</i>				
		<i>F - Call Leg 1 w/ 1 hop</i>				
		<i>G - Call Leg 1 w/ 2 hops</i>				
		<i>H - Call Leg 1 w/ 3 hops</i>				
		<i>I - Call Leg 1 w/ 4 hops</i>				
		<i>J - Call Leg 1 w/ 5 hops</i>				
		<i>K - Call Leg 2 w/ 1 hop</i>				
		<i>L - Call Leg 2 w/ 2 hops</i>				
		<i>M - Call Leg 2 w/ 3 hops</i>				
		<i>N - Call Leg 2 w/ 4 hops</i>				
		<i>O - Call Leg 2 w/ 5 hops</i>				
		<i>1 - 1 Overflow Hop for NCR (Network Call Redirect)</i>				
		<i>2 - 2 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>3 - 3 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>4 - 4 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>5 - 5 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>6 - 6 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>7 - 7 Overflow Hops for NCR (Network Call Redirect)</i>				
		<i>8 - 8 Overflow Hops for NCR (Network Call Redirect)</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>9 - 9 Overflow Hops for NCR (Network Call Redirect)</b>				
		<i>If DE1000 'CZ'</i>				
		'0' Not Cellular Usage				
		'1' Cellular Usage				
		'A' Type 1 connection				
		'B' Type 2 connection				
		<i>If DE1000 'DA'</i>				
		'01' Local				
		'02' Intrastate/Intraprovincial				
		'03' Intrastate/IntraLATA				
		'04' Intrastate/InterLATA				
		'05' Interstate/Interprovincial				
		'06' Interstate/IntraLATA				
		'07' Interstate/InterLATA				
		'08' Corridor				
		'09' 411				
		'10' 555				
		'11' Both 411 and 555 combined				
		'15' Intrastate Operator				
		'19' Call Credit				
		'21' Information Call Completion				
		'22' Intrastate Call Completion				
		'23' Interstate Call Completion				
		'24' Name/Address				
		'26' 555 National				
		'32' Business Listing				
		<i>If DE1000 'DC'</i>				
		'O' Originating				
		'T' Terminating				
		'C' Combination of Originating and Terminating				
		<i>If DE1000 'DI'</i>				
		'F' Flat Rate				
		'P' Percentage				
		<i>If DE1000 'DH'</i>				
		'1' Flat Dollar Discount				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'2' Percentage Discount</i>				
		<i>'3' Seasonal Suspend</i>				
		<i>'4' Universal Service Schools and Libraries Discount</i>				
		<i>'5' Promotions</i>				
		<b>If DE1000 'DZ'</b>				
		<i>'01' DA Issue Billing</i>				
		<i>'10' DA Monthly Billing</i>				
		<i>'15' DA Adjustment</i>				
		<i>'20' Credit/Debit</i>				
		<i>'25' DA Sales</i>				
		<i>'30' Increase in DA</i>				
		<i>'35' Decrease in DA</i>				
		<b>If DE1000 'LA'</b>				
		<i>Format can be Originating LATA "/" Terminating LATA</i>				
		<b>If DE1000 'LF'</b>				
		<i>'1' Restricted Centrex line</i>				
		<i>'2' Unrestricted Centrex line</i>				
		<i>'3' Patient Station Centrex line</i>				
		<i>'4' WATS line (both inward and outward)</i>				
		<i>'5' 800 Service line</i>				
		<i>'6' Circuit Alias</i>				
		<i>'7' Individual Line</i>				
		<i>'8' Two Party Line</i>				
		<i>'A' Four Party Line</i>				
		<i>'B' Digital Centrex Line</i>				
		<i>'C' Cocots Line</i>				
		<i>'D' Eight Party Line</i>				
		<i>'E' ISDN BRI Line</i>				
		<i>'F' ISDN PRI Line</i>				
		<i>'G' Remote Forward Line</i>				
		<i>'H' Digital Circuit Line</i>				
		<i>'I' Circuit Line</i>				
		<i>'J' Public Line</i>				
		<i>'K' Semi Public Line</i>				
		<i>'L' PBX Inward Line</i>				
		<i>'M' PBX Outward Line</i>				
		<i>'N' PBX Combination Line</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'O' MRNE Air Line</i>				
		<i>'P' Centrex Line</i>				
		<i>If DE1000 'LJ'</i>				
		<i>'00' Local Transport Equals Statistics*</i>				
		<i>'01' Unidentified (Traffic Type/Directionality Unknown</i>				
		<i>'02' Originating Operator Handled 0+</i>				
		<i>'04' Originating Operator Handled 800</i>				
		<i>'05' Originating MOU</i>				
		<i>'06' 06 Originating 976 V15</i>				
		<i>'07' Originating Operator Handled 700</i>				
		<i>'08' Originating 800 Data Base</i>				
		<i>'09' Originating Operator Handled 900</i>				
		<i>'10' Originating Operator MOU</i>				
		<i>'11' Originating International Operator</i>				
		<i>'12' Originating Operator Pass Thru/MOU/OPH 0-/Operator Transfer</i>				
		<i>'13' Originating Operator Pass Thru/Messages/Operator Transfer</i>				
		<i>'14' Originating 00-Coin</i>				
		<i>'15' Originating Domestic Dialed MOU</i>				
		<i>'16' Originating Cellular</i>				
		<i>'17' Originating 500 Service</i>				
		<i>'18' Originating-Switched Data Service (ISDN Interconnected Traffic)</i>				
		<i>'19' Originating Telecommunications Relay Service(TRS)</i>				
		<i>'20' Originating IDDD MOU</i>				
		<i>'21' Originating-Switched 56 KBPS</i>				
		<i>'22' Originating - SNC</i>				
		<i>'23' Originating WATS MOU</i>				
		<i>'24' Originating 800 not PIL'D</i>				
		<i>'26' Originating-800 Common Line</i>				
		<i>'27' Terminating 800 Serv MOU</i>				
		<i>'30' Originating 900 Service MOU</i>				
		<i>'31' Originating 700 Service</i>				
		<i>'32' Terminating SNC</i>				
		<i>'33' Terminating Directory Assistance MOU</i>				
		<i>'34' Originating Coin 1+</i>				
		<i>'35' Terminating MOU</i>				
		<i>'36' Terminating-Switched 56 KBPS</i>				
		<i>'38' Terminating-Carrier Estimated</i>				
		<i>'39' Terminating-Cellular</i>				
		<i>'40' FG A Supplement</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'41' Originating Directory Assist</i>				
		<i>'42' FG B Supplement</i>				
		<i>'44' Originating Coin 0+</i>				
		<i>'46' Originating Credit Card</i>				
		<i>'47' Calling Card Count</i>				
		<i>'48' Billed Number Screening</i>				
		<i>'49' Calling Name (CNAM)</i>				
		<i>'50' Originating Line Number Screening (OLNS)</i>				
		<i>'62' Terminating-Switched Data Service (R1)</i>				
		<i>'71' Terminating IOPH</i>				
		<i>'73' Originating Local Trans Credit</i>				
		<i>'74' Terminating Local Trans Credit</i>				
		<i>'81' Terminating OutWATS-FG C</i>				
		<i>'82' Terminating IDDD</i>				
		<i>'84' Terminating - 800 not PIL'D</i>				
		<i>'90' Local Transport Subtotal</i>				
		<i>'91' Total of All Discounts</i>				
		<i>'92' Ttl Lcl Trans Fac Chg for EC</i>				
		<i>'93' Ttl Lcl Trans Term Chg for EC</i>				
		<i>'94' Ttl Lcl Trans Chg for EC</i>				
		<i>'95' State Subttl</i>				
		<i>'96' Ttl Lcl Trans RIC Chg for EC</i>				
		<i>'97' Total Tandem Switching Charge for EC</i>				
		<i>'98' Ttl Lcl Trans Muxing Chg for EC</i>				
		<i>'99' Local Transport Ttl'</i>				
		<i>'9L' Total Tandem Switch Termination</i>				
		<i>'9M' Total Tandem Trunk Side</i>				
		<i>'NA' Minutes not Billed In Local Transport or Statistics Total Record**</i>				
		<i>'B1' Common Transport-Fixed</i>				
		<i>'B2' Originating 64 Clear Channel</i>				
		<i>'B3' Terminating 64 Clear Channel</i>				
		<i>'B4' Originating Multi 64 CCC</i>				
		<i>'B5' Terminating Multi 64 CCC</i>				
		<i>'B7' Originating Operator Handled 500</i>				
		<i>'C1' Operator-950</i>				
		<i>'C2' Originating-950</i>				
		<i>'D1' Debit Card</i>				
		<i>'D2' Debit Card (International)</i>				
		<i>'F1' Call Set Up</i>				
		<i>'F2' Call Duration</i>				



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'R2' Terminating EAS V38</i>				
		<i>'R3' ISP (Internet Service Provider) MOU</i>				
		<i>'H8' Ttl. Transit Local</i>				
		<i>If DE1000 = MC</i>				
		<i>DS - Dial Station,</i>				
		<i>OS - Operator Station,</i>				
		<i>If DE1000 = MT</i>				
		<i>CC - Calling Card</i>				
		<i>CL - Collect</i>				
		<i>CP - Coin Paid</i>				
		<i>SC - Special Collect</i>				
		<i>SP - Sent Paid</i>				
		<i>TF - Toll Free</i>				
		<i>TN - Third Number</i>				
		<i>If DE1000 'NG'</i>				
		<i>'1' End Office</i>				
		<i>'2' LTL/SWC</i>				
		<i>'3' Tandem</i>				
		<i>'4' Host</i>				
		<i>'5' Remote</i>				
		<i>'6' HUB</i>				
		<i>'7' Dial Tone Office</i>				
		<i>'8' Terminating Office ID</i>				
		<i>'9' Host/Tandem #</i>				
		<i>'A' Host/Remote #</i>				
		<i>'B' Gateway Tandem</i>				
		<i>If DE1000 'NK'</i>				
		<i>'1' Serving wire center to dial tone office</i>				
		<i>'2' Dial-tone office to terminating end office</i>				
		<i>'3' Host office to remote office</i>				
		<i>'4' Serving wire center to host office</i>				
		<i>'5' Tandem to host</i>				
		<i>'6' HUB to host</i>				
		<i>'7' End office to tandem</i>				
		<i>'8' End office to HUB</i>				
		<i>'9' Dial-tone office to host</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'A' Serving wire center to terminating end office</i>				
		<i>'B' Serving wire center to end office</i>				
		<i>'C' Serving wire center to tandem</i>				
		<i>'E' Tandem to Tandem</i>				
		<i>'G' End Office to End Office</i>				
		<i>'H' TOPS to Terminating End Office</i>				
		<i>'J' End Office to Gateway Tandem</i>				
		<i>'K' Gateway Tandem to Host</i>				
		<i>If DE1000 'OC'</i>				
		<i>'02' Annual Inventory</i>				
		<i>'06' Out of Service</i>				
		<i>'08' Miscellaneous Activity</i>				
		<i>'12' Service Order Activity</i>				
		<i>'16' Interest on deposit</i>				
		<i>'B01' Charge or credit related to rate change</i>				
		<i>'C01' Addition, change or deletion related to monthly recurring events</i>				
		<i>'D01' Adjustment related to previously billed event</i>				
		<i>'D07' Late payment charge</i>				
		<i>'D09' Transferred Billing Charges/Payments</i>				
		<i>'E01' Refund</i>				
		<i>'E02' Interest</i>				
		<i>'E03' Deposit Refund</i>				
		<i>'G01' Charge or credit related to installment billing</i>				
		<i>'H01' Charge or credit related to nonrecurring event</i>				
		<i>'H14' Change/rearrangement/removal</i>				
		<i>'H16' Gift of service/installation</i>				
		<i>'H20' Promotional Credit/Discount/Gift</i>				
		<i>If DE1000 'OD'</i>				
		<i>'02'=Inventory</i>				
		<i>'03' = UBB Overage Charge</i>				
		<i>'06'=Out of service credit</i>				
		<i>'07'=Out of service charge</i>				
		<i>'08'=Miscellaneous activity (also used for held deposit)</i>				
		<i>'09' = ESG Portal OC&amp;C</i>				
		<i>'10' = ESG Claim OC&amp;C</i>				
		<i>'11' = eRate OC&amp;C</i>				
		<i>'12'=Service order activity</i>				
		<i>'14'=Deposit refund</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		'16'=Interest on a deposit				
		'17'=Installment Billing: Charges Included in Installment Plan				
		'18'=Installment billing				
		'19'=Installment Billing Credit				
		'20'=Rate change				
		'22'=Fractional charge				
		'24'=Fractional credit				
		'26'=Non-recurring charge				
		'28'=Non-recurring credit				
		'29'= Save Winback (Retain Credit)				
		'30'=Gift service				
		'32'=Rate refund				
		'34'=Interest on rate refund				
		'36' = Late Payment Charge				
		'37'=Maintenance Contracts				
		'40' Invoiced Adjustment				
		'48' = Termination				
		'50'=BAC Total				
		'60' = Addition of Contact				
		'61'= Removal of Contract				
		'62' = Contract Rate Increase				
		'63' = Contract Rate Decrease				
		'64' = NICB Retroactive Charge				
		'65' = Shortfall Penalty				
		'66 = Termination Penalty Charge				
		'80' = Balance Transfer				
		'81' = Carryover Charge				
		'92'=Full Month Recurring Charge				
		'94'=Full Month Recurring Discount				
		'95' = National Discount Tax Adjustment (used between Media and VAC)				
		'96' = TBR National Tax Adjustment for NBBE Billing				
		'97'=Interest for installment billing debit amount				
		'98'=Interest for installment billing credit amount				
		'99' = Installment billing surcharge				
		<i>If DE1000 = P0</i>				
		<i>D - Duration Based</i>				
		<i>C - Application Counter Based</i>				
		<i>B - Combination of Duration &amp; Application Counter Based</i>				
		<i>N - Not in-plan</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>P - Price Cap</b>				
		<b>Y - In-plan</b>				
		<b>If DE1000 'R2' and CABS (REF*06 = '05' OR REF*06 = '16')</b>				
		<b>'1' = Direct Routed</b>				
		<b>'2' = Tandem Routed</b>				
		<b>'3' = TSP Direct Routed</b>				
		<b>'4' = TSP Tandem Routed</b>				
		<b>If DE1000 = R2 and NOT CABS</b>				
		<b>0 - Not Available for call</b>				
		<b>1 - Off Net</b>				
		<b>2 - Local Origination</b>				
		<b>3 - Local Termination</b>				
		<b>4 - On Net</b>				
		<b>5 - Excluded (such as calling card/pre-rated calls)</b>				
		<b>A - Local Network to Local Network</b>				
		<b>B - Local Network to Dedicated</b>				
		<b>C - Local Network to Switched Access</b>				
		<b>CA - Card Access</b>				
		<b>D - Dedicated to Local Network</b>				
		<b>DA - Dedicated Access</b>				
		<b>E - Switched Access to Local Network</b>				
		<b>F - Switched Access to Switched Access</b>				
		<b>FRA - FreePhone Remote Access</b>				
		<b>G - Dedicated to Dedicated</b>				
		<b>H - Switched to Dedicated</b>				
		<b>I - Dedicated to Switched Access</b>				
		<b>J - Local Network to Mobile</b>				
		<b>K - Switched Access to Mobile</b>				
		<b>L - Dedicated to Mobile</b>				
		<b>M - Customized Announcement</b>				
		<b>MT - Mobile Termination</b>				
		<b>N - Mobile to Local Network</b>				
		<b>O - Mobile to Switched Access</b>				
		<b>P - Mobile to Dedicated</b>				
		<b>Q = Local Originating</b>				
		<b>R = Dedicated Originating</b>				
		<b>RSA - Register Site Access</b>				
		<b>S = Switched Originating</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>SA = Switched Access</b>				
		<b>T = Local Termination</b>				
		<b>U = Dedicated Termination</b>				
		<b>V = Switched Termination</b>				
		<b>W = Local to Verizon Wireless</b>				
		<b>X = Switched to Verizon Wireless</b>				
		<b>Y = Dedicated to Verizon Wireless</b>				
		<b>If DE1000 = RJ</b>				
		<b>100 - West Orange, NJ</b>				
		<b>300 - Atlanta, GA</b>				
		<b>310 - MiniMode</b>				
		<b>400 - West Sacramento, CA</b>				
		<b>If DE1000 'RP'</b>				
		<b>'01' Peak</b>				
		<b>'02' Off Peak</b>				
		<b>'03' Day</b>				
		<b>'04' Evening</b>				
		<b>'05' Night/Weekend</b>				
		<b>'06' Weekend (when separate from night)</b>				
		<b>'07' Special Intrastate</b>				
		<b>'08' Late night</b>				
		<b>'09' Regular (Non time of day WATS)</b>				
		<b>'10' Discount</b>				
		<b>'11' Economy</b>				
		<b>'12' Prime</b>				
		<b>'13' Standard</b>				
		<b>'14' Multi-period</b>				
		<b>If DE1000 'RS'</b>				
		<b>'1' Premium</b>				
		<b>'2' Non-premium</b>				
		<b>'3' Non-distinct</b>				
		<b>'4' Discounted Premium</b>				
		<b>'S' Simple Rate</b>				
		<b>'T' Tiered Rate</b>				
		<b>If DE1000 = RY</b>				
		<b>L - Local</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>T - Toll / Long Distance</b>				
		<i>If DE1000 'SA'</i>				
		'A' Add				
		'AF' Add Feature(s)				
		'C' Change				
		'CF' Change From				
		'CT' Change To				
		'D' Delete				
		'H' Short Term				
		'I' Include				
		'L' Seasonal				
		'P' PIC Change				
		'R' Record – Information only				
		'RA' Record Activity – Add				
		'RD' Record Activity – Delete				
		'RF' Remove Feature(s)				
		'RL' Relocate Service Location				
		'RS' Restore Service				
		'S' Reseller Assume				
		'SS' Suspend Service				
		'V' Conversion as specified				
		'W' Conversion as is				
		'X' Exclude				
		'Y' Deny				
		<i>If DE1000 'SC'</i>				
		<i>For Verizon Rapid Delivery (VRD), SI pair SC contains the Feature Instance ID.</i>				
		<i>Notes: 1. For VRD bundled services, the Feature Instance ID is at the Bundle-Level; hence all the bundled products can have the same Feature Instance ID.</i>				
		<i>2, The VRD Feature Instance ID is an unique value for almost each individual charge. Also see the VRD Feature Code provided in the SI Pair UB.</i>				
		<i>If DE1000 'SD'</i>				
		'AB' Intra – US/US				
		'EE' Interstate - InterLATA				
		'ER' Interstate/IntraLATA				
		'IR' Interstate				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'IA' Intrastate</b>				
		<b>'IC' Inter US, Hawaii, Puerto Rico &amp; US Virgin Islands</b>				
		<b>'IT' International</b>				
		<b>'LO' Local</b>				
		<b>'N'B' International – International Point/International Point</b>				
		<b>'NC' International US or Canada</b>				
		<b>'NJ' Non-Jurisdictional</b>				
		<b>'RE' Intrastate - InterLATA</b>				
		<b>'RR' Intrastate/IntraLATA</b>				
		<b>If DE1000 'SF'</b>				
		<b>in all billing systems:</b>				
		<b>'05' Packet Switched Services (Infopath)</b>				
		<b>'10' ISDN</b>				
		<b>'15' CLASS - Custom Local Access Switch Services</b> <i>(includes I.Q. Services, Pay-Per-Use, IntelliSmart and Call Answering)</i>				
		<b>'20' Direct Customer Access(DCA)</b>				
		<b>'25' Gateway Services</b>				
		<b>'35' Circuit 9 (Information Provider Service)</b>				
		<b>'40' Centrex Extended Usage</b>				
		<b>'50' AIN</b>				
		<b>'60' Single Number Service</b>				
		<b>'70' Virtual Private Network</b>				
		<b>In expressTRAK and Legacy South:</b>				
		<b>'30' Switched 56 Kbps</b>				
		<b>'45' Voice Messaging Service</b>				
		<b>In Legacy North:</b>				
		<b>'30' Announcement Service</b>				
		<b>'45' Verizon Electronic White Pages</b>				
		<b>'A1' Switched Wide Band</b>				
		<b>'A2' Group Bridging</b>				
		<b>'A3' IINS Plan</b>				
		<b>'B2' Inf Numbering Plan (INPS)</b>				
		<b>'B5' Circuit 9 (Enduser Transport)</b>				
		<b>'B6' Circuit 9 (Enduser Details)</b>				
		<b>'B7' Circuit 9 (Subscriber Transport)</b>				
		<b>'B8' Circuit 9 (Subscriber B&amp;C)</b>				
		<b>'WA' Wide Area Centrex</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>If DE1000 'SG'</b>				
		'A' Feature Group A				
		'B' Feature Group B				
		'C' Feature Group C				
		'D' Feature Group D				
		'G' Electronic Directory Assistance				
		'I' IntraLATA Wholesale Service				
		'L' Cellular Type 1				
		'N' Net conference				
		'Q' LATA Wide Paging				
		'S' Cellular Type 2A				
		'T' Cellular Type 2B				
		<b>If DE1000 'SS'</b>				
		'1' Local Calling				
		'5' Message Units				
		'M' Metered				
		'N' Non-metered				
		<b>If DE1000 'ST'</b>				
		'CE' - Cellular				
		<b>If DE1000 'TE'</b>				
		A - 56 or 64 Kbps				
		B - 128				
		C - 192				
		D - 256				
		E - 320				
		F - 384				
		G - 448				
		H - 512				
		I - 576				
		J - 640				
		K - 704				
		L - 768				
		M - 832				
		N - 896				
		P - 960				
		Q - 1024				
		R - 1088				



