811 Invoice
Implementation Document
Version 4010

October 28, 2011

Requirements

We would like to send all invoices via EDI. The transaction of preference is the ANSI X12 811 Transaction Set. We use the 811 transaction set as defined by the national EDI standards setting committee called ANSI X12. We also follow industry guidelines established by the Telecommunication Industry Forum (TCIF) EDI Committee and is an active member of this industry group.

EDI Acknowledgments are used as a control mechanism to ensure the successful delivery of EDI documents through telecommunication links. The 997 transaction set is the most common acknowledgement document and the one we require. The purpose of the 997 Functional Acknowledgment is to communicate to the sender of a document the successful receipt of an EDI transaction. The 997 transaction set also communicates that the received document is in compliance with X12 standards, but does not authorize the content of the transaction. One acknowledgment per functional group is expected within 48 hours of one of our transmissions.

Implementation Steps

1) Preparation:

The objective of the preparation phase is to gain an understanding of what is involved in an EDI implementation, identify the benefits to be achieved and to assemble a plan for implementation. At this point we request that you complete and fax the '***TRADING PARTNER PROFILE'.*** The Trading Partner Profile will provide the necessary technical information for electronic data transmission.

2) Connectivity Testing:

The objective of this phase is to test the communications link between you and us. It is not to test the X12 811 standard. A successful test will occur if we send a transaction to your mailbox, you are able to retrieve it, pass it to your translator, produce a 997 functional acknowledgment, and send the acknowledgment back to us. We currently use **Sterling Software's Mailbox** product and can connect directly to your system.

3) Translator Mapping and Coding:

The objective of this phase is to match the requirements of your billing application and the 811 transaction set requirements from us. We have provided the X12 segment layouts that you will need later in this guide. We will provide a test 811 transaction upon request to help you in your testing of the translator.

4) Parallel Transmissions:

The objective of this phase is to build user confidence with the new EDI transactions. During this period, both EDI bills and the paper bills will be sent to the customer. At this point any billing discrepancies should be identified and corrected. We will require several weeks advance notice before actual parallel transmissions begin.

5) Elimination of Paper Bills:

The objective of this phase is to eliminate the paper bill and to avoid charges associated with receiving both EDI and paper formats. Once you are satisfied with the format of the EDI 811 and no longer require the paper copy, you can request that the paper copy be eliminated. Please contact our EDI Coordinator when ready.

TRADING PARTNER PROFILE

When you are ready to begin testing the 811 transaction, please contact our EDI Coordinator. A testing schedule will be discussed with you at that time. Please fill out and email the following information to your EDI coordinator.

TRADING PARTNER IS A QUALIFER AND ID _____

TRADING PARTNER GS SENDER ID _____

THIRD PARTY NETWORK _____

DATE YOU ARE READY TO TEST _____

EDI CONTACT NAME _____

EDI CONTACT TITLE _____

ADDRESS_____

CITY/STATE/ZIP _____

PHONE NUMBER _____

FAX NUMBER _____

EDI CONTACT E-MAIL_____

GENERAL INFORMATION

How many months/years of EDI experience do you have?

Which applications and transaction sets have you implemented for EDI?

What translator package are you using and what platform (mainframe, mini, PC) does it reside on?

Do you belong to any EDI industry or user groups? Which ones?

What type of communications equipment will be used to send and receive EDI transactions?

What transfer protocol do you use? (Asynchronous or Binary-synchronous)

EDI Questions

Please direct additional questions to: IT-CTL-EQ-EDI- INFO@centurylink.com

Information

TRADING PARTNER ISA QUALIFER AND ID **(01 qualifier) 069737914 (production id)**

TRADING PARTNER GS SENDER ID   **069737914 (production id)**

VERSIONS **004010**

General Information

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.

The Consolidated Service Invoice/Statement (811) transaction set is a hierarchically structured transaction set which is designed for complex billing structures such as telecommunications invoices. The 811 may contain up to nine hierarchical levels to provide sufficient data and organizational flexibility with which to provide billing for multiple service providers and a variety of sub-billing arrangements. Billing information can be provided by various bill components such as type of service provided, circuit number and/or telephone number. Details can be provided to the line item level.

811 Area/Name	PURPOSE
HEADING AREA	TO PROVIDE IDENTIFICATION OF THE BILL PROVIDER, THE CUSTOMER, THE ACCOUNT, AND THE TYPE OF BILL. THERE ARE NO BILLED AMOUNTS IN THE HEADING AREA.
DETAIL AREA	TO PROVIDE DETAILS OF CHARGES AND CREDITS REFLECTED IN THE INVOICE PERIOD WITH APPROPRIATE IDENTIFICATION OF THE SERVICES BILLED AND THE SUPPORTING SUBLINE ITEM DETAIL BY SERVICE PROVIDER.
SUMMARY AREA	TO PROVIDE THE TOTAL AMOUNT DUE AND BALANCE INFORMATION FOR THE ENTIRE INVOICE.

A Summary Bill is sent as the first invoice in the interchange and then Detail Bills for each account or individual telephone number.

EDI Summary Bill – BIG*07 = CI
The EDI Summary Bill is sent using the ANSI X12 811 Transaction Set. The objective of the EDI Summary Bill is to provide customers with summary level bill information in an electronic format. The EDI Summary Bill is intended for those who wish to perform high level bill processing.

EDI Detail Bill – BIG*07 = DI
The EDI Detail Bill is sent to customers using the ANSI X12 811 Transaction Set. The objective of the EDI Detail Bill is to provide customers complete billing information in an electronic format. The EDI Detail Bill is intended for customers who want to perform detailed analysis of telecommunication usage and billing.