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>S - 1152</b>				
		<b>T - 1216</b>				
		<b>U - 1280</b>				
		<b>V - 1344</b>				
		<b>W - 1408</b>				
		<b>X - 1472</b>				
		<b>Y - 1536</b>				
		<b>If DE1000 'TT'</b>				
		<b>Values for non-CABS billing systems:</b>				
		<b>2 - Universal Domestic</b>				
		<b>3 - Coverage-Ext Call</b>				
		<b>5 - Intracountry</b>				
		<b>6 - Virtual Network Con</b>				
		<b>7 - Concert VNS</b>				
		<b>8 - Market Area Calling</b>				
		<b>9 - Global Voice VPN</b>				
		<b>A - Standard A Analog</b>				
		<b>B - Standard B Digital</b>				
		<b>C - Cellular</b>				
		<b>D - Canada</b>				
		<b>E - Mexico</b>				
		<b>F - Non USA Caribbean</b>				
		<b>G - Intrastate - Intralata</b>				
		<b>H - Intrastate - Interlata</b>				
		<b>I - Internet Fax</b>				
		<b>K - Domestic to International</b>				
		<b>L - Extended Call Coverage to International</b>				
		<b>M - Standard M Digital</b>				
		<b>N - International to International</b>				
		<b>O - Domestic</b>				
		<b>R - Aeronautical Digital</b>				
		<b>if DE1000 'UB'</b>				
		<b>For Verizon Rapid Delivery (VRD), SI pair UB contains the VRD Feature Code. The VRD Feature Code is more like a product code.</b>				
		<b>if DE1000 'Z1'</b>				
		<b>'1' Transport facility mileage sensitive</b>				
		<b>'2' Transport termination</b>				
		<b>'3' Transport facility – non-mileage sensitive</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'4' Shared (Common) Trunk Ports</b>				
		<b>'5' LIDB Transport</b>				
		<b>'6' LIDB Applications</b>				
		<b>'7' RIC/ACE (Residual Interconnection Charge/Access Connection Element)</b>				
		<b>'8' Multiplexing</b>				
		<b>'9' Banded</b>				
		<b>'A' Tandem Switching</b>				
		<b>'B' Facility/Banded</b>				
		<b>'D' CONUS (Continental US) Transport</b>				
		<b>'E' Intra-Alaska Transport</b>				
		<b>'F' Intermediate (Transit) Tandem Transport</b>				
		<b>'G' Blended Rates</b>				
		<b>'H' Local Rates</b>				
		<b>'L' Tandem Switch Termination</b>				
		<b>'M' Tandem Trunk Side</b>				
		<b>'R' Transit Local</b>				
		<b>'W' Banded RIC</b>				
		<b>'Y' Expanded LATA-Wide Tandem Switching</b>				
		<b>If DE1000 'Z2'</b>				
		<b>'1' Interconnection</b>				
		<b>'2' 800 Access</b>				
		<b>'3' Operator</b>				
		<b>'9' Local Service Total</b>				
		<b>If DE1000 'Z3'</b>				
		<b>'05' Originating 800 Data Base</b>				
		<b>'06' 800 - Record Process</b>				
		<b>'20' Directory Assistance</b>				
		<b>'25' Directory Transport</b>				
		<b>'50' Services (Operator)</b>				
		<b>'60' Terminating MOU</b>				
		<b>'90' Subtotal Local Service</b>				
		<b>If DE1000 'Z4'</b>				
		<b>'01' LEC Branding</b>				
		<b>'02' Branding</b>				
		<b>'03' Call Completion Messages</b>				
		<b>'04' Call Completion Conversation MOU*</b>				
		<b>'05' Live Operator</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'06' Live Operator with Branding</b>				
		<b>'07' Local</b>				
		<b>'08' Toll</b>				
		<b>'10' Name &amp; Address (Reverse DA)</b>				
		<b>'11' Telephone Number</b>				
		<b>'12' Expanded Area DA Search</b>				
		<b>'13' Branding Surcharge</b>				
		<b>'14' Telephone Number and Name and Address</b>				
		<b>'15' Credits</b>				
		<b>'20' Direct Access Single Listing V</b>				
		<b>'21' Electronic White Pages</b>				
		<b>'22' Direct Access Multiple Listings</b>				
		<b>'33' Non-Published Call Notification</b>				
		<b>'34' Direct Dial</b>				
		<b>'35' Business Category Search</b>				
		<b>'40' Unbranded</b>				
		<b>'42' Call Completion Attempts</b>				
		<b>'51' Short Message Service (SMS)</b>				
		<b>'52' Wholesale Automated Directory Assistance Call Completion (WADACC)</b>				
		<b>'53' Short Message Service (SMS) / Wholesale Automated Directory Assistance Call Completion (WADACC)</b>				
		<b>'55' Returned Calls</b>				
		<b>'56' Introductory Messages</b>				
		<b>'59' Reverse DA Credit</b>				
		<b>If DE1000 'Z5'</b>				
		<b>'1' Mass Announcement</b>				
		<b>'2' Busy Line Verification</b>				
		<b>'3' Call Interrupt</b>				
		<b>'4' 0+/Mechanized Operator Calls</b>				
		<b>'5' 0-/Operator Work Time</b>				
		<b>'N' Call Completion Termination</b>				
		<b>'O' Operator Handled/Partially Automated</b>				
		<b>'R' Recording Services</b>				
		<b>If DE1000 'Z6'</b>				
		<b>'1' Calling Card</b>				
		<b>'2' Bill to Third</b>				
		<b>'3' Collect</b>				
		<b>'4' Calling Card - Operator Dialed</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'5' Billed to Third - Operator Dialed</i>				
		<i>'6' Collect - Operator Dialed</i>				
		<i>'7' Operator Dialed</i>				
		<i>'A' Person to Person</i>				
		<i>'B' Traffic Service Positions (TSPS)</i>				
		<i>'C' TSPS/Mileage</i>				
		<i>'D' TSPS Not Customer Dialed</i>				
		<i>'E' Calling Card Mileage</i>				
		<i>'G' Automated Coin Toll Service Usage</i>				
		<i>'J' Branding</i>				
		<i>'K' Returned Calls</i>				
		<i>'R' Time and Charge</i>				
		<i>'S' Sent Paid</i>				
		<i>'T' Call Completion Attempts</i>				
		<i>'U' Call Completion Access</i>				
		<i>'V' Connection Services</i>				
		<i>'W' OLNS (Originating Line Number Screening)</i>				
		<i>'X' Emergency Assistance</i>				
		<i>'Y' Station to Station</i>				
		<i>'Z' Miscellaneous</i>				
		<i>If DE1000 'Z7'</i>				
		<i>'05' Local Transport Usage Detail</i>				
		<i>'10' End Office Usage Detail</i>				
		<i>'15' Carrier Common Line Usage Detail</i>				
		<i>'20' Miscellaneous Usage Detail</i>				
		<i>'25' Local Service Usage Detail</i>				
		<i>If DE1000 'Z8'</i>				
		<i>'05' Local Switching</i>				
		<i>'10' Line Termination</i>				
		<i>'15' Intercept</i>				
		<i>'17' DA Information Surcharge</i>				
		<i>'18' Information Surcharge Multi 64 CCC</i>				
		<i>'19' Call Set Up</i>				
		<i>'20' Message Unit Credit</i>				
		<i>'21' Common Switching</i>				
		<i>'22' Automatic Number Identification</i>				
		<i>'23' Called Directory Number Delivery</i>				
		<i>'26' 800 Data Base Query Charge</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'27' 500 Data Base Query Charge</i>				
		<i>'29' 500 Service Customer Identification Charge(pre data base)</i>				
		<i>'30' Switched 56 KPBS Surcharge</i>				
		<i>'31' Blended Rate</i>				
		<i>'35' Initial Address Message Delivery</i>				
		<i>'40' Inter-Tandem Trunking (RCC)</i>				
		<i>'43' Bulk Calling Line Information Delivery</i>				
		<i>'45' Support Fund</i>				
		<i>'46' Multi 64 CCC Support Fund</i>				
		<i>'47' Interim Access</i>				
		<i>'48' Universal Service Fund</i>				
		<i>'50' Charge Number</i>				
		<i>'51' Equal Access Recovery Charge</i>				
		<i>'54' Tandem Signaling</i>				
		<i>'60' Call Duration</i>				
		<i>'71' Shared (Common) Trunk Ports</i>				
		<i>'91' Total of All Discounts</i>				
		<i>'99' End Office Total</i>				
		<b><i>If DE1000 'Z9'</i></b>				
		<i>'03' Originating 700/900</i>				
		<i>'04' Originating 700</i>				
		<i>'05' Originating MOU</i>				
		<i>'06' Originating 500/700/800/900</i>				
		<i>'08' Originating 900</i>				
		<i>'09' Originating 800/900</i>				
		<i>'10' Terminating MOU</i>				
		<i>'11' Originating 800 Data Base</i>				
		<i>'12' Terminating 800 Credit</i>				
		<i>'14' Originating 700/800</i>				
		<i>'15' Terminating 800</i>				
		<i>'16' Originating Multi 64 CCC</i>				
		<i>'17' Terminating Multi 64 CCC</i>				
		<i>'21' Originating SNC</i>				
		<i>'22' Terminating SNC</i>				
		<i>'30' Non-800 Terminating Usage Charge</i>				
		<i>'33' Originating Cellular</i>				
		<i>'34' Terminating Cellular</i>				
		<i>'36' Originating 500 Service</i>				
		<i>'50' Access Line Charge (no traffic type or directionality required)</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>'51' Terminating Interim Access Minutes</i>				
		<i>'52' Terminating Universal Service Fund Minutes</i>				
		<i>'53' Originating Interim Access Minutes V40</i>				
		<i>'60' Originating Marketing Expense*</i>				
		<i>'61' Terminating Marketing Expense*</i>				
		<i>'62' Originating Non Common Line Marketing Expense*</i>				
		<i>'63' Originating Multi 64 CCC Marketing Expense*</i>				
		<i>'64' Terminating Multi 64 CCC Marketing Expense*</i>				
		<i>'90' Common Line Subtotal</i>				
		<i>'91' Total of All Discounts</i>				
		<i>'99' Total Common Line</i>				
		<b><i>If DE1000 'ZA'</i></b>				
		<i>'01' Originating</i>				
		<i>'02' Terminating</i>				
		<i>'03' Originating Operator</i>				
		<i>'04' Originating 800</i>				
		<i>'05' Terminating 800</i>				
		<i>'06' Originating Multi 64 CCC</i>				
		<i>'07' Terminating Multi 64 CCC</i>				
		<i>'08' Originating International DDD</i>				
		<i>'09' Originating Domestic Dialing</i>				
		<i>'10' Originating Switched 56 KBPS</i>				
		<i>'11' Terminating Switched 56 KBPS</i>				
		<i>'12' Originating 900</i>				
		<i>'13' Originating 800/900</i>				
		<i>'14' Three Way Call Transfer Message Charge</i>				
		<i>'15' Originating SNC</i>				
		<i>'16' Terminating SNC</i>				
		<i>'17' Originating Messages/Attempts</i>				
		<i>'18' Originating Cellular</i>				
		<i>'19' Terminating Cellular</i>				
		<i>'20' Originating 700</i>				
		<i>'21' Originating 500</i>				
		<i>'26' Terminating EAS</i>				
		<i>'28' ISP (Internet Service Provider) MOU</i>				
		<b><i>If DE1000 'ZC', Then DE234 contains two bytes: the first byte is Service Method and the second byte is Entry Code</i></b>				
		<b><i>First byte (Service Method):</i></b>				
		<b><i>1 - Universal Freephone</i></b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>2 - Plus Universal Freephone</b>				
		<b>3 - Call Center MCI Traffic</b>				
		<b>4 - Directline Traffic</b>				
		<b>Second byte (Entry Code):</b>				
		<b>1 - CMA</b>				
		<b>2 - DMR</b>				
		<b>3 - ECR</b>				
		<b>If DE1000 'ZD'</b>				
		<b>A - This call Terminated to another Corporate ID</b>				
		<b>B - This call Originated from another Corporate ID</b>				
		<b>01 - Shared</b>				
		<b>02 - Dedicated</b>				
		<b>If DE1000 'ZE'</b>				
		<b>1 - Card Call Access</b>				
		<b>2 - Switched Access</b>				
		<b>3 - Cellular Access</b>				
		<b>4 - Remote Access</b>				
		<b>5 - Dedicated Access</b>				
		<b>6 - International Freephone Access</b>				
		<b>7 - Dedicated Termination</b>				
		<b>8 - Toll</b>				
		<b>9 - Toll Free Meet Me</b>				
		<b>A - Dial</b>				
		<b>If DE1000 'ZF'</b>				
		<b>A - Live but not Operator Dialed</b>				
		<b>B - Automated</b>				
		<b>C - Must be Live</b>				
		<b>D - Operator Dialed</b>				
		<b>E - Non-Operator Dialed and Originated at Premise Owner Location</b>				
		<b>F - Operator Dialed and Originated at Premise Owner Location</b>				
		<b>G - Must be Live and Originated at Premise Owner Location</b>				
		<b>H - Automated and Originated at Premise Owner Location</b>				
		<b>N - Station to Station - Live but not Operator Dialed</b>				
		<b>O - Station to Station - Automated</b>				
		<b>P - Station to Station - Must be Live</b>				
		<b>Q - Station to Station - Operator Dialed</b>				
		<b>R - Station to Station - Non-Operator Dialed and Originated at Premise Owner Location</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>S - Operator Dialed and Originated at Premise Owner Location</b></p> <p><b>T - Station to Station - Must be Live and Originated at Premise Owner Location</b></p> <p><b>U - Station to Station - Automated and Originated at Premise Owner Location</b></p> <p><b>1 - operated Assisted type not known</b></p> <p><b>If DE1000 'ZI'</b></p> <p><b>'1' Change</b></p> <p><b>'2' Install</b></p> <p><b>'3' Cancel</b></p> <p><b>'4' Disconnect</b></p> <p><b>'5' Create</b></p> <p><b>'6' Modify</b></p> <p><b>'7' Dial-up</b></p> <p><b>'8' Dedicated</b></p> <p><b>'9' Dial-up Dedicated</b></p> <p><b>'A' Activate</b></p> <p><b>'B' Credit</b></p> <p><b>'C' One-time</b></p> <p><b>'B' Expedite</b></p> <p><b>If DE1000 = ZL</b></p> <p><b>For Mega Audio: Leader ID and Date/Account-type are concatenated in the Conf Description. They are separated by " -- "</b></p>				
SI04	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI05	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI06	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI07	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI08	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	X	AN	2/2	Used



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		User: <b>See SI02 above.</b>				
SI09	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI10	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI11	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI12	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI13	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI14	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics.	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI15	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI16	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics.	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI17	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI18	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics.	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI19	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI20	1000	Service Characteristics Qualifier	X	AN	2/2	Used

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Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>				
SI21	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used

# PID

## Product/Item Description

Pos: 410	Max: 200
Detail - Optional	
Loop: SLN	Elements: 6

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

Syntax:

- C0403 -- If PID04 is present, then PID03 is required.
- R0405 -- At least one of PID04 or PID05 is required.
- C0703 -- If PID07 is present, then PID03 is required.
- C0804 -- If PID08 is present, then PID04 is required.
- C0905 -- If PID09 is present, then PID05 is required.