811 Consolidated Service Invoice/Statement

Functional Group ID=CI

Introduction:

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

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
10	010	ST	Transaction Set Header	M	1		
11	020	BIG	Beginning Segment for Invoice	M	1		
12	050	REF	Reference Identification	O	>1		
13	070	ITD	Terms of Sale/Deferred Terms of Sale	O	5		
14	080	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			>1	
15	100	N1	Name	O	1		
16	120	N3	Address Information	O	2		
17	130	N4	Geographic Location	O	1		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			>1	
18	010	HL	Hierarchical Level	M	1		
			LOOP ID - LX			>1	
19	020	LX	Assigned Number	O	1		
20	030	SI	Service Characteristic Identification	O	8		
21	040	PID	Product/Item Description	O	200		
22	050	REF	Reference Identification	O	>1		
23	060	AMT	Monetary Amount	O	5		
24	070	DTM	Date/Time Reference	O	8		
25	080	TXI	Tax Information	O	>1		
			LOOP ID - NM1			1	
26	110	NM1	Individual or Organizational Name	O	1		
27	120	N2	Additional Name Information	O	2		
28	130	N3	Address Information	O	2		
29	140	N4	Geographic Location	O	1		
			LOOP ID - IT1			999999	
30	210	IT1	Baseline Item Data (Invoice)	O	1		

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
32	270	DTM	Date/Time Reference	O	10		
			LOOP ID - SLN			>1	
33	390	SLN	Subline Item Detail	O	1		
36	400	SI	Service Characteristic Identification	O	2		
38	410	PID	Product/Item Description	O	200		
40	460	REF	Reference Identification	O	>1		
			LOOP ID - QTY			>1	
41	510	QTY	Quantity	O	1		
			LOOP ID - TCD			>1	
42	590	TCD	Itemized Call Detail	O	1		
44	600	SI	Service Characteristic Identification	O	2		

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
46	010	TDS	Total Monetary Value Summary	M	1		
			LOOP ID - BAL			>1	
47	040	BAL	Balance Detail	O	1		
48	050	DTM	Date/Time Reference	O	1		
49	115	CTT	Transaction Totals	O	1		n1
50	120	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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

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

Data Element Summary

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

	Segment:		**BIG** Beginning Segment for Invoice
	Position:	020	
	Loop:		
	Level:	Heading	
	Usage:	Mandatory	
	Max Use:	1	
	Purpose:	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates	
	Syntax Notes:		
	Semantic Notes:	**1**	BIG01 is the invoice issue date.
		2	BIG03 is the date assigned by the purchaser to purchase order.
		3	BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.
	Comments:	**1**	BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
>>	**BIG01**	**373**	**Date**		**M**	**DT 8/8**
			Date expressed as CCYYMMDD			
>>	**BIG02**	**76**	**Invoice Number**		**M**	**AN 1/22**
			Identifying number assigned by issuer			
	BIG07	**640**	**Transaction Type Code**		**O**	**ID 2/2**
			Code specifying the type of transaction			
			CI	Consolidated Invoice		
			DI	Debit Invoice		

Segment:	**REF** Reference Identification			
Position:	050			
Loop:				
Level:	Heading			
Usage:	Optional			
Max Use:	>1			
Purpose:	To specify identifying information			
Syntax Notes:	1	At least one of REF02 or REF03 is required.		
	2	If either C04003 or C04004 is present, then the other is required.		
	3	If either C04005 or C04006 is present, then the other is required.		
Semantic Notes:	1	REF04 contains data relating to the value cited in REF02.		
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
			12 Billing Account	
			AP Accounts Receivable Number	
			ZZ Mutually Defined	
	REF02	127	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment:	**ITD** Terms of Sale/Deferred Terms of Sale
Position:	070
Loop:	
Level:	Heading
Usage:	Optional
Max Use:	5
Purpose:	To specify terms of sale

Syntax Notes:	**1**	If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	2	If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
	3	If ITD09 is present, then at least one of ITD10 or ITD11 is required.
Semantic Notes:	**1**	ITD15 is the percentage applied to a base amount used to determine a late payment charge.
Comments:	**1**	If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
ITD01	**336**	**Terms Type Code**	**O**	**ID 2/2**
		Code identifying type of payment terms		
		18 Fixed Date, Late Payment Penalty Applies		
ITD06	**446**	**Terms Net Due Date**	**O**	**DT 8/8**
		Date when total invoice amount becomes due expressed in format CCYYMMDD		

Segment:	**DTM** Date/Time Reference			
Position:	080			
Loop:				
Level:	Heading			
Usage:	Optional			
Max Use:	10			
Purpose:	To specify pertinent dates and times			
Syntax Notes:	1	At least one of DTM02 DTM03 or DTM05 is required.		
	2	If DTM04 is present, then DTM03 is required.		
	3	If either DTM05 or DTM06 is present, then the other is required.		
Semantic Notes:				
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**DTM01**	**374**	**Date/Time Qualifier**	**M**	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			186 Invoice Period Start		
			187 Invoice Period End		
	DTM02	**373**	**Date**	**X**	**DT 8/8**
			Date expressed as CCYYMMDD		

		N1 Name
Segment:		
Position:	100	
Loop:	N1	Optional
Level:	Heading	
Usage:	Optional	
Max Use:	1	
Purpose:	To identify a party by type of organization, name, and code	
Syntax Notes:	1	At least one of N102 or N103 is required.
	2	If either N103 or N104 is present, then the other is required.
Semantic Notes:		
Comments:	1	This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
	2	N105 and N106 further define the type of entity in N101.
Notes:	1.	N103 and N104 are populated only when N101 is "PE".

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> N101	98	**Entity Identifier Code**	**M ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

IA	Installed At
PE	Payee
PR	Payer

Ref. Des.	Data Element	Name	Attributes
N102	93	**Name**	**X AN 1/60**

Free-form name

Ref. Des.	Data Element	Name	Attributes
N103	66	**Identification Code Qualifier**	**X ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

1	D-U-N-S Number, Dun & Bradstreet

Ref. Des.	Data Element	Name	Attributes
N104	67	**Identification Code**	**X AN 2/80**

Code identifying a party or other code

069737914	CenturyLink DUNS #

Segment: # N3 Address Information

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> N301	166	**Address Information**	**M AN 1/55**
		Address information	

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	**City Name**	O	**AN 2/30**
		Free-form text for city name		
N402	156	**State or Province Code**	O	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	**Postal Code**	O	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL   Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
Comments: 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

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

Segment:	**LX** Assigned Number		
Position:	020		
Loop:	LX Optional		
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To reference a line number in a transaction set		
Syntax Notes:			
Semantic Notes:			
Comments:			
Notes:	1. The LX loop is used only with these HL loops:		

1. The LX loop is used only with these HL loops:
   HL(1) – Service Provider
   HL(2) – Billing Arrangement
   HL(5) – Category
   HL(7) – Type
2. Segments in this loop used at each HL(level):
   HL(1): SI, AMT
   HL(2): REF, AMT, DTM, TXI
   HL(5): SI, AMT
   HL(7): SI

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> LX01	554	**Assigned Number**	M N0 1/6
		Number assigned for differentiation within a transaction set	

Segment:		**SI** Service Characteristic Identification		
Position:		030		
Loop:		LX Optional		
Level:		Detail		
Usage:		Optional		
Max Use:		8		
Purpose:		To specify service characteristic data		
Syntax Notes:		1 If either SI04 or SI05 is present, then the other is required.		
		2 If either SI06 or SI07 is present, then the other is required.		
		3 If either SI08 or SI09 is present, then the other is required.		
		4 If either SI10 or SI11 is present, then the other is required.		
		5 If either SI12 or SI13 is present, then the other is required.		
		6 If either SI14 or SI15 is present, then the other is required.		
		7 If either SI16 or SI17 is present, then the other is required.		
		8 If either SI18 or SI19 is present, then the other is required.		
		9 If either SI20 or SI21 is present, then the other is required.		
Semantic Notes:				
Comments:		1 SI01 defines the source for each of the service characteristics qualifiers.		
Notes:		1. Used at HL Levels: HL(1), HL(5), HL(7)		
		2. Qualifiers used per HL Level:		
		HL(1): BT, ZZ		
		HL(5): BT, OD		
		HL(7): CD, TN		
		3. Unless otherwise specified, the qualifiers listed in SI02 may appear in any DE1000 element used in the segment.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	SI01	559	**Agency Qualifier Code**	**M ID 2/2**
			Code identifying the agency assigning the code values	
			TI Telecommunications Industry	
>>	SI02	1000	**Service Characteristics Qualifier**	**M AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
			BT Basic Service Type	
			CN Circuit Number Identification Code	
			OD Other Charges and Credits Description Code	
			TN Telephone Number	
			ZZ Mutually Defined	
>>	SI03	234	**Product/Service ID**	**M AN 1/48**
			Identifying number for a product or service	
	SI04	1000	**Service Characteristics Qualifier**	**X AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI05	234	**Product/Service ID**	**X AN 1/48**
			Identifying number for a product or service	
	SI06	1000	**Service Characteristics Qualifier**	**X AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI07	234	**Product/Service ID**	**X AN 1/48**
			Identifying number for a product or service	

Segment:	**PID** Product/Item Description	
Position:	040	
Loop:	LX Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	200	
Purpose:	To describe a product or process in coded or free-form format	
Syntax Notes:	1 If PID04 is present, then PID03 is required.	
	2 At least one of PID04 or PID05 is required.	
	3 If PID07 is present, then PID03 is required.	
	4 If PID08 is present, then PID04 is required.	
	5 If PID09 is present, then PID05 is required.	
Semantic Notes:	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.	
Notes:	1. Used at HL Level: HL(7)	
	2. The segment is populated as follows:	

PID04	PID05	PID07
<section>	<section_description>	SECTION
<phone nbr>	<alt prod desc>	ALTPRDDESC
<group code>	<group code description>	GROUP
<subgroup code>	<subgroup code description>	SUBGROUP

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
>> PID01	349	**Item Description Type**	M	ID 1/1
		Code indicating the format of a description		
		X Semi-structured (Code and Text)		
PID03	559	**Agency Qualifier Code**	X	ID 2/2
		Code identifying the agency assigning the code values		
		AS Assigned by Seller		
PID04	751	**Product Description Code**	X	AN 1/12
		A code from an industry code list which provides specific data about a product characteristic		
PID05	352	**Description**	X	AN 1/80
		A free-form description to clarify the related data elements and their content		
PID07	822	**Source Subqualifier**	O	AN 1/15
		A reference that indicates the table or text maintained by the Source Qualifier		
		ALTPRDDESC Customer's Alternate Product Description		
		GROUP Customer's Group Code		
		SECTION Customer's Section Code		
		SUBGROUP Customer's Sub-Group Code		

	Segment:	**REF** Reference Identification

Segment: **REF** Reference Identification
Position: 050
Loop: LX   Optional
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes: 1   At least one of REF02 or REF03 is required.
2   If either C04003 or C04004 is present, then the other is required.
3   If either C04005 or C04006 is present, then the other is required.
Semantic Notes: 1   REF04 contains data relating to the value cited in REF02.
Comments:
Notes: 1.   Used at HL Level: HL(2)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	**Reference Identification Qualifier**	M ID 2/3
		Code qualifying the Reference Identification	
		11 Account Number	
REF02	127	**Reference Identification**	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: # AMT Monetary Amount