Semantics:

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

Comments:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type Description: <b>Code indicating the format of a description.</b>	M	ID	1/1	Must use

Code	Name
F	Free-form
X	Semi-Structured (Code & Text)

PID02	750	Product/Process Characteristic Code Description: <b>Code identifying the general class of a product or process characteristic. This element is used when PID01 = X.</b>	O	ID	2/3	Used
-------	-----	--	---	----	-----	------

Code	Name
ZZ	Mutually Defined

PID03	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

**USER: PID03 is only populated when PID01 = X. However, PID03 is not required when PID01 = X**

Code	Name
AS	Assigned by Seller: Code in PID04 is defined in the VB811 Implementation Guide Appendix A.

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
PID04	751	Product Description Code Description: A code from an industry code list which provides specific data about a product characteristic.	X	AN	1/12	Used
		<u>Code</u>				
		<u>Name</u>				
		001 Product description				
		002 Sub Product description				
		003 Circuit attribute				
		004 Customer reference text				
		005 Circuit name/description				
		006 Platform Type				
		007 Service Type				
		008 Product Type				
		009 Entity Type				
		010 Discount Name				
		011 Discount Line Item				
		012 Bill Payer Literal				
		013 ID Code Description				
		014 Account Code Description				
		015 Calling Card Code Description				
		016 Conference Description or XO ATI Invoice Number				
		017 Class of Service				
		018 Entity Size				
		019 Service Type				
		020 CIR				
		021 Peak Cell Rate				
		022 Sustained Cell Rate				
		023 PIP Connection				
		024 vBNS Connection				
		025 Standard QoS				
		026 EF Real Time CAR				
		027 Premium QoS				
		028 COS5 Real Time Connection				
		029 Multicasting CAR				
		030 Charge Description				
		031 Additional Charge Description				
		032 Directed Billing Account Number				
		033 Application ID				
		034 Minimum Cell Rate (speed literal)				
		035 EVS Description				
		036 DSLACI Description				
		037 Access Charges Description				
		038 URI Description				
		039 PVC Attribute				
		040 Flow Speed				
		041 Current PIR				
		042 Bundles				
		043 PVC Speed				
		044 Billing Type				
		045 Verizon Part Description				
		045A Product ID				
		046 Ownership Type				
		048 Title ID				
		049 Package				
		050 Product Grouping 3 Category				
		057A Speed Description				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
	062CUR	The conversion rate from billing currency to Alternate currency used on the original invoice that is being credited.				
	067004	Terminal ID				
	069A	Inventory Category				
	069B	Payment Option				
	074AC	CLIN Action Code				
	077002	Location Identifier				
	077021	Unique Billing Identifier				
	077027	Market Type				
	077032	Network Duration				
	077033	Talk Duration				
	077044	Network Start Time				
	077055	Price Quote Text				
	077057	Application Identifier				
	077061	Revenue Category				
	077067	Partner Information				
	077072	Project Phase/Milestone				
	077073	Charge Type				
	077074	Secondary ID				
	077081	Access Speed				
	077085	CPE Package ID				
	077087	Ethernet Virtual Connection ID				
	077088	Ethernet Virtual Connection Speed				
	077091	Port Speed				
	077092	Permanent Virtual Connection Effective Date				
	077093	Permanent Virtual Connection ID				
	077095	Permanent Virtual Connection Speed				
	077096	Racer Quote ID				
	077097	Router Service Order Code				
	077098	Service Industry General 1 Equipment				
	077099	Effective Date				
	077101	Service Type ID Equipment				
	077103	Statement of Work ID				
	077104	Service Level				
	077110	Contract/SOF				
	077114	Case Number Description				
	077125	Employee Name				
	077126	Country or State of Service				
	077130	Charge Code				
	077131	GP Service ID Label				
	077132	Corporate Billing Reference Number				
	077134	Bridging Indicator				
	077135	Connecting Facility Assignment (CFA): Identifies the carrier system and channel to be used.				
	077144	Access Type				
	077145	Speed				
	077146	Class of Service				
	077147	PIP Connection				
	077148	Service Location ID				
	077154	GSEC/Custom Grouping				
	077155	Trip Number				
	077156	Employee Number				
	077158	PVC Termination Address				
	077166	Resource Level				
	077174	Mileage				
	077176	DDC Network Element ID / DDC Server ID				

Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
	077183	Site ID (Provides the value for the A-End, if there are A & Z ends)077184					
		Business Unit (Provides the value for the A-End, if there are A & Z ends)					
	077186	Branch Criticality (Provides the value for the A-End, if there are A & Z ends)					
	077195	Charge Level PIP Port Speed					
	077200	Z-End Site ID					
	077201	Z-End Site Criticality					
	077202	Z-End Business Unit					
	077204	Discount Key (Used to link a charge to the associated discount)					
	077205	Multi-Cast CAR Tier					
	077210	PIP Access					
	077212	Delivery					
	077213	Task Order Numbers					
	077214	Service Pack					
	077215	Purchase Type (i.e. lease, purchase...)					
	077217	Managed (CPE product is part of a Managed Service)					
	077218	Global Customer Hierarchy (GCH) ID					
	077220	Extended Specification Related Product					
	077221	Product Legal Entity					
	077223	Price Book Line Item Id					
	077224	Disconnect Date Group  <b><i>Contains the Committed Disconnect Date and the Physical Disconnect Date, in that order</i></b>					
	077225	Verizon Rapid Delivery Service ID					
	077240	Tax exempt indicator					
	077245	Facility					
	077249	Target Summary Bundle ID					
	077250	Ownership Type Description					
	077251	Product Type description					
	077252	Usage Type Description					
	077255	Secondary Instance ID					
	077257	PVC ID or EVC ID					
	077261	Vacation Suspend					
	077266	Application Type					
	077269	Geography Type					
	077271	HSN /SAC Number					
	079020	Contract line item numbers (CLIN)					
	079025	Package Feature					
	079026	Circuit Attribute (includes circuit attribute and value)					
	079030	Customer Reference Number/Text (40)					
	079038	Expanded-Entity-Name					
	079045	Service ID					
	079064	Directory Name Service (DNS)					
	079082	Circuit Description					
	079083	Circuit Literal					
	079084	Circuit Message					
	079086	Equipment Name					
	079089	Manufacturer					
	079090	Model					
	079094	Permanent Virtual Connection Literal					
	079102	Origination					
	079112	Account Code					
	079143	Billing Type					
	079152	Resource Unit Name					

Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
	079159	VLAN ID					
	079162	Domain					
	079177	Cardholder Name					
	079178	User Name					
	079179	IT Solutions Service ID Text / Service Name					
	079182	Work Request					
	079185	Site Type Detail					
	079190	Profile Name					
	079192	Bundle Instance ID					
	079193	Bundle Name					
	079203	PTT Provider					
	079246	Service Group ID					
	079247	Ticket Number					
	079248	Ticket Description					
	079263	Package Grouper					
	095A	Offer Phrase					
	098A	Related Product Instance ID					
	098B	Related Product Group 2					
	100A	Video Promo Name					
	118D	Description Of Video Conferencing Service					
	118F	Video Conferencing Facility					
	122A	CPE Item Number					
	140A	Resource Unit (RU) Category and Measurement Period					
	140B	Resource Unit (RU) ARC/RRC					
	314	Vendor Conference ID					
	3VEN	Third party vendor					
	306A	Base Product ID					
	306B	Companion Product ID					
	306C	Base Product Instance ID					
	306D	Service ID					
	306E	Service Type					
	306F	Event Type ID					
	AHC	Agency Hierarchy Code					
	BA	Band: <b>Description:</b> Provides the description of SI pair = "BA". PID05 contains the Band description.					
	BT	Basic Service Type: <b>Description:</b> Provides the description of SI pair = "BT". PID05 contains the Basic Service Type description.					
	BT-2	Basic Service Type Description Continuation <b>Description:</b> Provides the continuation of the description of SI pair = "BT", when the Basic Service Type Description exceeds 80 bytes. PID05 contains bytes 81-100 of the Basic Service Type Description					
	CUSTOM FLD 1	Description of Customer Defined Field 1					
	CUSTOM FLD 2	Description of Customer Defined Field 2					
	CUSTOM FLD 3	Description of Customer Defined Field 3					
	CUSTOM FLD 4	Description of Customer Defined Field 4					
	CUSTOM FLD 5	Description of Customer Defined Field 5					
	CUSTOM FLD 6	Description of Customer Defined Field 6					
	CUSTOM FLD 7	Description of Customer Defined Field 7					
	CUSTOM FLD 8	Description of Customer Defined Field 8					
	CUSTOM FLD 9	Description of Customer Defined Field 9					
	CUSTOM FLD10	Description of Customer Defined Field 10					

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>User: For GID customers with contract specific Customer Defined Fields, Verizon provides up to 10 generic labels (i.e. CUSTOM FIELD 1 through CUSTOM FIELD 10). Each generic label has a customer defined description. The customer defined description is provided on a PID with PID04 = CUSTOM FLD 1 through CUSTOM FLD10; in the SLN loop. The customer defined value is provided in the REF*CR.</b></p>				
	CUST ID	Customer ID				
	DS	Discount Planned Code: <b>Description:</b> Provides the description of SI pair = "DS". PID05 contains the Discount Planned description.				
	LOC	Originating Location: / Terminating Location:				
	PG4	4th product grouping level				
	PQ	Major Product Code: <b>Description:</b> Provides the description of SI pair = "PQ". PID05 contains the Major Product description.				
	PRG NAME	Program Name				
	RF	Related Circuit				
		<p><b>User: The first eight related circuits are provided in SI pair (RF)</b></p>				
	S20001	Solution ID				
	S20011	CLIN/Feature ID Description				
	SC	Service Category Code: <b>Description:</b> Provides the description of SI pair = "SC". PID05 contains the Service Category description. <b>NOTE:</b> Some billing systems include a Product ID which is presented in the SI pair "SC", but do not contain a link to the Product ID description. These billing systems do have a charge description in a PID without PID03 or PID04 populated.				
	SF	Service Feature/Option Code: <b>Description:</b> Provides the description of SI pair = "SF". PID05 contains the Service Feature/Option description.				
	SOL-CODE	Solution Code				
	SOL-ID	Solution ID				
		<p><b>The entire Solution is provided in multiple segments within a LX loop. The Solution ID is the link to the Solution information provided in the LX loop</b></p>				
	SOL-PROD	Solution Product				
		<p><b>For VRD Speed examples:</b>  <b>Port Speed:</b> PID~X~ZZ~AS~SOL-PROD~Port Speed: SP PORT SPEED: 1.5 Mbps   <b>Internet Dedicated Speed:</b> PID~X~ZZ~AS~SOL-PROD~Port Speed: SP IDS PRT SPEED: 1 Gbps   <b>Access Speed:</b> PID~X~ZZ~AS~SOL-PROD~Access Speed: SP ACC SPEED: 1.5 Mbps </p>				



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>Multi-Cast CAR:</b> PID-X-ZZ-AS-SOL-PROD~Multicast CAR: SP MULTI CAST CAR: 3 Mbps  <b>CAR Speed:</b> PID-X-ZZ-AS-SOL-PROD~EF Realtime CAR: SP EF REALTIME CAR: 128 Kbps  <b>Wave Speed:</b> PID-X-ZZ-AS-SOL-PROD~Speed: SP WAV SPEED: 10 Gbps  <b>Ethernet Speed:</b> PID-X-ZZ-AS-SOL-PROD~Connection Speed: SP ES CONN SPEED: 1 Gbps				
	SQ	Sub-Product Code: <b>Description:</b> Provides the description of SI pair = "SQ". PID05 contains the Sub-Product description.				
	VC	Video Channel				
	VH	Video Header: <b>Description:</b> PID05 contains the Video Header description.				
PID05	352	Description <b>Description: A free-form description to clarify the related data elements            and their content.</b>	X	AN	1/80	Used
PID09	819	Language Code <b>Description: Code designating the language used in text, from a            standard code list maintained by the International Standards            Organization (ISO 639)</b>	O	ID	2/3	Used

**User: Language code values are:**

- ALB = Albanian ??**
- BEF = Belgian French**
- BRP = Brazilian Portuguese**
- BUL = Bulgarian**
- CAF = Canadian French**
- CHI = Simplified Chinese**
- CZE = Czech**
- DAN = Danish**
- DEU = German**
- DUT = Dutch**
- ENG = English (UK)**
- EST = Estonian**
- FIN = Finnish**
- FRA = French**
- FSW = Swiss French**
- GRE = Greek**
- GSW = Swiss German**
- HUN = Hungarian**
- ITA = Italian**
- JPN = Japanese**

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>LAV = Latvian</i>				
		<i>LIT = Lithuanian</i>				
		<i>NLD = Dutch, Flemish</i>				
		<i>NOB = Norwegian (Bokmål)</i>				
		<i>NOR = Norwegian</i>				
		<i>OST = Austrian German</i>				
		<i>POL = Polish</i>				
		<i>POR = Portuguese</i>				
		<i>ROU = Romanian</i>				
		<i>RUS = Russian</i>				
		<i>SLE = Slovene SLO = Slovak</i>				
		<i>SPA = Spanish</i>				
		<i>SRP = Serbian</i>				
		<i>SWE = Swedish</i>				
		<i>TUR = Turkish</i>				
		<i>UKR = Ukrainian</i>				
		<i>ZHO = Chinese</i>				
		<i>EN1 - Australian English</i>				
		<i>EN2 = Japanese English</i>				
		<i>EN3 = South Asia English</i>				
		<i>EN4= North Asia English</i>				
		<i>EN5 = American English</i>				
		<i>EN6 = English (Canadian)</i>				
		<i>EN7 = English (India)</i>				

# CUR

## Currency

Pos: 420    Max: 1  
 Detail - Optional  
 Loop: SLN    Elements: 3

To specify the currency (dollars, pounds, francs, etc...) used in a transaction

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
CUR01	98	Entity Identifier Code Description: <b>Code identifying the organizational entity, a physical location, property or an individual. Refer to 004010 Data Element Dictionary for acceptable code values.</b> <u>Code</u> <u>Name</u>	M	ID	2/3	
CUR02	100	VN    Vendor Currency Code Description: <b>Code (Standard ISO) for country in whose currency the charges are specified.</b> <u>Code</u> <u>Name</u> USD    US Dollar	M	ID	3/3	
CUR03	280	Exchange Rate Description: <b>Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.</b>	O	R	4/10	

# INC

## Installment Information

Pos: 430	Max: 1
Detail - Optional	
Loop: SLN	Elements: 5

To specify installment billing arrangement:

Semantics:

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.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
INC01	336	Terms Type Code Description: <b>Code identifying type of payment terms.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 04   Deferred or Installment				
INC02	C001	Composite Unit of Measure Description: <b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>		Comp		Must use
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> MO   Months				
INC03	380	Quantity Description: <b>Numeric value of quantity.</b>	M	R	1/15	Must use
		User: <b>Indicates the total number of installments.</b>				
INC04	380	Quantity Description: <b>Numeric value of quantity.</b>	M	R	1/15	Must use
		User: <b>Indicates number of current installment.</b>				
INC05	782	Monetary Amount Description: <b>Monetary amount.</b>	O	R	1/18	Used
		User: <b>Balance remaining after this installment is billed.</b>				

# ITA Allowance, Charge or Service

Pos: 440	Max: 10
Detail - Optional	
Loop: SLN	Elements: 14

To specify allowances, charges, or services:

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required.

P1011 -- If either ITA10 or ITA11 are present, then the others are required.

C1502 -- If ITA15 is present, then ITA02 is required.