Position:	060
Loop:	LX Optional
Level:	Detail
Usage:	Optional
Max Use:	5
Purpose:	To indicate the total monetary amount
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	1. Used at HL Levels: HL(1), HL(2), HL(5)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> AMT01	522	**Amount Qualifier Code**	**M ID 1/3**
		Code to qualify amount	
		SC Total Service Charge	
>> AMT02	782	**Monetary Amount**	**M R 1/18**
		Monetary amount	

Segment:	**DTM** Date/Time Reference	
Position:	070	
Loop:	LX Optional	
Level:	Detail	
Usage:	Optional	
Max Use:	8	
Purpose:	To specify pertinent dates and times	
Syntax Notes:	**1** At least one of DTM02 DTM03 or DTM05 is required.	
	2 If DTM04 is present, then DTM03 is required.	
	3 If either DTM05 or DTM06 is present, then the other is required.	
Semantic Notes:		
Comments:		
Notes:	1. Used at HL Level: HL(2)	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> DTM01	374	**Date/Time Qualifier**	**M ID 3/3**
		Code specifying type of date or time, or both date and time	
		183 Connection	
DTM02	373	**Date**	**X DT 8/8**
		Date expressed as CCYYMMDD	

Segment:	**TXI** Tax Information			
Position:	080			
Loop:	LX Optional			
Level:	Detail			
Usage:	Optional			
Max Use:	>1			
Purpose:	To specify tax information			
Syntax Notes:	1	At least one of TXI02 TXI03 or TXI06 is required.		
	2	If either TXI04 or TXI05 is present, then the other is required.		
	3	If TXI08 is present, then TXI03 is required.		
Semantic Notes:	1	TXI02 is the monetary amount of the tax.		
	2	TXI03 is the tax percent expressed as a decimal.		
	3	TXI07 is a code indicating the relationship of the price or amount to the associated segment.		
Comments:				
Notes:	1.	Used at HL Level: HL(2)		
	2.	When TXI07 is "I" TXI04, TXI05 and TXI10 will also be populated.		
	3.	When TXI07 is "A" the amount in TXI02 is used to balance to the TDS segment.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**
			Code specifying the type of tax		
			FD	Federal Tax	
			LO	Local Tax (Not Sales Tax)	
			SL	State and Local Tax	
			SU	Sales and Use Tax	
	TXI02	**782**	**Monetary Amount**	**X**	**R 1/18**
			Monetary amount		
	TXI04	**955**	**Tax Jurisdiction Code Qualifier**	**X**	**ID 2/2**
			Code identifying the source of the data used in tax jurisdiction code		
			VE	Vertex	
	TXI05	**956**	**Tax Jurisdiction Code**	**X**	**AN 1/10**
			Code identifying the taxing jurisdiction		
	TXI06	**441**	**Tax Exempt Code**	**X**	**ID 1/1**
			Code identifying exemption status from sales and use tax		
			2	No (Not Tax Exempt)	
	TXI07	**662**	**Relationship Code**	**O**	**ID 1/1**
			Code indicating the relationship between entities		
			A	Add	
				A - This is an additional amount to be accounted for when balancing to the amount in the TDS segment.	
			I	Included	
				I - Indicates that the segment is supporting detail for the TXI segment having the same TXI01 value and where TXI07 = "A". **It should NOT be used when balancing to the amount in the TDS segment**.	
	TXI10	**350**	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			The CenturyLink product id (e.g., working telephone number) having charges from which this tax amount is derived. This value is also found in SLN02.		

Segment:	**NM1** Individual or Organizational Name	
Position:	110	
Loop:	NM1	Optional
Level:	Detail	
Usage:	Optional	
Max Use:	1	
Purpose:	To supply the full name of an individual or organizational entity	
Syntax Notes:	1	If either NM108 or NM109 is present, then the other is required.
	2	If NM111 is present, then NM110 is required.
Semantic Notes:	1	NM102 qualifies NM103.
Comments:	1	NM110 and NM111 further define the type of entity in NM101.
Notes:	1.	Used at HL Levels: HL(1), HL(2), HL(7)
	2.	NM108 & NM109 are used with HL(1), HL(7).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**NM101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**

Code identifying an organizational entity, a physical location, property or an individual

77	Service Location
	Used at HL Level HL(7).
SJ	Service Provider
	Used at HL Level HL(1), HL(2).

>>	**NM102**	**1065**	**Entity Type Qualifier**	**M**	**ID 1/1**

Code qualifying the type of entity

2	Non-Person Entity

	NM103	**1035**	**Name Last or Organization Name**	**O**	**AN 1/35**

Individual last name or organizational name

When NM101 is '77' , NM103 is NOT populated and all names are passed in N2 segments.

	NM108	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

41	Telecommunications Carrier Identification Code
91	Assigned by Seller or Seller's Agent

	NM109	**67**	**Identification Code**	**X**	**AN 2/80**

Code identifying a party or other code

When NM108 is '41' this is the Service Provider's CIC .
When NM108 is '91' this is a CenturyLink product identifier for the Service Location.

Segment:	**N2** Additional Name Information
Position:	120
Loop:	NM1 Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify additional names or those longer than 35 characters in length
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Used at HL Level HL(7).

Data Element Summary

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

Segment:	**N3** Address Information
Position:	130
Loop:	NM1 Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify the location of the named party
Syntax Notes:	
Semantic Notes:	
Comments:	
Notes:	Used at HL Level HL(7).

Data Element Summary

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

Segment:	**N4** Geographic Location			

Segment: **N4** Geographic Location
Position: 140
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Used at HL Level HL(7).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
N401	19	**City Name**	**O**	**AN 2/30**
		Free-form text for city name		
N402	156	**State or Province Code**	**O**	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
N403	116	**Postal Code**	**O**	**ID 3/15**
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		

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

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

Semantic Notes:	**1**	IT101 is the purchase order line item identification.
Comments:	**1**	Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
	2	IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes:	1.	The IT1 loop is used at HL Level: HL(4)

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IT101	**350**	**Assigned Identification**	**O**	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
IT102	**358**	**Quantity Invoiced**	**X**	**R 1/10**
		Number of units invoiced (supplier units)		
IT103	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		M4 Monetary Value		
IT104	**212**	**Unit Price**	**X**	**R 1/17**
		Price per unit of product, service, commodity, etc.		
IT106	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		SV Service Rendered		
IT107	**234**	**Product/Service ID**	**X**	**AN 1/48**
		Identifying number for a product or service		
		0200 Monthly Service Charge		
		0400 Other Charges and Credits/Additions and Changes		
		0500 Itemized Calls		
		0700 Usage		
IT108	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		ZZ Mutually Defined		
IT109	**234**	**Product/Service ID**	**X**	**AN 1/48**

Ref. Des.	Data Element	Name	Attributes
		Identifying number for a product or service	

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Segment:	**DTM** Date/Time Reference			
Position:	270			
Loop:	IT1 Optional			
Level:	Detail			
Usage:	Optional			
Max Use:	10			
Purpose:	To specify pertinent dates and times			
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.			
	2 If DTM04 is present, then DTM03 is required.			
	3 If either DTM05 or DTM06 is present, then the other is required.			
Semantic Notes:				
Comments:				

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	DTM01	374	**Date/Time Qualifier**	M ID 3/3
			Code specifying type of date or time, or both date and time	
			150 Service Period Start	
			151 Service Period End	
	DTM02	373	**Date**	X DT 8/8
			Date expressed as CCYYMMDD	

Segment:	**SLN** Subline Item Detail			
Position:	390			
Loop:	SLN	Optional		
Level:	Detail			
Usage:	Optional			
Max Use:	1			
Purpose:	To specify product subline detail item data			

Segment: **SLN** Subline Item Detail

Position: 390
Loop: SLN   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify product subline detail item data
Syntax Notes:
1   If either SLN04 or SLN05 is present, then the other is required.
2   If SLN07 is present, then SLN06 is required.
3   If SLN08 is present, then SLN06 is required.
4   If either SLN09 or SLN10 is present, then the other is required.
5   If either SLN11 or SLN12 is present, then the other is required.
6   If either SLN13 or SLN14 is present, then the other is required.
7   If either SLN15 or SLN16 is present, then the other is required.
8   If either SLN17 or SLN18 is present, then the other is required.
9   If either SLN19 or SLN20 is present, then the other is required.
10 If either SLN21 or SLN22 is present, then the other is required.
11 If either SLN23 or SLN24 is present, then the other is required.
12 If either SLN25 or SLN26 is present, then the other is required.
13 If either SLN27 or SLN28 is present, then the other is required.

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

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

Notes:
1.   The SLN loop is used at HL Level: HL(8)
2.   Unless otherwise specified, the qualifiers listed in SLN09 may appear in any DE235 element used in the segment.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	SLN01	350	**Assigned Identification**	**M**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
	SLN02	350	**Assigned Identification**	**O**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
>>	SLN03	662	**Relationship Code**	**M**	**ID 1/1**
			Code indicating the relationship between entities		
			I Included		
	SLN04	380	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity		
			Always '1'. The quantity (if any) that the charge in SLN06 is based on is passed in the QTY segment.		
	SLN05	C001	**Composite Unit of Measure**	**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
>>	C00101	355	**Unit or Basis for Measurement Code**	**M**	**ID 2/2**

Ref. Des.	Data Element	Name		Attributes

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

    M4   Monetary Value

SLN06   **212**   **Unit Price**   **X**   **R 1/17**

Price per unit of product, service, commodity, etc.

SLN08   **662**   **Relationship Code**   **O**   **ID 1/1**

Code indicating the relationship between entities

    I   Included

SLN09   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

    CR   Contract Number

                            This information is also passed in the REF segment.

    D4   Plan Code

                            This information is also passed in the SI segment. Used for Price Plan Code.

    EJ   Service Feature ID

                            This information is also passed in the SI segment. Used for Charge/Feature Codes

    ME   Market Program Code

                            This information is also passed in the SI segment. Used for Submarket Code

    ON   Customer Order Number

                            This information is also passed in the REF segment.

    VO   Vendor's Order Number

                            This information is also passed in the REF segment. Used for CenturyLink Service Order number.

SLN10   **234**   **Product/Service ID**   **X**   **AN 1/48**

Identifying number for a product or service

SLN11   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

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

Identifying number for a product or service

SLN13   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SLN14   **234**   **Product/Service ID**   **X**   **AN 1/48**

Identifying number for a product or service

SLN15   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SLN16   **234**   **Product/Service ID**   **X**   **AN 1/48**

Identifying number for a product or service

SLN17   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SLN18   **234**   **Product/Service ID**   **X**   **AN 1/48**

Identifying number for a product or service

SLN19   **235**   **Product/Service ID Qualifier**   **X**   **ID 2/2**

Ref. Des.	Data Element	Name		Attributes
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
SLN20	234	**Product/Service ID**	X	AN 1/48
		Identifying number for a product or service		

Segment:	**SI** Service Characteristic Identification		
Position:	400		
Loop:	SLN	Optional	
Level:	Detail		
Usage:	Optional		
Max Use:	2		
Purpose:	To specify service characteristic data		
Syntax Notes:	**1**	If either SI04 or SI05 is present, then the other is required.	
	2	If either SI06 or SI07 is present, then the other is required.	
	3	If either SI08 or SI09 is present, then the other is required.	
	4	If either SI10 or SI11 is present, then the other is required.	
	5	If either SI12 or SI13 is present, then the other is required.	
	6	If either SI14 or SI15 is present, then the other is required.	
	7	If either SI16 or SI17 is present, then the other is required.	
	8	If either SI18 or SI19 is present, then the other is required.	
	9	If either SI20 or SI21 is present, then the other is required.	
Semantic Notes:			
Comments:	**1**	SI01 defines the source for each of the service characteristics qualifiers.	
Notes:	1.	Unless otherwise specified, the qualifiers listed in SI02 may appear in any DE1000 element used in the segment.	