C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A        Allowance				
		C        Charge				
		N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TI        Telecommunications Industry				

ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 04    Credit Customer Account 06    Charge to be Paid by Customer 15    Information only ZZ    Mutually Defined				
ITA05	341	Allowance or Charge Number Description: <b>The number assigned by a vendor referencing an allowance, promotion, deal or charge</b>	O	AN	1/16	Used
ITA06	359	Allowance or Charge Rate	O	R	1/15	Used
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used
ITA09	332	Percent	X	R	1/6	Used
ITA10	380	Quantity	X	R	1/15	Used
ITA11	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	X	ID	2/2	Used
ITA12	380	Quantity Description: Numeric Value of Quantity	X	R	1/15	Used
ITA13	352	Description Description: <b>Additional information about Local Calling Plans.</b>	X	AN	1/80	Used
		<u>Code</u> LOCAL TOLL CustoPak				
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b> User: <b>See TCIF section 10.4 for complete list of valid values.</b>	X	ID	3/3	Used
		<u>Code</u> <u>Name</u> 230    Credit 275    Discount - Incentive 295    Discount – Special AAJ    Adjustment AMB    Adjustment for Maximum Charges Billing ANB    Adjustment for Minimum Charges Billing CCR    Concession Credit COM    Combination (bundle) DSC    Discount EAC    Exchange Access Credit LPC    Late payment charge MGC    Message Charge MSG    Miscellaneous Charge PAI    Promotional Discount PPU    Prepaid Usage Allowance QQD    Quantity Discount SAB    Shipping and Handling SER    Service Charge SUR    Surcharge				

TXS Tax Surcharge  
 VAB Volume Discount  
 VAT Value Added Tax

ITA16 662 Relationship Code O ID 1/1 Used  
 Description: **Code indicating the relationship between entities.**

<u>Code</u>	<u>Name</u>
A	Add <b>Description:</b> The value in ITA07 is included in the IT1 amount
I	Included
O	Information Only <b>Description:</b> Charges that 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).

ITA17 355 Unit or Basis for Measurement Code for ITA12 O ID 2/2 Used

<u>Code</u>	<u>Name</u>
C0	Calls
DO	Dollars
MJ	Minutes

# TXI

## Tax Information

Pos: 450	Max: >1
Detail - Optional	
Loop: SLN	Elements: 9

To specify tax information:

Syntax:

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

Semantics:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Element Summary:

Ref _	Id _	Element Name	Req	Type	Min/Max	Usage_
TXI01	963	Tax Type Code	M	ID	2/2	Must use

Description: **Code specifying the type of tax.**

User: **Refer to the code list provided in the TXI segment in Table 1 position 090.**

Code	Name
AB	Surtax
CA	City Tax
	<b>Description:</b> Service Tax imposed by City.
CG	Federal Value-Added Tax (GST) on Goods
	<b>User Note: "CG" is used for GST Goods and Services</b>
CP	County/Parish Sales Tax
CS	City Sales Tax
CT	County Tax
FD	Federal Tax
	<b>Description:</b> Usage tax imposed by federal (US and Canadian) government.
FR	Franchise Tax
LT	Local Sales Tax
LO	Local Tax (Not Sales Tax)
	<b>Description:</b> Service tax imposed on a local level.
MP	Municipal Tax
	<b>Description:</b> Service tax imposed by a municipality.
OH	Other Taxes
OT	Occupational Tax
SC	School Tax
SL	State and Local Tax
	<b>Description:</b> State and Local tax funds, exclusive of State and Local Sales tax.
SP	State/Provincial Tax
ST	State Sales Tax
SU	Sales and Use Tax
TT	Telecommunications Tax
TX	All Taxes (combined)
VA	Value Added Tax
ZE	911 Tax



Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used
TXI03	954	Percent Description: <b>Percentage expressed as a decimal.</b>	X	R	1/10	Used
TXI04	955	Tax Jurisdiction Code Qualifier Description: <b>Code identifying the source of the data used in tax jurisdiction code.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u> VD      Vendor defined				
TXI05	956	Tax Jurisdiction Code Description: <b>Code identifying the taxing jurisdiction For NCBS: 'Local Serv' or 'Long Dista'.</b>	X	AN	1/10	Used
TXI06	441	Tax Exempt Code Description: <b>Code identifying exemption status from sales and use tax.</b>	X	ID	1/1	Used
		<u>Code</u> <u>Name</u> 1        Yes (Tax Exempt)				
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used
		<u>Code</u> <u>Name</u> A        Add I        Included O        Information Only <b>Description:</b> Charges that 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).				
TXI08	828	Dollar Basis For Percent Description: <b>Dollar basis to be used in the percent calculation of the allowance, charge or tax.</b>	O	R	1/9	Used
TXI10	350	Assigned Identification	O	AN	1/20	Used

# REF

## Reference Identification

Pos: 460	Max: >1
Detail - Optional	
Loop: SLN	Elements: 3

To specify identifying information:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

**User:** Refer to code list provided in the REF segment in Table 2 position 050.

Code	Name
1J	Facility ID Number
2I	Tracking Number
<b>User:</b> Actual Tracking Number will be in REF03, because the Tracking Numbers can exceed 30 bytes.	
3H	Case Number
73	Statement of Work (SOW)
79	Cost Center/Account
<b>User:</b> If the Cost Center/Account exceeds 30 bytes, it will be in REF03.	
82	Data Item Description (DID) Reference
8M	Originating Company Identifier
<b>User:</b> If the Company Code exceeds 30 bytes, it will be in REF03.	
AAL	Agent Number
AG	Shipment Number
<b>User:</b> If the Shipment Number exceeds 30 bytes, it will be in REF03.	
AH	Agreement Number
<b>Contains the Master Service Agreement</b>	
BM	Bill of Lading Number
<b>User:</b> If the Bill of Lading Number exceeds 30 bytes, it will be in REF03.	
C2	Customer Order Number
C7	Contract Line Item Number
CO	(Customer Process Specification number)
CR	Customer Reference Number
CT	Contract Number
D9	Claim Number
<b>User:</b> Verizon Dispute Number	
E5	Claimant's Claim Number
<b>User:</b> Customers Dispute Number	

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		IV Seller's Invoice Number				
		IX Item number				
		K9 Inquiry Request Number				
		LI Line Item Service ID				
		LU Location Number: Access Customer Terminal Location (ACTL)				
		MF Manufactures Part Number				
		OI Original Invoice Number				
		<b>For Credit Notes: Contains the Local and Tax Regulatory Invoice Number/ID (REF*IK value) from the original invoice.</b>				
		OW Service order number (the last service order)				
		P4 Project Code				
		<b>USER: Project Code will be populated in REF03</b>				
		PM Part Number				
		<b>User: Contains the Verizon Part Number</b>				
		PO Purchase Order Number				
		<b>User: If the Purchase Order Number exceeds 30 bytes, it will be in REF03.</b>				
		PX Prior Invoice Number				
		<b>Description: The original invoice number this credit/debit is related to.</b>				
		Q1 Quote Number				
		SE Serial Number				
		VR Vendor ID Number				
		WO Work Order Number				
		XN Title Identification Number				
		ZH Carrier Identification Code – Detail				
REF02	127	Reference Identification	X	AN	1/30	Used
		Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>				
		<b>If REF01 = '1J' and REF03 = 'Tandem' then REF02 contains the Tandem ID</b>				
		<b>If REF01 = '1J' and REF03 = 'Local Transport Location ID' then REF02 contains the Local Transport Location ID</b>				
		<b>If REF01 = '1J' and REF03 = 'SUMOFC' then REF02 contains Summary Office ID</b>				
		<b>If DE128 '79'</b>				
		<b>USER: If the Cost Center/Account is less than 31 bytes, then REF02 will contain the Cost Center/Account. If the Cost Center/Account is larger than 30 bytes then REF03 will contain the Cost Center/Account.</b>				
		<b>If DE128 '8M'</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>USER: If the Company Code is less than 31 bytes, then REF02 will contain the Company Code. If the Company Code is larger than 30 bytes then REF03 will contain the Company Code.</b></p> <p><b>If DE128 '82'</b>  <b>'LISTNM' = Directory Name</b></p> <p><b>If DE128 'C2'</b>  <b>USER: For DDC REF02 contains the Work Flow ID</b></p> <p><b>If DE128 'IX'</b>  <b>'DLNUM' = Directory Advertising Transfer Tel Number</b></p> <p><b>If DE128 'LI'</b>  <b>Service ID</b></p> <p><b>If DE128 'PO'</b>  <b>Purchase Order Number (PON)</b>  <b>USER: if the PON is less than 31 bytes then REF02 will contain the PON. if the PON is larger than 30 bytes then REF03 will contain the PON.</b></p> <p><b>If DE128 'VR'</b>  <b>USER: For DDC REF02 contains the Third Party Vendor ID</b></p> <p><b>If DE128 'XN'</b>  <b>USER: For DDC REF02 contains the Title ID</b></p>				
REF03	352	<p>Description  <b>Description: A free-form description to clarify the related data elements and their content.</b></p> <p><b>If DE128 '79'</b>  <b>USER: If the Cost Center/Account is less than 31 bytes, then REF02 will contain the Cost Center/Account. If the Cost Center/Account is larger than 30 bytes then REF03 will contain the Cost Center/Account.</b></p> <p><b>If DE128 '8M'</b>  <b>USER: If the Company Code is less than 31 bytes, then</b></p>	X	AN	1/80	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
-------	-----	--------------	-----	------	---------	--------

*REF02 will contain the Company Code. If the Company Code is larger than 30 bytes then REF03 will contain the Company Code.*

**If DE128 'AG'**  
*USER: If the Shipment Number is less than 31 bytes then REF02 will contain the Shipment Number. If the Shipment Number is larger than 30 bytes then REF03 will contain the Shipment Number.*

**If DE128 'BM'**  
*USER: If the Bill of Lading Number is less than 31 bytes then REF02 will contain the Bill of Lading Number. If the Bill of Lading Number is larger than 30 bytes then REF03 will contain Bill of Lading Number.*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 1'**  
*REF03 will contain the customer assigned value for Customer Defined Field 1*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 2'**  
*REF03 will contain the customer assigned value for Customer Defined Field 2*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 3'**  
*REF03 will contain the customer assigned value for Customer Defined Field 3*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 4'**  
*REF03 will contain the customer assigned value for Customer Defined Field 4*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 5'**  
*REF03 will contain the customer assigned value for Customer Defined Field 5*

**If DE128 'CR' AND REF02 = 'CUSTOM FIELD 6'**  
*REF03 will contain the customer assigned value for Customer Defined Field 6*

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>If DE128 'CR' AND REF02 = 'CUSTOM FIELD 7'</b>            REF03 will contain the customer assigned value for Customer            Defined Field 7</p> <p><b>If DE128 'CR' AND REF02 = 'CUSTOM FIELD 8'</b>            REF03 will contain the customer assigned value for Customer            Defined Field 8</p> <p><b>If DE128 'CR' AND REF02 = 'CUSTOM FIELD 9'</b>            REF03 will contain the customer assigned value for Customer            Defined Field 9</p> <p><b>If DE128 'CR' AND REF02 = 'CUSTOM FIELD10'</b>            REF03 will contain the customer assigned value for Customer            Defined Field 10</p> <p><b>NOTE:</b> For GID customers with contract specific Customer Defined Fields, Verizon provides up to 10 to generic labels (i.e. CUSTOM FIELD 1 through CUSTOM FIELD 10). Each generic label has a customer defined description. The customer defined description is provided on a PID with PID04 = CUSTOM FLD 1 through CUSTOM FLD10; in the SLN loop. The customer defined value is provided in the REF*CR.</p> <p><b>If DE128 'LI'</b>            USER: Chargeable Service ID will be populated in the REF03</p> <p><b>If DE128 'OW'</b>            USER: CPE Service Order Code (SOC) will be populated in the REF03</p> <p><b>If DE128 'P4'</b>            USER: Project Code will be populated in the REF03</p> <p><b>If DE128 'PO'</b>            Purchase Order Number (PON)            USER: if the PON is less than 31 bytes then REF02 will contain the PON. if the PON is larger than 30 bytes then REF03 will contain the PON.</p> <p><b>If DE128 'VR'</b>            USER: For DDC REF03 contains the DDC/DMR/Third Party</p>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>Network Element ID</b></p> <p><b>If DE128 'WO'</b>  <b>USER: For DDC REF03 contains the Work Order Version</b></p> <p><b>If DE128 'XN'</b>  <b>USER: For DDC REF03 contains the Title</b></p>				
C04001	128	<p>Reference Identification Qualifier            Description: <b>Code qualifying the Reference Identification.</b></p> <p><u>Code</u>    <u>Name</u>            1J        SUMMARY OFFICE ID INDICATOR</p>	O	ID	2/3	Used
C04002	127	<p>Reference Identification            Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b></p> <p><b>If REF04 = '1J':</b>  <b>'0' = End Office</b>  <b>'1' = Tandem</b>  <b>'2' = Remote Office</b>  <b>'3' = Dial Tone Office</b></p> <p><b>If DE128 'PO'</b>  <b>Purchase Order Number (PON)</b>  <b>USER: if the PON is less than 31 bytes then REF02 will contain the PON. if the PON is larger than 30 bytes then REF03 will contain the PON.</b></p>	O	AN	1/30	Used

# DTM

## Date/Time Reference

Pos: 480	Max: 10
Detail - Optional	
Loop: SLN	Elements: 2

To specify pertinent dates and times:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required.

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type ID	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>			3/3	Must use
		<u>Code</u> <u>Name</u>				
		003    Invoice				
		<i>Description: The original invoice date this credit/debit is related to.</i>				
		007    Effective				
		011    Shipped date				
		015    Promotion Start				
		016    Promotion End				
		092    Contract Effective				
		093    Contract Expiration				
		150    Service Period Start				
		151    Service Period End				
		193    Period Start				
		<b>USER: Used for grouping charges by the Services period begin and end dates</b>				
		194    Period End				
		<b>USER: Used for grouping charges by the Services period begin and end dates</b>				
		196    Start				
		197    End				
		209    Contract Performance Start (Service/Term Start Date)				
		373    Order Start				
		396    Termination (Deactivation Date)				
		911    Last Activity				
		938    Order				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used



# AMT

## Monetary Amount

Pos: 490 Max: 15  
 Detail - Optional  
 Loop: SLN Elements: 2

To indicate the total monetary amount:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
AMT01	522	Amount Qualifier Code Description: <b>Code to qualify amount.</b>	M	ID	1/3	Must use
		<u>Code</u> <u>Name</u>				
		6    Amount Subject to Total Monetary Discount <b>Description:</b> Amount eligible for discount.				
		8    Discount				
		93    Contribution <b>Description:</b> Contract commitment contribution amount.				
		AP    Amount Prior to Fractionalization. <b>Description:</b> Full charge amount for the service per service period, prior to pro-rated fractionalization due to partial period billing.				
		BD    Unpaid balance				
		EC    Allowances				
		SC    Total Service Charge				
		RJ    Rate				
		ZZ    Mutually Defined <b>Description:</b> Amount contributing to discount.				
AMT02	782	Monetary Amount Description: <b>Monetary amount.</b>	M	R	1/18	Must use

# QTY

## Quantity

Pos: 510 Max: 1  
 Detail - Optional  
 Loop: SLN/QTY Elements: 3

To specify quantity information:

Syntax:

R0204 -- At least one of QTY02 or QTY04 is required.

E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
QTY01	673	Quantity Qualifier Description: <b>Code specifying the type of quantity.</b>	M	ID	2/2	Must use

Code	Name
01	Discrete Quantity
11	Split Quantity (Fractional Usage)
1K	Time Units
1Y	Rate per day
40	Remaining Quantity
46	Total Transactions
63	On Order
7K	Time Frame (length of contract or agreement)
87	Quantity Received
8G	Number Additional Directories + 1
8H	Minimum
91	Additional Usage Quantity Description: The amount of usage incurred above the allotted or allowable use for a service
92	Allotted Usage Quantity Description: The amount of allowable usage related to a service
94	Billable Quantity Description: Number of billable units used
96	Non-Billable Quantity Description: Number of non-billable units used
98	Overflow Quantity Description: Number of overflow messages, (Busy condition count for 800 service)
99	Quantity Used Description: Quantity of units used
A5	Adjusted Quantity
AG	Number of Users
AT	Actual
AS	Participant Total
B8	Average
D1	Billed
DY	Number Effective Days
M2	Maximum
MI	Miles

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		PO Percentage of Ordered Quantity/Allocated				
		QD Quantity Delivered				
		SF Site				
		SX Shipments				
		UC Telecommunications Ports				
		V1 Flat				
		V2 Available Quantity				
		V3 Transfers				
		WE Limited Quantity Description: The Concurrent Call Limit				
		X3 Speed Capacity				
QTY02	380	Quantity Description: <b>Numeric value of quantity.</b>	X	R	1/15	Used
C0301	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use

Code	Name
03	Seconds
10	Group <b>Description:</b> 10 is used for Trunks or Trunk Groups
12	Packets
1N	Count
1Q	Frames
1R	Transactions
4L	MegaBytes
82	Session
AD	Bytes
AH	Additional Minutes
AL	Access Lines <b>Description:</b> Number of lines subject to Carrier Access Line Charges.
AN	Minutes or Messages <b>Description:</b> Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges.
BL	Block
BX	Box
C0	Calls <b>Description:</b> Number of calls handled.
DA	Days
DC	Disc
DH	Miles
DO	Dollars
DQ	Records
EA	Each
EJ	Location
FT	Foot
HR	Hours
IE	Persons/Users
KB	Kilocharacters
KF	Kilopackets
MA	Machine/Unit
MJ	Minutes
MO	Months
NF	Messages

Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
		<b>Description:</b> Number of Messages transmitted, or delivered.					
	NL	Load (Downloads)					
	OP	Two Pack					
	P0	Pages					
	P1	Percent					
	P3	Three Pack					
	P4	Four Pack					
	P5	Five Pack					
	P6	Six Pack					
	P7	Seven Pack					
	P8	Eight Pack					
	P9	Nine Pack					
	QC	Channels					
	S7	Storage Units					
	T0	Telecommunications Lines in Service (circuits)					
		<i>User Note: "T0" is also used for count of telephone numbers</i>					
	TP	Ten Pack					
	T0	Telecommunications Lines in Service (circuits)					
	UN	Unit					

Comments: 1. For FE: This QTY is ONLY present if the line speed was changed during the billing cycle and this represents the previous line speed and is associated to the charges in the current SLN loop.