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	**SI01**	**559**	**Agency Qualifier Code**	**M**	**ID 2/2**
			Code identifying the agency assigning the code values		
			TI	Telecommunications Industry	
>>	**SI02**	**1000**	**Service Characteristics Qualifier**	**M**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics		
			CN	Circuit Number Identification Code	
			DI	Department Code/Customer ID Code	
				Group Code -- a customer assigned value.	
			DJ	Sub-Departmental ID Code	
				Sub-Group Code -- a customer assigned value.	
			MK	Market Segment	
			P0	Pricing Plan Type Indicator	
			S4	Section	
				Section Code -- a customer assigned value.	
			SF	Service Feature/Option Code	
>>	**SI03**	**234**	**Product/Service ID**	**M**	**AN 1/48**
			Identifying number for a product or service		
	SI04	**1000**	**Service Characteristics Qualifier**	**X**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics		
	SI05	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
	SI06	**1000**	**Service Characteristics Qualifier**	**X**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics		
	SI07	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		
	SI08	**1000**	**Service Characteristics Qualifier**	**X**	**AN 2/2**
			Code from an industry code list qualifying the type of service characteristics		
	SI09	**234**	**Product/Service ID**	**X**	**AN 1/48**
			Identifying number for a product or service		

Ref. Des.	Data Element	Name	Attributes
SI10	**1000**	**Service Characteristics Qualifier**	**X AN 2/2**
		Code from an industry code list qualifying the type of service characteristics	
SI11	**234**	**Product/Service ID**	**X AN 1/48**
		Identifying number for a product or service	
SI12	**1000**	**Service Characteristics Qualifier**	**X AN 2/2**
		Code from an industry code list qualifying the type of service characteristics	
SI13	**234**	**Product/Service ID**	**X AN 1/48**
		Identifying number for a product or service	
SI14	**1000**	**Service Characteristics Qualifier**	**X AN 2/2**
		Code from an industry code list qualifying the type of service characteristics	
SI15	**234**	**Product/Service ID**	**X AN 1/48**
		Identifying number for a product or service	

	Segment:	**PID** Product/Item Description

Segment: **PID** Product/Item Description
Position: 410
Loop: SLN Optional
Level: Detail
Usage: Optional
Max Use: 200
Purpose: To describe a product or process in coded or free-form format
Syntax Notes:
1 If PID04 is present, then PID03 is required.
2 At least one of PID04 or PID05 is required.
3 If PID07 is present, then PID03 is required.
4 If PID08 is present, then PID04 is required.
5 If PID09 is present, then PID05 is required.
Semantic Notes:
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.
Notes:
1. The segment is populated as follows:

PID02	PID04	PID05	PID07
SF	<feature_code>	<charge desc>	blank
08	<section>	<section_description>	SECTION
08	<phone nbr>	<alt prod desc>	ALTPRDDESC
09	<group code>	<group code description>	GROUP
08	<subgroup code>	<subgroup code description>	SUBGROUP

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
>> PID01	349	**Item Description Type**	M	ID 1/1
		Code indicating the format of a description		
		X Semi-structured (Code and Text)		
PID02	750	**Product/Process Characteristic Code**	O	ID 2/3
		Code identifying the general class of a product or process characteristic		
		08 Product		
		09 Sub-product		
		SF Service Feature		
PID03	559	**Agency Qualifier Code**	X	ID 2/2
		Code identifying the agency assigning the code values		
		AS Assigned by Seller		
PID04	751	**Product Description Code**	X	AN 1/12
		A code from an industry code list which provides specific data about a product characteristic		
PID05	352	**Description**	X	AN 1/80
		A free-form description to clarify the related data elements and their content		
PID07	822	**Source Subqualifier**	O	AN 1/15
		A reference that indicates the table or text maintained by the Source Qualifier		
		ALTPRDDESC		

Ref. Des.	**Data Element**	**Name**	**Attributes**
		Customer's Alternate Product Description	
	GROUP	Customer's Group Code	
	SECTION	Customer's Section Code	
	SUBGROUP	Customer's Sub-Group Code	

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Segment:	**REF** Reference Identification		
Position:	460		
Loop:	SLN Optional		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To specify identifying information		
Syntax Notes:	1 At least one of REF02 or REF03 is required.		
	2 If either C04003 or C04004 is present, then the other is required.		
	3 If either C04005 or C04006 is present, then the other is required.		
Semantic Notes:	1 REF04 contains data relating to the value cited in REF02.		
Comments:			
Notes:	1. When REF01 is "CO" the PON will be passed in REF03; the literal 'PON' will be passed in REF02.		