# SI Service Characteristic Identification

Pos: 520	Max: 1
Detail - Optional	
Loop: SLN/QTY	Elements:
	21

To specify service characteristic data:

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

User: See section 10.4 for valid values when using data element 1000/234 pairs.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	M	AN	2/2	Must use
		<b>User: See TCIF section 10.4 for complete list of valid values.</b> <b>Possible SI DE1000/DE234 pairs:</b> <b>'CE' Cellular Air Time Package Code</b> <b>'CZ' Cellular Usage Indicator</b> <b>'RP' Rate Period Code</b> <b>'SG' Service Group:</b> <b>'SS' Service Sub-category Code</b>				
SI03	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	M	AN	1/48	Must use
		<b>User:</b> <b>If DE1000 = CE</b> <b>E - Extended Home Area</b>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><i>H - Home Airtime</i></p> <p><i>S - Roaming</i></p> <p><i>U - Home Roam/Roam-Like Home</i></p> <p><i>If DE1000 'CZ'</i></p> <p><i>H2 = Home</i></p> <p><i>R2 = Roam</i></p> <p><i>If DE1000 'RP'</i></p> <p><i>01 = Peak</i></p> <p><i>02 = Off Peak</i></p> <p><i>03 = Day</i></p> <p><i>04 = Evening</i></p> <p><i>05 = Night/Weekend</i></p> <p><i>06 = Weekend (when separate from night)</i></p> <p><i>07 = Special Intrastate</i></p> <p><i>08 = Late night</i></p> <p><i>09 = Regular (Non time of day WATS)</i></p> <p><i>10 = Discount</i></p> <p><i>11 = Economy</i></p> <p><i>12 = Prime</i></p> <p><i>13 = Standard</i></p> <p><i>14 = Multi-period</i></p> <p><i>If DE1000 'SG'</i></p> <p><i>For SingleView: The SI pair 'SG' contains the Market Center and Capacity Type</i></p> <p><i>If DE1000 'SS'</i></p> <p><i>For SingleView: The SI pair 'SS' contains the Sub Service</i></p>				
SI04	1000	<p>Service Characteristics Qualifier</p> <p>Description: <b>Code from an industry code list qualifying the type of service characteristics.</b></p> <p>User: <b>See SI02 above.</b></p>	X	AN	2/2	Used
SI05	234	<p>Product/Service ID</p> <p>Description: <b>Identifying number for a product or service.</b></p> <p>User: <b>See SI03 above.</b></p>	X	AN	1/48	Used
SI06	1000	<p>Service Characteristics Qualifier</p> <p>Description: <b>Code from an industry code list qualifying the type of service characteristics.</b></p> <p>User: <b>See SI02 above.</b></p>	X	AN	2/2	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SI07	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI08	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI09	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI10	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI11	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI12	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI13	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI14	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI15	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI16	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics. User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI17	234	Product/Service ID Description: Identifying number for a product or service. User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI18	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics.	X	AN	2/2	Used

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Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		User: <b>See SI02 above.</b>				
SI19	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				
SI20	1000	Service Characteristics Qualifier Description: Code from an industry code list qualifying the type of service characteristics.	X	AN	2/2	Used
		User: <b>See SI02 above.</b>				
SI21	234	Product/Service ID Description: Identifying number for a product or service.	X	AN	1/48	Used
		User: <b>See SI03 above.</b>				



# NM1 Individual or Organizational Name

Pos: 530 Max: 1  
 Detail - Optional  
 Loop: SLN/NM1 Elements: 3

To supply the full name of an individual or organizational entity:

Syntax:

P0809 -- If either NM108 or NM109 are present, then the others are required.

C1110 -- If NM111 is present, then NM110 is required.

Semantics:

1. NM102 qualifies NM103.

Comments:

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

User: This segment is used at HL1 to provide Service Provider Name and at HL7 to provide the service location.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_						
NM101	98	Entity Identifier Code Description: <b>Code identifying an organizational entity, a physical location, property or an individual.</b>	M	ID	2/3	Must use						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>75</td> <td>Participant</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table>	Code	Name	75	Participant	VN	Vendor				
Code	Name											
75	Participant											
VN	Vendor											
NM102	1065	Entity Type Qualifier Description: <b>Code qualifying the type of entity.</b>	M	ID	1/1	Must use						
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Person</td> </tr> <tr> <td>2</td> <td>Non-Person Entity</td> </tr> </tbody> </table>	Code	Name	1	Person	2	Non-Person Entity				
Code	Name											
1	Person											
2	Non-Person Entity											
NM103	1035	Name Last or Organization Name Description: <b>Individual last name or organizational name.</b>	O	AN	1/35	Used						

# TCD

## Itemized Call Detail

Pos: 590	Max: 1
Detail - Optional	
Loop: TCD	Elements: 16

To specify detail information for itemized calls:

Syntax:

P0405 -- If either TCD04 or TCD05 are present, then the others are required.

P0708 -- If either TCD07 or TCD08 are present, then the others are required.

Semantics:

1. TCD12 is an undiscounted amount.
2. TCD13 is a net amount after the discount has been applied to the amount in TCD12.
3. TCD14 is an undiscounted amount.
4. TCD15 is a net amount after the discount has been applied to the amount in TCD14.
5. TCD16 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. TCD01 is the detail information.
2. TCD02 is the date of the call.
3. TCD03 is the connect time of the call.
4. TCD04, TCD05, and TCD06 are the 'to' location of the call.
5. TCD07, TCD08, and TCD09 are the 'from' location of the call.
6. TCD10 and TCD11 are the total duration of the call. TCD10 is the time measured in minutes or minutes and tenths of minutes. TCD11 is time measured in seconds or seconds and tenths of seconds.

User: The TCD loop may only appear at the line detail level.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TCD01	350	Assigned Identification Description: <b>Alphanumeric characters assigned for differentiation within a transaction set.</b>	O	AN	1/20	Used
TCD02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	O	DT	8/8	Used
TCD03	337	Time Description: <b>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99).</b> User: <b>Connect time of call.</b>	O	TM	4/8	Used
TCD04	309	Location Qualifier Description: <b>Code identifying type of location.</b> User: <b>Code identifying the type of "TO" location provided in TCD05 and TCD06.</b>	X	ID	1/2	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_								
		<p><b>A value of "ZZ" indicates any point of originating/termination or service for a call that cannot be qualified by traditional geographic qualifiers (i.e., City or Country).</b></p> <p><b>The point of origination/termination or service that this code qualifies could be the name of an aircraft, vessel, vehicle, or service where a call originated/terminated or the service was provided.</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>CC</td> <td>Country</td> </tr> <tr> <td>CI</td> <td>City</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>					Code	Name	CC	Country	CI	City	ZZ	Mutually Defined
Code	Name													
CC	Country													
CI	City													
ZZ	Mutually Defined													
TCD05	310	Location Identifier Description: <b>Code which identifies a specific location</b>	X	AN	1/30	Used								
TCD06	156	State or Province Code Description: <b>Code (Standard State/Province) as defined by appropriate government agency.</b>	O	ID	2/2	Used								
TCD07	309	Location Qualifier Description: <b>Code identifying type of location.</b>	X	ID	1/2	Used								
		<p><b>User: Code identifying the type of "FROM" location provided in TCD08 and TCD09.</b></p> <p><b>A value of "ZZ" indicates any point of originating/termination or service for a call that cannot be qualified by traditional geographic qualifiers (i.e., City or Country).</b></p> <p><b>The point of origination/termination or service that this code qualifies could be the name of an aircraft, vessel, vehicle, or service where a call originated/terminated or the service was provided.</b></p> <table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>CC</td> <td>Country</td> </tr> <tr> <td>CI</td> <td>City</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>					Code	Name	CC	Country	CI	City	ZZ	Mutually Defined
Code	Name													
CC	Country													
CI	City													
ZZ	Mutually Defined													
TCD08	310	Location Identifier Description: <b>Code which identifies a specific location.</b>	X	AN	1/30	Used								
TCD09	156	State or Province Code Description: <b>Code (Standard State/Province) as defined by appropriate government agency.</b>	O	ID	2/2	Used								
TCD10	739	Measurement Value Description: <b>The value of the measurement.</b>	O	R	1/20	Used								
		<p><b>User: For Enhanced Call Routing (ECR) calls (SI pair "ZC^ 3"), TCD10 will contain the Transport Minutes</b></p>												
TCD11	739	Measurement Value	O	R	1/20	Used								
		<p><b>User: TCD11 is in Minutes</b></p> <p><b>For Enhanced Call Routing (ECR) calls (SI pair "ZC^ 3"):</b></p>												

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>TCD11 will contain the Platform Minutes</b>				
TCD12	782	Monetary Amount Description: <b>Monetary amount.</b>	O	R	1/18	Used
		<b>User: TCD12 contains the full amount (prior to discount)</b>				
TCD13	782	Monetary Amount Description: <b>Monetary amount.</b>	O	R	1/18	Used
		<b>User: TCD13 contains the amount after the discount is applied. If TCD13 and TCD12 are present, TCD13 is the billed amount (dependent on the TCD16 value)</b>				
TCD14	782	Monetary Amount Description: <b>Monetary amount.</b>	O	R	1/18	Used
		<b>User: TCD14 is info only and this amount is included the full charge in TCD12.</b> <b>For Enhanced Call Routing (ECR) calls (SI pair "ZC^ 3"):</b> <b>TCD14 will contain the Transport amount.</b>				
TCD15	782		O	R	1/18	Used
		<b>User: TCD15 is info only and this amount is included the full charge in TCD12.</b> <b>For Enhanced Call Routing (ECR) calls (SI pair "ZC^ 3"):</b> <b>TCD15 will contain the Platform amount.</b>				
TCD16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used
		<b>Code</b> <b>Name</b>				
		I        Included				
		O        Information Only				
		<b>Description:</b> Charges that 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).				

# SI Service Characteristic Identification

Pos: 600	Max: 2
Detail - Optional	
Loop: TCD	Elements: 21

To specify service characteristic data:

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

User: See section 10.4 for valid values when using data element 1000/234 pairs.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	M	AN	2/2	Must use

User: **See TCIF section 10.4 for complete list of valid values.**

**Possible SI DE1000/DE234 pairs:**

**'99' Continuation Code**  
*Used only when preceding DE234 exceeds maximum length of field.*

**'BA' Band**  
*User: for international billers, this might be the Usage Group or Destination Group*

**'BT' Basis Service Type**

**'CD' Customer Dialed Acct. Recording/Sub authorization Number**

**'CE' Cellular Air Time Package Code**

**'CO' Central Office Exchange Code**  
*User: for international billers, this Dial Prefix*

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b>'CT' Common Segment Hops</b>				
		<b>'CZ' Cellular Usage Indicator</b>				
		<b>'DI' Department Code/Customer ID</b>				
		<b>'DJ' Sub-Departmental ID Code</b>				
		<b>'DS' Discount Planned Code</b>				
		<b>'DT' Dialed Telephone Number</b>				
		<b>'FN' From Telephone Number</b>				
		<b>'K1' Digital Network Info System ID – for NIVR</b>				
		<b>'LA' Local Access Transport Area (LATA) Code</b>				
		<b>'MC' Message or Rate Class</b>				
		<b>'MD' Miscellaneous Description</b>				
		<b>'MT' Message Type</b>				
		<b>'P0' Pricing Plan Type Indicator</b>				
		<b>'PA' Primary/Originating Message Carrier Identification</b> <i>Identifies a third party service provider.</i>				
		<b>'PX' Private Branch Exchange/CENTREX Extension Number.</b> <i>User: This can contain the Trunk extension.</i>				
		<b>'R2' Call Routing Termination Code</b>				
		<b>'RJ' Rate Zone for Taxing (Switch / Taxing Geo code)</b>				
		<b>'RP' Rate Period Code</b>				
		<b>'RS' Rate Schedule</b> <i>User: for international billers, this might be the Usage Class or Destination Class</i>				
		<b>'RY' Local / Toll Indicator</b>				
		<b>'S1' Surcharge Applicability Indicator</b>				
		<b>'SD' Settlement Code</b>				
		<b>'SF' Service Feature -- Advanced Card Feature Codes:</b>				
		<b>'SS' Service Sub-category Code</b>				
		<b>'ST' Message Service Type</b>				
		<b>'TE' Transmission Speed</b>				
		<b>'TH' Trunk Group Number</b> <i>User: Elective Calling Number for Enterprise (ECNE) Group'</i>				
		<b>'TK' Trunk Number/Identification</b> <i>Identifies individual trunks in a trunk group.</i>				
		<b>'TL' Terminating Location</b> <i>User: Provides the Destination City for international calls</i>				
		<b>'TM' To Telephone Number</b> <i>The "To Telephone Number" might contain a Call Line Identifier (CLI). If the CLI exceeds 48 bytes, it will be continued in the next SI pair (99)</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<p><b>'TT' Transmission Type</b></p> <p><b>'Z1' Transport Rate Element Indicator: A CABS code that denotes which transport rate element applies.</b></p> <p><b>'ZC' Service Method    Entry Code</b></p> <p style="padding-left: 20px;"><b>Service Method: Differentiates special traffic</b></p> <p style="padding-left: 20px;"><b>Entry Code: Distinguishes whether the traffic being processed is EVS traffic or tells the type of EVS traffic.</b></p> <p><b>'ZD' Call Termination</b></p> <p><b>'ZE' Access Code for Conferencing.</b></p> <p><b>'ZF' Operator Assisted Code</b></p> <p><b>'ZG' Carrier ID for the line used</b></p> <p><b>'ZH' Enhanced Feature Codes</b></p> <p><b>'ZL' Description (can contain the "identifying code" for the conference held and is usually a seq#/id code followed by the leaders last name)</b></p> <p><b>'ZM' Suite (Can contain the Conference Type Description (i.e. UNATTENDED)</b></p> <p><b>'ZN' Dynamic URI</b></p>				
SI03	234	<p><b>Product/Service ID</b></p> <p><b>Description: Identifying number for a product or service.</b></p> <p><b>If DE1000 = BT</b></p> <p><b>'DATA' = Data</b></p> <p><b>'L' = NLVR</b></p> <p><b>'N' = NIVR</b></p> <p><b>'NIVR' = NIVR</b></p> <p><b>'ROAM' = Roam</b></p> <p><b>'S' = SIVR</b></p> <p><b>'SIVR' = SIVR</b></p> <p><b>'V' = VXML</b></p> <p><b>'VOICE' = Voice</b></p> <p><b>If DE1000 = CE</b></p> <p><b>A - Cellular Call (type unknown)</b></p> <p><b>D - Daily Roamer Surcharge</b></p> <p><b>E - Extended Home Area</b></p> <p><b>F - Forwarded</b></p> <p><b>G - Regional Roaming</b></p> <p><b>H - Home Airtime</b></p> <p><b>L - Landline Termination</b></p>	M	AN	1/48	Must use

*N - Market Roaming*  
*R - Out-of-Territory Roaming*  
*T - Toll*

*If DE1000 = CT*

*A - Interswitch DTO for Redirect*  
*B - Intraswitch DTO for Redirect*  
*C - Call Leg 1 no hops*  
*D - Call Leg 2 no hops*  
*E - Call Leg 3 no hops*  
*F - Call Leg 1 w/ 1 hop*  
*G - Call Leg 1 w/ 2 hops*  
*H - Call Leg 1 w/ 3 hops*  
*I - Call Leg 1 w/ 4 hops*  
*J - Call Leg 1 w/ 5 hops*  
*K - Call Leg 2 w/ 1 hop*  
*L - Call Leg 2 w/ 2 hops*  
*M - Call Leg 2 w/ 3 hops*  
*N - Call Leg 2 w/ 4 hops*  
*O - Call Leg 2 w/ 5 hops*

*1 - 1 Overflow Hop for NCR (Network Call Redirect)*  
*2 - 2 Overflow Hops for NCR (Network Call Redirect)*  
*3 - 3 Overflow Hops for NCR (Network Call Redirect)*  
*4 - 4 Overflow Hops for NCR (Network Call Redirect)*  
*5 - 5 Overflow Hops for NCR (Network Call Redirect)*  
*6 - 6 Overflow Hops for NCR (Network Call Redirect)*  
*7 - 7 Overflow Hops for NCR (Network Call Redirect)*  
*8 - 8 Overflow Hops for NCR (Network Call Redirect)*  
*9 - 9 Overflow Hops for NCR (Network Call Redirect)*

*If DE1000 = CZ*

*1 = PTT Allowance*  
*2 = Verizon Wireless Airfone Service*  
*3 = Global Phone*  
*4 = Home*  
*5 = Get it Now Download*  
*6 = TXT Messaging Download*  
*7 = Roam*

*A = Price Plan Allowance*  
*B = Bank of Minutes*  
*C = Call Waiting*



*D = Usage Discount*  
*E = Mobile Web*  
*F = Call Forwarding*  
*G = Airbridge Gateway*  
*H = Voice Mail Outdial*  
*I = Incoming Allowance*  
*J = Incoming Feature Minutes*  
*K = No Ans./Busy Transfer*  
*L = LD Direct*  
*M = IN Network (Mob to Mob)*  
*N = IN Network (Mob to Mob Allow)*  
*O = 3 Way Calling*  
*P = Prior Month's Delayed Call*  
*R = Voice Mail Retrieval*  
*S = Talk Dial*  
*T = Regional / LD Allowance*  
*U = Data*  
*V = Voice Mail*  
*W = Wknd/Night Feature Mins*  
*X = Partial Allowance*  
*Y = Promotional Allowance*  
*Z = International Traveler*

*If DE1000 = K1*  
*DNIS ID*

*If DE1000 = MC*  
*AB - Automated Billing Service,*  
*DS - Dial Station,*  
*OC - Operator Completed with Dial Rate Applied,*  
*OS - Operator Station,*  
*PC - Person Call Back,*  
*PR - Person*

*If DE1000 = LA*  
*Format can be Originating LATA "/" Terminating LATA*

*If DE1000 = MT*  
*CC - Calling Card*  
*CL - Collect*  
*CP - Coin Paid*

*SC - Special Collect*

*SP - Sent Paid*

*TF - Toll Free*

*TN - Third Number*

*If DE1000 = P0*

*D - Duration Based*

*C - Application Counter Based*

*B - Combination of Duration & Application Counter Based*

*N - Not in-plan*

*P - Price Cap*

*Y - In-plan*

*If DE1000 = RJ*

*100 - West Orange, NJ*

*300 - Atlanta, GA*

*310 - MiniMode*

*400 - West Sacramento, CA*

*If DE1000 = RP*

*01 - Peak,*

*02 - Off Peak*

*03 - Day,*

*04 - Evening,*

*05 - Night or Weekend,*

*06 - Weekend,*

*07 - Special Intrastate,*

*08 - Late Night,*

*09 - Regular,*

*10 - Discount,*

*11 - Economy*

*12 - Prime*

*13 - Standard*

*14 - Multi-period*

*If DE1000 = RY*

*L - Local*

*T - Toll / Long Distance*

*If DE1000 = R2*

*A - Local Network to Local Network*

*B - Local Network to Dedicated*  
*C - Local Network to Switched Access*  
*CA - Card Access*  
*D - Dedicated to Local Network*  
*DA - Dedicated Access*  
*E - Switched Access to Local Network*  
*F - Switched Access to Switched Access*  
*FRA – FreePhone Remote Access*  
*G - Dedicated to Dedicated*  
*H - Switched to Dedicated*  
*I - Dedicated to Switched Access*  
*J - Local Network to Mobile*  
*K - Switched Access to Mobile*  
*L - Dedicated to Mobile*  
*M - Customized Announcement*  
*MT - Mobile Termination*  
*N - Mobile to Local Network*  
*O - Mobile to Switched Access*  
*P - Mobile to Dedicated*  
*Q = Local Originating*  
*R = Dedicated Originating*  
*RSA - Register Site Access*  
*S = Switched Originating*  
*SA = Switched Access*  
*T = Local Termination*  
*U = Dedicated Termination*  
*V = Switched Termination*  
*W = Local to Verizon Wireless*  
*X = Switched to Verizon Wireless*  
*Y = Dedicated to Verizon Wireless*  
*0 - Not Available for call*  
*1 - Off Net*  
*2 - Local Origination*  
*3 - Local Termination*  
*4 - On Net*  
*5 - Excluded (such as calling card/pre-rated calls)*

*If DE1000 = S1*  
*C - Calling Party Number Termination Surcharge assessed*

*If DE1000 = SD*

*AA - Intra-Canada*  
*AB - Intra US*  
*AC - Intra IECIEC*  
*AF - Intra Intercompany*  
*ER - Intralata*  
*IA - Intrastate*  
*IB - Inter IEC*  
*IC - Inter US, Hawaii, Puerto Rico & US Virgin Islands*  
*IR - Interstate*  
*IT - International*  
*IU - Inter US*  
*LO - Local*  
*NA - International US*  
*NB - International – International Point/International Point*  
*NC - International US or Canada*  
*ND - International US/Mexico*  
*NS - Non-Standard*  
*OC - Outside Specified Area*

*If DE1000 'SF'*  
*10 – ISDN*  
*1A – Analog*  
*1N – Non-ISDN*  
*A - Toll Free Answering Service*  
*B - Messenger Broadcast*  
*C - Conferencing*  
*M - Messenger*  
*N - News Flash*  
*V - Voice Mail*

*If DE1000 'SS'*  
*CD - Calling Card*  
*DA - Directory Assistance*  
*DD - Direct Dialed*  
*DN - Integrated Services Digital Network*  
*ND = National Directory Assistance*  
*OA - Operator Assistance*  
*PP - Person to Person*  
*SS - Station to Station*  
*TN - Third Number*  
*TP - Third Party*

*CL - Collect*  
*BV - Busy Line Verification*  
*BI - Busy Line Interrupt*  
*TG - Telegram*  
*TS - Third Party Vendor/Service Profile Inventory Manager*  
*OT - Other*  
*AD - Credit/Adjustment*  
*CC - Conference Calling (applicable to a conference suite)*

*If DE1000 'ST'*

*CE - Cellular*  
*RA - Network Remote Access*

*If DE1000 'TE'*

*A - 56 or 64 Kbps*  
*B - 128*  
*C - 192*  
*D - 256*  
*E - 320*  
*F - 384*  
*G - 448*  
*H - 512*  
*I - 576*  
*J - 640*  
*K - 704*  
*L - 768*  
*M - 832*  
*N - 896*  
*P - 960*  
*Q - 1024*  
*R - 1088*  
*S - 1152*  
*T - 1216*  
*U - 1280*  
*V - 1344*  
*W - 1408*  
*X - 1472*  
*Y - 1536*

*If DE1000 'TT'*

*Values for non-CABS billing systems:*

*2 - Universal Domestic*  
*3 - Coverage-Ext Call*  
*5 - Intracountry*  
*6 - Virtual Network Con*  
*7 - Concert VNS*  
*8 - Market Area Calling*  
*9 - Global Voice VPN*  
*A - Standard A Analog*  
*B - Standard B Digital*  
*C - Cellular*  
*D - Canada*  
*E - Mexico*  
*F - Non USA Caribbean*  
*G - Intrastate - Intralata*  
*H - Intrastate - Interlata*  
*I - Internet Fax*  
*K - Domestic to International*  
*L - Extended Call Coverage to International*  
*M - Standard M Digital*  
*N - International to International*  
*O - Domestic*  
*P - International to Domestic*  
*R - Aeronautical Digital*

*if DE1000 'Z1'*

*'1' Transport facility mileage sensitive*  
*'2' Transport termination*  
*'3' Transport facility – non-mileage sensitive*  
*'4' Shared (Common) Trunk Ports*  
*'5' LIDB Transport*  
*'6' LIDB Applications*  
*'7' RIC/ACE (Residual Interconnection Charge/Access Connection Element)*  
*'8' Multiplexing*  
*'9' Banded*  
*'A' Tandem Switching*  
*'B' Facility/Banded*  
*'D' CONUS (Continental US) Transport*  
*'E' Intra-Alaska Transport*  
*'F' Intermediate (Transit) Tandem Transport*  
*'G' Blended Rates*

*'H' Local Rates*

*'L' Tandem Switch Termination*

*'M' Tandem Trunk Side*

*'R' Transit Local*

*'W' Banded RIC*

*'Y' Expanded LATA-Wide Tandem Switching*

*If DE1000 'ZC', Then DE234 contains two bytes: the first byte is Service Method and the second byte is Entry Code*

*First byte (Service Method):*

- 1 - Universal Freephone*
- 2 - Plus Universal Freephone*
- 3 - Call Center MCI Traffic*
- 4 - Directline Traffic*

*Second byte (Entry Code):*

- 1 - CMA*
- 2 - DMR*
- 3 - ECR*

*If DE1000 'ZD'*

*A - This call Terminated to another Corporate ID*

*B - This call Originated from another Corporate ID*

*01 - Shared*

*02 - Dedicated*

*If DE1000 'ZE'*

*1 - Card Call Access*

*2 - Switched Access*

*3 - Cellular Access*

*4 - Remote Access*

*5 - Dedicated Access*

*6 - International Freephone Access*

*7 - Dedicated Termination*

*8 - Toll*

*9 - Toll Free Meet Me*

*A - Dial*

*If DE1000 'ZF'*

*A - Live but not Operator Dialed*

*B - Automated*

*C - Must be Live*

*D - Operator Dialed*  
*E - Non-Operator Dialed and Originated at Premise Owner Location*  
*F - Operator Dialed and Originated at Premise Owner Location*  
*G - Must be Live and Originated at Premise Owner Location*  
*H - Automated and Originated at Premise Owner Location*  
*N - Station to Station - Live but not Operator Dialed*  
*O - Station to Station - Automated*  
*P - Station to Station - Must be Live*  
*Q - Station to Station - Operator Dialed*  
*R - Station to Station - Non-Operator Dialed and Originated at  
Premise Owner Location*  
*S - Operator Dialed and Originated at Premise Owner Location*  
*T - Station to Station - Must be Live and Originated at Premise  
Owner Location*  
*U - Station to Station - Automated and Originated at Premise  
Owner Location*  
*1 - operated Assisted type not known*

*If DE1000 'ZH'*

*1 - Busy/Announcement*  
*2 - Database Routing*  
*3 - Menu Routing*  
*4 - Caller Takeback*  
*5 - Message Announcement*  
*6 - Takeback and Transfer*  
*7 - Networx TF/ECRSpch Transcription*  
*8 - Announcements*  
*13 - Call Prompter*  
*14 - Announcements*  
*15 - In Route Announcements*  
*16 - Agency Based Routing Database*  
*17 - Call Redirection Blind XFER*  
*18 - Call Redirection Rest TNT*  
*A - Inbound call to domestic*  
*AA - Voice XML (VXML)*  
*AB - Voice XML (VXML) and Intelligent Contact Routing –  
Integration (ICRI)*  
*AC - Automated Speech Recognition (ASR)*  
*AD - Automated Speech Recognition (ASR) and Intelligent Contact  
Routing – Integration (ICRI)*  
*AE - Text to Speech (TTS)*



*AF - Text to Speech (TTS) and Intelligent Contact Routing – Integration (ICRI)*

*AG - Text to Speech (TTS) and Automated Speech Recognition (ASR)*

*AH - Text to Speech (TTS) and Automated Speech Recognition (ASR) and Intelligent Contact Routing – Integration (ICRI)*

*AI - Intelligent Contact Routing – Integration (ICRI)*

*AJ - Voice XML (VXML) and Automated Speech Recognition (ASR)*

*AK - Voice XML (VXML) and Text to Speech (TTS)*

*AL - Voice XML (VXML) and Text to Speech (TTS) and Automated Speech Recognition (ASR)*

*AM - Voice XML (VXML), Automated Speech Recognition (ASR), Intelligent Contact Routing – Integration (ICRI)*

*AN - Voice XML (VXML), Automated Speech Recognition (ASR), Text to Speech (TTS), Intelligent Contact Routing – Integration (ICRI)*

*AO - Voice XML (VXML), Text to Speech (TTS), Intelligent Contact Routing - Integration (ICRI)*

*B - Inbound call to International*

*C - Voicemail*

*D - Faxmail*

*E - Fax/voicemail retrieval*

*E4 = Standard Database Routing (TF ECR Feature)*

*E5 = Busy / No Answer Rerouting (TF ECR Feature)*

*E6 = TakeBack / SIP Refer Transfer (TF ECR Feature)*

*E7 = Announce Connect (TF ECR Feature)*

*E8 = Voice Call Back (TF ECR Feature)*

*EA - Caller Takeback (TF ECR Feature)*

*EB - Menu Routing (TF ECR Feature)*

*EC - Message Announcements (TF ECR Feature)*

*ED - Database Routing (TF ECR Feature)*

*EE - Busy Announce (TF ECR Feature)*

*EF - Take Back & Transfer (TF ECR Feature)*

*EG - Networx TF/ECRSpch Transcription (TF ECR Feature)*

*EH - Announcements (TF ECR Feature)*

*EM - Call Prompter (TF ECR Feature)*

*EN - Announcements (TF ECR Feature)*

*EO - In Route Announcements (TF ECR Feature)*

*EP - Agency Based Routing Database (TF ECR Feature)*

*EQ - Call Redirection Blind XFER (TF ECR Feature)*

*ER - Call Redirection Rest TNT (TF ECR Feature)*

*ES - Reserved (TF ECR Feature)*

*ET - Reserved (TF ECR Feature)*

*F - Domestic fax/Voicemail broadcast*  
*G - International fax/Voicemail broadcast*  
*H - Paging*  
*I - Outbound Call to Domestic*  
*J - Outbound Call to international*

SI04	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI05	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI06	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used

SI07	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI08	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI09	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI10	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI11	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI12	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI13	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI14	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI15	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI16	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI17	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI18	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used

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SI19	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI20	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI21	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used

# TXI

## Tax Information

Pos: 610	Max: >1
Detail - Optional	
Loop: TCD	Elements: 4

To specify tax information:

**Syntax:**

R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

P0405 -- If either TXI04 or TXI05 are present, then the others are required.

C0803 -- If TXI08 is present, then TXI03 is required.

**Semantics:**

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Element Summary:**

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																		
TXI01	963	Tax Type Code Description: <b>Code specifying the type of tax.</b>	M	ID	2/2	Must use																		
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>AB</td> <td>Surtax</td> </tr> <tr> <td>CG</td> <td>Federal Value-Added Tax (GST) on Goods</td> </tr> <tr> <td colspan="2"><b>User Note: "CG" is used for GST Goods and Services</b></td> </tr> <tr> <td>LO</td> <td>Local</td> </tr> <tr> <td>OH</td> <td>Other Taxes</td> </tr> <tr> <td>SP</td> <td>State or Provincial Tax</td> </tr> <tr> <td>ST</td> <td>State Sales Tax</td> </tr> <tr> <td>VA</td> <td>Value Added Tax</td> </tr> </table>	<u>Code</u>	<u>Name</u>	AB	Surtax	CG	Federal Value-Added Tax (GST) on Goods	<b>User Note: "CG" is used for GST Goods and Services</b>		LO	Local	OH	Other Taxes	SP	State or Provincial Tax	ST	State Sales Tax	VA	Value Added Tax				
<u>Code</u>	<u>Name</u>																							
AB	Surtax																							
CG	Federal Value-Added Tax (GST) on Goods																							
<b>User Note: "CG" is used for GST Goods and Services</b>																								
LO	Local																							
OH	Other Taxes																							
SP	State or Provincial Tax																							
ST	State Sales Tax																							
VA	Value Added Tax																							
TXI02	782	Monetary Amount Description: <b>Monetary amount.</b>	X	R	1/18	Used																		
TXI07	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used																		
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </table>	<u>Code</u>	<u>Name</u>	A	Add	O	Information Only																
<u>Code</u>	<u>Name</u>																							
A	Add																							
O	Information Only																							
TXI10	350	Assigned Identification	O	AN	1/20	Used																		

# ITA Allowance, Charge or Service

Pos: 615	Max: >1
Detail - Optional	
Loop: TCD	Elements: 10

To specify allowances, charges, or services:

**Syntax:**

- L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
- C0809 -- If ITA08 is present, then ITA09 is required.
- P1011 -- If either ITA10 or ITA11 are present, then the others are required.
- C1502 -- If ITA15 is present, then ITA02 is required.
- C1712 -- If ITA17 is present, then ITA12 is required.

**Semantics:**

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.

**Element Summary:**

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A        Allowance				
		C        Charge				
		N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TI        Telecommunications Industry				

ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>Credit Customer Account</td> </tr> <tr> <td>06</td> <td>Charge to be Paid by Customer</td> </tr> <tr> <td>15</td> <td>Information only</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	Code	Name	04	Credit Customer Account	06	Charge to be Paid by Customer	15	Information only	ZZ	Mutually Defined				
Code	Name															
04	Credit Customer Account															
06	Charge to be Paid by Customer															
15	Information only															
ZZ	Mutually Defined															
ITA05	341	Allowance or Charge Number Description: <b>The number assigned by a vendor referencing an allowance, promotion, deal or charge.</b>	O	AN	1/16	Used										
ITA06	359	Allowance or Charge Rate	O	R	1/15	Used										
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used										
ITA09	332	Percent	X	R	1/6	Used										
ITA10	380	Quantity	X	R	1/15	Used										
ITA11	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	X	ID	2/2	Used										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1N</td> <td>Count</td> </tr> <tr> <td>MJ</td> <td>Minutes</td> </tr> <tr> <td>SG</td> <td>Segment (Call Segments)</td> </tr> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	Code	Name	1N	Count	MJ	Minutes	SG	Segment (Call Segments)	UN	Unit				
Code	Name															
1N	Count															
MJ	Minutes															
SG	Segment (Call Segments)															
UN	Unit															
ITA12	380	Quantity  <b>FOR NCBS:</b> ITA12 quantity will only be populated for Enhanced Features for Toll Free Service.	X	R	1/15	Used										
ITA13	352	Specific charge description  <b>FOR IX Plus:</b> 'PAYPHONE USE CHARGE' 'CALL SURCHARGE'  <b>FOR NCBS:</b> 'PAYPHONE USE CHARGE' 'CALL SURCHARGE' 'BUSY/ANNOUNCEMENT ENHANCED FEATURES' 'CALLER TAKEBACK' ® ENHANCED FEATURES 'DATABASE ROUTING ENHANCED FEATURES' 'MESSAGE ANNOUNCEMENT ENHANCED FEATURES' 'MENU ROUTING ENHANCED FEATURES' 'TAKEBACK AND TRANSFER' ® ENHANCED FEATURES	X	AN	1/80	Used										

ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b>	X	ID	3/3	Used
-------	-----	---	---	----	-----	------

User: **See TCIF section 10.4 for complete list of valid values.**

<u>Code</u>	<u>Name</u>
DSC	Discount
FFR	Flat Rate
MSG	Miscellaneous Charge
PAI	Promotional Discount
SER	Service Charge
SUR	Surcharge
TAA	Telephone Charges
TXS	Tax Surcharge

ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used
-------	-----	---	---	----	-----	------

<u>Code</u>	<u>Name</u>
A	Add <b>Description:</b> The value in ITA07 is included in the IT1 amount
I	Included
O	Information Only <b>Description:</b> Charges that 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).

ITA17	355	Unit or Basis for Measurement Code for ITA12	O	ID	2/2	Used
-------	-----	--	---	----	-----	------

<u>Code</u>	<u>Name</u>
1N	Count
MJ	Minutes



# QTY

## Quantity

Pos: 617 Max: 1  
 Detail - Optional  
 Loop: TCD/QTY Elements: 3

To specify quantity information:

Syntax:

R0204 -- At least one of QTY02 or QTY04 is required.