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	**Reference Identification Qualifier**	**M ID 2/3**
		Code qualifying the Reference Identification	
		CO Customer Order Number	
		CT Contract Number	
		OW Service Order Number	
REF02	127	**Reference Identification**	**X AN 1/30**
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
REF03	352	**Description**	**X AN 1/80**
		A free-form description to clarify the related data elements and their content	

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
>> QTY01	673	**Quantity Qualifier**	M	ID 2/2
		Code specifying the type of quantity		
		99 Quantity Used		
QTY02	380	**Quantity**	X	R 1/15
		Numeric value of quantity		
QTY03	C001	**Composite Unit of Measure**	O	
		To identify a composite unit of measure (See Figures Appendix for examples of use)		
>> C00101	355	**Unit or Basis for Measurement Code**	M	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		EA Each		

Segment:	**TCD** Itemized Call Detail			

Position: 590
Loop: TCD   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify detail information for itemized calls
Syntax Notes: 1   If either TCD04 or TCD05 is present, then the other is required.
                2   If either TCD07 or TCD08 is present, then the other is required.
Semantic Notes: 1   TCD12 is an undiscounted amount.
                2   TCD13 is a net amount after the discount has been applied to the amount in TCD12.
                3   TCD14 is an undiscounted amount.
                4   TCD15 is a net amount after the discount has been applied to the amount in TCD14.
                5   TCD16 is a code indicating the relationship of the price or amount to the associated segment.
Comments: 1   TCD01 is the detail information.
                2   TCD02 is the date of the call.
                3   TCD03 is the connect time of the call.
                4   TCD04, TCD05, and TCD06 are the 'to' location of the call.
                5   TCD07, TCD08, and TCD09 are the 'from' location of the call.
                6   TCD10 and TCD11 are the total duration of the call. TCD10 is the time measured in minutes or minutes and tenths of minutes. TCD11 is time measured in seconds or seconds and tenths of seconds.
Notes: 1.   The TCD loop is used at HL Level: HL(9)
                2.   TCD10 - is a whole number value representing the call duration in 100ths of minutes.
                3.   TCD11 - is a whole number value representing the call duration in seconds.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
TCD01	350	**Assigned Identification**	O	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
TCD02	373	**Date**	O	**DT 8/8**
		Date expressed as CCYYMMDD		
TCD03	337	**Time**	O	**TM 4/8**
		Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)		
TCD04	309	**Location Qualifier**	X	**ID 1/2**
		Code identifying type of location		
		CI City		
TCD05	310	**Location Identifier**	X	**AN 1/30**
		Code which identifies a specific location		
TCD06	156	**State or Province Code**	O	**ID 2/2**
		Code (Standard State/Province) as defined by appropriate government agency		
TCD07	309	**Location Qualifier**	X	**ID 1/2**
		Code identifying type of location		
		CI City		
TCD08	310	**Location Identifier**	X	**AN 1/30**
		Code which identifies a specific location		
TCD09	156	**State or Province Code**	O	**ID 2/2**

Ref. Des.	Data Element	Name		Attributes
		Code (Standard State/Province) as defined by appropriate government agency		
TCD10	739	**Measurement Value**	O	R 1/20
		The value of the measurement		
TCD11	739	**Measurement Value**	O	R 1/20
		The value of the measurement		
TCD12	782	**Monetary Amount**	O	R 1/18
		Monetary amount		

Segment:	**SI** Service Characteristic Identification
Position:	600
Loop:	TCD Optional
Level:	Detail
Usage:	Optional
Max Use:	2
Purpose:	To specify service characteristic data
Syntax Notes:	1 If either SI04 or SI05 is present, then the other is required.
	2 If either SI06 or SI07 is present, then the other is required.
	3 If either SI08 or SI09 is present, then the other is required.
	4 If either SI10 or SI11 is present, then the other is required.
	5 If either SI12 or SI13 is present, then the other is required.
	6 If either SI14 or SI15 is present, then the other is required.
	7 If either SI16 or SI17 is present, then the other is required.
	8 If either SI18 or SI19 is present, then the other is required.
	9 If either SI20 or SI21 is present, then the other is required.
Semantic Notes:	
Comments:	1 SI01 defines the source for each of the service characteristics qualifiers.
Notes:	1. Unless otherwise specified, the qualifiers listed in SI02 may appear in any DE1000 element used in the segment.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> SI01	559	**Agency Qualifier Code**	M ID 2/2

Code identifying the agency assigning the code values

TI	Telecommunications Industry	

Ref. Des.	Data Element	Name	Attributes
>> SI02	1000	**Service Characteristics Qualifier**	M AN 2/2

Code from an industry code list qualifying the type of service characteristics

AE	Account Code
	Account Code -- a customer assigned value.
AP	Translated Account Code/PIN
	Account Code Description -- a customer assigned value.
DI	Department Code/Customer ID Code
	Group Code -- a customer assigned value.
DJ	Sub-Departmental ID Code
	Sub-Group Code -- a customer assigned value.
FN	From/Originating Station Telephone Number
MK	Market Segment
	Used for submarket code.
MT	Message Type
P0	Pricing Plan Type Indicator
PA	Primary/Originating Message Carrier Identification
	Used to pass a secondary provider's CIC.
RP	Rate Period Code
	Used for Calling Period.
S4	Section
	Section Code -- a customer assigned value.
SD	Settlement Code

A CenturyLink defined code indicating settlement
Jurisdiction for the call, e.g.,:

ASEL	Intrastate / Interlata
ESEL	Interstate / Interlata
ASAL	Intrastate / Intralata

Ref. Des.	Data Element	Name		Attributes

			ESAL	Interstate / Intralata	
			USIL	US to International	
			ILUS	International to US	
		SF	Service Feature/Option Code	
		ST	Message Service Type	
		TM	To/Terminating Station Telephone Number	
		ZZ	Mutually Defined	
			Used for Message Type Description	

>>	**SI03**	**234**	**Product/Service ID**	**M** **AN 1/48**
			Identifying number for a product or service	
	SI04	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI05	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI06	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI07	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI08	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI09	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI10	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI11	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI12	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI13	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI14	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI15	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI16	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI17	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI18	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI19	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	
	SI20	**1000**	**Service Characteristics Qualifier**	**X** **AN 2/2**
			Code from an industry code list qualifying the type of service characteristics	
	SI21	**234**	**Product/Service ID**	**X** **AN 1/48**
			Identifying number for a product or service	