E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																																
QTY01	673	Quantity Qualifier Description: <b>Code specifying the type of quantity.</b>	M	ID	2/2	Must use																																
		<table border="0"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Discrete Quantity</td> </tr> <tr> <td>2W</td> <td>Segments</td> </tr> <tr> <td>PO</td> <td>Percentage of Ordered Quantity/Allocated</td> </tr> <tr> <td>SF</td> <td>Site</td> </tr> <tr> <td>WE</td> <td>Limited Quantity Description: The Concurrent Call Limit</td> </tr> </tbody> </table>	Code	Name	01	Discrete Quantity	2W	Segments	PO	Percentage of Ordered Quantity/Allocated	SF	Site	WE	Limited Quantity Description: The Concurrent Call Limit																								
Code	Name																																					
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PO	Percentage of Ordered Quantity/Allocated																																					
SF	Site																																					
WE	Limited Quantity Description: The Concurrent Call Limit																																					
QTY02	380	Quantity Description: <b>For NCBS: QTY segment is used to provide total number of individual calls represented by this TCD Call Detail loop for NIVR calls. If the QTY segment is not present, then the default of 1 is assumed.</b>	X	R	1/15	Used																																
C0301	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use																																
		<table border="0"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>1I</td> <td>Fixed Rate</td> </tr> <tr> <td>1R</td> <td>Events / Transactions</td> </tr> <tr> <td>4L</td> <td>MegaBytes</td> </tr> <tr> <td>10</td> <td>Group</td> </tr> <tr> <td colspan="2" style="background-color: #e0e0e0;"><i>User Note: "10" is used for Trunks or Trunk Groups</i></td> </tr> <tr> <td>C0</td> <td>Calls</td> </tr> <tr> <td>DQ</td> <td>Records</td> </tr> <tr> <td>EA</td> <td>Each</td> </tr> <tr> <td>EB</td> <td>Electronic Mail Boxes</td> </tr> <tr> <td>IE</td> <td>Persons/Users</td> </tr> <tr> <td>LH</td> <td>Labor Hour</td> </tr> <tr> <td>M0</td> <td>Magnetic tapes</td> </tr> <tr> <td>NL</td> <td>Load (Downloads)</td> </tr> <tr> <td>NF</td> <td>Messages Description: Number of Messages transmitted, or delivered</td> </tr> <tr> <td>P0</td> <td>Pages</td> </tr> </tbody> </table>	Code	Name	1I	Fixed Rate	1R	Events / Transactions	4L	MegaBytes	10	Group	<i>User Note: "10" is used for Trunks or Trunk Groups</i>		C0	Calls	DQ	Records	EA	Each	EB	Electronic Mail Boxes	IE	Persons/Users	LH	Labor Hour	M0	Magnetic tapes	NL	Load (Downloads)	NF	Messages Description: Number of Messages transmitted, or delivered	P0	Pages				
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NL	Load (Downloads)																																					
NF	Messages Description: Number of Messages transmitted, or delivered																																					
P0	Pages																																					

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Ref _	Id_	Element Name	_	Req	Type	Min/Max	Usage_
	P1	Percent					
	QC	Channels					
	TO	Telecommunications Lines in Service (circuits)					
		<b>User Note: "T0" is also used for count of telephone numbers</b>					
	UN	Unit					

# USD

## Usage-Sensitive Detail

Pos: 620	Max: 1
Detail - Optional	
Loop: USD	Elements: 11

To specify usage-sensitive details which qualify for discounts or are subject to special rates:

Syntax:

- E0304 -- Only one of USD03 or USD04 may be present.
- L03060708 -- If USD03 is present, then at least one of USD06, USD07 or USD08 is required.
- L040809 -- If USD04 is present, then at least one of USD08 or USD09 is required.
- P0506 -- If either USD05 or USD06 are present, then the others are required.
- C070506 -- If 07 is present, then USD05 and USD06 are required.
- L101112 -- If USD10 is present, then at least one of USD11 or USD12 is required.
- C1110 -- If USD11 is present, then USD10 is required.
- C1210 -- If USD12 is present, then USD10 is required.

Semantics:

1. USD01 is a code indicating the relationship of the price or amount to the associated segment.
2. USD03 is the allowance or charge rate per unit.
3. USD04 is the discount percentage.
4. USD06 is the quantity of usage.
5. USD07 is a quantity of usage different than the quantity in USD06. When USD07 is present, it is used in conjunction with USD06, and then the rate USD03 is applied.
6. USD09 is the total amount of terms discount.

Comments:

1. If both USD03 and USD08 are present, then USD08 takes precedence.
2. If USD11 is present and USD12 is not present, then the range is open ended.
3. If USD12 is present and USD11 is not present, then the minimum is zero.

User: The USD loop may only appear at the line detail level.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
USD01	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		I        Included				
		O        Information Only				
		<b>Description:</b> Charges that 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)				
USD02	350	Assigned Identification Description: <b>Alphanumeric characters assigned for differentiation within a transaction set.</b>	O	AN	1/20	Used
USD03	118	Rate Description: <b>Rate expressed in the standard monetary denomination for the currency specified.</b>	X	R	1/9	Used
USD05	C001	Composite Unit of Measure		Comp		Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_																		
		Description: <b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>																						
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use																		
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> <td></td> </tr> <tr> <td>03</td> <td>Seconds</td> <td></td> </tr> <tr> <td>C0</td> <td>Calls</td> <td><b>Description:</b> Number of calls handled</td> </tr> <tr> <td>HR</td> <td>Hours</td> <td></td> </tr> <tr> <td>MJ</td> <td>Minutes</td> <td></td> </tr> <tr> <td>NF</td> <td>Messages</td> <td><b>Description:</b> Number of Messages transmitted, or delivered</td> </tr> </table>	<u>Code</u>	<u>Name</u>		03	Seconds		C0	Calls	<b>Description:</b> Number of calls handled	HR	Hours		MJ	Minutes		NF	Messages	<b>Description:</b> Number of Messages transmitted, or delivered				
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HR	Hours																							
MJ	Minutes																							
NF	Messages	<b>Description:</b> Number of Messages transmitted, or delivered																						
USD06	380	Quantity Description: <b>Numeric value of quantity.</b>	X	R	1/15	Used																		
USD07	380	Quantity Description: <b>Numeric value of quantity.</b>	X	R	1/15	Used																		
USD08	782	Monetary Amount Description: <b>Monetary amount</b> <i>User: This value has been 'rounded' to two decimal points.</i>	X	R	1/18	Used																		
USD09	610	Amount Description: <b>Monetary amount.</b>	X	N2	1/15	Used																		
USD10	C001	Composite Unit of Measure Description: <b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>		Comp		Used																		
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b> <b>User: See USD05 for valid code list.</b>	M	ID	2/2	Must use																		
USD11	740	Range Minimum Description: <b>The value specifying the minimum of the measurement range.</b>	X	R	1/20	Used																		
USD12	741	Range Maximum Description: <b>The value specifying the maximum of the measurement range.</b>	X	R	1/20	Used																		

# SI Service Characteristic Identification

Pos: 625	Max: 2
Detail - Optional	
Loop: USD	Elements: 7

To specify service characteristic data:

Syntax:

- P0405 -- If either SI04 or SI05 are present, then the others are required.
- P0607 -- If either SI06 or SI07 are present, then the others are required.
- P0809 -- If either SI08 or SI09 are present, then the others are required.
- P1011 -- If either SI10 or SI11 are present, then the others are required.
- P1213 -- If either SI12 or SI13 are present, then the others are required.
- P1415 -- If either SI14 or SI15 are present, then the others are required.
- P1617 -- If either SI16 or SI17 are present, then the others are required.
- P1819 -- If either SI18 or SI19 are present, then the others are required.
- P2021 -- If either SI20 or SI21 are present, then the others are required.

Comments:

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

User: See TCIF section 10.4 for valid values when using data element 1000/234 pairs.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
SI01	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	M	ID	2/2	Must use				
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>TI</td> <td>Telecommunications Industry</td> </tr> </tbody> </table>	Code	Name	TI	Telecommunications Industry				
Code	Name									
TI	Telecommunications Industry									
SI02	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b>	M	AN	2/2	Must use				
		<div style="background-color: #f0f0f0; padding: 5px;">           User: <b>See TCIF section 10.4 for complete list of valid values.</b>  <b>Possible SI DE1000/DE234 pairs:</b>            'BA' Band            'DA' Directory Assistance Category Code            'DS' Discount Planned Code            'MC' Message or Rate Class            'MT' Message Type            'RP' Rate Period            'RY' Local / Toll Indicator            'SD' Settlement Code            'SG' Service Group            'SS' Service Sub-category Code         </div>								
SI03	234	Product/Service ID Description: <b>Identifying number for a product or service.</b>	M	AN	1/48	Must use				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<i>If DE1000 'DA'</i>				
		<i>'01' Local</i>				
		<i>'11' Both 411 and 555 combined</i>				
		<i>If DE1000 = MC</i>				
		<i>DS - Dial Station,</i>				
		<i>OS - Operator Station,</i>				
		<i>If DE1000 = MT</i>				
		<i>CC - Calling Card</i>				
		<i>CL - Collect</i>				
		<i>CP - Coin Paid</i>				
		<i>SC - Special Collect</i>				
		<i>SP - Sent Paid</i>				
		<i>TF - Toll Free</i>				
		<i>TN - Third Number</i>				
		<i>If ED1000 = 'RP'</i>				
		<i>01-Peak,</i>				
		<i>02-Off Peak,</i>				
		<i>03-Day,</i>				
		<i>04-Evening,</i>				
		<i>05-Night or Weekend,</i>				
		<i>06-Weekend,</i>				
		<i>07-Special Intrastate,</i>				
		<i>08-Late Night,</i>				
		<i>09-Regular,</i>				
		<i>10-Discount,</i>				
		<i>11-Economy</i>				
		<i>If DE1000 = RY</i>				
		<i>L - Local</i>				
		<i>T - Toll / Long Distance</i>				
		<i>If DE1000 'SD'</i>				
		<i>'AB' Intra – US/US</i>				
		<i>'IR' Interstate</i>				
		<i>'IT' International</i>				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		<b><i>If DE1000 'SS'</i></b> <b><i>'ATM' ATM</i></b> <b><i>'DI' DEDICATED INTERNET</i></b> <b><i>'DSL' DSL</i></b> <b><i>'FR' FRAME RELAY</i></b> <b><i>'M' Miscellaneous</i></b> <b><i>'NU' Non-Usage</i></b> <b><i>'NUC' Non-Usage Conferencing</i></b> <b><i>'NUF' Non-Usage Feat/Misc</i></b> <b><i>'NUL' Non-Usage Local</i></b> <b><i>'NV' NETWORK VPN</i></b> <b><i>'NVD' Non-Voice Data Services</i></b> <b><i>'NVS' Non-Voice Services</i></b> <b><i>'PIP' PRIVATE IP</i></b> <b><i>'U' Usage</i></b> <b><i>'UC' Usage-Conferencing</i></b>				
SI04	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI05	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used
SI06	1000	Service Characteristics Qualifier Description: <b>Code from an industry code list qualifying the type of service characteristics.</b> User: <b>See SI02 above.</b>	X	AN	2/2	Used
SI07	234	Product/Service ID Description: <b>Identifying number for a product or service.</b> User: <b>See SI03 above.</b>	X	AN	1/48	Used

# ITA Allowance, Charge or Service

Pos: 630 Max: 2  
 Detail - Optional  
 Loop: USD Elements: 7

To specify allowances, charges, or services:

Syntax:

- L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
- C0809 -- If ITA08 is present, then ITA09 is required.
- P1011 -- If either ITA10 or ITA11 are present, then the others are required.
- C1502 -- If ITA15 is present, then ITA02 is required.
- C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A        Allowance				
		C        Charge				
		N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TI        Telecommunications Industry				



ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use																												
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>04</td> <td>Credit Customer Account</td> </tr> <tr> <td>06</td> <td>Charge to be Paid by Customer</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	Code	Name	04	Credit Customer Account	06	Charge to be Paid by Customer	ZZ	Mutually Defined																								
Code	Name																																	
04	Credit Customer Account																																	
06	Charge to be Paid by Customer																																	
ZZ	Mutually Defined																																	
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used																												
ITA09	332	Percent Description: <b>Percent expressed as a percent.</b>	X	R	1/16	Used																												
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b>	X	ID	3/3	Used																												
		User: <b>See TCIF section 10.4 for complete list of valid values.</b>																																
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>275</td> <td>Discount - Incentive</td> </tr> <tr> <td>295</td> <td>Discount – Special</td> </tr> <tr> <td>CCR</td> <td>Concession Credit</td> </tr> <tr> <td>DSC</td> <td>Discount</td> </tr> <tr> <td>EAC</td> <td>Exchange Access Credit</td> </tr> <tr> <td>LPC</td> <td>Late payment charge</td> </tr> <tr> <td>MGC</td> <td>Message Charge</td> </tr> <tr> <td>MSG</td> <td>Miscellaneous Charge</td> </tr> <tr> <td>PAI</td> <td>Promotional Discount</td> </tr> <tr> <td>QQD</td> <td>Quantity Discount</td> </tr> <tr> <td>STC</td> <td>State Surcharge</td> </tr> <tr> <td>SUR</td> <td>Surcharge</td> </tr> <tr> <td>VAB</td> <td>Volume Discount</td> </tr> </tbody> </table>	Code	Name	275	Discount - Incentive	295	Discount – Special	CCR	Concession Credit	DSC	Discount	EAC	Exchange Access Credit	LPC	Late payment charge	MGC	Message Charge	MSG	Miscellaneous Charge	PAI	Promotional Discount	QQD	Quantity Discount	STC	State Surcharge	SUR	Surcharge	VAB	Volume Discount				
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ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used																												
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Included</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	I	Included	O	Information Only																										
Code	Name																																	
I	Included																																	
O	Information Only																																	

# TRF

## Rating Factors

Pos: 640    Max: 18  
 Detail - Optional  
 Loop: USD    Elements: 5

To specify rating information used to calculate usage-sensitive charges:

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TRF01	673	Quantity Qualifier	M	ID	2/2	Must use

Description: **Code specifying the type of quantity.**

User: *Code specifying the rating basis (e.g., acknowledged calls, minimum period, etc.) for the segment.*

Code	Name
01	Discrete Quantity
02	Cumulative Quantity
27	Committed Quantity
38	Original Quantity
47	Primary Net Quantity
90	Acknowledged Quantity
	<b>Description:</b> Network Recognition for message receipt.
91	Additional Usage Quantity
	<b>Description:</b> The amount of usage incurred above the allotted or allowable use for a service.
92	Allotted Usage Quantity
	<b>Description:</b> The amount of allowable usage related to a service.
93	Attendant-Handled Quantity
	<b>Description:</b> Manual Recognition for message receipt.
94	Billable Quantity
	<b>Description:</b> Number of billable units used.
95	Data Storage Quantity
	<b>Description:</b> Number of storage units used.
96	Non-Billable Quantity
	<b>Description:</b> Number of non-billable units.
97	Non-Urgent Delivery Quantity
	<b>Description:</b> Number of units delivered in non-urgent status.
98	Overflow Quantity
	<b>Description:</b> Number of overflow messages, (Busy condition count for 800 service).
99	Quantity Used
	<b>Description:</b> Quantity of units used.
AA	Unacknowledged Quantity
	<b>Description:</b> Message received without network, or attendant recognition.
AB	Urgent Delivery Quantity
	<b>Description:</b> Number of units delivered in urgent status.
AC	Voice Storage Quantity
	<b>Description:</b> Number of voice storage units used.
AD	Maintenance Units

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
	AE	<b>Description:</b> Number of units of maintenance provided. Minimum Average Time Requirement (MATR) Units				
	AF	<b>Description:</b> Number of units calculated at a minimum usage rating basis, such as X minutes per message. Wide Area Telephone Service (WATS)/800 Service Units <b>Description:</b> Number of units of usage, for WATS or 800 service.				
	AG	Number of End Users <b>Description:</b> Number of participating users.				
	AH	Number of Message Recipients <b>Description:</b> Number of recipients.				
	AI	Number of Operator Credits <b>Description:</b> Number of operator credits given.				
	AJ	Daily Adjustments				
	NS	Number of Stations <b>Description:</b> Number of stations, or terminating points, which are in use, deleted, added, etc. for service delivery; ports or lines on a computer.				
TRF02	C001	Composite Unit of Measure Description: <b>Equivalent units per standard unit.</b>		Comp		Must use
		<b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>				
		User: <b>Equivalent units per standard unit.</b>				
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		03    Seconds				
		12    Packet				
	AD	Bytes <b>Description:</b> A computer string of data that consists of a quantity of bits, treated as a unit; a bit is a binary digit.				
	AH	Additional Minutes <b>Description:</b> The minutes, usually associated with usage-sensitive pricing of telecommunication services, which are above the minutes allowed for that particular service.				
	AI	Average Minutes Per Call <b>Description:</b> The total number of minutes of a category of calls divided by the total number of calls within the category for telephone services calculated to provide call summary details.				
	AL	Access Lines <b>Description:</b> Number of lines subject to Carrier Access Line Charges.				
	AN	Minutes or Messages <b>Description:</b> Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges.				
	C0	Calls <b>Description:</b> Number of calls handled.				

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
		EA Each				
		HR Hours				
		HT Half Hour				
		KB Kilocharacters <b>Description:</b> Kilocharacters of data transmitted.				
		KF Kilopackets <b>Description:</b> Kilopackets of data transmitted.				
		MJ Minutes				
		QH Quarter Hours <b>Description:</b> Number of 15 minute increments of usage handled.				
		UB Telecommunications Lines in Service - Average <b>Description:</b> Average number of lines in service specific to equal access requirements.				
		UC Telecommunications Ports <b>Description:</b> Number of network access ports.				
		UD Tenth Minutes <b>Description:</b> Number of 6 second increments of usage.				
		UE Tenth Hours <b>Description:</b> Number of 6 minute increments of usage.				
		UF Usage per Telecommunications Line - Average				
		ZZ Mutually Defined				
TRF03	380	Quantity <b>Description: Numeric value of quantity.</b>	M	R	1/15	Must use
TRF04	C001	Composite Unit of Measure <b>Description: Equivalent units per standard unit.</b>		Comp		Must use
		<b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>				
	355	Unit or Basis for Measurement Code <b>Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		03    Seconds				
		AN    Minutes or Messages <b>Description:</b> Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges. <b>User:</b> <i>Will be used to indicate minutes</i>				
		HR    Hours				
TRF05	380	Quantity <b>Description: Numeric value of quantity.</b>	M	R	1/15	Must use

# QTY

## Quantity

Pos: 650 Max: 1  
 Detail - Optional  
 Loop: USD/QTY Elements: 3

To specify quantity information:

Syntax:

R0204 -- At least one of QTY02 or QTY04 is required.

E0204 -- Only one of QTY02 or QTY04 may be present.

Semantics:

1. QTY04 is used when the quantity is non-numeric.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
QTY01	673	Quantity Qualifier Description: <b>Code specifying the type of quantity.</b>	M	ID	2/2	Must use
	<u>Code</u>	<u>Name</u>				
	94	Billable Quantity <b>Description:</b> Number of billable units used.				
	99	Quantity Used <b>Description:</b> Quantity of units used.				
QTY02	380	Quantity Description: <b>Numeric value of quantity.</b>	X	R	1/15	Used
QTY03	C001	Composite Unit of Measure Description: <b>For examples of composite data elements see Figures Appendix in X12 Standards.</b>		Comp		Used
	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	M	ID	2/2	Must use
	<u>Code</u>	<u>Name</u>				
	03	Seconds				
	2P	kilobytes				
	C0	Calls <b>Description:</b> Number of calls handled.				
	EJ	Locations				
	HR	Hours				
	HT	Half Hour				
	MJ	Minutes				
	NF	Messages <b>Description:</b> Number of Messages transmitted, or delivered.				
	QH	Quarter Hours <b>Description:</b> Number of 15 minute increments of usage handled.				
	UE	Tenth Hours <b>Description:</b> Number of 6 minute increments of usage.				

# TDS

## Total Monetary Value Summary

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

To specify the total invoice discounts and amounts:

Semantics:

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

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
TDS01	610	Amount	M	N2	1/15	Must use
		Description: <b>Monetary amount.</b>				
		User: <b>Total current month invoiced amount.</b>				

# ITA Allowance, Charge or Service

Pos: 020	Max:
Summary - Optional	
Loop: ITA	Elements: 8

To specify allowances, charges, or services:

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required.

P1011 -- If either ITA10 or ITA11 are present, then the others are required.

C1502 -- If ITA15 is present, then ITA02 is required.

C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u>				
		A        Allowance				
		C        Charge				
		N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u>				
		TI        Telecommunications Industry				
ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u>				
		04        Credit Customer Account				
		06        Charge to be Paid by Customer				
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_										
ITA11	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	X	ID	2/2	Used										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>M4</td> <td>Monetary Value</td> </tr> </tbody> </table>	Code	Name	M4	Monetary Value										
Code	Name															
M4	Monetary Value															
ITA13	352	Description	X	AN	1/80	Used										
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b>	X	ID	3/3	Used										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>AAJ</td> <td>Adjustments</td> </tr> <tr> <td>LPC</td> <td>Late payment charge</td> </tr> <tr> <td>MSG</td> <td>Miscellaneous Charge</td> </tr> <tr> <td>TRS</td> <td>Transferred Charges</td> </tr> </tbody> </table> <p><b>Description:</b> Adjustment for delayed charges or payments to an account number no longer in service.</p>	Code	Name	AAJ	Adjustments	LPC	Late payment charge	MSG	Miscellaneous Charge	TRS	Transferred Charges				
Code	Name															
AAJ	Adjustments															
LPC	Late payment charge															
MSG	Miscellaneous Charge															
TRS	Transferred Charges															
ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities</b>	O	ID	1/1	Used										
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Add</td> </tr> <tr> <td>O</td> <td>Information Only</td> </tr> </tbody> </table> <p><b>Description:</b> Charges that 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).</p>	Code	Name	A	Add	O	Information Only								
Code	Name															
A	Add															
O	Information Only															



# DTM

## Date/Time Reference

Pos: 030	Max:
Summary - Optional	
Loop: ITA	Elements: 2

To specify pertinent dates and times:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u> 009      Process				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used

# BAL

## Balance Detail

Pos: 040    Max:  
 Summary - Optional  
 Loop: BAL    Elements: 3

To identify the specific monetary balances associated with a particular account:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_														
BAL01	951	Balance Type Code Description: <b>Code indicating the type of balance.</b>	M	ID	1/2	Must use														
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>A</td> <td>Adjustment</td> </tr> <tr> <td>M</td> <td>Current Month</td> </tr> <tr> <td>P</td> <td>Previous Month</td> </tr> <tr> <td colspan="2"><b>Description:</b> Balance of previous period charges prior to applying payments and adjustments for the previous period billing.</td> </tr> </table>	<u>Code</u>	<u>Name</u>	A	Adjustment	M	Current Month	P	Previous Month	<b>Description:</b> Balance of previous period charges prior to applying payments and adjustments for the previous period billing.									
<u>Code</u>	<u>Name</u>																			
A	Adjustment																			
M	Current Month																			
P	Previous Month																			
<b>Description:</b> Balance of previous period charges prior to applying payments and adjustments for the previous period billing.																				
BAL02	522	Amount Qualifier Code Description: <b>Code to qualify amount.</b>	M	ID	1/3	Must use														
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>C4</td> <td>Prior Payment -Actual</td> </tr> <tr> <td>NA</td> <td>Net Adjustment</td> </tr> <tr> <td>PB</td> <td>Previous Billed Amount</td> </tr> <tr> <td colspan="2"><b>Description:</b> Total amount due on the period bill.</td> </tr> <tr> <td>TP</td> <td>Total Payment amount</td> </tr> <tr> <td>TT</td> <td>Total Transaction Amount</td> </tr> </table>	<u>Code</u>	<u>Name</u>	C4	Prior Payment -Actual	NA	Net Adjustment	PB	Previous Billed Amount	<b>Description:</b> Total amount due on the period bill.		TP	Total Payment amount	TT	Total Transaction Amount				
<u>Code</u>	<u>Name</u>																			
C4	Prior Payment -Actual																			
NA	Net Adjustment																			
PB	Previous Billed Amount																			
<b>Description:</b> Total amount due on the period bill.																				
TP	Total Payment amount																			
TT	Total Transaction Amount																			
BAL03	782	Monetary Amount Description: <b>Monetary amount.</b>	M	R	1/18	Must use														

# N1

## Name

Pos: 060	Max:
Summary - Optional	
Loop: N1	Elements: 4

To identify parties by type of organization, name, and code:

Syntax:

R0203 -- At least one of N102 or N103 is required.

P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

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

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_										
N101	98	Entity Identifier Code Description: <b>Code identifying an organizational entity, a physical location, property or an individual.</b>	M	ID	2/3	Must use										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>SJ</td> <td>Service Provider</td> </tr> <tr> <td></td> <td><b>Description:</b> Identifies name and address information as pertaining to a service provider for which billing is being rendered.</td> </tr> </table>	<u>Code</u>	<u>Name</u>	SJ	Service Provider		<b>Description:</b> Identifies name and address information as pertaining to a service provider for which billing is being rendered.								
<u>Code</u>	<u>Name</u>															
SJ	Service Provider															
	<b>Description:</b> Identifies name and address information as pertaining to a service provider for which billing is being rendered.															
N102	93	Name Description: <b>Free-form name</b> User: <b>Service Provider Name</b>	X	AN	1/60	Used										
N103	66	Identification Code Qualifier Description: <b>Code designating the system/method of code structure used for Identification Code (67).</b>	X	ID	1/2	Used										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>41</td> <td>Telecommunications Carrier Identification Code</td> </tr> <tr> <td></td> <td><b>Description:</b> Identifies the Interexchange carrier for the charges being billed.</td> </tr> <tr> <td>42</td> <td>Telecommunications Pseudo Carrier Identification Code</td> </tr> <tr> <td></td> <td><b>Description:</b> A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers.</td> </tr> </table>	<u>Code</u>	<u>Name</u>	41	Telecommunications Carrier Identification Code		<b>Description:</b> Identifies the Interexchange carrier for the charges being billed.	42	Telecommunications Pseudo Carrier Identification Code		<b>Description:</b> A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers.				
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	<b>Description:</b> A code similar to the standard Carrier Identification Code which is used to identify the local exchange service providers.															
N104	67	Identification Code Description: <b>Code identifying a party or other code.</b> User: <b>If N103 = "41" - Use Bellcore CIC list.</b> <b>If N103 = "42" - Use Pseudo-CIC list provided in TCIF section 10.4.</b>	X	AN	2/80	Used										

# BAL

## Balance Detail

Pos: 070    Max:  
 Summary - Optional  
 Loop: N1/BAL    Elements: 3

To identify the specific monetary balances associated with a particular account:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
BAL01	951	Balance Type Code Description: <b>Code indicating the type of balance.</b>	M	ID	1/2	Must use
		<u>Code</u> <u>Name</u> M        Current Month				
BAL02	522	Amount Qualifier Code Description: <b>Code to qualify amount.</b>	M	ID	1/3	Must use
		<u>Code</u> <u>Name</u> C4        Prior Payment - Actual <b>Description:</b> Amount paid in reality at an earlier time.				
BAL03	782	Monetary Amount Description: <b>Monetary amount.</b>	M	R	1/18	Must use

# DTM

## Date/Time Reference

Pos: 080    Max:  
 Summary - Optional  
 Loop: N1/BAL    Elements: 2

To specify pertinent dates and times:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required.

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u> 050    Received				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used

# ITA Allowance, Charge or Service

Pos: 090 Max:  
 Summary - Optional  
 Loop: N1/ITA Elements: 8

To specify allowances, charges, or services:

Syntax:

L02031314 -- If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.

C0809 -- If ITA08 is present, then ITA09 is required.

P1011 -- If either ITA10 or ITA11 are present, then the others are required.

C1502 -- If ITA15 is present, then ITA02 is required.

C1712 -- If ITA17 is present, then ITA12 is required.

Semantics:

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.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
ITA01	248	Allowance or Charge Indicator Description: <b>Code which indicates an allowance or charge for the service specified.</b>	M	ID	1/1	Must use
		<u>Code</u> <u>Name</u> A        Allowance C        Charge N        No Allowance or Charge				
ITA02	559	Agency Qualifier Code Description: <b>Code identifying the agency assigning the code values.</b>	X	ID	2/2	Used
		<u>Code</u> <u>Name</u> TI        Telecommunications Industry				
ITA04	331	Allowance or Charge Method of Handling Code Description: <b>Code indicating method of handling for an allowance or charge.</b>	M	ID	2/2	Must use
		<u>Code</u> <u>Name</u> 04        Credit Customer Account 06        Charge to be Paid by Customer 15        Information only				
ITA07	360	Allowance or Charge Total Amount Description: <b>Total dollar amount for the allowance or charge.</b>	O	N2	1/15	Used

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_														
ITA11	355	Unit or Basis for Measurement Code Description: <b>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken.</b>	X	ID	2/2	Used														
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>M4</td> <td>Monetary Value</td> </tr> </tbody> </table>	Code	Name	M4	Monetary Value														
Code	Name																			
M4	Monetary Value																			
ITA13	352	Description	X	AN	1/80	Used														
ITA14	150	Special Charge or Allowance Code Description: <b>Code identifying type of special charge or allowance.</b>	X	ID	3/3	Used														
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>230</td> <td>Credit (VCAP-R)</td> </tr> <tr> <td colspan="2">User: <i>ITA14 = "230" is only used for VCAP-R credits.</i></td> </tr> <tr> <td>AAJ</td> <td>Adjustments</td> </tr> <tr> <td>MSG</td> <td>Miscellaneous Charge</td> </tr> <tr> <td>TRS</td> <td>Transferred Charges</td> </tr> <tr> <td colspan="2"><b>Description:</b> Adjustment for delayed charges or payments to an account number no longer in service.</td> </tr> </tbody> </table>	Code	Name	230	Credit (VCAP-R)	User: <i>ITA14 = "230" is only used for VCAP-R credits.</i>		AAJ	Adjustments	MSG	Miscellaneous Charge	TRS	Transferred Charges	<b>Description:</b> Adjustment for delayed charges or payments to an account number no longer in service.					
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User: <i>ITA14 = "230" is only used for VCAP-R credits.</i>																				
AAJ	Adjustments																			
MSG	Miscellaneous Charge																			
TRS	Transferred Charges																			
<b>Description:</b> Adjustment for delayed charges or payments to an account number no longer in service.																				
ITA16	662	Relationship Code Description: <b>Code indicating the relationship between entities.</b>	O	ID	1/1	Used														
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Information Only</td> </tr> <tr> <td colspan="2"><b>Description:</b> Charges that 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).</td> </tr> </tbody> </table>	Code	Name	O	Information Only	<b>Description:</b> Charges that 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).													
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# DTM

## Date/Time Reference

Pos: 100    Max: 2  
 Summary - Optional  
 Loop: N1/ITA Elements: 2

To specify pertinent dates and times:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required.

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u>				
		009    Process				
		050    Received				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used



**LX**

**Assigned Number**

Pos: 107 Max:  
 Summary - Optional  
 Loop: N1/LX Elements: 1

To reference a line number in a transaction set:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
LX01	554	Assigned Number Description: <b>Number assigned for differentiation within a transaction set.</b>	M	N0	1/6	Must use

# REF

## Reference Identification

Pos: 108    Max:  
 Summary - Optional  
 Loop: N1/LX Elements: 2

To specify account, billing, and accounts receivable numbers:

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

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

User: This REF segment is used to provide the invoice number that the previous invoice information is for.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_										
REF01	128	Reference Identification Qualifier Description: <b>Code qualifying the Reference Identification.</b>	M	ID	2/3	Must use										
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>1L</td> <td>Group Number</td> </tr> <tr> <td>K9</td> <td>Inquiry Request Number</td> </tr> <tr> <td>PX</td> <td>Prior Invoice Number</td> </tr> <tr> <td></td> <td><b>Description:</b> The invoice number this payment is for.</td> </tr> </table>	<u>Code</u>	<u>Name</u>	1L	Group Number	K9	Inquiry Request Number	PX	Prior Invoice Number		<b>Description:</b> The invoice number this payment is for.				
<u>Code</u>	<u>Name</u>															
1L	Group Number															
K9	Inquiry Request Number															
PX	Prior Invoice Number															
	<b>Description:</b> The invoice number this payment is for.															
REF02	127	Reference Identification Description: <b>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier.</b>	X	AN	1/30	Used										

# AMT

## Monetary Amount

Pos: 109    Max: 1  
 Summary - Optional  
 Loop: N1/LX/AMT Elements: 2

To indicate the total monetary amount:

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
AMT01	522	Amount Qualifier Code Description: <b>Code to qualify amount.</b>	M	ID	1/3	Must use
		<u>Code</u> <u>Name</u>				
		<b>0S</b> Previous Invoice Billed (zero 'S')				
		<b>0T</b> Currently Due (zero 'T')				
		<b>NA</b> Net Adjustment for Invoice				
		<b>TP</b> Total Amount Paid for Invoice				
AMT02	782	Monetary Amount Description: <b>Monetary amount.</b>	M	R	1/18	Must use

# DTM

## Date/Time Reference

Pos: 110    Max: 1  
 Summary - Optional  
 Loop: N1/LX/AMT Elements: 2

To specify pertinent dates and times:

Syntax:

R020305 -- At least one of DTM02, DTM03 or DTM05 is required.

C0403 -- If DTM04 is present, then DTM03 is required.

P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
DTM01	374	Date/Time Qualifier Description: <b>Code specifying type of date or time, or both date and time.</b>	M	ID	3/3	Must use
		<u>Code</u> <u>Name</u>				
		007    Effective				
		009    Process				
		050    Received				
DTM02	373	Date Description: <b>Date expressed as CCYYMMDD.</b>	X	DT	8/8	Used

# CTT

## Transaction Totals

Pos: 115	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

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

Syntax:

P0304 -- If either CTT03 or CTT04 are present, then the others are required.

P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

User: The number of line items (CTT01) is the accumulation of the number of IT1 segments.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
CTT01	354	Number of Line Items	M	N0	1/6	Must use
		Description: <b>Total number of line items in the transaction set.</b>				
		User: <b>Number of IT1 segments in this transaction set.</b>				

# SE

## Transaction Set Trailer

Pos: 120	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments):

Comments:

1. SE is the last segment of each transaction set.

Element Summary:

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

User: *The value of this data element in SE02 in the Transaction Set Trailer (SE) must match the value of the same data element in ST02 of the Transaction Set Header (ST).*

# GE

## Functional Group Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To indicate the end of a functional group and to provide control information:

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

User: Indicates the end of a group of related transaction sets.

Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
GE01	97	Number of Transaction Sets Included Description: <b>Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.</b>	M	NO	1/6	Must use
User: <i>Number of included transaction sets</i>						
GE02	28	Group Control Number Description: <b>Assigned number originated and maintained by the sender.</b>	M	NO	1/9	Must use
User: <i>The value is the same as in GS06</i>						

# IEA

## Interchange Control Trailer

Pos: Max: 1  
 - Mandatory  
 Loop: N/A Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments:

User: The Interchange Control Trailer is the last segment of the transmission.

### Element Summary:

Ref _	Id_	Element Name	Req	Type	Min/Max	Usage_
IEA01	I16	Number of Included Functional Groups Description: <b>A count of the number of functional groups included in an interchange.</b>	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: <b>A control number assigned by the interchange sender.</b> User: <i>This value is the same as in ISA13</i>	M	N0	9/9	Must use