October 28, 2011

Segment:	**TDS** Total Monetary Value Summary			
Position:	010			
Loop:				
Level:	Summary			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To specify the total invoice discounts and amounts			
Syntax Notes:				
Semantic Notes:	1	TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).		
	2	TDS02 indicates the amount upon which the terms discount amount is calculated.		
	3	TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).		
	4	TDS04 indicates the total amount of terms discount.		
Comments:	1	TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**TDS01**	**610**	**Amount**	**M N2 1/15**
			Monetary amount	

Segment: **BAL** Balance Detail

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

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
>> BAL01	951	**Balance Type Code**		**M ID 1/2**
		Code indicating the type of balance		
		M	Current Month	
		P	Previous Month	
>> BAL02	522	**Amount Qualifier Code**		**M ID 1/3**
		Code to qualify amount		
		BM	Adjustments	
		C4	Prior Payment - Actual	
		PB	Billed Amount	
		TP	Total payment amount	
		TT	Total Transaction Amount	
>> BAL03	782	**Monetary Amount**		**M R 1/18**
		Monetary amount		

Segment:	**DTM** Date/Time Reference
Position:	050
Loop:	BAL Optional
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:	
Comments:	
Notes:	1. The DTM segment is used only with BAL segments with BAL02 qualifier 'C4'.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> DTM01	374	**Date/Time Qualifier**	**M ID 3/3**
		Code specifying type of date or time, or both date and time	
		050 Received	
DTM02	373	**Date**	**X DT 8/8**
		Date expressed as CCYYMMDD	

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

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> CTT01	354	**Number of Line Items**	**M N0 1/6**
		Total number of line items in the transaction set	

		Segment:	**SE** Transaction Set Trailer

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

Data Element Summary

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

Totals Rollup

The Home Provider and the Roaming Provider totals in the Detail Invoice will total across to the Summary Invoice.

Detail Invoice (Debit Invoice - used to give charge detail by phone)		Summary Invoice (Consolidated Invoice - used as basis of payment)
CenturyLink **Charges for this phone**	*Other Providers* **these additional segments will appear if this phone had roaming call activity**	**Total charges for this account**
AMT1 Total charges for this period	**AMT Total charges for this period**	**AMT1 Total charges for this period**
TXI-FD federal tax		**TXI-FD federal tax**
TXI-ST state tax		**TXI-ST state tax**
TXI-CT county Tax		**TXI-CT county Tax**
TXI-LO local Tax		**TXI-LO local Tax**
	ITA roaming surcharge	**ITA roaming surcharges**
IT1-SV-0200 monthly service		**IT1-SV-0200 monthly service**
IT1-SV-0400 other charges and credits		**IT1-SV-0400 other charges and credits**
IT1-SV-0500 3 itemized calls	**IT1-SV-0500 itemized Calls**	**IT1-SV-0500 3 itemized calls**
ITA 2 free value minute usage discount		**ITA 2 free value minute usage discount**
IT1-SV-0700 local usage		**IT1-SV-0700 local usage**
IT1-SV-0900 Directory Assistance		**IT1-SV-0900 Directory Assistance**
IT1-SV-1200 Equipment sales		**IT1-SV-1200 Equipment sales**
TDS 1 total charges for this period		**TDS 1 total charges for this period**
		BAL-P-PB previous month's balance BAL-A-NA Net Adjustments BAL-M-TP current month's payments **BAL-M-TT current month's balance**

1 The amounts in the AMT and TDS segments are the same.

2 The amounts in the ITAs for free value minute discounts are negative.

3 The amount in the IT1-SV-0500 segment (itemized calls) of the detail invoice is the sum of the amounts in the TCD segments at level 9 (call detail). The amount in this segment of the summary invoice is the sum of the IT1-SV-0500 segments of the detail invoices.

4 In the detail invoice, there will be one ITA for each date that surcharges were applied. Roaming surcharges may not apply for a given provider.

5 In the summary invoice, there will be **only** one ITA, regardless of the number of dates or providers involved. Note that there is only one provider loop in the summary invoice.

Totals for each invoice type may be derived in the following manner.

Detail Invoice
Home Provider
+ TXI-FD (federal tax)
+ TXI-ST (state tax)
+ TXI-CT (county tax)
+ TXI-LO (local tax)
+ IT1-SV-0200 (monthly service)
+ IT1-SV-0400 (other charges and credits)
+ IT1-SV-0500 (itemized calls - sum of amounts in TCD segments)
+ ITA (usage discount - a negative number)
+ IT1-SV-0700 (local usage)
+ IT1-SV-0900(directory assistance)
+ IT1-SV-1200 (equipment sales)
Other Providers
 + AMT-SC(total charges for this period for each provider)
IT1-SV-0500(itemized calls)
ITA (roaming surcharge - multiple occurrences)
= AMT = TDS (total charges for this period for this phone)

Summary Invoice
+ ITA (total roaming surcharges - single occurrences)
+ TXI-FD (federal tax)
+ TXI-ST (state tax)
+ TXI-CT (county tax)
+ TXI-LO (local tax)
+ IT1-SV-0200 (monthly service)
+ IT1-SV-0400 (other charges and credits)
+ IT1-SV-0500 (itemized calls)
+ ITA (usage discount - a negative number)
+ IT1-SV-0700 (local usage)
+ IT1-SV-0900(directory assistance)
+ IT1-SV-1200 (equipment sales)
= AMT = TDS (total charges for this period for this account)
+ TDS (total charges for this period for this account)
+ BAL-P-PB (previous month's balance)
+ BAL-A-NA (account level adjustments - may be a negative number)
+ BAL-M-TP (current month's payments)
= BAL-M-TT (current month's balance for this account)